

Liftcrane Boom Capacities

Boom No. B60:680

with Mast No. M10:684 or Mast No. M11:684

440,900 lb VPC (Variable Position Counterweight)

360 Degree Rating

**MLC650
VPC-MAX
SERIES 1**



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Upper boom point capacity for liftcrane service with single part whip line from Drum 3 is 30,000 lb or 60,000 lb with two part whip line. When Drum 1 or Drum 2 is used, capacity with single part whip line is 48,800 lb, or 73,500 lb with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

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

BOOM BACKWARD STABILITY: Capacities indicated by (b) require 8,200 lb minimum weight and (c) require 15,500 lb minimum weight. **Caution: Do not operate in areas indicated by (b) or (c) without required minimum weight.** Boom may not lower and boom hoist wire rope may go slack causing wire rope damage or failure.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 81022686**, Mast Rigging **No. 81025005** or **No. 84050187**, Wire Rope Specifications chart **No. 9387-A**, Counterweight Arrangements chart **No. 9349-A**, and Wind Conditions chart **No. 9388-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 the Operator Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9389-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 (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with VPC-MAX, 36 ft 6 in. crawlers, 60 in. or 80 in. treads, 36 ft 1 in. live mast, 118.1 ft mast, 16 part boom hoist reeving, boom support straps, and 440,900 lb VPC.

Consult chart **No. 9676-A** when jib No. 148 is attached.

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Luffing Jib Backstay Deduct	
Boom Length (ft)	Deduct (lb)
144.4	6,000
164.0	7,500
183.7	8,500
203.4	10,000
223.1	10,000
242.8	10,000
262.5	11,000
282.2	12,500
301.8	13,500
321.5	14,800
341.2	16,000
360.9	17,300
Deduct the appropriate value from capacities when luffing jib backstays are stored on boom.	

Deduct From Capacities When Jib No. 148 Is Attached	
Jib Length (ft)	Deduct (lb)
39.4	19,200
59.1	28,400
78.7	36,900
98.4	45,000
118.1	56,000
137.8	63,300
Weight of jib and 6,500 lb suspended beneath jib point have been included in determination of deduct.	

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Refer to Table 1 (with luffing jib backstays stored) and Table 2 (without luffing jib backstays stored) for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath boom point sheaves. For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on ground until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Select counterweight position from Tables 1 or 2 that will allow raising and lowering of boom length. Counterweight position selection may be changed with boom on ground or while boom is within operating range of capacity chart.

Combined weight beneath boom point sheaves must not exceed block weight shown.

Table 1a: With Luffing Jib Backstays

Over End or Side of Crawlers		
Boom Length (ft)	38.7 ft Counterweight Position	60.0 ft Counterweight Position
	Block Weight (lb)	
144.4 - 164.0	46,500	46,500
183.7	22,600	46,500
203.4	16,200	46,500
223.1 - 262.5	#	46,500
282.2	#	22,600
301.8	Raising Not Permitted	22,600
321.5 - 341.2		#
360.9		
380.6		

Table 1b: With Luffing Jib Backstays

Over End of Blocked Crawlers		
Boom Length (ft)	38.7 ft Counterweight Position	60.0 ft Counterweight Position
	Block Weight (lb)	
144.4 - 164.0	46,500	46,500
183.7	22,600	46,500
203.4	16,200	46,500
223.1 - 262.5	#	46,500
282.2	#	22,600
301.8	#	22,600
321.5 - 341.2	Raising Not Permitted	#
360.9		#
380.6		
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i>		

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Table 2a: Without Luffing Jib Backstays

Over End or Side of Crawlers		
Boom Length (ft)	38.7 ft Counterweight Position	60.0 ft Counterweight Position
	Block Weight (lb)	
144.4 - 164.0	46,500	46,500
183.7 - 203.4	22,600	46,500
223.1 - 242.8	16,200	46,500
262.5 - 282.2	#	46,500
301.8	#	22,600
321.5	Raising Not Permitted	22,600
341.2		16,200
360.9		#
380.6		

