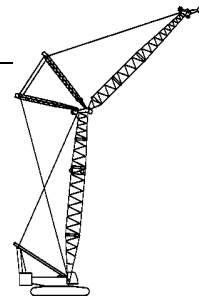




Liftcrane Luffing Jib Capacities

Luffing Jib No. 59 On Boom No. 58 HL
 296,000 lb Crane Counterweight
 60,000 lb Carbody Counterweight
 360 Degree Rating



16000 SERIES 2



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

Luffing Jib Backward Stability: Capacities indicated by (b) require 9,500 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (c) require 13,000 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (d) require 17,500 lb minimum weight suspended beneath luffing jib point.

Caution: Do not luff into areas indicated by (b), (c) or (d) without required minimum weights. Luffing jib will not luff down and luffing hoist wire rope may overhaul luffing jib and cause luffing hoist to go slack causing wire rope damage or failure.

Lower boom point must be completely removed from 177.2 ft boom length.

Upper luffing jib capacity for liftcrane service with single part whip line is 30,000 lb or 60,000 lb with two part whip line. In all cases, upper luffing jib capacities cannot exceed those listed for main luffing jib capacity.

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

OPERATING CONDITIONS: Machine to operate on a firm uniformly supporting surface and bearing turntable level within a tolerance of 1/2 in. in 10 ft and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib assembly **No. A13555**, Wire Rope Specification chart **No. 8724-A**, Counterweight Arrangement chart **No. 8682-A**, Luffing Jib Raising Procedure chart **No. 8723-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 with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8732-A**.



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



BOOM ANGLE: Boom angle in degrees ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts.



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



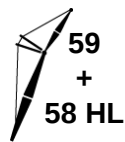
LUFFING JIB POINT ELEVATION: Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

MACHINE EQUIPMENT: Machine equipped with 34 ft crawlers, 60 in. treads, 32 ft live mast, 26 part boom hoist reeving, boom support straps, 17 part luffing jib hoist reeving, luffing jib and backstay support straps, 296,000 lb crane counterweight, and two 30,000 lb carbody counterweights.

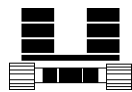
Boom and/or Jib Catwalks Deduct

Deduct 1,000 lb from capacities when boom and/or jib catwalks are attached.

Explanation of Symbols



Luffing Jib No. 59
+
Boom No. 58 Heavy Lift Top



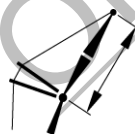
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Luffing Jib Length

Explanation of Symbols (continued)



Boom Angle
(see page 1)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



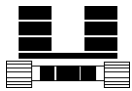
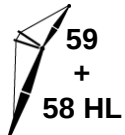
Luffing Jib Elevation
(see page 1)



Lifting Capacities
(see page 1)

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

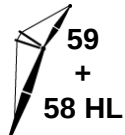


78.7 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
38	73.5	183.2	408,500 *c							38
40	72.0	182.5	392,000 *c							40
45	68.1	180.5	342,800 b	70.8	181.6	337,000 b				45
50	64.0	178.1	295,500 b	66.9	179.5	290,500 b				50
55	59.9	175.2	259,300 b	62.8	176.9	254,900 b				55
60	55.5	171.8	230,600	58.5	173.9	226,700	65.7	177.4	217,000 b	60
65	50.8	167.8	207,300	54.1	170.3	203,900	61.6	174.7	195,100 b	65
70	45.8	163.0	188,100	49.3	166.1	184,900	57.3	171.5	177,000	70
75	40.2	157.3	171,800	44.1	161.0	169,000	52.8	167.8	161,800	75
80	33.9	150.2	157,900	38.4	154.9	155,300	47.9	163.4	148,700	80
85	26.2	140.9	145,800	31.8	147.3	143,500	42.6	158.1	137,400	85
90	14.8	126.0	135,000	23.4	136.9	133,000	36.7	151.6	127,500	90
95				8.1	116.6	123,400	29.7	143.4	118,800	95
100							20.4	131.7	110,900	100
105										105
110										110
115										115
120										120
125										125

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

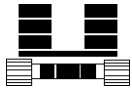
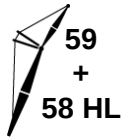


78.7 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.3	171.6	154,500 b							75
80	55.9	168.3	142,100							80
85	51.3	164.4	131,300							85
90	46.3	159.7	121,900	54.3	164.1	116,200				90
95	40.9	154.1	113,500	49.6	159.9	108,300				95
100	34.6	147.2	106,100	44.5	155.0	101,200	52.4	158.9	96,300	100
105	27.1	138.1	99,400	38.8	148.9	94,900	47.5	154.4	90,300	105
110	16.4	124.3	93,200	32.2	141.4	89,200	42.2	149.1	84,900	110
115				23.9	131.2	83,900	36.2	142.5	80,000	115
120				9.9	112.6	78,800	29.1	134.1	75,400	120
125							19.6	122.0	71,200	125

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

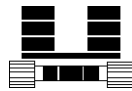
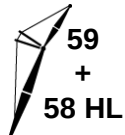


98.4 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45	72.7	201.6	341,100 *b		71.7	200.7	290,000 b		45	
50	69.6	199.7	295,100 b		68.6	198.8	254,400 b		50	
55	66.4	197.6	258,900 b		65.4	196.5	226,200		55	
60	63.1	195.1	230,300		62.1	193.9	203,400		60	
65	59.8	192.1	207,000		67.7	196.8	194,400 b		65	
70	56.3	188.9	187,800		64.5	194.4	176,300		70	
75	52.6	185.1	171,700		61.2	191.7	161,100		75	
80	48.8	180.8	157,900		57.8	188.5	148,100		80	
85	44.7	175.8	145,900		54.2	185.0	136,900		85	
90	40.3	170.0	135,500		50.4	180.9	127,100		90	
95	35.3	163.2	126,300		46.4	176.2	118,500		95	
100	29.7	154.9	118,100		42.2	170.8	110,800		100	
105	22.7	144.0	110,700		37.5	164.5	104,000		105	
110	12.1	126.5	103,900		32.2	156.9	97,800		110	
115					25.9	147.3	92,100		115	
120					17.4	133.6	86,900		120	
125									125	
130									130	
135									135	
140									140	
145									145	

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

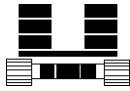
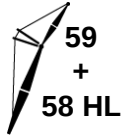


98.4 ft

	75°			70°			65°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.1	188.6	130,500							85
90	56.7	185.3	121,100							90
95	53.0	181.6	112,900							95
100	49.2	177.4	105,600	55.4	181.2	100,400				100
105	45.2	172.5	99,100	51.7	177.3	94,200				105
110	40.8	166.8	93,200	47.8	172.9	88,600				110
115	35.9	160.1	87,800	43.6	167.7	83,500	50.1	172.0	79,200	115
120	30.3	152.0	82,900	39.1	161.7	78,800	46.1	167.3	74,800	120
125	23.6	141.5	78,400	34.0	154.6	74,600	41.8	161.8	70,700	125
130	13.7	125.3	74,100	28.1	145.8	70,700	37.1	155.4	67,000	130
135				20.7	133.9	67,000	31.7	147.7	63,600	135
140				7.0	111.0	63,300	25.3	137.9	60,400	140
145							16.6	123.7	57,300	145

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

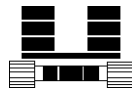
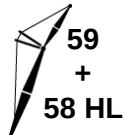


118.1 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
50	73.1	220.7	294,300 b							50
55	70.5	218.9	258,100 b	72.3	219.8	253,400 b				55
60	67.9	216.9	229,400	69.7	218.0	225,300				60
65	65.3	214.6	206,200	67.1	215.9	202,500				65
70	62.5	212.0	187,000	64.4	213.5	183,600				70
75	59.7	209.1	170,900	61.7	210.8	167,700	66.4	213.8	159,900	75
80	56.8	205.9	157,100	58.8	207.8	154,200	63.7	211.4	146,900	80
85	53.8	202.2	145,200	55.9	204.4	142,500	60.9	208.6	135,700	85
90	50.7	198.2	134,800	52.9	200.7	132,300	58.0	205.5	126,000	90
95	47.4	193.7	125,700	49.7	196.5	123,300	55.1	202.1	117,400	95
100	44.0	188.6	117,600	46.4	191.8	115,400	52.0	198.2	109,800	100
105	40.3	182.8	110,300	42.9	186.5	108,200	48.8	193.9	103,000	105
110	36.2	176.2	103,800	39.1	180.5	101,800	45.4	189.0	96,900	110
115	31.8	168.4	97,900	34.9	173.6	96,000	41.9	183.6	91,400	115
120	26.6	158.9	92,400	30.3	165.4	90,700	38.0	177.3	86,300	120
125	20.1	146.6	87,400	24.8	155.2	85,800	33.7	170.0	81,700	125
130	9.9	126.2	82,700	17.7	141.5	81,300	28.8	161.4	77,500	130
135							23.0	150.5	73,500	135
140							15.1	134.9	69,800	140
145										145
150										150
155										155
160										160
165										165

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

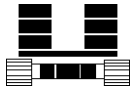
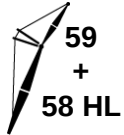


118.1 ft

	75°			70°			65°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.8	208.4	119,800							90
95	60.0	205.6	111,600							95
100	57.1	202.3	104,300							100
105	54.2	198.8	97,800							105
110	51.1	194.8	92,000	56.1	198.3	87,100				110
115	47.8	190.3	86,700	53.1	194.5	82,100				115
120	44.4	185.3	81,900	49.9	190.4	77,600				120
125	40.7	179.6	77,500	46.6	185.7	73,400	51.8	189.3	69,300	125
130	36.7	173.0	73,500	43.1	180.5	69,600	48.6	185.0	65,700	130
135	32.3	165.4	69,800	39.3	174.5	66,000	45.2	180.1	62,300	135
140	27.2	156.2	66,300	35.2	167.6	62,700	41.6	174.5	59,200	140
145	20.9	144.3	63,000	30.6	159.5	59,700	37.7	168.2	56,300	145
150	11.5	125.6	59,900	25.1	149.5	56,800	33.4	160.9	53,600	150
155				18.2	136.1	54,100	28.5	152.1	51,100	155
160				3.9	107.1	51,300	22.6	141.0	48,700	160
165							14.4	124.9	46,300	165

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

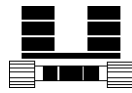
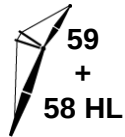


137.8 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
55	73.4	239.7	257,300	b						55
60	71.2	238.1	228,700		72.8	238.9	224,400			60
65	69.0	236.1	205,400		70.6	237.1	201,600			65
70	66.7	234.0	186,200		68.3	235.2	182,700			70
75	64.4	231.6	170,100		66.0	232.9	166,800			75
80	62.1	229.0	156,300		63.7	230.5	153,300	67.7	233.2	145,900
85	59.7	226.1	144,400		61.4	227.8	141,600	65.4	230.9	134,700
90	57.2	222.9	134,100		58.9	224.8	131,500	63.1	228.4	125,000
95	54.7	219.3	124,900		56.4	221.5	122,500	60.7	225.6	116,500
100	52.0	215.5	116,900		53.9	217.9	114,600	58.3	222.5	108,900
105	49.3	211.2	109,600		51.2	213.9	107,500	55.7	219.1	102,100
110	46.5	206.5	103,100		48.5	209.5	101,100	53.2	215.4	96,000
115	43.5	201.3	97,300		45.6	204.6	95,300	50.5	211.3	90,500
120	40.3	195.5	91,900		42.5	199.3	90,100	47.7	206.8	85,500
125	36.9	189.0	87,000		39.3	193.3	85,300	44.7	201.8	80,900
130	33.1	181.6	82,600		35.8	186.5	80,900	41.6	196.3	76,700
135	29.0	172.9	78,400		31.9	178.7	76,800	38.3	190.1	72,900
140	24.2	162.4	74,600		27.6	169.6	73,100	34.7	183.1	69,300
145	18.1	148.7	71,000		22.5	158.4	69,600	30.8	175.0	66,000
150	8.1	125.2	67,400		15.8	143.0	66,200	26.3	165.4	62,900
155								20.8	153.3	60,000
160								13.3	135.8	57,100
165										
170										
175										
180										
185										

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

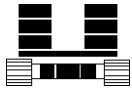
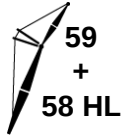


137.8 ft

	75°			70°			65°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.3	225.4	103,200							100
105	59.9	222.5	96,700							105
110	57.5	219.3	90,900							110
115	55.0	215.9	85,700							115
120	52.3	212.0	80,900	56.6	215.3	76,400				120
125	49.6	207.8	76,600	54.0	211.7	72,300				125
130	46.8	203.2	72,600	51.4	207.7	68,500				130
135	43.8	198.0	68,900	48.6	203.4	65,000	53.0	206.5	61,200	135
140	40.6	192.3	65,500	45.7	198.6	61,800	50.3	202.4	58,100	140
145	37.3	185.9	62,400	42.7	193.2	58,800	47.5	197.9	55,300	145
150	33.6	178.6	59,400	39.5	187.3	56,000	44.5	192.9	52,600	150
155	29.5	170.1	56,700	36.0	180.5	53,400	41.4	187.3	50,100	155
160	24.7	159.8	54,100	32.2	172.8	50,900	38.1	181.0	47,800	160
165	18.8	146.6	51,600	27.9	163.8	48,600	34.5	173.9	45,700	165
170	9.7	125.3	49,200	22.8	152.7	46,500	30.5	165.8	43,600	170
175				16.3	137.7	44,300	25.9	156.0	41,700	175
180							20.4	143.7	39,800	180
185							12.6	125.5	37,900	185

16000 S-2

ANSI B30.5



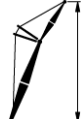
296,000 lb
+
60,000 lb



98.4 ft

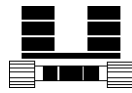
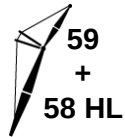


157.5 ft

	 87°			 85°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
60	73.7	258.8	227,700							60
65	71.7	257.2	204,400							65
70	69.8	255.3	185,200	71.2	256.3	181,600				70
75	67.8	253.3	169,100	69.2	254.4	165,700				75
80	65.9	251.1	155,300	67.2	252.3	152,200				80
85	63.8	248.6	143,400	65.2	250.0	140,500				85
90	61.8	245.9	133,000	63.2	247.5	130,400	66.7	250.3	123,700	90
95	59.7	243.0	123,900	61.1	244.7	121,400	64.7	247.9	115,100	95
100	57.5	239.9	115,800	59.0	241.7	113,500	62.6	245.3	107,600	100
105	55.3	236.4	108,600	56.8	238.5	106,400	60.5	242.5	100,800	105
110	53.0	232.7	102,100	54.6	234.9	100,000	58.4	239.5	94,800	110
115	50.7	228.6	96,300	52.3	231.1	94,300	56.2	236.1	89,300	115
120	48.3	224.2	91,000	49.9	226.9	89,100	54.0	232.5	84,300	120
125	45.7	219.4	86,100	47.5	222.4	84,300	51.7	228.6	79,700	125
130	43.1	214.1	81,700	44.9	217.5	79,900	49.3	224.3	75,600	130
135	40.3	208.3	77,600	42.2	212.0	75,900	46.8	219.7	71,700	135
140	37.3	201.9	73,800	39.4	206.1	72,200	44.2	214.6	68,200	140
145	34.1	194.7	70,300	36.4	199.4	68,700	41.5	209.0	64,900	145
150	30.7	186.5	67,000	33.1	191.9	65,500	38.6	202.9	61,900	150
155	26.8	177.0	63,900	29.5	183.4	62,500	35.5	196.0	59,000	155
160	22.2	165.5	61,000	25.4	173.4	59,700	32.2	188.3	56,400	160
165	16.4	150.4	58,300	20.6	161.1	57,000	28.4	179.4	53,800	165
170	6.4	123.4	55,600	14.2	144.1	54,500	24.2	168.9	51,500	170
175							19.0	155.6	49,200	175
180							11.8	136.2	47,000	180
185										185
190										190
195										195
200										200
205										205

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

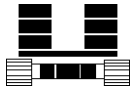
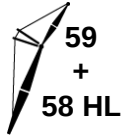


157.5 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.0	242.3	89,500							110
115	59.9	239.5	84,300							115
120	57.7	236.3	79,600							120
125	55.5	232.9	75,200							125
130	53.3	229.2	71,300	57.0	232.3	67,000				130
135	50.9	225.2	67,600	54.7	228.8	63,500				135
140	48.5	220.8	64,200	52.5	224.9	60,300				140
145	46.0	216.0	61,100	50.1	220.8	57,400				145
150	43.4	210.8	58,200	47.6	216.3	54,600	51.5	219.7	51,100	150
155	40.6	205.1	55,500	45.1	211.4	52,100	49.1	215.4	48,700	155
160	37.7	198.7	53,000	42.4	206.0	49,700	46.6	210.7	46,400	160
165	34.5	191.6	50,600	39.6	200.0	47,400	44.0	205.6	44,300	165
170	31.1	183.5	48,400	36.6	193.4	45,300	41.3	200.0	42,300	170
175	27.2	174.2	46,300	33.3	186.0	43,300	38.4	193.8	40,400	175
180	22.7	163.0	44,200	29.7	177.6	41,400	35.3	186.9	38,600	180
185	17.1	148.5	42,300	25.7	167.6	39,600	31.9	179.1	36,900	185
190	8.2	124.3	40,400	20.9	155.5	37,900	28.2	170.1	35,300	190
195				14.7	139.0	36,200	23.9	159.4	33,700	195
200							18.6	145.9	32,200	200
205							11.0	125.7	30,700	205

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

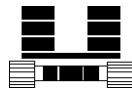
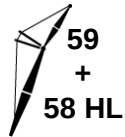


177.2 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
65	73.8	277.9	203,500							65
70	72.1	276.2	184,300							70
75	70.4	274.5	168,100	71.6	275.4	164,700				75
80	68.7	272.5	154,300	69.9	273.5	151,200				80
85	66.9	270.4	142,400	68.2	271.5	139,500				85
90	65.2	268.1	132,100	66.4	269.4	129,400				90
95	63.3	265.6	123,000	64.6	267.0	120,400	67.7	269.6	114,000	95
100	61.5	262.9	114,900	62.8	264.4	112,500	65.9	267.3	106,500	100
105	59.6	260.0	107,700	60.9	261.7	105,400	64.1	264.9	99,700	105
110	57.7	256.8	101,200	59.1	258.7	99,000	62.3	262.3	93,600	110
115	55.8	253.4	95,300	57.1	255.5	93,300	60.4	259.5	88,200	115
120	53.8	249.8	90,000	55.2	252.0	88,100	58.5	256.4	83,200	120
125	51.7	245.9	85,200	53.2	248.3	83,300	56.6	253.1	78,700	125
130	49.6	241.7	80,700	51.1	244.3	79,000	54.6	249.6	74,500	130
135	47.4	237.1	76,700	48.9	240.0	75,000	52.6	245.8	70,700	135
140	45.1	232.2	72,900	46.7	235.3	71,300	50.5	241.7	67,200	140
145	42.8	226.9	69,400	44.4	230.2	67,800	48.3	237.3	63,900	145
150	40.3	221.0	66,200	42.0	224.8	64,700	46.1	232.5	60,900	150
155	37.7	214.7	63,100	39.5	218.8	61,700	43.8	227.4	58,100	155
160	34.9	207.6	60,300	36.9	212.2	58,900	41.4	221.8	55,400	160
165	31.9	199.8	57,700	34.0	205.0	56,300	38.8	215.6	52,900	165
170	28.6	190.9	55,200	30.9	196.9	53,900	36.1	208.9	50,600	170
175	24.9	180.7	52,800	27.5	187.6	51,600	33.2	201.4	48,400	175
180	20.6	168.2	50,600	23.7	176.8	49,400	30.0	193.0	46,400	180
185	15.0	151.8	48,400	19.0	163.4	47,300	26.5	183.4	44,400	185
190	4.7	120.2	46,200	12.8	144.9	45,200	22.5	172.0	42,500	190
195							17.5	157.6	40,700	195
200							10.4	136.2	38,900	200
205										205
210										210
215										215
220										220
225										225

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

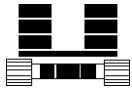
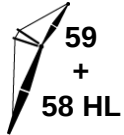


177.2 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	61.7	259.3	78,400							120
125	59.8	256.4	74,000							125
130	57.9	253.3	70,100							130
135	56.0	249.9	66,500							135
140	54.0	246.3	63,100	57.3	249.3	59,100				140
145	51.9	242.4	60,000	55.3	245.8	56,200				145
150	49.8	238.2	57,100	53.3	242.1	53,400				150
155	47.7	233.7	54,400	51.2	238.1	50,900				155
160	45.4	228.9	51,900	49.1	233.8	48,500	52.4	236.9	45,200	160
165	43.0	223.6	49,600	46.9	229.2	46,300	50.3	232.8	43,000	165
170	40.6	217.8	47,400	44.6	224.2	44,200	48.2	228.4	41,100	170
175	38.0	211.5	45,300	42.2	218.7	42,200	45.9	223.6	39,200	175
180	35.2	204.6	43,300	39.7	212.8	40,400	43.6	218.4	37,400	180
185	32.2	196.8	41,500	37.0	206.3	38,600	41.2	212.8	35,800	185
190	29.0	188.1	39,700	34.2	199.1	36,900	38.6	206.6	34,200	190
195	25.3	178.0	38,000	31.1	191.0	35,400	35.9	199.8	32,700	195
200	21.1	165.8	36,400	27.7	181.8	33,800	33.0	192.3	31,300	200
205	15.7	150.0	34,900	23.9	171.1	32,400	29.8	183.8	29,900	205
210	6.7	122.7	33,300	19.4	157.9	31,000	26.2	174.1	28,600	210
215				13.3	139.9	29,600	22.2	162.5	27,400	215
220							17.1	147.8	26,100	220
225							9.7	125.4	24,900	225

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

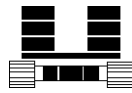
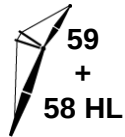


196.9 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
70	74.0	296.9	183,200						70	
75	72.5	295.3	167,100						75	
80	70.9	293.6	153,300	72.0	294.5	150,000			80	
85	69.4	291.7	141,400	70.4	292.7	138,400			85	
90	67.8	289.7	131,000	68.9	290.8	128,200			90	
95	66.2	287.5	121,900	67.3	288.7	119,200			95	
100	64.6	285.1	113,800	65.7	286.4	111,300			100	
105	63.0	282.6	106,600	64.1	284.0	104,200	66.9	286.7	98,400	105
110	61.3	279.9	100,100	62.5	281.4	97,900	65.3	284.4	92,300	110
115	59.6	276.9	94,200	60.8	278.6	92,100	63.6	281.9	86,800	115
120	57.9	273.8	88,900	59.1	275.6	86,900	62.0	279.3	81,900	120
125	56.2	270.5	84,100	57.4	272.5	82,200	60.3	276.4	77,400	125
130	54.4	266.9	79,600	55.6	269.0	77,800	58.6	273.4	73,200	130
135	52.5	263.1	75,600	53.8	265.4	73,800	56.9	270.1	69,400	135
140	50.7	259.0	71,800	52.0	261.5	70,100	55.1	266.7	65,900	140
145	48.7	254.7	68,300	50.1	257.4	66,700	53.3	263.0	62,600	145
150	46.7	250.0	65,100	48.1	252.9	63,500	51.4	259.0	59,600	150
155	44.7	245.0	62,100	46.1	248.2	60,600	49.5	254.8	56,800	155
160	42.5	239.6	59,300	44.0	243.0	57,800	47.6	250.2	54,200	160
165	40.3	233.8	56,600	41.9	237.5	55,200	45.5	245.4	51,700	165
170	38.0	227.5	54,200	39.6	231.6	52,800	43.4	240.1	49,400	170
175	35.5	220.6	51,800	37.2	225.1	50,500	41.3	234.5	47,200	175
180	32.8	213.0	49,600	34.7	218.0	48,400	39.0	228.4	45,200	180
185	30.0	204.6	47,600	32.0	210.2	46,300	36.5	221.8	43,300	185
190	26.9	195.0	45,600	29.1	201.4	44,400	34.0	214.5	41,400	190
195	23.3	184.0	43,700	25.8	191.5	42,600	31.2	206.4	39,700	195
200	19.2	170.6	41,900	22.1	179.9	40,800	28.2	197.4	38,100	200
205	13.8	152.9	40,200	17.7	165.5	39,100	24.9	187.1	36,500	205
210	2.4	114.0	38,300	11.7	145.3	37,500	21.0	174.8	35,000	210
215							16.3	159.3	33,500	215
220							9.3	135.8	32,000	220
225										225
230										230
235										235
240										240
245										245

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

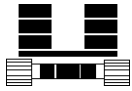
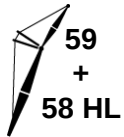


196.9 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130	61.5	276.3	68,700							130
135	59.8	273.4	65,000							135
140	58.1	270.3	61,700							140
145	56.3	267.0	58,600							145
150	54.6	263.4	55,700	57.5	266.2	51,900				150
155	52.7	259.6	53,100	55.7	262.9	49,400				155
160	50.9	255.6	50,600	53.9	259.2	47,000				160
165	48.9	251.3	48,200	52.1	255.4	44,800				165
170	47.0	246.6	46,100	50.2	251.2	42,800				170
175	44.9	241.7	44,000	48.2	246.8	40,800	51.3	250.1	37,700	175
180	42.8	236.3	42,100	46.2	242.1	39,000	49.4	245.9	35,900	180
185	40.6	230.6	40,200	44.2	236.9	37,200	47.4	241.3	34,300	185
190	38.2	224.3	38,500	42.0	231.5	35,600	45.4	236.4	32,700	190
195	35.8	217.5	36,800	39.7	225.5	34,000	43.3	231.2	31,300	195
200	33.1	210.0	35,300	37.4	219.1	32,500	41.1	225.5	29,900	200
205	30.3	201.6	33,800	34.9	212.0	31,100	38.8	219.4	28,500	205
210	27.2	192.2	32,400	32.2	204.3	29,800	36.4	212.7	27,300	210
215	23.7	181.4	31,000	29.3	195.6	28,500	33.8	205.4	26,100	215
220	19.7	168.3	29,700	26.0	185.7	27,300	31.0	197.3	24,900	220
225	14.5	151.2	28,400	22.4	174.2	26,100	28.0	188.1	23,800	225
230	5.3	120.1	27,000	18.0	160.0	24,900	24.6	177.7	22,700	230
235				12.1	140.4	23,800	20.7	165.2	21,700	235
240							15.9	149.4	20,600	240
245							8.5	124.7	19,600	245

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

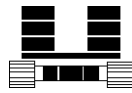
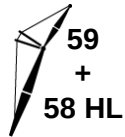


216.5 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
75	74.1	316.0	160,200 *							75
80	72.7	314.4	152,100							80
85	71.3	312.7	140,200	72.3	313.6	137,100				85
90	69.9	310.9	129,800	70.9	311.8	127,000				90
95	68.5	308.9	120,700	69.5	310.0	118,000				95
100	67.1	306.8	112,600	68.1	308.0	110,100				100
105	65.6	304.5	105,400	66.6	305.8	103,000				105
110	64.1	302.1	98,900	65.2	303.5	96,600	67.7	306.0	91,000	110
115	62.6	299.5	93,000	63.7	301.0	90,900	66.2	303.8	85,500	115
120	61.1	296.8	87,700	62.2	298.4	85,700	64.8	301.4	80,500	120
125	59.6	293.9	82,900	60.7	295.6	80,900	63.3	298.9	76,000	125
130	58.0	290.8	78,400	59.1	292.6	76,600	61.8	296.2	71,900	130
135	56.5	287.5	74,400	57.6	289.4	72,600	60.2	293.4	68,100	135
140	54.8	284.0	70,600	56.0	286.1	68,900	58.7	290.4	64,600	140
145	53.2	280.2	67,100	54.3	282.5	65,500	57.1	287.1	61,300	145
150	51.5	276.3	63,900	52.7	278.7	62,300	55.5	283.7	58,300	150
155	49.8	272.1	60,900	51.0	274.7	59,400	53.9	280.1	55,500	155
160	48.0	267.6	58,100	49.2	270.4	56,600	52.2	276.2	52,900	160
165	46.2	262.9	55,500	47.5	265.9	54,000	50.5	272.1	50,400	165
170	44.3	257.8	53,000	45.6	261.0	51,600	48.8	267.8	48,100	170
175	42.3	252.4	50,700	43.7	255.8	49,300	47.0	263.1	46,000	175
180	40.3	246.5	48,500	41.7	250.3	47,200	45.1	258.2	44,000	180
185	38.2	240.3	46,400	39.7	244.3	45,200	43.2	252.9	42,000	185
190	36.0	233.5	44,500	37.5	237.9	43,300	41.2	247.3	40,200	190
195	33.6	226.1	42,600	35.3	230.9	41,500	39.1	241.2	38,500	195
200	31.1	218.0	40,900	32.9	223.4	39,700	36.9	234.6	36,900	200
205	28.4	209.0	39,200	30.3	215.0	38,100	34.6	227.5	35,300	205
210	25.4	198.8	37,600	27.5	205.7	36,500	32.2	219.7	33,800	210
215	22.0	187.0	36,100	24.4	195.1	35,000	29.5	211.1	32,400	215
220	18.0	172.7	34,600	20.8	182.6	33,600	26.6	201.4	31,100	220
225	12.7	153.6	33,200	16.5	167.2	32,200	23.4	190.4	29,800	225
230				10.6	145.4	30,800	19.7	177.3	28,500	230
235							15.1	160.7	27,300	235
240							8.2	134.9	26,000	240
245										245
250										250
260										260

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

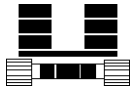
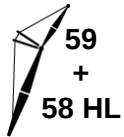


216.5 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135	62.8	296.0	63,600							135
140	61.3	293.2	60,300							140
145	59.8	290.3	57,200							145
150	58.2	287.2	54,400							150
155	56.6	284.0	51,700							155
160	55.0	280.5	49,200	57.7	283.2	45,600				160
165	53.4	276.8	46,900	56.1	279.9	43,400				165
170	51.7	272.9	44,700	54.4	276.3	41,300				170
175	50.0	268.7	42,700	52.8	272.5	39,400				175
180	48.2	264.2	40,700	51.1	268.5	37,600				180
185	46.4	259.5	38,900	49.4	264.3	35,800	52.1	267.4	32,900	185
190	44.5	254.5	37,200	47.6	259.7	34,200	50.4	263.2	31,300	190
195	42.6	249.1	35,600	45.7	254.9	32,700	48.6	258.9	29,800	195
200	40.5	243.3	34,000	43.8	249.7	31,200	46.8	254.2	28,500	200
205	38.4	237.1	32,500	41.9	244.2	29,800	45.0	249.2	27,100	205
210	36.2	230.4	31,100	39.8	238.3	28,500	43.0	243.9	25,900	210
215	33.9	223.0	29,800	37.7	231.9	27,200	41.0	238.3	24,700	215
220	31.4	215.0	28,500	35.4	225.0	26,000	38.9	232.1	23,600	220
225	28.7	206.1	27,300	33.0	217.4	24,900	36.7	225.6	22,500	225
230	25.7	196.1	26,100	30.4	209.1	23,700	34.4	218.4	21,400	230
235	22.4	184.5	25,000	27.6	199.8	22,700	32.0	210.5	20,400	235
240	18.4	170.5	23,900	24.6	189.3	21,700	29.3	201.9	19,400	240
245	13.4	152.1	22,800	21.1	177.0	20,700	26.4	192.1	18,500	245
250	3.7	115.9	21,600	16.8	161.9	19,700	23.2	181.0	17,600	250
260							14.7	150.7	15,800	260

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

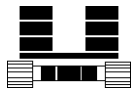
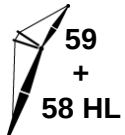


236.2 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
80	74.2	335.0	132,100 *							80
85	72.9	333.5	130,600 *							85
90	71.7	331.8	128,600	72.5	332.6	125,700				90
95	70.4	330.0	119,500	71.3	330.9	116,700				95
100	69.1	328.1	111,400	70.0	329.1	108,800				100
105	67.8	326.1	104,100	68.7	327.2	101,700				105
110	66.4	323.9	97,700	67.4	325.1	95,300				110
115	65.1	321.6	91,800	66.0	322.9	89,600				115
120	63.8	319.1	86,500	64.7	320.5	84,400	67.0	323.1	79,100	120
125	62.4	316.5	81,600	63.3	318.0	79,600	65.7	320.8	74,600	125
130	61.0	313.8	77,200	62.0	315.4	75,300	64.3	318.4	70,500	130
135	59.6	310.8	73,100	60.6	312.5	71,300	63.0	315.9	66,700	135
140	58.2	307.7	69,400	59.2	309.6	67,600	61.6	313.2	63,200	140
145	56.7	304.5	65,900	57.7	306.4	64,200	60.2	310.3	59,900	145
150	55.2	301.0	62,700	56.3	303.1	61,000	58.8	307.3	56,900	150
155	53.7	297.4	59,700	54.8	299.6	58,100	57.3	304.1	54,100	155
160	52.2	293.5	56,900	53.3	295.9	55,300	55.9	300.7	51,500	160
165	50.6	289.4	54,200	51.7	291.9	52,800	54.4	297.2	49,100	165
170	49.0	285.1	51,800	50.2	287.8	50,300	52.9	293.4	46,800	170
175	47.4	280.5	49,500	48.5	283.4	48,100	51.3	289.4	44,600	175
180	45.7	275.7	47,300	46.9	278.8	46,000	49.7	285.2	42,600	180
185	44.0	270.6	45,200	45.2	273.8	43,900	48.1	280.7	40,700	185
190	42.2	265.1	43,300	43.4	268.6	42,000	46.4	276.0	38,900	190
195	40.3	259.3	41,500	41.6	263.0	40,200	44.7	271.0	37,200	195
200	38.4	253.0	39,700	39.7	257.1	38,500	42.9	265.7	35,600	200
205	36.4	246.3	38,100	37.8	250.7	36,900	41.1	260.0	34,000	205
210	34.2	239.1	36,500	35.7	243.9	35,400	39.2	253.9	32,600	210
215	32.0	231.2	35,000	33.5	236.4	33,900	37.2	247.4	31,200	215
220	29.5	222.6	33,600	31.2	228.4	32,500	35.1	240.4	29,800	220
225	26.9	213.1	32,200	28.8	219.5	31,100	32.9	232.9	28,600	225
230	24.0	202.3	30,900	26.1	209.6	29,800	30.6	224.6	27,300	230
235	20.8	189.8	29,600	23.1	198.3	28,600	28.0	215.4	26,200	235
240	16.9	174.6	28,300	19.7	185.1	27,400	25.3	205.2	25,000	240
245	11.8	154.0	27,100	15.5	168.7	26,200	22.2	193.5	23,900	245
250				9.6	145.1	25,100	18.6	179.6	22,900	250
260							7.1	133.5	20,800	260
270										270

16000 S-2

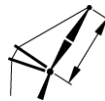
ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

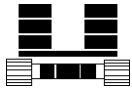
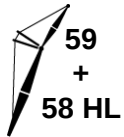


236.2 ft

	 75°			 70°			
	 ft	 o	 ft	 lb	 o	 ft	 lb
80							
85							
90							
95							
100							
105							
110							
115							
120							
125							
130							
135							
140							
145	62.5	312.9	55,700				
150	61.1	310.2	52,900				
155	59.7	307.3	50,200				
160	58.3	304.2	47,700				
165	56.9	301.0	45,400				
170	55.4	297.5	43,200	57.8	300.2	39,800	
175	53.9	293.9	41,200	56.4	296.9	37,800	
180	52.4	290.0	39,300	54.9	293.4	36,000	
185	50.8	286.0	37,500	53.4	289.7	34,300	
190	49.2	281.7	35,800	51.8	285.8	32,700	
195	47.6	277.2	34,100	50.3	281.6	31,200	
200	45.9	272.4	32,600	48.6	277.3	29,700	
205	44.2	267.3	31,200	47.0	272.6	28,300	
210	42.4	261.8	29,800	45.3	267.7	27,000	
215	40.5	256.0	28,400	43.5	262.5	25,800	
220	38.6	249.9	27,200	41.7	257.0	24,600	
225	36.6	243.2	26,000	39.8	251.0	23,400	
230	34.5	236.0	24,800	37.9	244.7	22,300	
235	32.2	228.2	23,700	35.8	237.9	21,300	
240	29.8	219.7	22,600	33.7	230.5	20,300	
245	27.2	210.3	21,600	31.4	222.5	19,300	
250	24.4	199.6	20,600	28.9	213.6	18,400	
260	17.3	172.5	18,700	23.3	192.6	16,600	
270				15.8	163.4	14,900	

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

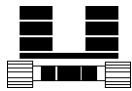
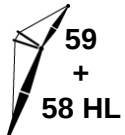


255.9 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
85	74.3	354.1	112,000 *							85
90	73.1	352.5	110,900 *							90
95	71.9	350.9	109,800 *	72.8	351.7	109,100 *				95
100	70.8	349.2	108,700 *	71.6	350.0	107,600				100
105	69.6	347.3	103,100	70.4	348.3	100,600				105
110	68.4	345.3	96,600	69.2	346.4	94,200				110
115	67.1	343.2	90,700	68.0	344.4	88,400				115
120	65.9	341.0	85,400	66.8	342.2	83,200				120
125	64.7	338.6	80,500	65.5	339.9	78,500	67.7	342.4	73,400	125
130	63.4	336.1	76,100	64.3	337.5	74,100	66.4	340.2	69,200	130
135	62.2	333.5	72,000	63.0	335.0	70,100	65.2	337.9	65,500	135
140	60.9	330.7	68,300	61.8	332.3	66,500	64.0	335.4	62,000	140
145	59.6	327.8	64,800	60.5	329.5	63,100	62.7	332.9	58,700	145
150	58.3	324.7	61,600	59.2	326.5	59,900	61.4	330.1	55,700	150
155	56.9	321.5	58,600	57.9	323.4	56,900	60.1	327.3	52,900	155
160	55.6	318.0	55,800	56.5	320.1	54,200	58.8	324.3	50,300	160
165	54.2	314.5	53,100	55.2	316.6	51,600	57.5	321.1	47,900	165
170	52.8	310.7	50,700	53.8	313.0	49,200	56.1	317.7	45,600	170
175	51.4	306.7	48,400	52.4	309.1	47,000	54.8	314.2	43,500	175
180	49.9	302.5	46,200	50.9	305.1	44,800	53.4	310.5	41,400	180
185	48.4	298.1	44,200	49.5	300.9	42,800	52.0	306.6	39,500	185
190	46.9	293.5	42,200	48.0	296.4	40,900	50.5	302.5	37,700	190
195	45.3	288.5	40,400	46.4	291.6	39,200	49.0	298.2	36,000	195
200	43.7	283.4	38,700	44.8	286.6	37,500	47.5	293.7	34,400	200
205	42.0	277.9	37,000	43.2	281.4	35,800	46.0	288.9	32,900	205
210	40.3	272.0	35,500	41.5	275.8	34,300	44.4	283.8	31,400	210
215	38.5	265.8	34,000	39.8	269.8	32,800	42.7	278.4	30,000	215
220	36.7	259.2	32,500	38.0	263.5	31,400	41.0	272.8	28,700	220
225	34.7	252.1	31,200	36.1	256.7	30,100	39.3	266.7	27,500	225
230	32.7	244.4	29,900	34.1	249.5	28,800	37.5	260.3	26,200	230
235	30.5	236.1	28,600	32.0	241.6	27,600	35.6	253.4	25,100	235
240	28.2	227.0	27,400	29.8	233.1	26,400	33.5	245.9	24,000	240
245	25.7	216.9	26,300	27.4	223.7	25,300	31.4	237.9	22,900	245
250	22.9	205.5	25,200	24.8	213.2	24,200	29.2	229.1	21,900	250
260	15.9	176.2	23,000	18.6	187.4	22,200	24.1	208.7	19,900	260
270				8.8	144.5	20,100	17.6	181.6	18,100	270
280							6.2	131.6	16,300	280

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft

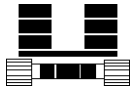


255.9 ft

	75°		
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145			
150			
155	62.3	329.9	48,900
160	61.0	327.1	46,500
165	59.7	324.2	44,200
170	58.4	321.2	42,000
175	57.1	317.9	40,000
180	55.7	314.5	38,100
185	54.4	311.0	36,200
190	53.0	307.2	34,500
195	51.5	303.3	32,900
200	50.1	299.1	31,400
205	48.6	294.7	30,000
210	47.1	290.1	28,600
215	45.5	285.2	27,300
220	43.9	280.0	26,000
225	42.2	274.6	24,800
230	40.5	268.8	23,700
235	38.7	262.6	22,600
240	36.9	256.0	21,500
245	34.9	249.0	20,500
250	32.9	241.4	19,500
260	28.4	224.1	17,700
260	28.4	224.1	17,700
270	23.2	202.9	16,000
280	16.4	174.2	14,400

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



98.4 ft



275.6 ft

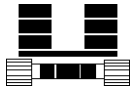
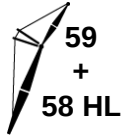
	87°			85°		
	ft	o	ft	lb	ft	lb
90	74.4	373.1	94,400 *			
95	73.3	371.6	93,300 *			
100	72.2	370.0	92,300 *	72.9	370.8	91,900 *
105	71.1	368.3	91,200 *	71.8	369.1	90,900 *
110	70.0	366.5	90,200 *	70.7	367.4	89,900 *
115	68.9	364.5	89,200 *	69.6	365.5	87,100
120	67.7	362.5	84,100	68.5	363.6	81,900
125	66.6	360.3	79,300	67.4	361.5	77,200
130	65.5	358.0	74,900	66.3	359.3	72,800
135	64.3	355.6	70,800	65.1	357.0	68,800
140	63.1	353.1	67,000	64.0	354.5	65,200
145	62.0	350.5	63,500	62.8	352.0	61,800
150	60.8	347.7	60,300	61.6	349.3	58,600
155	59.6	344.7	57,300	60.4	346.5	55,700
160	58.4	341.7	54,500	59.2	343.5	52,900
165	57.1	338.5	51,900	58.0	340.4	50,300
170	55.9	335.1	49,400	56.7	337.1	47,900
175	54.6	331.5	47,100	55.5	333.7	45,700
180	53.3	327.8	45,000	54.2	330.1	43,600
185	52.0	323.9	42,900	52.9	326.3	41,600
190	50.6	319.9	41,000	51.6	322.4	39,700
195	49.3	315.6	39,200	50.2	318.2	37,900
200	47.9	311.1	37,400	48.8	313.9	36,200
205	46.4	306.3	35,800	47.4	309.3	34,600
210	45.0	301.4	34,200	46.0	304.5	33,000
215	43.5	296.1	32,700	44.5	299.5	31,600
220	41.9	290.6	31,300	43.0	294.1	30,200
225	40.3	284.8	30,000	41.4	288.5	28,900
230	38.7	278.6	28,700	39.8	282.6	27,600
235	37.0	272.0	27,400	38.2	276.3	26,400
240	35.2	265.0	26,200	36.4	269.6	25,200
245	33.3	257.5	25,100	34.6	262.4	24,100
250	31.3	249.4	24,000	32.7	254.8	23,000
260	27.0	231.1	21,900	28.6	237.5	21,000
270	21.8	208.5	20,000	23.7	216.6	19,100
280	15.1	177.6	18,200	17.7	189.4	17,300
290				7.9	143.5	15,600



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

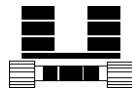
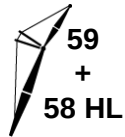


78.7 ft

	87°			85°			80°			
38	74.3	203.2	396,100 *d							38
40	72.8	202.5	381,300 *c							40
45	68.9	200.6	342,700 b	72.2	201.8	335,600 c				45
50	64.9	198.3	295,400 b	68.2	199.9	289,300 b				50
55	60.7	195.5	259,200 b	64.2	197.4	253,900 b				55
60	56.4	192.2	230,600	60.0	194.6	225,800 b				60
65	51.8	188.3	207,300	55.6	191.2	203,000	64.5	196.0	192,300 b	65
70	46.8	183.7	188,000	51.0	187.2	184,200	60.3	193.1	174,400 b	70
75	41.4	178.2	171,800	46.0	182.5	168,300	55.9	189.8	159,400	75
80	35.3	171.5	157,900	40.5	176.8	154,700	51.3	185.9	146,500	80
85	28.0	162.7	145,800	34.2	169.8	142,900	46.3	181.2	135,400	85
90	17.8	149.7	135,100	26.5	160.5	132,600	40.8	175.6	125,700	90
95				15.4	146.1	123,200	34.6	168.6	117,100	95
100							27.1	159.6	109,400	100
105							16.3	145.7	102,300	105
110										110
115										115
120										120
125										125
130										130
135										135