Table 2b: Without Luffing Jib Backstays

Over End of Blocked Crawlers		
Boom Length (ft)	38.7 ft Counterweight Position	60.0 ft Counterweight Position
	Block Weight (lb)	
144.4 - 164.0	46,500	46,500
183.7 - 203.4	22,600	46,500
223.1 - 242.8	16,200	46,500
262.5 - 282.2	#	46,500
301.8	#	22,600
321.5	#	22,600
341.2	Raising Not Permitted	16,200
360.9		#
380.6		#

Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. *Crane tipping or structural damage can occur.*

Explanation of Symbols



Boom No. B60:680



VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Counterweight Position
from Axis of Rotation



Lifting Capacities
(see page 1)

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144.4 ft				
ft	°	ft	38.7 ft lb	60.0 ft lb
28	82.7	152.8	1,030,800 c	1,460,100 c
30	81.9	152.5	941,300 c	1,431,700 c
32	81.1	152.1	865,100 c	1,355,100 c
34	80.3	151.7	799,300 c	1,285,900 c
36	79.4	151.3	742,100 b	1,222,800 b
38	78.6	150.8	691,800 b	1,165,300 b
40	77.8	150.3	647,200 b	1,112,500 b
45	75.8	149.0	555,200	998,000
50	73.7	147.5	483,700	903,300
55	71.6	145.7	426,400	809,000
60	69.5	143.8	379,500	715,000
65	67.3	141.6	340,400	639,200
70	65.1	139.2	307,300	576,800
75	62.9	136.6	278,900	524,500
80	60.6	133.7	254,300	480,100
85	58.2	130.5	232,700	441,900
90	55.8	127.0	213,600	408,600
95	53.3	123.2	196,600	379,400
100	50.7	119.0	181,300	353,600
105	48.0	114.4	167,600	330,600
110	45.2	109.4	155,100	309,900
115	42.2	103.8	143,700	291,200
120	39.1	97.6	133,300	274,300
125	35.7	90.6	123,600	258,800
130	31.9	82.6	114,700	244,700
135	27.7	73.2	106,400	231,600
140	22.7	61.6	98,500	219,600
145	16.1	45.7	90,900	208,300

164.0 ft				
ft	°	ft	38.7 ft lb	60.0 ft lb
30	82.9	172.4	941,800 b	1,352,900 b
32	82.2	172.1	865,200 b	1,321,800 b
34	81.4	171.7	799,100 b	1,255,800 b
36	80.7	171.4	741,500	1,195,600
38	80.0	171.0	690,900	1,140,400
40	79.3	170.6	646,100	1,089,700
45	77.5	169.4	553,700	979,100
50	75.7	168.0	481,800	887,300
55	73.9	166.5	424,200	806,800
60	72.0	164.8	377,100	712,700
65	70.2	163.0	337,900	636,900
70	68.3	160.9	304,600	574,400
75	66.4	158.6	276,100	522,100
80	64.4	156.2	251,400	477,700
85	62.4	153.5	229,700	439,400
90	60.4	150.6	210,600	406,100
95	58.4	147.4	193,600	376,900
100	56.3	144.0	178,300	351,100
105	54.1	140.3	164,600	328,000
110	51.8	136.3	152,100	307,400
115	49.5	132.0	140,700	288,700
120	47.1	127.3	130,300	271,800
125	44.6	122.2	120,800	256,400
130	42.0	116.6	111,900	242,300
135	39.2	110.4	103,800	229,300
140	36.3	103.5	96,100	217,300
145	33.1	95.8	89,000	206,200
150	29.5	87.1	82,300	195,900
160	20.8	64.1	70,000	177,300