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

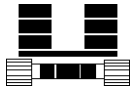
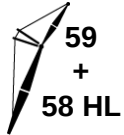


78.7 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.4	190.7	138,300 b							80
85	56.0	187.4	127,800							85
90	51.4	183.5	118,700							90
95	46.4	178.8	110,600	55.9	183.9	104,000				95
100	41.0	173.2	103,400	51.3	180.0	97,300				100
105	34.8	166.3	96,900	46.3	175.3	91,200				105
110	27.3	157.4	91,000	40.8	169.7	85,700	50.8	175.3	80,400	110
115	16.7	143.7	85,500	34.6	162.7	80,700	45.8	170.6	75,700	115
120				27.1	153.7	76,100	40.3	164.9	71,500	120
125				16.4	139.9	71,800	34.0	157.8	67,600	125
130							26.3	148.5	63,900	130
135							15.0	133.7	60,400	135

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

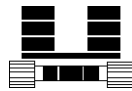
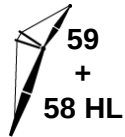


98.4 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45	73.3	221.6	330,400 *b							45
50	70.2	219.8	295,000 b	72.8	220.9	288,700 b				50
55	67.1	217.7	258,800 b	69.7	219.1	253,300 b				55
60	63.8	215.2	230,200	66.5	216.9	225,200 b				60
65	60.5	212.4	207,000	63.3	214.4	202,500				65
70	57.0	209.2	187,800	59.9	211.5	183,700	66.7	215.4	173,600 b	70
75	53.4	205.6	171,600	56.4	208.2	167,900	63.5	213.0	158,600	75
80	49.6	201.4	157,800	52.8	204.5	154,400	60.1	210.1	145,800	80
85	45.6	196.5	145,900	48.9	200.2	142,700	56.6	206.8	134,800	85
90	41.2	191.0	135,500	44.9	195.3	132,500	53.0	203.1	125,200	90
95	36.4	184.4	126,300	40.4	189.5	123,600	49.2	198.9	116,700	95
100	30.9	176.4	118,100	35.5	182.8	115,600	45.1	194.0	109,100	100
105	24.3	166.2	110,700	29.9	174.5	108,400	40.7	188.3	102,400	105
110	15.0	151.0	104,000	23.0	163.8	101,900	35.9	181.6	96,300	110
115				12.7	146.7	95,800	30.3	173.5	90,700	115
120							23.5	162.9	85,700	120
125							13.6	146.6	80,900	125
130										130
135										135
140										140
145										145
150										150
155										155

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

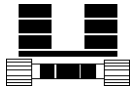
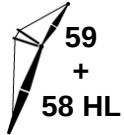


98.4 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.2	207.7	117,800							90
95	56.7	204.4	109,800							95
100	53.1	200.7	102,700							100
105	49.3	196.5	96,300	56.6	200.9	90,300				105
110	45.2	191.6	90,600	53.0	197.2	84,900				110
115	40.8	185.9	85,400	49.2	193.0	80,000				115
120	36.0	179.3	80,600	45.1	188.1	75,500	52.7	192.6	70,500	120
125	30.5	171.2	76,300	40.7	182.4	71,500	48.8	188.3	66,700	125
130	23.7	160.8	72,200	35.9	175.7	67,700	44.7	183.4	63,200	130
135	13.9	144.7	68,400	30.3	167.6	64,200	40.3	177.6	60,000	135
140				23.5	157.1	61,000	35.4	170.8	56,900	140
145				13.6	140.7	57,800	29.7	162.5	54,100	145
150							22.8	151.7	51,400	150
155							12.2	134.2	48,800	155

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

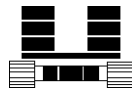
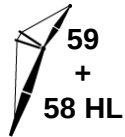


118.1 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
50	73.6	240.7	289,700 *b							50
55	71.1	239.0	257,900 b							55
60	68.5	237.0	229,300	70.6	238.2	224,200 b				60
65	65.8	234.7	206,100	68.0	236.2	201,500				65
70	63.1	232.2	186,900	65.4	233.9	182,700				70
75	60.3	229.4	170,800	62.6	231.4	166,900				75
80	57.4	226.2	157,000	59.8	228.5	153,400	65.5	232.5	144,500	80
85	54.5	222.7	145,100	56.9	225.2	141,800	62.8	229.9	133,500	85
90	51.4	218.7	134,700	54.0	221.6	131,700	60.0	227.1	123,900	90
95	48.1	214.3	125,600	50.8	217.6	122,700	57.1	223.9	115,500	95
100	44.7	209.3	117,500	47.6	213.1	114,800	54.1	220.3	108,000	100
105	41.1	203.7	110,300	44.1	208.0	107,700	51.0	216.3	101,300	105
110	37.1	197.3	103,700	40.4	202.3	101,300	47.8	211.8	95,300	110
115	32.7	189.7	97,800	36.4	195.7	95,500	44.3	206.7	89,800	115
120	27.7	180.7	92,400	31.9	188.0	90,300	40.7	201.1	84,900	120
125	21.6	169.2	87,400	26.8	178.6	85,400	36.7	194.5	80,300	125
130	12.8	151.7	82,700	20.4	166.4	81,000	32.2	186.9	76,200	130
135				10.5	146.7	76,700	27.1	177.6	72,300	135
140							20.9	165.7	68,700	140
145							11.4	146.9	65,200	145
150										150
155										155
160										160
165										165
170										170
175										175

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

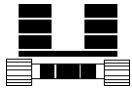
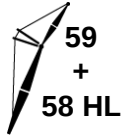


118.1 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.9	227.5	108,300							95
100	60.1	224.6	101,200							100
105	57.2	221.4	94,900							105
110	54.2	217.9	89,200							110
115	51.1	213.9	84,100	57.1	217.9	78,500				115
120	47.9	209.4	79,500	54.1	214.4	74,100				120
125	44.4	204.4	75,200	51.0	210.4	70,100				125
130	40.8	198.7	71,300	47.8	205.9	66,400				130
135	36.8	192.2	67,700	44.3	200.9	63,000	50.7	205.7	58,500	135
140	32.4	184.6	64,300	40.7	195.1	59,900	47.5	201.2	55,500	140
145	27.3	175.4	61,200	36.7	188.6	57,000	44.0	196.1	52,800	145
150	21.1	163.6	58,200	32.2	181.0	54,200	40.3	190.4	50,200	150
155	11.8	145.1	55,300	27.1	171.7	51,700	36.3	183.7	47,900	155
160				20.9	159.8	49,200	31.8	176.0	45,600	160
165				11.4	141.0	46,800	26.6	166.6	43,500	165
170							20.2	154.3	41,500	170
175							10.1	134.0	39,400	175

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

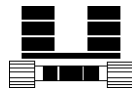
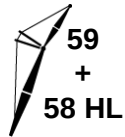


137.8 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
55	73.9	259.7	255,500	*b						55
60	71.7	258.1	228,500							60
65	69.5	256.2	205,300	71.3	257.4	200,600				65
70	67.2	254.1	186,100	69.1	255.5	181,800				70
75	64.9	251.8	170,000	66.8	253.3	166,000				75
80	62.6	249.2	156,200	64.5	251.0	152,500				80
85	60.2	246.3	144,300	62.2	248.3	140,900	67.0	251.9	132,400	85
90	57.7	243.2	134,000	59.8	245.4	130,800	64.7	249.5	122,900	90
95	55.2	239.7	124,900	57.3	242.2	121,900	62.3	246.9	114,400	95
100	52.6	236.0	116,800	54.8	238.7	114,000	59.9	244.0	107,000	100
105	49.9	231.8	109,600	52.1	234.9	106,900	57.5	240.8	100,300	105
110	47.1	227.2	103,100	49.4	230.6	100,600	54.9	237.4	94,300	110
115	44.1	222.1	97,200	46.6	226.0	94,800	52.3	233.5	88,900	115
120	41.0	216.4	91,900	43.6	220.8	89,600	49.6	229.3	84,000	120
125	37.6	210.1	87,000	40.4	215.0	84,900	46.8	224.7	79,500	125
130	33.9	202.9	82,500	37.0	208.6	80,500	43.8	219.5	75,400	130
135	29.9	194.5	78,400	33.3	201.1	76,400	40.6	213.8	71,600	135
140	25.2	184.5	74,500	29.2	192.5	72,700	37.2	207.4	68,100	140
145	19.5	171.6	70,900	24.4	182.1	69,200	33.5	200.0	64,800	145
150	11.0	151.8	67,500	18.4	168.6	65,900	29.4	191.5	61,700	150
155				8.7	146.0	62,700	24.7	181.2	58,900	155
160							18.8	168.0	56,200	160
165							9.6	146.6	53,500	165
170										170
175										175
180										180
185										185
190										190
195										195

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

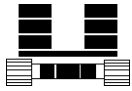
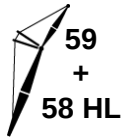


137.8 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.4	244.4	93,800							105
110	60.0	241.6	88,100							110
115	57.5	238.4	83,000							115
120	55.0	234.9	78,400							120
125	52.4	231.1	74,100	57.5	234.9	68,900				125
130	49.7	226.9	70,300	54.9	231.5	65,200				130
135	46.8	222.3	66,700	52.3	227.6	61,900				135
140	43.9	217.1	63,400	49.6	223.4	58,800				140
145	40.7	211.4	60,300	46.8	218.8	55,900	52.1	223.0	51,600	145
150	37.3	205.0	57,500	43.8	213.6	53,200	49.3	218.8	49,100	150
155	33.6	197.7	54,800	40.6	207.9	50,800	46.5	214.1	46,800	155
160	29.5	189.2	52,300	37.2	201.5	48,400	43.5	208.9	44,600	160
165	24.8	179.0	49,900	33.5	194.1	46,200	40.3	203.1	42,500	165
170	19.0	165.9	47,700	29.4	185.6	44,100	36.9	196.6	40,600	170
175	10.0	144.9	45,400	24.7	175.4	42,200	33.2	189.2	38,800	175
180				18.8	162.1	40,300	29.0	180.5	37,000	180
185				9.6	140.7	38,400	24.2	170.1	35,400	185
190							18.2	156.4	33,800	190
195							8.3	133.1	32,100	195

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

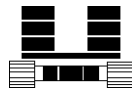
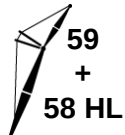


157.5 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
60	74.1	278.8	227,300 *							60
65	72.1	277.2	204,300							65
70	70.2	275.4	185,100	71.8	276.5	180,600				70
75	68.3	273.4	168,900	69.9	274.7	164,800				75
80	66.3	271.2	155,100	67.9	272.6	151,400				80
85	64.2	268.8	143,300	65.9	270.4	139,800				85
90	62.2	266.2	132,900	63.9	268.0	129,600				90
95	60.1	263.3	123,800	61.8	265.3	120,700	66.1	268.9	113,100	95
100	58.0	260.2	115,700	59.7	262.4	112,800	64.0	266.5	105,600	100
105	55.8	256.8	108,500	57.6	259.2	105,800	62.0	263.9	99,000	105
110	53.5	253.1	102,000	55.4	255.8	99,500	59.9	261.0	93,000	110
115	51.2	249.1	96,200	53.1	252.1	93,700	57.7	257.8	87,600	115
120	48.8	244.8	90,900	50.8	248.0	88,500	55.5	254.4	82,700	120
125	46.3	240.1	86,000	48.3	243.6	83,800	53.3	250.7	78,200	125
130	43.6	234.9	81,600	45.8	238.8	79,500	50.9	246.7	74,100	130
135	40.9	229.2	77,500	43.2	233.6	75,500	48.5	242.3	70,400	135
140	38.0	222.9	73,700	40.4	227.8	71,800	46.0	237.5	66,900	140
145	34.8	215.9	70,200	37.4	221.4	68,300	43.4	232.3	63,600	145
150	31.4	207.9	66,900	34.3	214.2	65,100	40.6	226.5	60,600	150
155	27.6	198.7	63,900	30.8	206.1	62,200	37.6	220.2	57,800	155
160	23.2	187.7	61,000	26.9	196.6	59,400	34.5	213.1	55,200	160
165	17.8	173.7	58,300	22.4	185.3	56,700	31.0	205.0	52,800	165
170	9.5	151.4	55,600	16.7	170.4	54,200	27.2	195.7	50,400	170
175				7.1	144.5	51,700	22.7	184.4	48,200	175
180							17.1	169.9	46,100	180
185							8.1	145.6	44,000	185
190										190
195										195
200										200
205										205
210										210
215										215

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

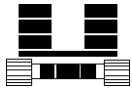
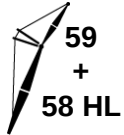


157.5 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	62.0	261.4	81,500							115
120	59.9	258.5	76,900							120
125	57.8	255.4	72,700							125
130	55.6	252.0	68,800							130
135	53.3	248.3	65,300	57.7	251.9	60,300				135
140	51.0	244.3	62,000	55.5	248.5	57,200				140
145	48.6	239.9	59,000	53.3	244.8	54,400				145
150	46.1	235.1	56,200	50.9	240.8	51,800				150
155	43.4	229.9	53,500	48.5	236.4	49,300				155
160	40.7	224.2	51,100	46.0	231.6	47,000	50.7	236.2	43,000	160
165	37.7	217.8	48,800	43.4	226.4	44,800	48.3	231.7	41,000	165
170	34.6	210.7	46,600	40.6	220.6	42,800	45.8	226.9	39,100	170
175	31.1	202.7	44,600	37.6	214.3	40,900	43.1	221.6	37,300	175
180	27.3	193.4	42,600	34.5	207.2	39,100	40.3	215.9	35,600	180
185	22.8	182.2	40,800	31.0	199.1	37,400	37.4	209.4	34,000	185
190	17.3	167.8	39,000	27.2	189.8	35,800	34.2	202.2	32,500	190
195	8.4	144.1	37,200	22.7	178.5	34,200	30.7	194.1	31,100	195
200				17.1	164.0	32,700	26.8	184.6	29,700	200
205				8.1	139.7	31,100	22.2	173.1	28,400	205
210							16.5	158.1	27,100	210
215							6.6	131.4	25,700	215

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

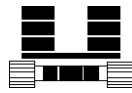
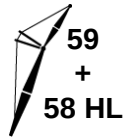


177.2 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
65	74.2	297.8	202,400 *							65
70	72.5	296.3	184,100							70
75	70.8	294.5	167,900	72.2	295.6	163,800				75
80	69.1	292.6	154,200	70.5	293.8	150,300				80
85	67.3	290.5	142,300	68.8	291.9	138,700				85
90	65.5	288.2	131,900	67.0	289.7	128,600				90
95	63.7	285.8	122,800	65.2	287.5	119,700				95
100	61.9	283.1	114,800	63.4	285.0	111,800	67.1	288.3	104,400	100
105	60.0	280.2	107,600	61.6	282.3	104,800	65.3	286.0	97,800	105
110	58.1	277.1	101,100	59.7	279.4	98,400	63.5	283.5	91,800	110
115	56.2	273.8	95,200	57.8	276.2	92,700	61.7	280.8	86,500	115
120	54.2	270.2	89,900	55.8	272.8	87,500	59.8	277.9	81,600	120
125	52.1	266.4	85,100	53.9	269.2	82,800	57.9	274.8	77,100	125
130	50.0	262.2	80,700	51.8	265.3	78,500	56.0	271.4	73,000	130
135	47.9	257.7	76,600	49.7	261.1	74,500	54.0	267.8	69,300	135
140	45.6	252.9	72,800	47.5	256.5	70,800	51.9	263.9	65,800	140
145	43.3	247.6	69,300	45.2	251.6	67,400	49.8	259.7	62,600	145
150	40.8	241.9	66,100	42.9	246.3	64,200	47.6	255.2	59,600	150
155	38.2	235.7	63,100	40.4	240.5	61,300	45.4	250.3	56,800	155
160	35.5	228.8	60,200	37.8	234.2	58,500	43.0	245.0	54,200	160
165	32.5	221.2	57,600	35.0	227.2	55,900	40.6	239.3	51,800	165
170	29.3	212.5	55,100	32.0	219.4	53,500	38.0	233.0	49,500	170
175	25.7	202.6	52,800	28.7	210.6	51,200	35.2	226.0	47,400	175
180	21.5	190.7	50,500	25.0	200.3	49,000	32.2	218.3	45,300	180
185	16.3	175.4	48,400	20.7	188.0	47,000	28.9	209.5	43,400	185
190	8.1	150.5	46,200	15.3	171.8	45,000	25.3	199.4	41,600	190
195				5.5	142.1	43,000	21.0	187.2	39,800	195
200							15.7	171.4	38,100	200
205							6.6	143.9	36,400	205
210										210
215										215
220										220
225										225
230										230
235										235

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

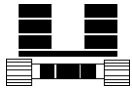
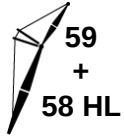


177.2 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	61.7	278.4	71,500							125
130	59.9	275.5	67,600							130
135	58.0	272.4	64,100							135
140	56.0	269.0	60,800							140
145	54.0	265.4	57,800	57.9	268.9	53,100				145
150	52.0	261.5	55,000	56.0	265.5	50,500				150
155	49.9	257.3	52,400	54.0	261.9	48,100				155
160	47.7	252.8	50,000	51.9	258.0	45,800				160
165	45.4	248.0	47,700	49.8	253.9	43,600				165
170	43.1	242.7	45,600	47.6	249.3	41,600	51.7	253.4	37,800	170
175	40.6	236.9	43,500	45.4	244.4	39,800	49.6	249.2	36,100	175
180	38.0	230.6	41,600	43.0	239.1	38,000	47.4	244.7	34,400	180
185	35.3	223.7	39,800	40.6	233.4	36,300	45.2	239.7	32,800	185
190	32.3	216.0	38,100	38.0	227.1	34,700	42.8	234.4	31,300	190
195	29.0	207.3	36,500	35.2	220.1	33,200	40.3	228.6	29,900	195
200	25.4	197.2	35,000	32.2	212.4	31,800	37.7	222.2	28,600	200
205	21.2	185.1	33,500	28.9	203.6	30,400	34.9	215.2	27,300	205
210	15.8	169.4	32,000	25.3	193.5	29,100	31.9	207.4	26,100	210
215	7.0	142.6	30,500	21.0	181.4	27,800	28.6	198.6	24,900	215
220				15.7	165.5	26,500	24.9	188.3	23,800	220
225				6.6	138.0	25,200	20.6	175.9	22,700	225
230							15.1	159.5	21,600	230
235							4.9	128.4	20,400	235

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

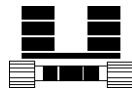
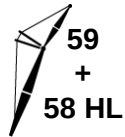


196.9 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
70	74.3	316.9	179,300 *							70
75	72.8	315.3	166,900							75
80	71.2	313.6	153,100	72.5	314.7	149,100				80
85	69.7	311.8	141,200	71.0	312.9	137,500				85
90	68.1	309.8	130,800	69.4	311.1	127,400				90
95	66.5	307.6	121,700	67.9	309.0	118,500				95
100	64.9	305.3	113,600	66.3	306.8	110,600				100
105	63.3	302.8	106,400	64.7	304.5	103,600	68.0	307.5	96,400	105
110	61.6	300.1	100,000	63.0	301.9	97,200	66.4	305.4	90,400	110
115	60.0	297.2	94,100	61.4	299.2	91,500	64.8	303.0	85,100	115
120	58.3	294.1	88,800	59.7	296.3	86,300	63.1	300.5	80,200	120
125	56.5	290.8	84,000	58.0	293.2	81,600	61.5	297.8	75,700	125
130	54.7	287.3	79,500	56.2	289.9	77,300	59.8	294.9	71,700	130
135	52.9	283.5	75,500	54.4	286.3	73,300	58.1	291.8	67,900	135
140	51.1	279.5	71,700	52.6	282.5	69,600	56.3	288.5	64,500	140
145	49.1	275.2	68,200	50.7	278.4	66,200	54.5	284.9	61,300	145
150	47.2	270.6	65,000	48.8	274.1	63,100	52.7	281.1	58,300	150
155	45.1	265.7	62,000	46.8	269.4	60,100	50.9	277.1	55,500	155
160	43.0	260.4	59,200	44.8	264.5	57,400	48.9	272.8	53,000	160
165	40.8	254.7	56,600	42.6	259.1	54,800	46.9	268.1	50,500	165
170	38.5	248.5	54,100	40.4	253.3	52,400	44.9	263.1	48,300	170
175	36.0	241.7	51,800	38.1	247.0	50,200	42.8	257.8	46,100	175
180	33.4	234.3	49,600	35.6	240.1	48,000	40.5	252.0	44,100	180
185	30.6	226.1	47,500	32.9	232.6	46,000	38.2	245.8	42,200	185
190	27.5	216.8	45,500	30.1	224.2	44,100	35.7	238.9	40,400	190
195	24.1	206.1	43,700	27.0	214.7	42,300	33.1	231.4	38,700	195
200	20.1	193.3	41,900	23.5	203.7	40,500	30.3	223.1	37,100	200
205	15.1	176.7	40,100	19.3	190.4	38,800	27.2	213.7	35,600	205
210	6.8	148.9	38,400	14.0	172.9	37,200	23.7	202.8	34,100	210
215				3.7	137.9	35,500	19.6	189.7	32,700	215
220							14.4	172.6	31,300	220
225							5.2	141.1	29,800	225
230										230
235										235
240										240
245										245
250										250

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

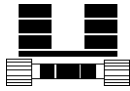
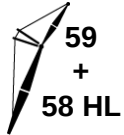


196.9 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135	61.5	295.3	62,600							135
140	59.8	292.4	59,300							140
145	58.1	289.3	56,300							145
150	56.4	286.0	53,600							150
155	54.6	282.5	51,000							155
160	52.8	278.7	48,600	56.3	282.6	44,200				160
165	50.9	274.7	46,300	54.6	279.0	42,100				165
170	49.0	270.4	44,200	52.7	275.2	40,100				170
175	47.0	265.7	42,200	50.9	271.2	38,300				175
180	44.9	260.8	40,300	48.9	266.9	36,500	52.6	270.6	32,800	180
185	42.8	255.4	38,500	46.9	262.2	34,800	50.7	266.6	31,300	185
190	40.6	249.7	36,800	44.9	257.3	33,300	48.8	262.2	29,800	190
195	38.3	243.4	35,200	42.8	251.9	31,800	46.8	257.5	28,400	195
200	35.8	236.6	33,700	40.5	246.1	30,400	44.7	252.6	27,100	200
205	33.2	229.1	32,300	38.2	239.9	29,000	42.6	247.2	25,800	205
210	30.4	220.8	30,900	35.7	233.1	27,700	40.3	241.4	24,600	210
215	27.3	211.4	29,600	33.1	225.6	26,500	38.0	235.0	23,500	215
220	23.8	200.6	28,300	30.3	217.2	25,300	35.5	228.2	22,400	220
225	19.7	187.6	27,100	27.2	207.8	24,200	32.9	220.6	21,400	225
230	14.6	170.6	25,900	23.7	196.9	23,100	30.0	212.2	20,400	230
235	5.6	140.3	24,600	19.6	183.8	22,100	26.9	202.6	19,400	235
240				14.4	166.7	21,000	23.4	191.6	18,400	240
245				5.2	135.3	19,900	19.2	178.2	17,500	245
250							13.9	160.6	16,600	250

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

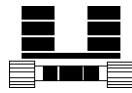
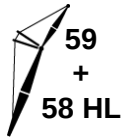


216.5 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
75	74.4	335.9	149,500 *							75
80	73.0	334.4	148,300 *							80
85	71.6	332.7	140,000	72.8	333.7	136,300				85
90	70.2	330.9	129,600	71.4	332.0	126,100				90
95	68.8	329.0	120,500	70.0	330.2	117,200				95
100	67.4	326.9	112,400	68.5	328.3	109,300				100
105	65.9	324.7	105,200	67.1	326.2	102,300				105
110	64.4	322.3	98,800	65.7	323.9	96,000				110
115	63.0	319.8	92,900	64.2	321.5	90,300	67.2	324.7	83,700	115
120	61.5	317.0	87,600	62.7	318.9	85,100	65.8	322.4	78,800	120
125	59.9	314.2	82,800	61.2	316.2	80,400	64.3	320.0	74,400	125
130	58.4	311.1	78,300	59.7	313.3	76,000	62.8	317.5	70,300	130
135	56.8	307.8	74,300	58.1	310.2	72,100	61.3	314.7	66,600	135
140	55.2	304.4	70,500	56.5	306.9	68,400	59.8	311.8	63,100	140
145	53.5	300.7	67,000	54.9	303.4	65,000	58.2	308.7	59,900	145
150	51.9	296.8	63,800	53.3	299.6	61,800	56.6	305.5	57,000	150
155	50.1	292.6	60,800	51.6	295.7	58,900	55.0	302.0	54,200	155
160	48.4	288.2	58,000	49.9	291.5	56,200	53.4	298.3	51,600	160
165	46.6	283.5	55,400	48.1	287.1	53,600	51.7	294.3	49,200	165
170	44.7	278.5	52,900	46.3	282.3	51,200	50.0	290.2	47,000	170
175	42.8	273.2	50,600	44.4	277.2	49,000	48.2	285.7	44,900	175
180	40.7	267.4	48,400	42.4	271.8	46,800	46.4	281.0	42,900	180
185	38.6	261.2	46,400	40.4	266.0	44,800	44.5	276.0	41,000	185
190	36.4	254.6	44,400	38.3	259.8	42,900	42.5	270.6	39,200	190
195	34.1	247.3	42,600	36.0	253.0	41,100	40.5	264.8	37,500	195
200	31.6	239.4	40,800	33.7	245.6	39,400	38.4	258.5	35,900	200
205	28.9	230.6	39,200	31.2	237.6	37,800	36.2	251.8	34,400	205
210	26.0	220.7	37,600	28.5	228.6	36,200	33.8	244.5	32,900	210
215	22.7	209.3	36,000	25.5	218.5	34,800	31.3	236.5	31,500	215
220	18.9	195.6	34,600	22.1	206.7	33,300	28.6	227.6	30,200	220
225	14.0	177.8	33,100	18.1	192.6	32,000	25.7	217.5	28,900	225
230	5.6	146.6	31,600	13.0	173.7	30,600	22.3	205.9	27,700	230
235							18.4	191.9	26,500	235
240							13.3	173.5	25,300	240
245							3.5	136.7	24,100	245
250										250
260										260

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

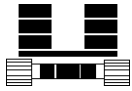
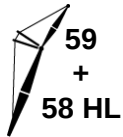


216.5 ft

	75°			70°		
	ft	ft	lb	ft	ft	lb
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140	62.8	315.0	57,900			
145	61.3	312.3	54,900			
150	59.8	309.4	52,100			
155	58.2	306.3	49,600			
160	56.7	303.0	47,100			
165	55.1	299.5	44,900			
170	53.4	295.9	42,800	56.6	299.6	38,700
175	51.7	291.9	40,800	55.0	296.1	36,800
180	50.0	287.8	38,900	53.4	292.4	35,100
185	48.2	283.3	37,200	51.7	288.5	33,400
190	46.4	278.6	35,500	50.0	284.3	31,800
195	44.5	273.6	33,900	48.2	279.8	30,400
200	42.6	268.2	32,400	46.4	275.1	29,000
205	40.6	262.4	31,000	44.5	270.1	27,600
210	38.5	256.2	29,600	42.5	264.7	26,400
215	36.3	249.5	28,300	40.5	258.9	25,200
220	33.9	242.2	27,100	38.4	252.7	24,000
225	31.4	234.2	25,900	36.2	245.9	22,900
230	28.7	225.3	24,800	33.8	238.6	21,800
235	25.8	215.3	23,700	31.3	230.6	20,800
240	22.4	203.7	22,600	28.6	221.7	19,900
245	18.5	189.8	21,600	25.7	211.6	18,900
250	13.5	171.6	20,600	22.3	200.0	18,000
260				13.4	167.6	16,200

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

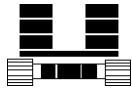
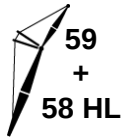


236.2 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
80	74.5	355.0	124,400 *							80
85	73.2	353.5	123,200 *							85
90	71.9	351.8	122,100 *	73.0	352.8	120,900 *				90
95	70.6	350.1	119,300	71.7	351.1	115,900				95
100	69.3	348.2	111,200	70.4	349.4	108,000				100
105	68.0	346.2	104,000	69.1	347.5	101,000				105
110	66.7	344.0	97,500	67.8	345.4	94,600				110
115	65.4	341.7	91,600	66.5	343.3	88,900				115
120	64.0	339.3	86,300	65.2	341.0	83,800	67.9	343.9	77,300	120
125	62.7	336.7	81,500	63.8	338.5	79,000	66.6	341.8	72,900	125
130	61.3	334.0	77,100	62.4	335.9	74,700	65.2	339.5	68,800	130
135	59.9	331.1	73,000	61.1	333.1	70,700	63.9	337.0	65,100	135
140	58.5	328.0	69,200	59.6	330.2	67,100	62.5	334.4	61,700	140
145	57.0	324.8	65,800	58.2	327.1	63,700	61.1	331.7	58,500	145
150	55.6	321.4	62,600	56.8	323.9	60,500	59.7	328.8	55,500	150
155	54.1	317.8	59,600	55.3	320.4	57,600	58.3	325.7	52,800	155
160	52.5	314.0	56,800	53.8	316.8	54,900	56.9	322.5	50,200	160
165	51.0	310.0	54,100	52.3	312.9	52,300	55.4	319.0	47,800	165
170	49.4	305.7	51,700	50.7	308.9	49,900	53.9	315.4	45,600	170
175	47.7	301.2	49,400	49.1	304.5	47,700	52.4	311.5	43,500	175
180	46.1	296.4	47,200	47.5	300.0	45,600	50.8	307.5	41,500	180
185	44.3	291.3	45,200	45.8	295.2	43,600	49.2	303.2	39,600	185
190	42.6	285.9	43,200	44.0	290.0	41,700	47.6	298.7	37,800	190
195	40.7	280.2	41,400	42.2	284.6	39,900	45.9	293.9	36,100	195
200	38.8	274.0	39,700	40.4	278.8	38,200	44.2	288.7	34,500	200
205	36.8	267.4	38,000	38.5	272.5	36,600	42.4	283.3	33,000	205
210	34.7	260.3	36,400	36.4	265.9	35,000	40.5	277.5	31,600	210
215	32.4	252.6	34,900	34.3	258.7	33,600	38.6	271.3	30,200	215
220	30.1	244.1	33,500	32.0	250.8	32,200	36.6	264.7	28,900	220
225	27.5	234.8	32,100	29.6	242.2	30,800	34.4	257.5	27,700	225
230	24.7	224.3	30,800	27.0	232.7	29,600	32.2	249.7	26,500	230
235	21.5	212.2	29,500	24.2	222.0	28,300	29.8	241.2	25,300	235
240	17.8	197.6	28,300	20.9	209.5	27,100	27.2	231.7	24,200	240
245	13.0	178.6	27,100	17.0	194.5	26,000	24.3	221.1	23,100	245
250	4.3	143.1	25,700 *	12.0	174.2	24,800	21.1	208.7	22,100	250
260							12.4	174.1	20,100	260
270										270

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft

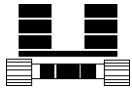
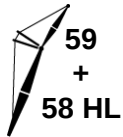


236.2 ft

	 75°		
 ft	 °	 ft	 lb
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145			
150	62.6	332.0	50,600
155	61.2	329.2	48,000
160	59.8	326.4	45,600
165	58.4	323.3	43,400
170	56.9	320.0	41,200
175	55.4	316.6	39,300
180	53.9	313.0	37,400
185	52.4	309.1	35,700
190	50.8	305.1	34,000
195	49.3	300.8	32,400
200	47.6	296.3	30,900
205	45.9	291.5	29,500
210	44.2	286.4	28,200
215	42.4	281.0	26,900
220	40.6	275.2	25,700
225	38.6	269.0	24,500
230	36.6	262.4	23,400
235	34.5	255.2	22,300
240	32.3	247.4	21,300
245	29.9	238.9	20,300
250	27.3	229.5	19,400
260	21.2	206.6	17,500
270	12.5	172.3	15,800

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft



255.9 ft

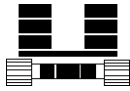
	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
85	74.5	374.0	105,900 *							85
90	73.4	372.5	105,000 *							90
95	72.2	370.9	104,100 *							95
100	71.0	369.2	103,200 *	72.0	370.2	102,600 *				100
105	69.8	367.4	102,300 *	70.8	368.5	99,800				105
110	68.6	365.4	96,400	69.6	366.6	93,500				110
115	67.4	363.3	90,500	68.4	364.7	87,800				115
120	66.2	361.1	85,200	67.2	362.6	82,600				120
125	64.9	358.8	80,400	66.0	360.3	77,900				125
130	63.7	356.3	76,000	64.7	358.0	73,600	67.3	361.1	67,600	130
135	62.4	353.7	71,900	63.5	355.5	69,600	66.0	358.9	63,900	135
140	61.1	351.0	68,100	62.2	352.9	65,900	64.8	356.5	60,400	140
145	59.9	348.1	64,700	60.9	350.1	62,500	63.6	354.0	57,200	145
150	58.5	345.0	61,400	59.6	347.2	59,400	62.3	351.4	54,300	150
155	57.2	341.8	58,500	58.3	344.1	56,500	61.0	348.6	51,600	155
160	55.9	338.4	55,700	57.0	340.9	53,700	59.7	345.7	49,000	160
165	54.5	334.9	53,000	55.6	337.5	51,200	58.4	342.7	46,600	165
170	53.1	331.1	50,600	54.3	333.9	48,800	57.1	339.4	44,400	170
175	51.7	327.2	48,300	52.9	330.1	46,600	55.7	336.0	42,300	175
180	50.2	323.1	46,100	51.4	326.1	44,400	54.3	332.5	40,300	180
185	48.7	318.7	44,100	50.0	321.9	42,500	52.9	328.7	38,400	185
190	47.2	314.1	42,100	48.5	317.5	40,600	51.5	324.7	36,600	190
195	45.6	309.2	40,300	46.9	312.9	38,800	50.1	320.6	35,000	195
200	44.0	304.1	38,600	45.4	308.0	37,100	48.6	316.2	33,400	200
205	42.4	298.7	36,900	43.8	302.8	35,500	47.0	311.6	31,900	205
210	40.7	292.9	35,400	42.1	297.3	34,000	45.5	306.7	30,400	210
215	38.9	286.8	33,900	40.4	291.5	32,500	43.9	301.5	29,100	215
220	37.1	280.2	32,500	38.6	285.3	31,100	42.2	296.1	27,800	220
225	35.1	273.2	31,100	36.7	278.7	29,800	40.5	290.3	26,500	225
230	33.1	265.7	29,800	34.8	271.6	28,500	38.7	284.1	25,400	230
235	31.0	257.5	28,600	32.8	264.0	27,300	36.9	277.5	24,200	235
240	28.7	248.6	27,400	30.6	255.7	26,200	34.9	270.5	23,100	240
245	26.2	238.7	26,200	28.3	246.6	25,000	32.9	262.9	22,100	245
250	23.5	227.6	25,100	25.8	236.6	24,000	30.7	254.6	21,100	250
260	16.8	199.5	23,000	19.8	212.1	21,900	25.9	235.6	19,200	260
270	2.6	137.1	19,400 *	11.1	174.5	19,900	20.0	211.4	17,400	270
280							11.5	174.5	15,700	280



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



118.1 ft



275.6 ft

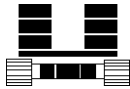
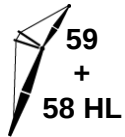
	87°			85°		
	 ft	 o	 ft	 lb	 ft	 lb
90	74.6	393.1	89,700 *			
95	73.5	391.6	88,900 *			
100	72.4	390.0	88,000 *			
105	71.3	388.3	87,100 *	72.2	389.3	86,700 *
110	70.2	386.5	86,200 *	71.1	387.6	85,900 *
115	69.1	384.6	85,400 *	70.0	385.8	85,100 *
120	68.0	382.6	84,000	68.9	383.9	81,300
125	66.8	380.4	79,100	67.8	381.8	76,600
130	65.7	378.2	74,700	66.7	379.7	72,200
135	64.6	375.8	70,600	65.5	377.4	68,300
140	63.4	373.3	66,900	64.4	375.0	64,600
145	62.2	370.7	63,400	63.2	372.5	61,200
150	61.0	367.9	60,200	62.0	369.8	58,100
155	59.8	365.0	57,200	60.8	367.0	55,200
160	58.6	362.0	54,400	59.6	364.1	52,400
165	57.4	358.8	51,800	58.4	361.1	49,900
170	56.1	355.4	49,300	57.2	357.8	47,500
175	54.9	351.9	47,000	55.9	354.5	45,200
180	53.6	348.3	44,900	54.6	350.9	43,100
185	52.3	344.4	42,800	53.3	347.2	41,100
190	50.9	340.4	40,900	52.0	343.3	39,300
195	49.6	336.1	39,100	50.7	339.3	37,500
200	48.2	331.7	37,300	49.3	335.0	35,800
205	46.7	327.0	35,700	47.9	330.5	34,200
210	45.3	322.1	34,100	46.5	325.8	32,700
215	43.8	316.9	32,700	45.0	320.8	31,200
220	42.2	311.4	31,200	43.5	315.6	29,900
225	40.7	305.7	29,900	42.0	310.1	28,500
230	39.0	299.5	28,600	40.4	304.3	27,300
235	37.3	293.1	27,400	38.7	298.1	26,100
240	35.5	286.2	26,200	37.0	291.5	24,900
245	33.7	278.8	25,000	35.2	284.5	23,800
250	31.7	270.8	23,900	33.4	277.1	22,800
260	27.4	252.8	21,900	29.3	260.3	20,700
270	22.4	230.8	20,000	24.6	240.2	18,900
280	15.9	201.1	18,100	18.9	214.4	17,100
290				10.3	174.5	15,400



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

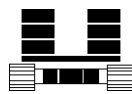
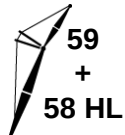


78.7 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
40	73.6	222.5	333,000 *d							40
45	69.7	220.7	309,200 *c							45
50	65.7	218.4	285,400 *b	69.6	220.2	287,800 c				50
55	61.6	215.8	258,800 b	65.6	217.9	252,500 b				55
60	57.3	212.6	230,200	61.5	215.2	224,600 b				60
65	52.7	208.8	207,000	57.2	212.0	202,000	67.2	217.0	189,300 b	65
70	47.9	204.4	187,800	52.6	208.3	183,200	63.2	214.5	171,700 b	70
75	42.6	199.1	171,600	47.7	203.8	167,400	58.9	211.5	156,900 b	75
80	36.6	192.6	157,700	42.4	198.5	153,900	54.5	208.0	144,200	80
85	29.6	184.4	145,700	36.4	192.0	142,200	49.7	203.9	133,300	85
90	20.3	172.7	135,000	29.4	183.7	131,900	44.6	198.9	123,700	90
95				20.0	171.8	122,700	38.9	192.9	115,300	95
100							32.4	185.4	107,700	100
105							24.2	175.4	100,900	105
110							10.6	157.4	94,500	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

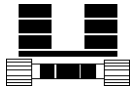
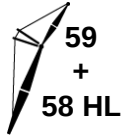


78.7 ft

	75°			70°			65°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.5	209.8	124,300 b							85
90	56.1	206.5	115,400							90
95	51.5	202.6	107,500							95
100	46.5	197.9	100,500	57.5	203.6	93,300 b				100
105	41.1	192.3	94,300	52.9	199.9	87,500				105
110	34.9	185.5	88,600	48.1	195.5	82,200				110
115	27.5	176.6	83,400	42.8	190.2	77,400				115
120	17.0	163.1	78,500	36.9	183.8	73,100	49.2	191.7	67,500	120
125				29.9	175.7	69,000	44.0	186.6	63,800	125
130				20.8	164.1	65,200	38.3	180.5	60,400	130
135							31.6	172.8	57,200	135
140							23.1	162.3	54,200	140
145							7.4	141.3	51,100	145

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

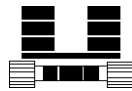
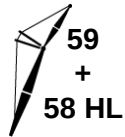


98.4 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45	73.9	241.6	293,700 *c							45
50	70.9	239.9	273,400 *b							50
55	67.7	237.8	254,900 *b	70.8	239.4	251,800 b				55
60	64.5	235.4	229,800 b	67.6	237.3	224,000 b				60
65	61.2	232.7	206,600	64.4	234.9	201,400 b				65
70	57.7	229.6	187,500	61.1	232.2	182,700				70
75	54.2	226.0	171,300	57.6	229.0	166,900	65.7	234.1	156,000 b	75
80	50.4	221.9	157,600	54.0	225.4	153,500	62.4	231.5	143,400	80
85	46.4	217.2	145,700	50.3	221.3	141,900	59.0	228.5	132,500	85
90	42.1	211.8	135,300	46.3	216.6	131,800	55.5	225.1	123,100	90
95	37.4	205.5	126,100	42.0	211.2	122,900	51.8	221.2	114,700	95
100	32.1	197.9	117,900	37.3	204.8	114,900	47.9	216.8	107,300	100
105	25.8	188.3	110,600	32.0	197.2	107,800	43.8	211.7	100,700	105
110	17.3	174.6	103,900	25.6	187.5	101,400	39.2	205.7	94,700	110
115				17.0	173.6	95,400	34.2	198.6	89,200	115
120							28.3	189.9	84,300	120
125							20.9	178.1	79,700	125
130							7.8	156.2	75,200	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

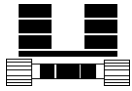
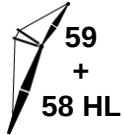


98.4 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.3	226.7	106,600							95
100	56.8	223.5	99,600							100
105	53.2	219.8	93,500							105
110	49.4	215.6	87,900	57.9	220.6	81,200				110
115	45.3	210.7	82,900	54.3	217.1	76,500				115
120	40.9	205.1	78,300	50.5	213.0	72,200				120
125	36.1	198.4	74,000	46.6	208.4	68,300				125
130	30.6	190.4	70,100	42.3	203.0	64,700	51.4	209.1	59,400	130
135	23.9	180.0	66,500	37.6	196.7	61,400	47.5	204.6	56,300	135
140	14.2	164.2	63,000	32.3	189.1	58,300	43.3	199.4	53,500	140
145				26.1	179.6	55,400	38.7	193.3	50,800	145
150				17.7	166.1	52,600	33.6	186.1	48,300	150
155							27.6	177.1	46,000	155
160							19.9	164.9	43,700	160
165							3.1	136.5	41,300	165

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

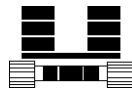
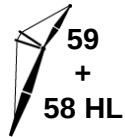


118.1 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	74.2	260.6	257,600 *b							50
55	71.6	259.0	242,000 *b							55
60	69.0	257.1	227,500 *b	71.5	258.5	222,900 b				60
65	66.4	254.9	205,700	68.9	256.6	200,300				65
70	63.7	252.4	186,600	66.3	254.4	181,600				70
75	60.9	249.7	170,500	63.6	251.9	165,900				75
80	58.0	246.6	156,700	60.8	249.1	152,500	67.4	253.4	142,000	80
85	55.1	243.1	144,800	57.9	246.0	140,900	64.7	251.1	131,200	85
90	52.0	239.2	134,500	55.0	242.5	130,900	61.9	248.4	121,700	90
95	48.8	234.9	125,400	51.9	238.7	122,000	59.1	245.5	113,400	95
100	45.4	230.1	117,300	48.7	234.3	114,100	56.2	242.1	106,100	100
105	41.8	224.6	110,100	45.3	229.4	107,000	53.2	238.4	99,500	105
110	38.0	218.3	103,600	41.7	223.9	100,700	50.0	234.3	93,600	110
115	33.7	211.1	97,600	37.8	217.7	95,000	46.7	229.6	88,200	115
120	28.8	202.4	92,300	33.5	210.4	89,700	43.2	224.4	83,300	120
125	23.0	191.5	87,300	28.7	201.7	84,900	39.4	218.5	78,900	125
130	15.1	175.9	82,700	22.8	190.7	80,500	35.3	211.6	74,800	130
135				14.7	174.8	76,300	30.7	203.5	71,000	135
140							25.3	193.6	67,500	140
145							18.4	180.3	64,100	145
150							5.1	153.4	60,800	150
155										155
160										160
165										165
170										170
175										175
180										180

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

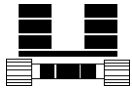
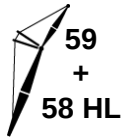