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183.7 ft				
ft	°	ft	lb	lb
32	83.0	192.0	863,900	1,263,000
34	82.4	191.7	797,500	1,226,100
36	81.7	191.4	739,600	1,168,500
38	81.1	191.0	688,800	1,115,500
40	80.5	190.6	643,800	1,066,700
45	78.9	189.6	550,900	959,900
50	77.3	188.4	478,700	870,800
55	75.7	187.1	420,900	795,300
60	74.0	185.6	373,700	709,800
65	72.4	183.9	334,200	633,900
70	70.7	182.1	300,900	571,400
75	69.1	180.2	272,300	519,000
80	67.4	178.0	247,500	474,500
85	65.6	175.7	225,700	436,200
90	63.9	173.2	206,500	402,900
95	62.1	170.5	189,500	373,700
100	60.3	167.5	174,200	347,800
105	58.5	164.4	160,400	324,800
110	56.6	161.1	147,900	304,100
115	54.7	157.5	136,600	285,400
120	52.7	153.6	126,200	268,500
125	50.7	149.4	116,600	253,100
130	48.6	145.0	107,800	239,000
135	46.4	140.1	99,700	226,100
140	44.2	134.9	92,100	214,100
145	41.8	129.3	85,100	203,100
150	39.4	123.1	78,500	192,800
160	34.0	109.0	66,500	174,300
170	27.6	91.2	55,800	158,100
180	19.2	66.4	46,000	143,700

203.4 ft				
ft	°	ft	lb	lb
36	82.5	211.3	740,100	1,139,600
38	82.0	211.0	689,000	1,089,200
40	81.4	210.7	643,700	1,042,700
45	80.0	209.7	550,300	940,400
50	78.5	208.6	477,600	854,500
55	77.1	207.4	419,500	781,300
60	75.6	206.1	372,000	708,700
65	74.2	204.6	332,300	632,600
70	72.7	203.0	298,800	569,900
75	71.2	201.3	270,000	517,400
80	69.7	199.4	245,100	472,800
85	68.2	197.3	223,200	434,400
90	66.6	195.1	203,900	401,100
95	65.1	192.7	186,800	371,800
100	63.5	190.1	171,400	345,800
105	61.9	187.4	157,600	322,700
110	60.2	184.5	145,100	302,000
115	58.6	181.4	133,600	283,300
120	56.9	178.1	123,200	266,300
125	55.2	174.5	113,600	250,900
130	53.4	170.8	104,800	236,800
135	51.6	166.7	96,700	223,800
140	49.7	162.4	89,100	211,800
145	47.8	157.9	82,100	200,800
150	45.9	153.0	75,500	190,500
160	41.7	142.0	63,500	172,000
170	37.1	129.3	53,000	155,900
180	32.0	114.0	43,500	141,600
190	25.9	94.9	34,900	128,900
200	17.9	68.3	26,900	117,300

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223.1 ft				
ft	°	ft	38.7 ft lb	60.0 ft lb
38	82.7	230.9	691,800	1,063,400
40	82.2	230.6	646,300	1,019,400
45	80.9	229.8	552,400	922,100
50	79.6	228.8	479,400	839,700
55	78.2	227.7	421,100	769,300
60	76.9	226.5	373,300	708,400
65	75.6	225.1	333,400	633,600
70	74.3	223.7	299,700	570,800
75	72.9	222.1	270,800	518,200
80	71.6	220.4	245,800	473,400
85	70.2	218.5	223,800	435,000
90	68.8	216.5	204,500	401,500
95	67.4	214.4	187,300	372,200
100	66.0	212.1	171,800	346,200
105	64.6	209.7	157,900	323,000
110	63.1	207.1	145,400	302,300
115	61.7	204.4	133,900	283,500
120	60.2	201.5	123,500	266,600
125	58.7	198.4	113,900	251,100
130	57.1	195.1	105,000	236,900
135	55.6	191.6	96,800	223,900
140	54.0	187.9	89,300	212,000
145	52.3	184.0	82,200	200,900
150	50.7	179.8	75,600	190,600
160	47.2	170.7	63,700	172,100
170	43.5	160.5	53,200	156,000
180	39.5	148.7	43,800	141,700
190	35.2	135.0	35,300	129,000
200	30.3	118.7	27,600	117,700
210	24.5	98.4	20,500	107,300
220	16.7	70.0		97,900