118.1 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.9	246.6	98,100							100
105	60.1	243.7	92,000							105
110	57.3	240.5	86,400							110
115	54.3	236.9	81,500							115
120	51.2	232.9	76,900							120
125	47.9	228.5	72,800	55.2	234.1	66,800				125
130	44.5	223.5	69,000	52.1	230.3	63,200				130
135	40.8	217.8	65,500	48.9	226.0	60,000				135
140	36.9	211.3	62,200	45.6	221.2	57,000	52.8	226.3	51,800	140
145	32.4	203.7	59,200	42.0	215.7	54,200	49.7	222.1	49,300	145
150	27.4	194.6	56,400	38.1	209.5	51,600	46.3	217.4	46,900	150
155	21.2	182.8	53,700	33.8	202.3	49,200	42.8	212.1	44,600	155
160	12.0	164.6	51,100	29.0	193.7	46,900	39.0	206.1	42,500	160
165				23.2	182.9	44,700	34.8	199.1	40,500	165
170				15.4	167.6	42,500	30.2	190.9	38,700	170
175							24.7	180.7	36,900	175
180							17.5	166.8	35,100	180

16000 S-2

ANSI B30.5



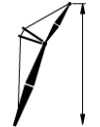
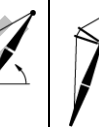
296,000 lb
+
60,000 lb



137.8 ft

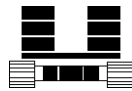
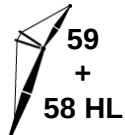


137.8 ft

	87°			85°			80°			
										
	ft	o	ft	lb	o	ft	lb	o	ft	lb
55	74.3	279.7	228,900 *b							55
60	72.1	278.1	216,500 *							60
65	69.9	276.3	204,900	72.1	277.6	199,300				65
70	67.7	274.2	185,700	69.9	275.8	180,600				70
75	65.4	271.9	169,600	67.6	273.7	165,000				75
80	63.1	269.4	155,900	65.3	271.4	151,600				80
85	60.7	266.6	144,000	63.0	268.9	140,000				85
90	58.2	263.5	133,700	60.6	266.1	130,000	66.2	270.5	120,600	90
95	55.7	260.1	124,600	58.2	263.0	121,100	63.9	268.1	112,300	95
100	53.1	256.4	116,500	55.7	259.6	113,200	61.6	265.4	105,000	100
105	50.5	252.3	109,300	53.1	255.9	106,200	59.2	262.4	98,400	105
110	47.7	247.8	102,900	50.4	251.8	99,900	56.7	259.2	92,500	110
115	44.7	242.9	97,000	47.6	247.2	94,200	54.1	255.6	87,200	115
120	41.6	237.3	91,700	44.6	242.2	89,000	51.5	251.6	82,400	120
125	38.3	231.1	86,800	41.5	236.7	84,300	48.7	247.3	78,000	125
130	34.7	224.1	82,400	38.2	230.5	79,900	45.8	242.5	73,900	130
135	30.8	216.0	78,200	34.6	223.4	75,900	42.8	237.2	70,200	135
140	26.3	206.4	74,400	30.6	215.3	72,200	39.6	231.2	66,700	140
145	20.8	194.3	70,800	26.1	205.6	68,800	36.1	224.5	63,500	145
150	13.2	176.8	67,400	20.6	193.4	65,500	32.3	216.9	60,500	150
155				12.9	175.6	62,400	28.0	207.9	57,700	155
160							23.0	196.9	55,100	160
165							16.5	182.1	52,600	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

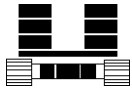
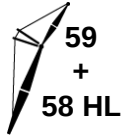


137.8 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.4	263.5	85,200							110
115	60.0	260.6	80,300							115
120	57.6	257.5	75,800							120
125	55.1	254.0	71,700							125
130	52.4	250.2	67,900							130
135	49.7	246.0	64,400	55.8	251.2	58,800				135
140	46.9	241.4	61,200	53.2	247.5	55,800				140
145	43.9	236.3	58,300	50.6	243.4	53,000				145
150	40.8	230.6	55,500	47.8	238.9	50,500				150
155	37.4	224.2	52,900	44.8	234.0	48,100	51.2	239.5	43,400	155
160	33.7	216.9	50,500	41.7	228.4	45,900	48.4	235.1	41,300	160
165	29.6	208.4	48,200	38.4	222.3	43,800	45.5	230.2	39,400	165
170	24.9	198.3	46,000	34.9	215.3	41,800	42.5	224.9	37,600	170
175	19.1	185.2	44,000	30.9	207.2	39,900	39.2	218.9	35,900	175
180	10.2	164.5	41,900	26.4	197.7	38,100	35.7	212.1	34,200	180
185				21.0	185.7	36,400	31.8	204.3	32,700	185
190				13.6	168.5	34,700	27.5	195.1	31,200	190
195							22.4	183.8	29,800	195
200							15.6	168.3	28,400	200

16000 S-2

ANSI B30.5



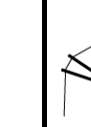
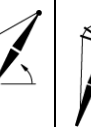
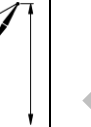
296,000 lb
+
60,000 lb



137.8 ft

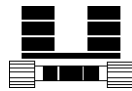
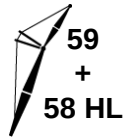


157.5 ft

	87°			85°			80°			
										
	ft	o	ft	lb	o	ft	lb	o	ft	lb
60	74.4	298.7	203,200 *							60
65	72.5	297.2	193,300 *							65
70	70.6	295.4	183,900 *	72.5	296.7	179,400				70
75	68.7	293.5	168,500	70.5	294.9	163,700				75
80	66.7	291.3	154,800	68.6	293.0	150,400				80
85	64.7	289.0	143,000	66.6	290.8	138,800				85
90	62.6	286.4	132,600	64.6	288.4	128,800				90
95	60.5	283.6	123,500	62.6	285.9	119,900	67.4	289.9	110,900	95
100	58.4	280.5	115,500	60.5	283.0	112,100	65.4	287.6	103,600	100
105	56.2	277.2	108,300	58.3	280.0	105,100	63.4	285.1	97,000	105
110	54.0	273.6	101,800	56.1	276.6	98,800	61.3	282.4	91,100	110
115	51.7	269.6	96,000	53.9	273.0	93,100	59.2	279.4	85,800	115
120	49.3	265.4	90,700	51.6	269.1	87,900	57.0	276.2	81,000	120
125	46.8	260.7	85,800	49.2	264.8	83,200	54.8	272.6	76,600	125
130	44.2	255.6	81,400	46.7	260.1	78,900	52.5	268.9	72,600	130
135	41.5	250.1	77,300	44.1	255.0	74,900	50.2	264.7	68,900	135
140	38.6	243.9	73,500	41.4	249.4	71,200	47.7	260.2	65,500	140
145	35.5	237.1	70,000	38.5	243.3	67,800	45.2	255.3	62,300	145
150	32.1	229.3	66,800	35.4	236.4	64,700	42.5	249.9	59,400	150
155	28.4	220.4	63,700	32.0	228.6	61,700	39.7	244.0	56,600	155
160	24.2	209.9	60,900	28.3	219.7	58,900	36.7	237.4	54,000	160
165	19.0	196.6	58,100	24.0	209.1	56,300	33.4	230.0	51,600	165
170	11.7	177.2	55,500	18.8	195.7	53,800	29.9	221.6	49,400	170
175				11.4	175.9	51,400	25.8	211.7	47,200	175
180							21.1	199.7	45,100	180
185							14.9	183.4	43,200	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

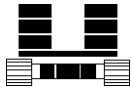
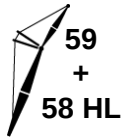


157.5 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	62.1	280.5	74,200							120
125	60.0	277.6	70,100							125
130	57.8	274.5	66,400							130
135	55.6	271.1	62,900							135
140	53.4	267.4	59,800							140
145	51.0	263.4	56,800	56.3	268.2	51,400				145
150	48.6	259.0	54,100	54.1	264.6	48,900				150
155	46.1	254.2	51,500	51.7	260.7	46,500				155
160	43.5	249.0	49,200	49.4	256.5	44,300				160
165	40.7	243.3	46,900	46.9	251.8	42,300	52.3	256.7	37,700	165
170	37.8	237.0	44,800	44.3	246.7	40,300	49.9	252.6	35,900	170
175	34.6	229.9	42,800	41.6	241.2	38,500	47.4	248.0	34,300	175
180	31.2	221.9	41,000	38.7	235.1	36,800	44.9	243.1	32,700	180
185	27.4	212.6	39,200	35.6	228.2	35,200	42.2	237.6	31,200	185
190	22.9	201.5	37,500	32.3	220.5	33,600	39.3	231.6	29,800	190
195	17.4	187.1	35,800	28.6	211.7	32,100	36.3	224.9	28,400	195
200	8.7	163.8	34,200	24.3	201.2	30,700	33.0	217.5	27,100	200
205				19.2	188.1	29,300	29.4	208.9	25,900	205
210				12.1	169.0	27,900	25.4	198.9	24,700	210
215							20.5	186.5	23,500	215
220							14.0	169.4	22,400	220

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

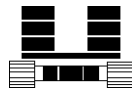
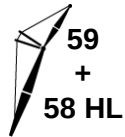


177.2 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
65	74.5	317.8	182,400 *							65
70	72.8	316.2	174,400 *							70
75	71.1	314.5	166,700 *	72.8	315.8	162,700				75
80	69.4	312.7	153,800	71.1	314.0	149,300				80
85	67.7	310.6	142,000	69.4	312.2	137,800				85
90	65.9	308.4	131,600	67.6	310.1	127,700				90
95	64.1	306.0	122,500	65.8	307.9	118,900				95
100	62.3	303.3	114,500	64.0	305.4	111,000				100
105	60.4	300.5	107,300	62.2	302.8	104,000	66.6	307.0	95,800	105
110	58.5	297.5	100,800	60.4	300.0	97,700	64.8	304.6	90,000	110
115	56.6	294.2	95,000	58.5	296.9	92,000	63.0	302.0	84,700	115
120	54.6	290.6	89,700	56.5	293.6	86,900	61.1	299.3	79,900	120
125	52.6	286.9	84,900	54.5	290.1	82,200	59.2	296.3	75,500	125
130	50.5	282.8	80,500	52.5	286.3	77,900	57.3	293.1	71,500	130
135	48.3	278.3	76,400	50.4	282.2	73,900	55.3	289.7	67,800	135
140	46.1	273.6	72,600	48.3	277.8	70,300	53.3	286.0	64,400	140
145	43.8	268.4	69,200	46.0	273.0	66,900	51.3	282.0	61,200	145
150	41.3	262.8	65,900	43.7	267.8	63,700	49.1	277.7	58,300	150
155	38.8	256.7	62,900	41.3	262.2	60,800	46.9	273.1	55,600	155
160	36.1	249.9	60,100	38.7	256.0	58,100	44.6	268.1	53,000	160
165	33.2	242.5	57,500	36.0	249.3	55,500	42.3	262.7	50,600	165
170	30.0	234.1	55,000	33.1	241.8	53,100	39.7	256.7	48,400	170
175	26.5	224.4	52,600	29.9	233.3	50,800	37.1	250.2	46,300	175
180	22.5	213.0	50,400	26.4	223.6	48,700	34.3	243.1	44,300	180
185	17.5	198.6	48,300	22.3	212.1	46,600	31.2	235.0	42,400	185
190	10.4	177.1	46,200	17.3	197.6	44,600	27.8	225.9	40,600	190
195				10.1	175.7	42,700	24.0	215.2	38,900	195
200							19.5	202.1	37,200	200
205							13.5	184.3	35,600	205
210										210
215										215
220										220
225										225
230										230
235										235
240										240

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

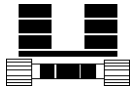
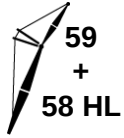


177.2 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130	61.8	297.4	65,100							130
135	59.9	294.5	61,700							135
140	58.0	291.4	58,500							140
145	56.1	288.1	55,600							145
150	54.1	284.5	52,900							150
155	52.0	280.6	50,400	56.7	285.2	45,200				155
160	49.9	276.4	48,000	54.7	281.7	43,000				160
165	47.7	271.9	45,800	52.6	277.9	41,000				165
170	45.5	267.1	43,700	50.6	273.8	39,100				170
175	43.1	261.8	41,700	48.4	269.4	37,300				175
180	40.7	256.1	39,900	46.2	264.7	35,600	51.0	269.9	31,400	180
185	38.1	249.8	38,200	43.9	259.5	34,000	48.9	265.6	29,900	185
190	35.3	242.9	36,500	41.4	253.9	32,500	46.7	260.9	28,500	190
195	32.3	235.2	34,900	38.9	247.8	31,000	44.4	255.8	27,200	195
200	29.1	226.5	33,400	36.2	241.1	29,600	42.0	250.4	25,900	200
205	25.5	216.4	32,000	33.3	233.7	28,300	39.5	244.4	24,700	205
210	21.2	204.4	30,600	30.1	225.3	27,100	36.8	237.8	23,600	210
215	15.9	188.7	29,300	26.6	215.7	25,900	33.9	230.5	22,500	215
220	7.3	162.5	27,900	22.6	204.4	24,700	30.9	222.4	21,400	220
225				17.7	190.1	23,600	27.4	213.1	20,400	225
230				10.7	169.1	22,400	23.6	202.2	19,400	230
235							18.9	188.8	18,500	235
240							12.7	170.1	17,500	240

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

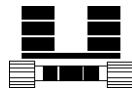
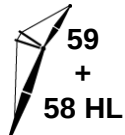


196.9 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
70	74.6	336.8	162,200 *							70
75	73.1	335.3	157,400 *							75
80	71.6	333.6	151,100 *							80
85	70.0	331.8	140,800	71.5	333.2	136,500				85
90	68.4	329.9	130,500	70.0	331.3	126,400				90
95	66.9	327.7	121,400	68.4	329.4	117,600				95
100	65.3	325.4	113,300	66.8	327.2	109,800				100
105	63.6	323.0	106,200	65.2	324.9	102,800				105
110	62.0	320.3	99,700	63.6	322.4	96,500	67.5	326.3	88,500	110
115	60.3	317.5	93,900	61.9	319.8	90,800	65.9	324.0	83,200	115
120	58.6	314.4	88,600	60.3	316.9	85,700	64.2	321.6	78,400	120
125	56.9	311.2	83,700	58.6	313.9	81,000	62.6	319.0	74,100	125
130	55.1	307.7	79,300	56.8	310.6	76,700	60.9	316.3	70,100	130
135	53.3	304.0	75,300	55.1	307.2	72,700	59.3	313.3	66,400	135
140	51.4	300.0	71,500	53.2	303.4	69,100	57.5	310.1	63,000	140
145	49.5	295.8	68,000	51.4	299.5	65,700	55.8	306.7	59,800	145
150	47.6	291.3	64,800	49.5	295.2	62,600	54.0	303.1	56,900	150
155	45.5	286.4	61,800	47.5	290.7	59,600	52.1	299.3	54,200	155
160	43.4	281.2	59,000	45.5	285.8	56,900	50.2	295.1	51,700	160
165	41.2	275.5	56,400	43.4	280.6	54,400	48.3	290.7	49,300	165
170	38.9	269.5	53,900	41.2	274.9	52,000	46.3	286.0	47,100	170
175	36.5	262.8	51,600	38.9	268.8	49,700	44.2	280.9	45,000	175
180	34.0	255.5	49,400	36.4	262.1	47,600	42.1	275.4	43,000	180
185	31.2	247.5	47,400	33.9	254.9	45,600	39.8	269.5	41,200	185
190	28.2	238.4	45,400	31.1	246.8	43,700	37.4	263.1	39,400	190
195	24.8	228.1	43,500	28.1	237.7	41,900	34.9	256.0	37,700	195
200	21.0	215.8	41,700	24.7	227.3	40,200	32.2	248.3	36,100	200
205	16.2	200.3	40,000	20.8	214.9	38,500	29.3	239.6	34,600	205
210	9.2	176.7	38,300	16.1	199.3	36,900	26.1	229.8	33,200	210
215				8.9	175.2	35,300	22.5	218.4	31,800	215
220							18.1	204.3	30,400	220
225							12.3	184.9	29,100	225
230										230
235										235
240										240
245										245
250										250

16000 S-2

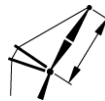
ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

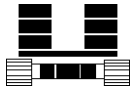
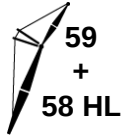


196.9 ft

	75°			70°		
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140	61.5	314.4	57,000			
145	59.9	311.5	54,100			
150	58.2	308.4	51,400			
155	56.4	305.1	48,800			
160	54.6	301.6	46,500			
165	52.8	297.8	44,300	56.9	302.2	39,400
170	50.9	293.8	42,200	55.2	298.8	37,500
175	49.0	289.5	40,300	53.4	295.1	35,700
180	47.0	284.8	38,500	51.5	291.1	34,000
185	45.0	279.9	36,800	49.6	286.9	32,400
190	42.9	274.5	35,100	47.6	282.4	30,900
195	40.6	268.8	33,600	45.6	277.5	29,500
200	38.3	262.6	32,100	43.5	272.3	28,200
205	35.9	255.8	30,700	41.3	266.7	26,900
210	33.2	248.3	29,400	39.0	260.6	25,700
215	30.4	240.0	28,100	36.6	254.0	24,500
220	27.3	230.6	26,900	34.1	246.7	23,400
225	23.9	219.9	25,700	31.3	238.7	22,300
230	19.8	206.9	24,600	28.3	229.7	21,300
235	14.7	190.0	23,500	25.0	219.4	20,300
240	5.9	160.4	22,300	21.1	207.2	19,300
245				16.4	191.8	18,400
250				9.6	168.8	17,400

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

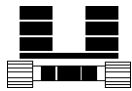
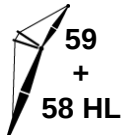


216.5 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
75	74.7	355.9	136,100 *							75
80	73.3	354.4	135,200 *							80
85	71.9	352.7	134,300 *							85
90	70.5	351.0	129,300	71.9	352.2	125,200				90
95	69.1	349.1	120,200	70.5	350.5	116,300				95
100	67.7	347.0	112,100	69.0	348.6	108,500				100
105	66.2	344.8	104,900	67.6	346.5	101,500				105
110	64.7	342.5	98,500	66.2	344.3	95,200				110
115	63.3	340.0	92,600	64.7	341.9	89,500				115
120	61.8	337.3	87,400	63.2	339.4	84,400	66.7	343.4	77,000	120
125	60.2	334.4	82,500	61.7	336.7	79,700	65.3	341.1	72,700	125
130	58.7	331.4	78,100	60.2	333.9	75,400	63.8	338.6	68,700	130
135	57.1	328.2	74,000	58.6	330.9	71,500	62.3	336.0	65,000	135
140	55.5	324.7	70,300	57.1	327.6	67,800	60.8	333.2	61,600	140
145	53.9	321.1	66,800	55.5	324.2	64,400	59.3	330.2	58,500	145
150	52.2	317.3	63,600	53.8	320.6	61,300	57.7	327.1	55,600	150
155	50.5	313.2	60,600	52.2	316.7	58,400	56.1	323.8	52,900	155
160	48.7	308.8	57,800	50.4	312.6	55,700	54.5	320.2	50,300	160
165	46.9	304.2	55,200	48.7	308.2	53,100	52.8	316.4	48,000	165
170	45.1	299.2	52,800	46.9	303.6	50,800	51.1	312.4	45,800	170
175	43.2	294.0	50,400	45.0	298.6	48,500	49.4	308.2	43,700	175
180	41.2	288.3	48,300	43.1	293.3	46,400	47.6	303.6	41,700	180
185	39.1	282.2	46,200	41.1	287.7	44,400	45.8	298.8	39,900	185
190	36.9	275.7	44,300	39.0	281.6	42,500	43.9	293.7	38,100	190
195	34.6	268.5	42,400	36.8	275.0	40,700	41.9	288.2	36,500	195
200	32.1	260.7	40,700	34.5	267.9	39,000	39.9	282.2	34,900	200
205	29.5	252.1	39,000	32.1	260.0	37,400	37.7	275.9	33,400	205
210	26.6	242.5	37,400	29.4	251.4	35,900	35.5	269.0	32,000	210
215	23.4	231.4	35,900	26.5	241.7	34,400	33.1	261.4	30,600	215
220	19.7	218.3	34,500	23.3	230.6	33,000	30.5	253.1	29,300	220
225	15.1	201.7	33,000	19.6	217.4	31,600	27.7	243.9	28,100	225
230	8.1	175.8	31,600	14.9	200.6	30,300	24.7	233.4	26,900	230
235				7.8	174.1	29,000	21.2	221.2	25,700	235
240							17.0	206.1	24,600	240
245							11.3	185.2	23,400	245
250										250
260										260

16000 S-2

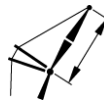
ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft

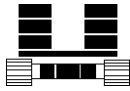
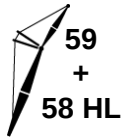


216.5 ft

	 75°		
 ft	 °	 ft	 lb
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145	62.9	334.1	52,600
150	61.4	331.4	49,900
155	59.8	328.5	47,400
160	58.3	325.4	45,100
165	56.7	322.1	42,900
170	55.1	318.6	40,800
175	53.4	315.0	38,900
180	51.8	311.0	37,100
185	50.0	306.9	35,400
190	48.3	302.4	33,800
195	46.5	297.7	32,200
200	44.6	292.7	30,800
205	42.6	287.3	29,400
210	40.6	281.5	28,100
215	38.5	275.4	26,800
220	36.3	268.6	25,600
225	34.0	261.4	24,500
230	31.5	253.4	23,400
235	28.8	244.5	22,300
240	25.8	234.5	21,300
245	22.5	223.0	20,300
250	18.6	209.1	19,400
260	4.5	157.1	17,400

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft



236.2 ft

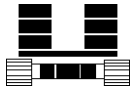
	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
80	74.7	374.9	115,100 *							80
85	73.5	373.4	114,200 *							85
90	72.2	371.8	113,300 *							90
95	70.9	370.1	112,400 *	72.1	371.3	111,500 *				95
100	69.6	368.2	110,900	70.9	369.6	107,100				100
105	68.3	366.3	103,700	69.6	367.7	100,100				105
110	67.0	364.1	97,200	68.3	365.7	93,900				110
115	65.7	361.9	91,400	66.9	363.6	88,200				115
120	64.3	359.5	86,100	65.6	361.4	83,000				120
125	63.0	356.9	81,300	64.3	359.0	78,300	67.5	362.7	71,100	125
130	61.6	354.2	76,800	62.9	356.4	74,100	66.2	360.5	67,100	130
135	60.2	351.4	72,800	61.5	353.7	70,100	64.8	358.1	63,500	135
140	58.8	348.4	69,000	60.1	350.8	66,500	63.5	355.6	60,100	140
145	57.3	345.2	65,600	58.7	347.8	63,100	62.1	353.0	57,000	145
150	55.9	341.8	62,300	57.3	344.6	60,000	60.7	350.2	54,100	150
155	54.4	338.2	59,400	55.8	341.2	57,100	59.3	347.2	51,400	155
160	52.8	334.4	56,600	54.3	337.6	54,400	57.9	344.1	48,900	160
165	51.3	330.5	54,000	52.8	333.9	51,800	56.4	340.8	46,500	165
170	49.7	326.2	51,500	51.2	329.9	49,400	54.9	337.3	44,300	170
175	48.1	321.8	49,200	49.7	325.7	47,200	53.4	333.6	42,200	175
180	46.4	317.1	47,000	48.0	321.2	45,100	51.9	329.7	40,300	180
185	44.7	312.0	45,000	46.4	316.5	43,100	50.3	325.5	38,400	185
190	42.9	306.7	43,100	44.6	311.4	41,200	48.7	321.2	36,700	190
195	41.1	301.0	41,200	42.9	306.1	39,500	47.0	316.6	35,100	195
200	39.2	295.0	39,500	41.0	300.4	37,800	45.3	311.7	33,500	200
205	37.2	288.5	37,900	39.1	294.3	36,200	43.6	306.5	32,000	205
210	35.1	281.5	36,300	37.1	287.8	34,700	41.8	300.9	30,600	210
215	32.9	273.9	34,800	35.0	280.8	33,200	39.9	295.0	29,300	215
220	30.6	265.6	33,400	32.8	273.2	31,800	37.9	288.7	28,000	220
225	28.0	256.5	32,000	30.5	264.9	30,500	35.9	281.9	26,800	225
230	25.3	246.2	30,700	27.9	255.7	29,200	33.7	274.5	25,600	230
235	22.2	234.5	29,400	25.2	245.4	28,000	31.5	266.5	24,500	235
240	18.6	220.6	28,200	22.1	233.6	26,800	29.0	257.7	23,400	240
245	14.1	202.8	27,000	18.5	219.6	25,700	26.3	247.9	22,300	245
250	7.1	174.4	25,800	13.9	201.7	24,500	23.4	236.8	21,300	250
260							15.9	207.7	19,400	260



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft



255.9 ft

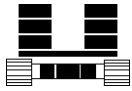
	87°			85°		
ft	o	ft	lb	o	ft	lb
85	74.8	394.0	98,500 *			
90	73.6	392.5	97,800 *			
95	72.4	390.9	97,100 *			
100	71.2	389.2	96,600 *	72.4	390.4	95,800 *
105	70.1	387.4	95,600 *	71.2	388.7	95,200 *
110	68.9	385.5	94,900 *	70.0	386.9	92,700
115	67.6	383.4	90,300	68.8	385.0	87,000
120	66.4	381.2	85,000	67.6	382.9	81,900
125	65.2	378.9	80,100	66.4	380.7	77,200
130	63.9	376.5	75,700	65.2	378.4	72,900
135	62.7	373.9	71,700	63.9	376.0	68,900
140	61.4	371.2	67,900	62.6	373.4	65,300
145	60.1	368.3	64,400	61.4	370.7	61,900
150	58.8	365.3	61,200	60.1	367.8	58,800
155	57.5	362.1	58,200	58.8	364.8	55,900
160	56.1	358.8	55,500	57.4	361.6	53,200
165	54.8	355.3	52,800	56.1	358.2	50,700
170	53.4	351.6	50,400	54.7	354.7	48,300
175	52.0	347.7	48,100	53.3	351.0	46,100
180	50.5	343.6	45,900	51.9	347.1	44,000
185	49.0	339.3	43,900	50.5	343.0	42,000
190	47.5	334.7	42,000	49.0	338.7	40,100
195	46.0	329.9	40,200	47.5	334.1	38,400
200	44.4	324.9	38,400	45.9	329.3	36,700
205	42.7	319.5	36,800	44.3	324.2	35,100
210	41.0	313.8	35,200	42.7	318.9	33,600
215	39.3	307.7	33,700	41.0	313.2	32,100
220	37.5	301.3	32,300	39.2	307.1	30,800
225	35.5	294.4	31,000	37.4	300.6	29,400
230	33.5	287.0	29,700	35.5	293.7	28,200
235	31.4	278.9	28,400	33.5	286.3	27,000
240	29.2	270.2	27,200	31.4	278.2	25,800
245	26.7	260.5	26,100	29.1	269.4	24,700
250	24.1	249.7	25,000	26.6	259.7	23,600
260	17.6	222.6	22,900	21.0	236.4	21,600
270	6.1	172.4	19,700 *	13.0	202.5	19,700



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



137.8 ft



275.6 ft

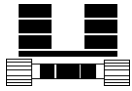
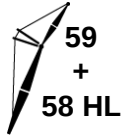
	87°			85°		
90	74.8	413.0	84,000 *			
95	73.7	411.5	83,300 *			
100	72.6	410.0	82,600 *			
105	71.5	408.3	81,900 *	72.6	409.5	81,500 *
110	70.4	406.5	81,200 *	71.5	407.8	80,900 *
115	69.3	404.7	80,500 *	70.4	406.0	80,300 *
120	68.2	402.7	79,800 *	69.3	404.1	79,700 *
125	67.1	400.5	78,900	68.2	402.1	75,800
130	65.9	398.3	74,400	67.0	400.0	71,500
135	64.8	396.0	70,400	65.9	397.8	67,600
140	63.6	393.5	66,600	64.8	395.5	64,000
145	62.5	390.9	63,200	63.6	393.0	60,600
150	61.3	388.2	60,000	62.4	390.4	57,500
155	60.1	385.3	57,000	61.2	387.6	54,600
160	58.9	382.3	54,200	60.0	384.7	51,900
165	57.6	379.1	51,600	58.8	381.7	49,300
170	56.4	375.8	49,100	57.6	378.6	47,000
175	55.1	372.3	46,800	56.3	375.2	44,700
180	53.8	368.7	44,700	55.1	371.8	42,600
185	52.5	364.9	42,600	53.8	368.1	40,700
190	51.2	360.9	40,700	52.5	364.3	38,800
195	49.8	356.7	38,900	51.2	360.3	37,000
200	48.5	352.3	37,200	49.8	356.1	35,400
205	47.0	347.6	35,500	48.4	351.7	33,800
210	45.6	342.8	34,000	47.0	347.0	32,300
215	44.1	337.6	32,500	45.5	342.2	30,800
220	42.6	332.2	31,100	44.0	337.0	29,500
225	41.0	326.5	29,700	42.5	331.6	28,200
230	39.4	320.5	28,500	40.9	325.9	26,900
235	37.7	314.1	27,200	39.3	319.9	25,700
240	35.9	307.3	26,000	37.6	313.4	24,600
245	34.1	300.0	24,900	35.9	306.6	23,500
250	32.1	292.2	23,800	34.0	299.3	22,400
260	27.9	274.5	21,800	30.0	283.0	20,400
270	23.0	252.9	19,800	25.5	263.5	18,600
280	16.7	224.4	18,000	20.0	239.0	16,800
290	5.1	169.7	14,200 *	12.2	203.1	15,100



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

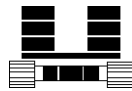
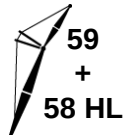


78.7 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
40	74.4	242.5	320,200 *d							40
45	70.5	240.8	296,000 *c							45
50	66.6	238.6	274,200 *b	70.9	240.5	282,000 *c				50
55	62.5	236.0	254,300 *b	67.0	238.4	251,100 b				55
60	58.2	232.9	230,000 b	62.9	235.8	223,300 b				60
65	53.7	229.3	206,800	58.7	232.8	200,800 b				65
70	48.9	225.0	187,600	54.2	229.2	182,200	66.0	235.7	168,500 b	70
75	43.7	219.9	171,400	49.4	225.0	166,500	61.8	233.0	154,000 b	75
80	37.9	213.7	157,600	44.3	220.0	153,000	57.5	229.9	141,600 b	80
85	31.2	206.0	145,600	38.6	214.0	141,400	53.0	226.2	130,900	85
90	22.6	195.2	135,000	32.0	206.4	131,200	48.2	221.8	121,500	90
95	4.5	171.1	125,100	23.6	196.1	122,200	42.9	216.5	113,200	95
100				9.0	176.7	113,800	37.0	210.1	105,800	100
105							30.1	202.0	99,200	105
110							21.0	190.6	93,100	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

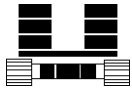
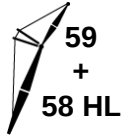


78.7 ft

	75°			70°			65°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.6	228.9	111,600 b							90
95	56.2	225.6	104,000 b							95
100	51.6	221.6	97,200							100
105	46.6	217.0	91,100							105
110	41.2	211.5	85,700	54.5	219.8	78,000				110
115	35.0	204.6	80,700	49.8	215.6	73,500				115
120	27.6	195.8	76,100	44.7	210.7	69,400				120
125	17.3	182.4	71,700	39.0	204.7	65,600	52.4	212.4	59,200	125
130				32.5	197.2	62,000	47.5	207.9	56,000	130
135				24.3	187.2	58,700	42.2	202.5	53,100	135
140				10.9	169.4	55,400	36.2	196.0	50,400	140
145							29.0	187.6	47,800	145
150							19.5	175.4	45,300	150

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

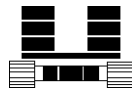
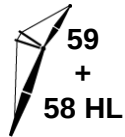


98.4 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45	74.6	261.6	279,100 *c							45
50	71.5	259.9	260,700 *b							50
55	68.4	257.9	243,800 *b	71.8	259.6	249,500 *b				55
60	65.2	255.6	228,200 *b	68.7	257.7	222,600 b				60
65	61.9	253.0	206,400	65.5	255.4	200,200 b				65
70	58.5	249.9	187,200	62.2	252.8	181,600				70
75	54.9	246.4	171,100	58.8	249.8	165,900	67.9	255.0	153,000 b	75
80	51.2	242.5	157,400	55.3	246.3	152,600	64.7	252.7	140,600 b	80
85	47.3	237.9	145,500	51.6	242.4	141,100	61.4	250.0	130,000	85
90	43.0	232.7	135,100	47.7	237.9	131,000	57.9	246.9	120,700	90
95	38.4	226.6	126,000	43.5	232.8	122,100	54.4	243.3	112,500	95
100	33.3	219.2	117,800	39.0	226.8	114,200	50.6	239.3	105,200	100
105	27.2	210.1	110,500	33.9	219.6	107,200	46.6	234.6	98,700	105
110	19.4	197.6	103,800	27.9	210.7	100,800	42.4	229.3	92,800	110
115				20.4	198.7	94,900	37.7	223.0	87,500	115
120				5.9	174.4	89,300	32.4	215.4	82,600	120
125							26.2	206.0	78,200	125
130							17.9	192.6	74,000	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

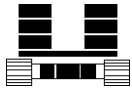
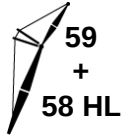


98.4 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	60.3	245.8	96,200							100
105	56.9	242.6	90,200							105
110	53.3	238.9	84,800							110
115	49.4	234.7	79,900							115
120	45.4	229.8	75,500	55.5	236.9	68,300				120
125	41.0	224.2	71,400	51.9	233.0	64,600				125
130	36.2	217.6	67,700	48.0	228.5	61,200				130
135	30.7	209.6	64,200	43.8	223.4	58,100				135
140	24.0	199.2	60,900	39.3	217.5	55,100	50.1	225.5	49,300	140
145	14.4	183.6	57,800	34.2	210.4	52,400	46.1	220.7	46,900	145
150				28.4	201.7	49,800	41.8	215.3	44,600	150
155				21.0	190.0	47,400	37.1	208.9	42,400	155
160				8.1	168.4	44,900	31.7	201.1	40,400	160
165							25.3	191.3	38,400	165
170							16.5	177.1	36,500	170

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

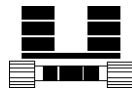
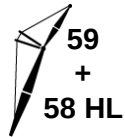


118.1 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
50	74.7	280.6	246,400 *b							50
55	72.1	279.0	231,900 *b							55
60	69.5	277.1	218,500 *b	72.4	278.7	221,400 b				60
65	66.9	275.0	205,400	69.8	276.9	199,000 b				65
70	64.2	272.6	186,300	67.2	274.8	180,400				70
75	61.5	269.9	170,200	64.5	272.4	164,800				75
80	58.6	266.9	156,500	61.8	269.7	151,500				80
85	55.7	263.5	144,600	58.9	266.7	140,000	66.5	272.1	128,500	85
90	52.7	259.7	134,300	56.0	263.4	130,000	63.8	269.7	119,300	90
95	49.5	255.5	125,200	53.0	259.6	121,200	61.0	266.9	111,100	95
100	46.1	250.8	117,100	49.8	255.5	113,300	58.2	263.8	103,900	100
105	42.6	245.4	109,900	46.5	250.8	106,300	55.3	260.4	97,400	105
110	38.8	239.3	103,400	43.0	245.5	100,000	52.2	256.6	91,600	110
115	34.6	232.3	97,500	39.2	239.5	94,300	49.0	252.3	86,400	115
120	29.9	224.0	92,100	35.1	232.6	89,100	45.6	247.4	81,600	120
125	24.3	213.7	87,200	30.4	224.5	84,400	42.0	242.0	77,200	125
130	17.0	199.5	82,600	25.0	214.4	80,000	38.2	235.8	73,200	130
135				17.9	200.8	75,900	33.9	228.6	69,500	135
140							29.1	220.0	66,000	140
145							23.4	209.3	62,800	145
150							15.6	194.1	59,700	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

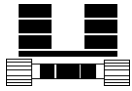
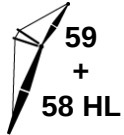


118.1 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	63.0	265.6	88,500							105
110	60.2	262.8	83,200							110
115	57.3	259.6	78,400							115
120	54.3	256.0	74,000							120
125	51.2	252.1	70,000							125
130	48.0	247.6	66,300	56.2	253.9	59,500				130
135	44.6	242.6	62,900	53.2	250.2	56,500				135
140	40.9	236.9	59,800	50.1	246.0	53,600				140
145	36.9	230.5	56,900	46.7	241.4	51,000				145
150	32.5	222.9	54,200	43.2	236.2	48,500	51.8	242.8	42,900	150
155	27.5	213.8	51,600	39.5	230.2	46,200	48.6	238.4	40,800	155
160	21.3	202.1	49,200	35.4	223.4	44,000	45.2	233.6	38,900	160
165	12.3	184.1	46,800	30.8	215.3	42,000	41.6	228.0	37,000	165
170				25.4	205.4	40,000	37.6	221.7	35,300	170
175				18.5	192.2	38,100	33.3	214.4	33,600	175
180				5.5	165.9	36,100	28.4	205.6	32,100	180
185							22.5	194.4	30,500	185
190							14.3	178.2	29,000	190

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

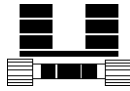
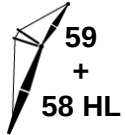


137.8 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
55	74.8	299.7	218,800 *b							55
60	72.6	298.1	207,300 *b							60
65	70.4	296.3	196,500 *	72.8	297.8	198,000 b				65
70	68.1	294.3	185,400	70.6	296.0	179,400				70
75	65.9	292.1	169,300	68.4	294.0	163,800				75
80	63.5	289.6	155,600	66.1	291.8	150,500				80
85	61.2	286.9	143,800	63.8	289.4	139,100				85
90	58.8	283.9	133,500	61.4	286.7	129,100	67.8	291.4	118,100	90
95	56.3	280.5	124,400	59.0	283.7	120,300	65.5	289.2	109,900	95
100	53.7	276.9	116,300	56.5	280.4	112,500	63.2	286.6	102,700	100
105	51.0	272.9	109,200	54.0	276.8	105,500	60.8	283.9	96,300	105
110	48.2	268.5	102,700	51.3	272.8	99,200	58.4	280.8	90,500	110
115	45.3	263.6	96,800	48.5	268.5	93,500	55.9	277.4	85,300	115
120	42.3	258.2	91,500	45.7	263.6	88,400	53.3	273.7	80,600	120
125	39.0	252.1	86,700	42.6	258.3	83,700	50.6	269.7	76,200	125
130	35.5	245.3	82,200	39.4	252.3	79,400	47.8	265.2	72,300	130
135	31.6	237.4	78,100	35.9	245.6	75,400	44.9	260.2	68,600	135
140	27.2	228.2	74,300	32.0	237.8	71,700	41.8	254.7	65,200	140
145	22.0	216.7	70,700	27.7	228.7	68,300	38.5	248.6	62,100	145
150	15.1	200.8	67,300	22.6	217.6	65,100	34.9	241.6	59,200	150
155				16.0	202.4	62,000	31.0	233.6	56,400	155
160							26.5	224.0	53,800	160
165							21.1	212.1	51,400	165
170							13.8	195.1	49,000	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

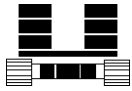
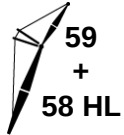


137.8 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	62.5	282.6	77,100							115
120	60.1	279.7	72,800							120
125	57.6	276.6	68,800							125
130	55.1	273.1	65,200							130
135	52.5	269.3	61,800							135
140	49.8	265.1	58,700	56.7	270.9	52,300				140
145	46.9	260.5	55,900	54.1	267.3	49,700				145
150	44.0	255.4	53,200	51.5	263.4	47,300				150
155	40.8	249.7	50,700	48.7	259.0	45,000				155
160	37.5	243.3	48,400	45.9	254.2	42,900	52.9	260.0	37,500	160
165	33.8	236.0	46,200	42.8	248.9	40,900	50.3	255.9	35,700	165
170	29.7	227.6	44,100	39.6	243.0	39,000	47.4	251.4	34,100	170
175	25.0	217.5	42,100	36.1	236.3	37,300	44.5	246.3	32,500	175
180	19.2	204.5	40,200	32.3	228.7	35,600	41.4	240.8	31,000	180
185	10.5	184.1	38,300	28.1	219.7	34,000	38.1	234.5	29,500	185
190				23.0	208.7	32,400	34.4	227.4	28,200	190
195				16.6	193.9	30,900	30.5	219.2	26,900	195
200							25.9	209.4	25,600	200
205							20.3	197.1	24,400	205
210							12.5	178.8	23,100	210

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

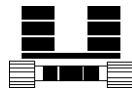
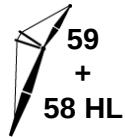


157.5 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
60	74.8	318.7	193,900 *b							60
65	72.9	317.2	184,800 *							65
70	71.0	315.5	176,100 *							70
75	69.1	313.5	167,800 *	71.2	315.1	162,600				75
80	67.1	311.4	154,500	69.3	313.3	149,300				80
85	65.1	309.1	142,700	67.3	311.2	137,800				85
90	63.0	306.6	132,400	65.3	308.9	127,800				90
95	61.0	303.8	123,300	63.3	306.4	119,000				95
100	58.8	300.8	115,300	61.2	303.6	111,200	66.8	308.5	101,200	100
105	56.7	297.5	108,100	59.1	300.6	104,300	64.8	306.2	94,800	105
110	54.4	294.0	101,600	56.9	297.4	98,000	62.7	303.6	89,100	110
115	52.1	290.1	95,800	54.7	293.9	92,400	60.6	300.8	83,900	115
120	49.8	285.9	90,500	52.4	290.1	87,300	58.5	297.8	79,100	120
125	47.3	281.4	85,700	50.0	285.9	82,600	56.3	294.5	74,800	125
130	44.7	276.4	81,200	47.6	281.4	78,300	54.1	290.9	70,900	130
135	42.0	270.9	77,200	45.0	276.4	74,300	51.8	287.0	67,300	135
140	39.2	264.9	73,400	42.3	271.0	70,700	49.4	282.7	63,900	140
145	36.1	258.2	69,900	39.5	265.1	67,300	46.9	278.1	60,800	145
150	32.9	250.6	66,700	36.5	258.4	64,200	44.3	273.0	57,900	150
155	29.2	242.0	63,600	33.2	251.0	61,200	41.6	267.5	55,200	155
160	25.1	231.9	60,800	29.6	242.5	58,500	38.7	261.4	52,700	160
165	20.2	219.3	58,100	25.6	232.5	55,900	35.7	254.6	50,300	165
170	13.6	201.8	55,500	20.8	220.3	53,400	32.3	246.9	48,100	170
175				14.4	203.6	51,100	28.6	238.0	46,000	175
180							24.4	227.6	44,000	180
185							19.3	214.5	42,100	185
190							12.2	195.7	40,200	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

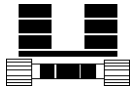
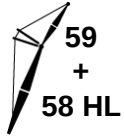


157.5 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	62.1	299.5	67,200							125
130	60.0	296.7	63,600							130
135	57.9	293.5	60,200							135
140	55.7	290.1	57,200							140
145	53.4	286.5	54,300							145
150	51.1	282.5	51,700	57.1	287.9	45,600				150
155	48.7	278.1	49,200	54.8	284.4	43,300				155
160	46.2	273.4	46,900	52.5	280.6	41,300				160
165	43.5	268.1	44,800	50.2	276.5	39,300				165
170	40.8	262.4	42,800	47.7	272.0	37,500				170
175	37.8	256.1	40,900	45.2	267.1	35,700	51.5	273.2	30,700	175
180	34.7	249.1	39,000	42.5	261.7	34,100	49.1	268.9	29,300	180
185	31.3	241.1	37,300	39.7	255.8	32,600	46.6	264.2	27,900	185
190	27.4	231.8	35,700	36.7	249.2	31,100	44.0	259.1	26,600	190
195	23.0	220.7	34,100	33.5	241.8	29,700	41.3	253.5	25,300	195
200	17.5	206.5	32,600	29.9	233.4	28,400	38.4	247.3	24,100	200
205	8.9	183.5	31,100	25.9	223.6	27,100	35.2	240.4	23,000	205
210				21.1	211.5	25,800	31.9	232.6	21,900	210
215				15.0	195.3	24,600	28.1	223.6	20,800	215
220							23.8	212.9	19,800	220
225							18.6	199.3	18,800	225
230							11.0	179.0	17,800	230