242.8 ft				
ft	°	ft	38.7 ft lb	60.0 ft lb
40	82.8	250.5	644,900	956,400
45	81.6	249.7	550,700	899,500
50	80.4	248.8	477,300	820,800
55	79.2	247.8	418,700	753,100
60	78.0	246.7	370,700	694,300
65	76.8	245.5	330,700	631,800
70	75.6	244.2	296,800	568,800
75	74.3	242.7	267,800	516,100
80	73.1	241.2	242,600	471,300
85	71.9	239.5	220,600	432,700
90	70.6	237.7	201,200	399,200
95	69.3	235.8	183,900	369,800
100	68.1	233.7	168,400	343,800
105	66.8	231.5	154,500	320,600
110	65.5	229.2	141,800	299,700
115	64.2	226.7	130,400	281,000
120	62.8	224.1	119,900	264,000
125	61.5	221.3	110,200	248,500
130	60.1	218.4	101,400	234,300
135	58.7	215.3	93,200	221,300
140	57.3	212.1	85,600	209,300
145	55.9	208.6	78,500	198,200
150	54.4	205.0	71,900	187,900
160	51.4	197.1	60,000	169,400
170	48.3	188.4	49,400	153,200
180	45.0	178.6	40,100	139,000
190	41.5	167.5	31,600	126,300
200	37.7	154.9	24,000	114,900
210	33.5	140.4	17,100	104,700
220	28.8	123.1		95,400
230	23.2	101.5		86,800
240	15.7	71.4		78,900

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440,900 lb



360°

262.5 ft				
ft	°	ft	lb	lb
45	82.2	269.7	550,100	809,300
50	81.1	268.8	476,500	803,700
55	80.0	267.9	417,700	738,700
60	78.9	266.9	369,500	682,000
65	77.8	265.8	329,400	630,900
70	76.7	264.6	295,400	567,900
75	75.5	263.2	266,300	515,100
80	74.4	261.8	241,100	470,200
85	73.3	260.2	219,000	431,600
90	72.1	258.6	199,500	398,000
95	71.0	256.8	182,200	368,600
100	69.8	254.9	166,700	342,500
105	68.6	252.9	152,700	319,300
110	67.4	250.8	140,000	298,500
115	66.2	248.6	128,500	279,700
120	65.0	246.2	118,000	262,600
125	63.8	243.7	108,400	247,100
130	62.6	241.1	99,500	232,900
135	61.3	238.3	91,300	219,900
140	60.1	235.4	83,700	207,900
145	58.8	232.3	76,600	196,800
150	57.5	229.0	70,000	186,500
160	54.8	222.1	58,000	168,000
170	52.1	214.4	47,500	151,800
180	49.2	205.9	38,200	137,600
190	46.2	196.5	29,800	124,900
200	43.0	186.0	22,200	113,500
210	39.7	174.2	15,300	103,300
220	36.0	160.8		94,100
230	32.0	145.4		85,600
240	27.5	127.2		77,800
250	22.1	104.5		70,700

282.2 ft				
ft	°	ft	lb	lb
45	82.8	289.6	595,000	686,900
50	81.8	288.8	515,800	686,900
55	80.7	287.9	452,400	686,900
60	79.7	287.0	400,600	667,100
65	78.7	286.0	357,400	618,900
70	77.6	284.8	320,900	565,500
75	76.6	283.6	289,600	512,600
80	75.5	282.3	262,400	467,600
85	74.5	280.8	238,700	428,900
90	73.4	279.3	217,700	395,300
95	72.3	277.7	199,100	365,700
100	71.3	275.9	182,400	339,600
105	70.2	274.1	167,400	316,300
110	69.1	272.1	153,800	295,500
115	68.0	270.1	141,400	276,600
120	66.9	267.9	130,100	259,600
125	65.8	265.6	119,700	244,000
130	64.7	263.2	110,200	229,800
135	63.5	260.7	101,400	216,800
140	62.4	258.0	93,200	204,700
145	61.2	255.2	85,600	193,600
150	60.0	252.3	78,500	183,300
160	57.6	246.0	65,700	164,800
170	55.2	239.1	54,400	148,600
180	52.6	231.6	44,400	134,300
190	50.0	223.3	35,400	121,600
200	47.2	214.2	27,400	110,300
210	44.4	204.1	20,000	100,100
220	41.3	193.0		90,800
230	38.1	180.5		82,400
240	34.6	166.4		74,700
250	30.7	150.2		67,600
260	26.3	131.1		61,000
270	21.0	107.2		54,800