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

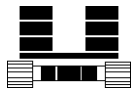
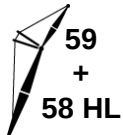


177.2 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
65	74.9	337.7	173,000 *							65
70	73.2	336.2	166,300 *							70
75	71.5	334.6	159,300 *							75
80	69.8	332.7	152,400 *	71.7	334.3	148,200				80
85	68.0	330.7	141,700	70.0	332.4	136,700				85
90	66.3	328.5	131,400	68.2	330.4	126,700				90
95	64.5	326.1	122,300	66.4	328.3	118,000				95
100	62.6	323.6	114,300	64.7	325.9	110,200				100
105	60.8	320.8	107,100	62.8	323.4	103,200	67.8	327.8	93,600	105
110	58.9	317.8	100,600	61.0	320.6	97,000	66.0	325.6	87,800	110
115	57.0	314.5	94,800	59.1	317.6	91,300	64.2	323.2	82,600	115
120	55.0	311.1	89,500	57.2	314.4	86,200	62.4	320.6	77,900	120
125	53.0	307.3	84,700	55.2	311.0	81,500	60.5	317.8	73,600	125
130	50.9	303.3	80,300	53.2	307.2	77,300	58.6	314.7	69,700	130
135	48.8	298.9	76,200	51.1	303.2	73,300	56.7	311.5	66,100	135
140	46.6	294.2	72,500	49.0	298.9	69,700	54.7	308.0	62,800	140
145	44.3	289.2	69,000	46.8	294.3	66,300	52.7	304.2	59,700	145
150	41.9	283.7	65,800	44.5	289.2	63,200	50.6	300.1	56,800	150
155	39.3	277.6	62,800	42.1	283.8	60,300	48.4	295.7	54,100	155
160	36.6	271.0	60,000	39.6	277.8	57,600	46.2	291.0	51,600	160
165	33.8	263.7	57,300	36.9	271.3	55,000	43.9	285.8	49,300	165
170	30.7	255.5	54,900	34.1	264.1	52,600	41.5	280.2	47,100	170
175	27.2	246.2	52,500	31.0	256.0	50,400	38.9	274.1	45,000	175
180	23.3	235.2	50,300	27.6	246.7	48,200	36.2	267.4	43,100	180
185	18.6	221.6	48,200	23.8	236.0	46,200	33.3	260.0	41,200	185
190	12.2	202.4	46,100	19.2	222.7	44,300	30.2	251.7	39,500	190
195				13.1	204.4	42,400	26.7	242.1	37,800	195
200							22.7	230.8	36,200	200
205							17.8	216.6	34,700	205
210							10.9	195.8	33,100	210
215										215
220										220
225										225
230										230
235										235

16000 S-2

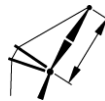
ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

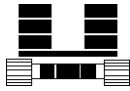
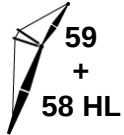


177.2 ft

	75°			70°		
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135	61.8	316.5	58,900			
140	59.9	313.6	55,900			
145	58.0	310.5	53,100			
150	56.1	307.2	50,400			
155	54.1	303.6	48,000			
160	52.1	299.7	45,700	57.3	304.9	39,900
165	50.0	295.5	43,600	55.4	301.5	38,000
170	47.8	291.0	41,600	53.4	297.8	36,200
175	45.5	286.2	39,700	51.3	293.8	34,400
180	43.2	280.9	37,900	49.2	289.5	32,800
185	40.7	275.2	36,200	47.0	284.9	31,300
190	38.1	268.9	34,600	44.7	279.9	29,900
195	35.4	262.0	33,100	42.3	274.4	28,500
200	32.4	254.3	31,700	39.8	268.5	27,200
205	29.2	245.6	30,300	37.1	262.0	26,000
210	25.5	235.6	29,000	34.3	254.9	24,800
215	21.3	223.6	27,700	31.2	246.8	23,700
220	16.1	208.1	26,500	27.9	237.7	22,600
225	7.6	182.3	25,200	24.1	227.1	21,500
230				19.6	214.0	20,500
235				13.6	196.2	19,500

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

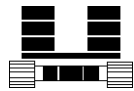
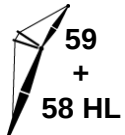


196.9 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
70	74.9	356.8	147,100 *							70
75	73.4	355.3	146,200 *							75
80	71.9	353.7	144,000 *							80
85	70.3	351.9	138,400 *	72.0	353.4	135,400				85
90	68.8	349.9	130,200	70.5	351.6	125,500				90
95	67.2	347.8	121,100	68.9	349.7	116,700				95
100	65.6	345.6	113,100	67.4	347.6	108,900				100
105	64.0	343.1	105,900	65.8	345.3	101,900				105
110	62.3	340.5	99,500	64.1	342.9	95,700				110
115	60.7	337.7	93,700	62.5	340.3	90,100	67.0	345.0	81,100	115
120	59.0	334.7	88,400	60.8	337.5	85,000	65.4	342.7	76,400	120
125	57.2	331.5	83,500	59.1	334.6	80,300	63.7	340.2	72,200	125
130	55.5	328.1	79,100	57.4	331.4	76,000	62.1	337.6	68,200	130
135	53.7	324.5	75,100	55.7	328.0	72,100	60.4	334.7	64,600	135
140	51.8	320.5	71,300	53.9	324.4	68,500	58.7	331.7	61,300	140
145	49.9	316.4	67,900	52.0	320.5	65,100	57.0	328.5	58,200	145
150	48.0	311.9	64,700	50.1	316.3	62,000	55.2	325.0	55,400	150
155	46.0	307.1	61,700	48.2	311.9	59,100	53.4	321.3	52,700	155
160	43.9	302.0	58,900	46.2	307.1	56,400	51.5	317.4	50,300	160
165	41.7	296.4	56,300	44.1	302.0	53,900	49.6	313.1	47,900	165
170	39.4	290.4	53,800	41.9	296.5	51,500	47.7	308.6	45,800	170
175	37.0	283.9	51,500	39.7	290.6	49,300	45.7	303.8	43,700	175
180	34.5	276.7	49,300	37.3	284.1	47,200	43.6	298.6	41,800	180
185	31.8	268.9	47,200	34.8	277.0	45,200	41.4	293.0	39,900	185
190	28.8	260.0	45,300	32.1	269.2	43,300	39.1	286.9	38,200	190
195	25.6	250.0	43,400	29.2	260.5	41,500	36.7	280.3	36,600	195
200	21.8	238.2	41,600	25.9	250.6	39,800	34.1	273.0	35,000	200
205	17.3	223.5	39,900	22.3	239.1	38,100	31.4	265.0	33,500	205
210	11.0	202.6	38,200	17.8	224.8	36,500	28.4	256.1	32,100	210
215				11.9	204.9	35,000	25.0	245.8	30,800	215
220							21.2	233.6	29,500	220
225							16.5	218.4	28,200	225
230							9.7	195.6	26,900	230
235										235
240										240
245										245

16000 S-2

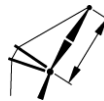
ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft

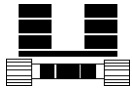
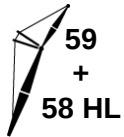


196.9 ft

	75°		
	 ft	 o	 ft
			lb
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145	61.6	333.5	51,400
150	59.9	330.6	48,800
155	58.2	327.5	46,400
160	56.4	324.2	44,200
165	54.7	320.7	42,000
170	52.8	316.9	40,100
175	51.0	312.9	38,200
180	49.1	308.6	36,400
185	47.1	304.0	34,800
190	45.0	299.0	33,200
195	42.9	293.7	31,700
200	40.7	287.9	30,300
205	38.4	281.7	29,000
210	35.9	274.9	27,700
215	33.3	267.5	26,500
220	30.5	259.2	25,300
225	27.4	249.9	24,200
230	23.9	239.1	23,100
235	19.9	226.2	22,000
240	14.8	209.4	21,000
245	6.2	180.4	19,900

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft



216.5 ft

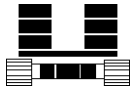
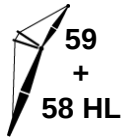
	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
75	75.0	375.8	124,900 *							75
80	73.6	374.4	124,100 *							80
85	72.2	372.7	123,300 *							85
90	70.8	371.0	122,500 *	72.3	372.4	121,700 *				90
95	69.4	369.1	119,900	70.9	370.7	115,400				95
100	67.9	367.1	111,900	69.5	368.9	107,600				100
105	66.5	364.9	104,700	68.1	366.8	100,600				105
110	65.0	362.6	98,200	66.7	364.7	94,400				110
115	63.6	360.1	92,400	65.2	362.4	88,800				115
120	62.1	357.5	87,100	63.7	359.9	83,700	67.7	364.2	75,000	120
125	60.6	354.7	82,300	62.2	357.3	79,000	66.3	362.0	70,700	125
130	59.0	351.7	77,900	60.7	354.5	74,700	64.8	359.7	66,800	130
135	57.4	348.5	73,900	59.2	351.5	70,800	63.3	357.2	63,200	135
140	55.9	345.1	70,100	57.6	348.4	67,200	61.8	354.5	59,900	140
145	54.2	341.5	66,700	56.0	345.0	63,800	60.3	351.7	56,800	145
150	52.6	337.7	63,400	54.4	341.5	60,700	58.8	348.7	54,000	150
155	50.9	333.7	60,500	52.7	337.7	57,900	57.2	345.5	51,300	155
160	49.1	329.4	57,700	51.0	333.6	55,200	55.6	342.0	48,900	160
165	47.3	324.8	55,100	49.3	329.4	52,600	54.0	338.4	46,600	165
170	45.5	319.9	52,600	47.5	324.8	50,300	52.3	334.6	44,400	170
175	43.6	314.7	50,300	45.7	320.0	48,000	50.6	330.5	42,400	175
180	41.6	309.1	48,100	43.8	314.8	45,900	48.8	326.2	40,400	180
185	39.5	303.2	46,100	41.8	309.3	44,000	47.0	321.5	38,600	185
190	37.4	296.7	44,200	39.7	303.3	42,100	45.2	316.6	36,900	190
195	35.1	289.7	42,300	37.6	296.9	40,300	43.3	311.4	35,300	195
200	32.7	282.1	40,600	35.3	290.0	38,600	41.3	305.7	33,800	200
205	30.1	273.6	38,900	32.9	282.4	37,000	39.2	299.7	32,300	205
210	27.2	264.2	37,300	30.4	274.1	35,500	37.0	293.1	30,900	210
215	24.1	253.5	35,800	27.6	264.8	34,000	34.7	286.0	29,600	215
220	20.5	240.9	34,400	24.5	254.2	32,600	32.3	278.3	28,300	220
225	16.2	225.2	32,900	20.9	241.8	31,300	29.7	269.7	27,100	225
230	10.0	202.4	31,500	16.7	226.6	30,000	26.8	260.1	25,900	230
235				10.8	205.0	28,700	23.6	249.2	24,800	235
240							19.9	236.2	23,700	240
245							15.4	219.8	22,600	245
250							8.7	194.9	21,500	250



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft



236.2 ft

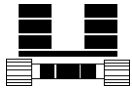
	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
80	75.0	394.9	106,500 *							80
85	73.7	393.4	105,800 *							85
90	72.5	391.8	105,100 *							90
95	71.2	390.1	104,300 *	72.6	391.5	103,500 *				95
100	69.9	388.3	103,500 *	71.3	389.8	102,900 *				100
105	68.6	386.3	102,800 *	70.0	388.0	99,200				105
110	67.3	384.2	97,000	68.7	386.1	93,000				110
115	65.9	382.0	91,100	67.4	384.0	87,400				115
120	64.6	379.6	85,800	66.1	381.8	82,300				120
125	63.2	377.1	81,000	64.7	379.4	77,600				125
130	61.9	374.5	76,600	63.4	376.9	73,400	67.1	381.4	65,200	130
135	60.5	371.6	72,600	62.0	374.3	69,400	65.7	379.1	61,700	135
140	59.1	368.6	68,800	60.6	371.5	65,800	64.4	376.7	58,400	140
145	57.6	365.5	65,400	59.2	368.5	62,500	63.0	374.2	55,300	145
150	56.2	362.1	62,200	57.8	365.3	59,400	61.7	371.5	52,500	150
155	54.7	358.6	59,200	56.3	362.0	56,500	60.3	368.6	49,800	155
160	53.2	354.9	56,400	54.8	358.5	53,800	58.8	365.6	47,400	160
165	51.6	351.0	53,800	53.3	354.8	51,300	57.4	362.4	45,100	165
170	50.0	346.8	51,400	51.8	350.9	48,900	55.9	359.1	42,900	170
175	48.4	342.4	49,100	50.2	346.7	46,700	54.4	355.5	40,900	175
180	46.8	337.7	46,900	48.6	342.4	44,600	52.9	351.7	39,000	180
185	45.1	332.8	44,900	46.9	337.7	42,700	51.4	347.8	37,200	185
190	43.3	327.5	42,900	45.2	332.8	40,800	49.8	343.6	35,500	190
195	41.5	321.9	41,100	43.5	327.6	39,000	48.2	339.1	33,800	195
200	39.6	315.9	39,400	41.7	322.0	37,400	46.5	334.4	32,300	200
205	37.6	309.5	37,700	39.8	316.1	35,800	44.8	329.4	30,900	205
210	35.6	302.6	36,200	37.8	309.7	34,300	43.0	324.1	29,500	210
215	33.4	295.2	34,700	35.8	302.9	32,800	41.2	318.5	28,200	215
220	31.1	287.0	33,200	33.6	295.5	31,400	39.3	312.4	26,900	220
225	28.6	278.1	31,900	31.3	287.4	30,100	37.3	306.0	25,700	225
230	25.9	268.1	30,600	28.8	278.6	28,900	35.2	299.0	24,600	230
235	22.8	256.7	29,300	26.2	268.7	27,600	33.0	291.4	23,500	235
240	19.4	243.3	28,100	23.2	257.5	26,500	30.7	283.2	22,400	240
245	15.1	226.6	26,900	19.8	244.4	25,300	28.2	274.1	21,400	245
250	9.0	201.9	25,700	15.6	228.1	24,200	25.4	263.9	20,400	250
260							18.8	238.5	18,500	260
270							7.7	193.8	16,700	270



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft



255.9 ft

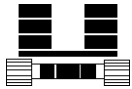
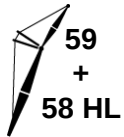
	87°			85°		
	 ft	 °	 ft	 °	 ft	 lb
90	73.8		412.5			91,100 *
95	72.7		410.9			90,500 *
100	71.5		409.2			89,900 *
105	70.3		407.5			89,300 *
110	69.1		405.5			88,700 *
115	67.9		403.5			88,100 *
120	66.7		401.4			84,700
125	65.4		399.1			79,900
130	64.2		396.7			75,500
135	62.9		394.1			71,400
140	61.7		391.4			67,700
145	60.4		388.6			64,300
150	59.1		385.6			61,000
155	57.8		382.5			58,100
160	56.4		379.2			55,300
165	55.1		375.7			52,700
170	53.7		372.0			50,200
175	52.3		368.2			47,900
180	50.8		364.1			45,800
185	49.3		359.8			43,800
190	47.8		355.3			41,800
195	46.3		350.6			40,000
200	44.7		345.6			38,300
205	43.1		340.3			36,700
210	41.4		334.6			35,100
215	39.6		328.7			33,600
220	37.8		322.3			32,200
225	35.9		315.5			30,900
230	34.0		308.2			29,600
235	31.9		300.3			28,300
240	29.6		291.7			27,100
245	27.2		282.2			26,000
250	24.6		271.7			24,900
260	18.4		245.5			22,800
270	8.1		201.0			19,500 *



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



157.5 ft



275.6 ft

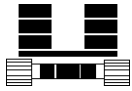
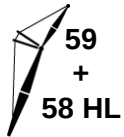
			
	 ft	 °	 ft
95	73.9	431.5	78,100 *
100	72.9	430.0	77,500 *
105	71.8	428.3	77,000 *
110	70.7	426.6	76,400 *
115	69.6	424.7	75,800 *
120	68.4	422.7	75,200 *
125	67.3	420.6	74,600 *
130	66.2	418.5	74,000 *
135	65.0	416.1	70,100
140	63.9	413.7	66,400
145	62.7	411.1	63,000
150	61.5	408.4	59,800
155	60.3	405.5	56,800
160	59.1	402.6	54,000
165	57.9	399.4	51,400
170	56.6	396.2	49,000
175	55.4	392.7	46,700
180	54.1	389.1	44,500
185	52.8	385.3	42,500
190	51.5	381.4	40,600
195	50.1	377.2	38,700
200	48.7	372.9	37,000
205	47.3	368.3	35,400
210	45.9	363.5	33,800
215	44.4	358.4	32,400
220	42.9	353.0	31,000
225	41.3	347.4	29,600
230	39.7	341.4	28,300
235	38.0	335.1	27,100
240	36.3	328.4	25,900
245	34.5	321.2	24,800
250	32.5	313.5	23,700
260	28.4	296.1	21,700
270	23.5	275.1	19,700
280	17.4	247.5	17,900
290	7.3	199.7	14,000 *



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

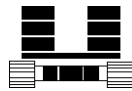
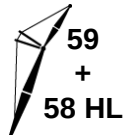


78.7 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45	71.3	260.8	262,300 *d							45
50	67.4	258.7	244,400 *b	72.3	260.7	251,000 *d				50
55	63.3	256.2	228,000 *b	68.4	258.7	234,400 *c				55
60	59.1	253.3	213,000 *b	64.3	256.4	219,000 *b				60
65	54.7	249.8	199,200 *	60.1	253.5	199,400 b				65
70	49.9	245.6	186,600 *	55.8	250.1	180,900 b				70
75	44.8	240.7	171,000	51.1	246.2	165,300	64.7	254.3	151,000 b	75
80	39.2	234.8	157,200	46.1	241.5	152,000	60.5	251.5	138,800 b	80
85	32.7	227.4	145,300	40.6	235.8	140,500	56.1	248.1	128,300 b	85
90	24.6	217.5	134,700	34.4	228.8	130,400	51.5	244.2	119,100	90
95	11.5	200.3	125,100	26.8	219.7	121,400	46.5	239.6	111,000	95
100				15.9	205.5	113,200	41.1	234.0	103,700	100
105							34.9	227.2	97,200	105
110							27.5	218.3	91,300	110
115							17.1	204.9	85,800	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

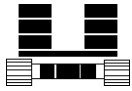
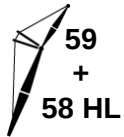


78.7 ft

	75°			70°			65°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.6	247.9	100,300 b							95
100	56.3	244.6	93,800 b							100
105	51.7	240.7	87,900							105
110	46.7	236.1	82,600							110
115	41.3	230.6	77,800	56.1	239.6	69,500 b				115
120	35.2	223.8	73,400	51.5	235.6	65,600				120
125	27.8	215.0	69,400	46.5	231.0	62,000				125
130	17.5	201.8	65,500	41.0	225.4	58,700				130
135				34.9	218.5	55,600	50.8	228.8	49,000	135
140				27.4	209.6	52,700	45.8	224.1	46,400	140
145				16.9	196.1	49,900	40.2	218.3	44,100	145
150							33.9	211.2	41,800	150
155							26.2	201.9	39,700	155
160							14.8	187.1	37,500	160

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

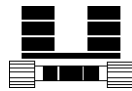
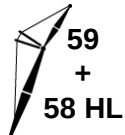


98.4 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
50	72.1	279.9	232,300 *c		72.9	279.8	223,200 *c		50	
55	69.0	278.0	218,300 *b		69.8	278.0	210,000 *b		55	
60	65.8	275.8	205,200 *b		66.6	275.8	197,700 *b		60	
65	62.6	273.2	193,200 *b		63.4	273.3	180,300 b		65	
70	59.2	270.2	182,000 *		60.0	270.5	164,700		70	
75	55.7	266.9	170,700		56.5	267.2	151,500	66.9	273.7	137,800 b
80	52.0	263.0	157,000		52.9	263.4	140,000	63.6	271.2	127,300 b
85	48.1	258.6	145,100		49.1	259.2	130,100	60.3	268.4	118,200
90	43.9	253.5	134,800		45.0	254.2	121,200	56.8	265.2	110,200
95	39.4	247.6	125,700		40.6	248.6	113,400	53.2	261.5	103,000
100	34.4	240.5	117,500		35.7	241.8	106,400	49.4	257.2	96,600
105	28.6	231.9	110,200		30.1	233.6	100,100	45.3	252.4	90,900
110	21.3	220.3	103,600		23.3	223.0	94,300	41.0	246.8	85,700
115	8.8	199.5	97,400		13.1	206.3	88,900	36.1	240.1	80,900
120								30.6	232.1	76,600
125								23.9	221.7	72,500
130								14.3	205.9	68,600
135										
140										
145										
150										
155										
160										
165										
170										
175										
180										

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

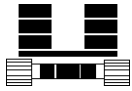
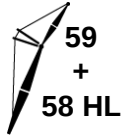


98.4 ft

	75°			70°			65°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	60.4	264.9	86,800							105
110	56.9	261.7	81,600							110
115	53.3	258.0	76,900							115
120	49.5	253.8	72,600							120
125	45.5	248.9	68,700	56.8	256.6	60,900				125
130	41.1	243.3	65,100	53.2	252.9	57,600				130
135	36.3	236.7	61,800	49.4	248.6	54,700				135
140	30.8	228.8	58,600	45.3	243.8	51,900				140
145	24.1	218.5	55,700	40.9	238.1	49,300	52.6	246.1	42,900	145
150	14.7	203.0	52,900	36.1	231.5	46,900	48.8	241.8	40,800	150
155				30.5	223.4	44,600	44.7	236.8	38,800	155
160				23.8	213.0	42,500	40.3	231.1	36,900	160
165				14.1	197.1	40,300	35.3	224.3	35,100	165
170							29.7	215.9	33,400	170
175							22.7	205.1	31,800	175
180							12.1	187.5	30,100	180

16000 S-2

ANSI B30.5



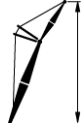
296,000 lb
+
60,000 lb



177.2 ft

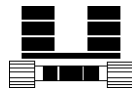
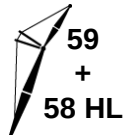


118.1 ft

	 87°			 85°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
55	72.7	299.0	205,400 *b							55
60	70.1	297.2	194,300 *b							60
65	67.5	295.1	183,800 *b	70.7	297.1	187,400 *b				65
70	64.8	292.8	174,200 *	68.1	295.1	177,500 *b				70
75	62.0	290.2	165,100 *	65.4	292.9	163,600				75
80	59.2	287.2	156,000	62.7	290.3	150,400				80
85	56.3	283.9	144,200	59.9	287.4	138,900				85
90	53.3	280.2	133,900	57.0	284.2	129,000	65.7	290.8	116,700	90
95	50.2	276.1	124,900	54.0	280.6	120,200	62.9	288.2	108,700	95
100	46.9	271.4	116,800	50.9	276.6	112,500	60.2	285.4	101,600	100
105	43.3	266.2	109,600	47.7	272.1	105,500	57.3	282.2	95,300	105
110	39.6	260.3	103,100	44.2	267.0	99,300	54.3	278.6	89,600	110
115	35.5	253.5	97,300	40.5	261.3	93,600	51.2	274.6	84,400	115
120	30.9	245.5	91,900	36.5	254.7	88,400	47.9	270.2	79,700	120
125	25.6	235.7	87,000	32.1	247.0	83,700	44.5	265.2	75,500	125
130	18.8	222.6	82,400	27.0	237.7	79,400	40.9	259.5	71,500	130
135	6.4	197.6	78,000	20.6	225.7	75,300	36.9	253.0	67,900	135
140				10.9	206.4	71,400	32.5	245.4	64,500	140
145							27.4	236.3	61,400	145
150							21.2	224.6	58,400	150
155							12.1	206.4	55,600	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

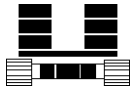
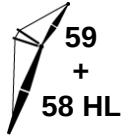


118.1 ft

	75°			70°			65°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	60.2	281.8	75,300							115
120	57.4	278.7	71,100							120
125	54.4	275.1	67,200							125
130	51.3	271.1	63,600							130
135	48.1	266.7	60,400	57.2	273.6	52,900				135
140	44.6	261.7	57,400	54.3	270.0	50,200				140
145	41.0	256.1	54,500	51.2	266.0	47,700				145
150	37.0	249.6	51,900	47.9	261.6	45,400				150
155	32.6	242.1	49,500	44.5	256.6	43,200				155
160	27.6	233.0	47,100	40.8	250.9	41,100	50.7	259.2	35,200	160
165	21.5	221.4	44,900	36.8	244.4	39,200	47.4	254.7	33,500	165
170	12.5	203.6	42,800	32.4	236.8	37,400	44.0	249.6	31,900	170
175				27.4	227.6	35,600	40.3	243.8	30,400	175
180				21.2	215.9	34,000	36.2	237.2	28,900	180
185				12.0	197.6	32,300	31.8	229.4	27,500	185
190							26.6	220.0	26,200	190
195							20.1	207.7	24,900	195
200							9.9	187.3	23,600	200

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

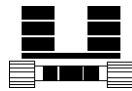
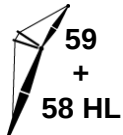


137.8 ft

	 87°			 85°			 80°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	73.0	318.1	184,200 *b							60
65	70.8	316.4	175,200 *b							65
70	68.6	314.4	166,600 *	71.4	316.3	169,400 *b				70
75	66.3	312.2	158,700 *	69.2	314.4	161,300 *				75
80	64.0	309.8	151,100 *	66.9	312.2	149,400				80
85	61.7	307.1	143,400	64.6	309.9	138,000				85
90	59.3	304.1	133,100	62.2	307.2	128,000				90
95	56.8	300.9	124,000	59.8	304.4	119,300	67.1	310.1	107,500	95
100	54.2	297.3	116,000	57.4	301.2	111,500	64.8	307.8	100,400	100
105	51.6	293.4	108,800	54.8	297.7	104,600	62.4	305.2	94,100	105
110	48.8	289.1	102,400	52.2	293.8	98,400	60.1	302.3	88,400	110
115	46.0	284.3	96,600	49.5	289.6	92,800	57.6	299.2	83,300	115
120	42.9	279.0	91,300	46.7	285.0	87,700	55.1	295.7	78,700	120
125	39.7	273.1	86,400	43.7	279.8	83,000	52.5	291.9	74,400	125
130	36.2	266.4	82,000	40.5	274.0	78,700	49.7	287.7	70,500	130
135	32.5	258.8	77,900	37.1	267.6	74,800	46.9	283.1	67,000	135
140	28.2	249.9	74,100	33.4	260.2	71,100	43.9	278.0	63,600	140
145	23.2	239.0	70,500	29.3	251.6	67,700	40.8	272.3	60,600	145
150	16.8	224.4	67,200	24.5	241.3	64,500	37.4	265.9	57,700	150
155	3.8	193.5	63,800	18.6	227.9	61,500	33.7	258.6	55,000	155
160				9.2	205.9	58,600	29.7	250.1	52,500	160
165							24.9	240.0	50,100	165
170							19.1	226.9	47,900	170
175							10.3	206.3	45,600	175
180										180
185										185
190										190
195										195
200										200
205										205

16000 S-2

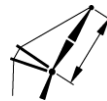
ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

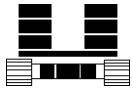
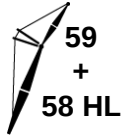


137.8 ft

	 75°			 70°			
	 ft	 °	 ft	 lb	 °	 ft	 lb
60							
65							
70							
75							
80							
85							
90							
95							
100							
105							
110							
115							
120	62.5		301.6	69,700			
125	60.1		298.8	65,900			
130	57.7		295.6	62,400			
135	55.1		292.2	59,200			
140	52.5		288.4	56,200			
145	49.8		284.2	53,400	57.6	290.6	46,400
150	47.0		279.6	50,800	55.0	287.1	44,100
155	44.0		274.5	48,400	52.4	283.3	41,900
160	40.9		268.8	46,200	49.7	279.1	39,900
165	37.5		262.5	44,100	46.9	274.5	38,000
170	33.9		255.2	42,100	43.9	269.3	36,300
175	29.8		246.8	40,200	40.7	263.6	34,600
180	25.1		236.7	38,400	37.4	257.2	33,000
185	19.3		223.8	36,700	33.7	249.9	31,500
190	10.7		203.7	34,900	29.6	241.5	30,100
195					24.9	231.3	28,700
200					19.1	218.2	27,300
205					10.2	197.4	26,000

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

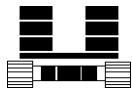
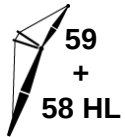


157.5 ft

	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
65	73.3	337.2	165,500 *						65	
70	71.4	335.5	158,100 *						70	
75	69.5	333.6	151,100 *	71.9	335.4	153,200 *			75	
80	67.5	331.5	144,300 *	69.9	333.5	146,500 *			80	
85	65.5	329.3	138,100 *	68.0	331.5	136,700			85	
90	63.5	326.8	132,000	66.0	329.3	126,800			90	
95	61.4	324.1	122,900	64.0	326.9	118,000			95	
100	59.3	321.1	114,900	61.9	324.2	110,300			100	
105	57.1	317.9	107,700	59.8	321.3	103,400	66.2	327.2	92,500	105
110	54.9	314.4	101,300	57.7	318.2	97,200	64.1	324.8	86,900	110
115	52.6	310.6	95,500	55.4	314.7	91,600	62.1	322.1	81,800	115
120	50.3	306.5	90,200	53.2	311.0	86,500	60.0	319.3	77,200	120
125	47.8	302.0	85,400	50.8	307.0	81,800	57.8	316.1	73,000	125
130	45.3	297.1	81,000	48.4	302.6	77,600	55.6	312.7	69,100	130
135	42.6	291.7	76,900	45.9	297.8	73,700	53.4	309.0	65,600	135
140	39.8	285.8	73,200	43.3	292.5	70,000	51.0	305.0	62,300	140
145	36.8	279.3	69,700	40.5	286.8	66,700	48.6	300.7	59,200	145
150	33.6	271.9	66,400	37.5	280.4	63,600	46.1	295.9	56,400	150
155	30.0	263.6	63,400	34.4	273.3	60,700	43.5	290.7	53,800	155
160	26.0	253.8	60,600	30.9	265.2	57,900	40.7	285.0	51,300	160
165	21.3	241.8	57,900	27.0	255.8	55,400	37.8	278.7	49,000	165
170	15.2	225.8	55,300	22.5	244.5	52,900	34.6	271.6	46,800	170
175				16.9	229.7	50,600	31.2	263.6	44,800	175
180				7.6	204.6	48,300	27.4	254.3	42,800	180
185							22.9	243.2	41,000	185
190							17.4	228.9	39,200	190
195							8.8	205.7	37,400	195
200										200
205										205
210										210
215										215
220										220
225										225

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

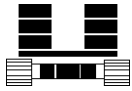
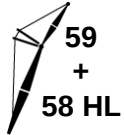


157.5 ft

	75°			70°		
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130	62.1	318.6	60,700			
135	60.0	315.7	57,500			
140	57.9	312.6	54,600			
145	55.7	309.2	51,800			
150	53.4	305.5	49,300			
155	51.1	301.5	46,900	57.8	307.5	40,200
160	48.7	297.2	44,700	55.6	304.1	38,200
165	46.2	292.5	42,600	53.3	300.5	36,300
170	43.6	287.3	40,700	51.0	296.4	34,600
175	40.8	281.6	38,800	48.6	292.1	33,000
180	37.9	275.3	37,100	46.1	287.3	31,400
185	34.7	268.2	35,400	43.5	282.1	30,000
190	31.3	260.2	33,900	40.7	276.4	28,600
195	27.5	251.0	32,400	37.8	270.0	27,300
200	23.1	240.0	31,000	34.6	263.0	26,000
205	17.6	225.8	29,600	31.2	254.9	24,800
210	9.2	203.2	28,100	27.3	245.7	23,600
215				22.9	234.5	22,500
220				17.4	220.1	21,400
225				8.6	196.7	20,300

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

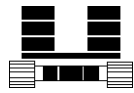
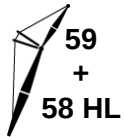


177.2 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
70	73.5	356.2	149,300 *							70
75	71.8	354.6	143,300 *							75
80	70.1	352.8	137,500 *	72.3	354.5	139,100 *				80
85	68.4	350.8	131,800 *	70.5	352.7	133,500 *				85
90	66.6	348.6	126,400 *	68.8	350.8	125,600				90
95	64.8	346.3	121,200 *	67.1	348.6	116,900				95
100	63.0	343.8	113,900	65.3	346.4	109,200				100
105	61.2	341.0	106,700	63.5	343.9	102,300				105
110	59.3	338.1	100,300	61.6	341.2	96,100	67.2	346.5	85,600	110
115	57.4	334.9	94,500	59.8	338.3	90,500	65.4	344.3	80,600	115
120	55.4	331.5	89,200	57.9	335.1	85,400	63.6	341.8	75,900	120
125	53.4	327.8	84,400	55.9	331.8	80,800	61.8	339.1	71,700	125
130	51.4	323.8	80,000	53.9	328.1	76,500	59.9	336.2	67,900	130
135	49.2	319.5	76,000	51.9	324.2	72,600	58.0	333.1	64,300	135
140	47.0	314.9	72,200	49.7	320.0	69,000	56.1	329.8	61,100	140
145	44.7	309.9	68,800	47.6	315.5	65,700	54.1	326.2	58,100	145
150	42.4	304.5	65,600	45.3	310.6	62,600	52.0	322.3	55,200	150
155	39.9	298.6	62,600	42.9	305.3	59,700	49.9	318.1	52,600	155
160	37.2	292.1	59,800	40.5	299.5	57,000	47.8	313.6	50,200	160
165	34.4	285.0	57,100	37.9	293.2	54,500	45.5	308.7	47,900	165
170	31.3	277.0	54,700	35.1	286.2	52,100	43.1	303.5	45,800	170
175	28.0	267.9	52,300	32.1	278.5	49,900	40.7	297.7	43,700	175
180	24.2	257.3	50,100	28.8	269.7	47,800	38.1	291.5	41,800	180
185	19.7	244.3	48,000	25.2	259.5	45,700	35.3	284.6	40,000	185
190	13.8	226.8	46,000	20.9	247.2	43,800	32.4	276.9	38,300	190
195				15.5	231.2	42,000	29.1	268.2	36,700	195
200				6.0	202.6	40,100	25.5	258.1	35,100	200
205							21.3	246.1	33,600	205
210							16.0	230.5	32,200	210
215							7.4	204.4	30,700	215
220										220
225										225
230										230

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

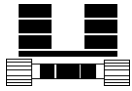
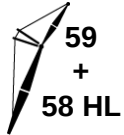


177.2 ft

	75°		
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140	61.8	335.6	53,200
145	60.0	332.7	50,500
150	58.1	329.6	48,000
155	56.1	326.3	45,600
160	54.1	322.7	43,400
165	52.1	318.8	41,400
170	50.0	314.6	39,400
175	47.8	310.1	37,600
180	45.6	305.3	35,900
185	43.2	300.0	34,300
190	40.8	294.3	32,800
195	38.2	288.1	31,300
200	35.4	281.2	29,900
205	32.5	273.5	28,600
210	29.2	264.8	27,300
215	25.6	254.9	26,100
220	21.4	242.9	25,000
225	16.2	227.5	23,800
230	7.8	202.1	22,600

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

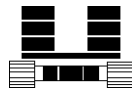
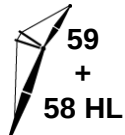


196.9 ft

	87°			85°			80°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
75	73.7	375.3	129,100 *							75
80	72.2	373.7	128,100 *							80
85	70.7	371.9	123,900 *	72.6	373.5	125,100 *				85
90	69.1	370.0	119,200 *	71.0	371.8	120,400 *				90
95	67.5	368.0	114,700 *	69.5	370.0	115,600				95
100	65.9	365.7	110,300 *	67.9	367.9	107,900				100
105	64.3	363.3	105,500	66.3	365.7	101,000				105
110	62.7	360.7	99,100	64.7	363.4	94,800				110
115	61.0	358.0	93,300	63.1	360.8	89,200				115
120	59.3	355.0	88,000	61.4	358.1	84,100	66.4	363.6	74,400	120
125	57.6	351.9	83,200	59.7	355.2	79,500	64.8	361.3	70,200	125
130	55.8	348.5	78,800	58.0	352.1	75,300	63.2	358.8	66,400	130
135	54.0	344.9	74,800	56.3	348.8	71,400	61.6	356.1	62,800	135
140	52.2	341.0	71,100	54.5	345.2	67,800	59.9	353.2	59,600	140
145	50.3	336.9	67,600	52.7	341.5	64,500	58.2	350.1	56,600	145
150	48.4	332.5	64,400	50.8	337.4	61,400	56.4	346.8	53,800	150
155	46.4	327.8	61,400	48.9	333.1	58,500	54.6	343.2	51,200	155
160	44.3	322.7	58,600	46.9	328.4	55,800	52.8	339.5	48,800	160
165	42.2	317.2	56,000	44.8	323.4	53,300	50.9	335.5	46,500	165
170	39.9	311.3	53,600	42.7	318.1	50,900	49.0	331.1	44,400	170
175	37.5	304.9	51,300	40.5	312.3	48,700	47.0	326.5	42,400	175
180	35.0	297.9	49,100	38.1	306.0	46,600	45.0	321.6	40,500	180
185	32.4	290.2	47,000	35.7	299.2	44,700	42.9	316.2	38,700	185
190	29.5	281.6	45,100	33.0	291.6	42,800	40.7	310.5	37,000	190
195	26.3	271.9	43,200	30.2	283.3	41,000	38.3	304.3	35,400	195
200	22.6	260.5	41,500	27.1	273.8	39,300	35.9	297.5	33,900	200
205	18.3	246.5	39,800	23.6	262.9	37,700	33.3	290.0	32,400	205
210	12.6	227.5	38,100	19.5	249.7	36,100	30.4	281.7	31,100	210
215				14.2	232.4	34,600	27.4	272.4	29,700	215
220				4.5	199.3	33,000	23.9	261.6	28,500	220
225							19.9	248.6	27,200	225
230							14.7	231.8	26,000	230
235							6.0	202.3	24,700	235
240										240
245										245
250										250

16000 S-2

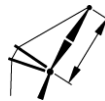
ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft

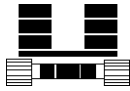
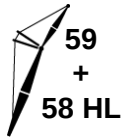


196.9 ft

	 75°			
	 ft	 o	 ft	 lb
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				
140				
145				
150	61.6	352.5	46,300	
155	59.9	349.6	44,000	
160	58.2	346.6	41,800	
165	56.5	343.3	39,800	
170	54.7	339.7	37,800	
175	52.9	336.0	36,100	
180	51.0	332.0	34,400	
185	49.1	327.7	32,800	
190	47.1	323.0	31,300	
195	45.1	318.1	29,800	
200	42.9	312.8	28,500	
205	40.7	307.1	27,200	
210	38.4	300.8	25,900	
215	36.0	294.1	24,800	
220	33.3	286.6	23,600	
225	30.5	278.4	22,600	
230	27.5	269.0	21,500	
235	24.0	258.3	20,500	
240	20.0	245.5	19,500	
245	14.9	228.8	18,600	
250	6.5	200.4	17,500	

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft



216.5 ft

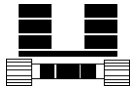
	87°			85°			80°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
80	73.9	394.3	111,400 *							80
85	72.5	392.7	110,600 *							85
90	71.1	391.0	109,800 *	72.8	392.6	109,400 *				90
95	69.7	389.2	108,200 *	71.4	390.9	108,800 *				95
100	68.2	387.2	105,100 *	70.0	389.1	106,000 *				100
105	66.8	385.1	101,300 *	68.6	387.2	99,700				105
110	65.3	382.8	97,700 *	67.2	385.0	93,500				110
115	63.9	380.3	92,100	65.7	382.8	87,900				115
120	62.4	377.7	86,800	64.2	380.4	82,800				120
125	60.9	374.9	82,000	62.7	377.8	78,200	67.3	382.9	68,700	125
130	59.3	372.0	77,600	61.2	375.1	74,000	65.8	380.7	64,900	130
135	57.8	368.8	73,600	59.7	372.2	70,100	64.4	378.3	61,400	135
140	56.2	365.5	69,800	58.2	369.1	66,500	62.9	375.7	58,200	140
145	54.6	362.0	66,400	56.6	365.8	63,200	61.4	373.0	55,200	145
150	52.9	358.2	63,200	55.0	362.3	60,100	59.8	370.1	52,400	150
155	51.2	354.2	60,200	53.3	358.6	57,200	58.3	367.1	49,800	155
160	49.5	350.0	57,400	51.6	354.7	54,500	56.7	363.8	47,400	160
165	47.7	345.4	54,800	49.9	350.5	52,000	55.1	360.3	45,100	165
170	45.9	340.6	52,400	48.1	346.0	49,700	53.5	356.6	43,000	170
175	44.0	335.5	50,100	46.3	341.3	47,500	51.8	352.7	41,000	175
180	42.0	330.0	47,900	44.4	336.2	45,400	50.0	348.5	39,100	180
185	39.9	324.1	45,900	42.5	330.8	43,400	48.3	344.1	37,300	185
190	37.8	317.7	44,000	40.5	325.0	41,600	46.5	339.4	35,700	190
195	35.6	310.9	42,100	38.3	318.8	39,800	44.6	334.4	34,100	195
200	33.2	303.4	40,400	36.1	312.0	38,200	42.6	329.0	32,600	200
205	30.6	295.1	38,700	33.8	304.7	36,600	40.6	323.2	31,100	205
210	27.8	285.9	37,200	31.3	296.6	35,100	38.5	317.0	29,800	210
215	24.8	275.5	35,700	28.5	287.7	33,600	36.3	310.3	28,500	215
220	21.3	263.3	34,200	25.6	277.6	32,200	34.0	303.0	27,200	220
225	17.2	248.4	32,800	22.2	266.0	30,900	31.5	295.1	26,000	225
230	11.6	227.9	31,400	18.3	251.9	29,600	28.8	286.2	24,900	230
235				13.1	233.2	28,300	25.8	276.2	23,800	235
240				2.4	193.0	26,900	22.5	264.7	22,700	240
245							18.6	250.9	21,700	245
250							13.6	232.8	20,700	250



REFERENCE
ONLY!

16000 S-2

ANSI B30.5



296,000 lb
+
60,000 lb



177.2 ft



236.2 ft

	87°			85°		
	ft	ft	lb	ft	ft	lb
85	74.0	413.4	96,000 *			
90	72.7	411.8	95,300 *			
95	71.4	410.1	94,600 *			
100	70.1	408.4	93,900 *	71.7	410.0	93,600 *
105	68.8	406.4	92,700 *	70.5	408.3	93,100 *
110	67.5	404.4	90,400 *	69.2	406.4	92,100
115	66.2	402.1	88,000 *	67.9	404.3	86,500
120	64.9	399.8	85,500	66.5	402.2	81,400
125	63.5	397.3	80,700	65.2	399.9	76,800
130	62.1	394.7	76,300	63.8	397.4	72,600
135	60.8	391.9	72,300	62.5	394.8	68,700
140	59.3	388.9	68,500	61.1	392.0	65,100
145	57.9	385.8	65,100	59.7	389.1	61,800
150	56.5	382.5	61,900	58.3	386.0	58,700
155	55.0	379.0	58,900	56.8	382.8	55,900
160	53.5	375.3	56,100	55.3	379.4	53,200
165	51.9	371.4	53,500	53.8	375.7	50,700
170	50.4	367.3	51,100	52.3	371.9	48,300
175	48.8	363.0	48,800	50.8	367.8	46,100
180	47.1	358.4	46,700	49.2	363.5	44,100
185	45.4	353.5	44,600	47.5	359.0	42,100
190	43.7	348.3	42,700	45.8	354.1	40,300
195	41.9	342.7	40,900	44.1	349.0	38,500
200	40.0	336.9	39,200	42.3	343.6	36,900
205	38.0	330.5	37,500	40.4	337.8	35,300
210	36.0	323.7	36,000	38.5	331.6	33,800
215	33.8	316.4	34,500	36.5	324.9	32,400
220	31.5	308.4	33,100	34.4	317.7	31,000
225	29.1	299.7	31,700	32.1	309.9	29,700
230	26.4	289.9	30,400	29.7	301.3	28,400
235	23.5	278.9	29,200	27.1	291.8	27,200
240	20.1	266.0	27,900	24.2	281.1	26,100
245	16.1	250.1	26,800	21.0	268.8	25,000
250	10.6	227.9	25,600	17.2	253.8	23,900