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301.8 ft				
ft	°	ft	38.7 ft lb	60.0 ft lb
50	82.3	308.7	514,600	589,700
55	81.3	307.9	451,100	589,700
60	80.4	307.0	399,100	589,700
65	79.4	306.1	355,800	589,700
70	78.4	305.0	319,200	564,300
75	77.5	303.9	287,800	511,300
80	76.5	302.6	260,500	466,300
85	75.5	301.3	236,700	427,500
90	74.5	299.9	215,700	393,900
95	73.5	298.4	197,000	364,300
100	72.5	296.8	180,300	338,100
105	71.5	295.0	165,200	314,800
110	70.5	293.2	151,600	293,900
115	69.5	291.3	139,200	275,100
120	68.5	289.3	127,900	258,000
125	67.5	287.2	117,500	242,400
130	66.4	285.0	107,900	228,200
135	65.4	282.7	99,100	215,100
140	64.3	280.2	90,900	203,100
145	63.3	277.7	83,300	192,000
150	62.2	275.0	76,200	181,600
160	60.0	269.3	63,400	163,100
170	57.7	263.0	52,100	146,900
180	55.5	256.2	42,100	132,600
190	53.1	248.8	33,100	119,900
200	50.6	240.7	25,100	108,600
210	48.1	231.8	17,700	98,400
220	45.5	222.1		89,100
230	42.7	211.5		80,700
240	39.8	199.7		73,000
250	36.6	186.6		66,000
260	33.2	171.8		59,400
270	29.5	154.8		53,400
280	25.2	134.7		47,700
290	20.1	109.7		42,400

321.5 ft				
ft	°	ft	38.7 ft lb	60.0 ft lb
50	82.8	328.6	506,900	506,900
55	81.9	327.9	447,400	506,900
60	81.0	327.0	395,300	506,900
65	80.1	326.1	351,800	506,900
70	79.2	325.1	315,100	506,900
75	78.3	324.1	283,600	506,900
80	77.3	322.9	256,300	463,300
85	76.4	321.7	232,400	424,500
90	75.5	320.3	211,300	390,800
95	74.6	318.9	192,500	361,100
100	73.6	317.4	175,800	334,900
105	72.7	315.8	160,700	311,600
110	71.8	314.1	147,000	290,600
115	70.8	312.4	134,600	271,700
120	69.9	310.5	123,200	254,600
125	68.9	308.5	112,800	239,000
130	68.0	306.5	103,200	224,800
135	67.0	304.3	94,400	211,700
140	66.0	302.1	86,200	199,600
145	65.0	299.7	78,500	188,500
150	64.0	297.2	71,400	178,100
160	62.0	292.0	58,600	159,600
170	60.0	286.2	47,300	143,400
180	57.9	280.0	37,300	129,100
190	55.7	273.2	28,300	116,400
200	53.5	265.9	20,200	105,000
210	51.2	258.0		94,800
220	48.9	249.3		85,500
230	46.4	239.9		77,100
240	43.9	229.7		69,400
250	41.2	218.5		62,400
260	38.4	206.1		55,900
270	35.3	192.4		49,800
280	32.0	176.9		44,200
290	28.4	159.1		39,000
300	24.3	138.2		34,100
310	19.3	112.1		29,400

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B60



341.2 ft				
ft	°	ft	lb	lb
55	82.4	347.8	461,300	461,300
60	81.5	347.0	428,100	461,300
65	80.7	346.1	381,600	461,300
70	79.8	345.2	342,300	461,300
75	78.9	344.2	308,600	461,300
80	78.1	343.1	279,400	461,300
85	77.2	341.9	253,900	423,000
90	76.4	340.7	231,300	389,200
95	75.5	339.4	211,300	359,500
100	74.6	338.0	193,400	333,300
105	73.7	336.5	177,200	309,900
110	72.9	334.9	162,600	288,900
115	72.0	333.2	149,300	270,000
120	71.1	331.5	137,200	252,900
125	70.2	329.7	126,100	237,300
130	69.3	327.7	115,800	223,000
135	68.4	325.7	106,400	209,900
140	67.5	323.6	97,600	197,800
145	66.6	321.4	89,500	186,700
150	65.6	319.1	81,900	176,300
160	63.8	314.2	68,200	157,700
170	61.9	308.9	56,100	141,500
180	59.9	303.2	45,400	127,200
190	58.0	297.0	35,800	114,500
200	55.9	290.3	27,200	103,100
210	53.9	283.0	19,400	92,900
220	51.7	275.2		83,700
230	49.5	266.8		75,200
240	47.3	257.6		67,600
250	44.9	247.7		60,500
260	42.4	237.0		54,000
270	39.8	225.2		48,000
280	37.1	212.3		42,400
290	34.1	197.9		37,200
300	31.0	181.7		32,300
310	27.4	163.3		27,800
320	23.4	141.4		23,400
330	18.5	114.2		19,300

360.9 ft				
ft	°	ft	lb	lb
60	82.0	366.9	402,000	402,000
65	81.2	366.1	377,200	402,000
70	80.4	365.2	337,800	402,000
75	79.6	364.3	303,900	402,000
80	78.7	363.3	274,600	402,000
85	77.9	362.2	249,000	402,000
90	77.1	361.0	226,400	385,900
95	76.3	359.7	206,300	356,200
100	75.5	358.4	188,300	329,900
105	74.7	357.0	172,100	306,400
110	73.8	355.5	157,500	285,400
115	73.0	354.0	144,100	266,500
120	72.2	352.3	132,000	249,300
125	71.3	350.6	120,800	233,600
130	70.5	348.8	110,600	219,300
135	69.6	346.9	101,100	206,200
140	68.8	344.9	92,300	194,100
145	67.9	342.9	84,200	182,900
150	67.1	340.7	76,600	172,600
160	65.3	336.2	62,800	153,900
170	63.5	331.2	50,800	137,700
180	61.7	325.9	40,100	123,300
190	59.9	320.1	30,500	110,600
200	58.0	313.9	21,900	99,300
210	56.1	307.3		89,100
220	54.2	300.1		79,800
230	52.2	292.4		71,400
240	50.1	284.2		63,700
250	48.0	275.2		56,700
260	45.8	265.6		50,200
270	43.5	255.3		44,200
280	41.1	244.0		38,600
290	38.6	231.7		33,500
300	35.9	218.2		28,600
310	33.1	203.2		24,100
320	30.0	186.4		19,800
330	26.5	167.2		15,800

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ASME B30.5



B60



440,900 lb



360°

ft	ft	ft	lb	lb
60	82.4	386.8	348,100	348,100
65	81.6	386.1	348,100	348,100
70	80.9	385.2	338,500	348,100
75	80.1	384.3	304,600	348,100
80	79.3	383.4	275,300	348,100
85	78.6	382.3	249,600	348,100
90	77.8	381.2	226,900	348,100
95	77.0	380.0	206,800	348,100
100	76.2	378.8	188,800	330,400
105	75.5	377.5	172,600	306,900
110	74.7	376.1	157,900	285,900
115	73.9	374.6	144,600	266,900
120	73.1	373.0	132,400	249,700
125	72.3	371.4	121,200	234,100
130	71.5	369.7	110,900	219,700
135	70.7	367.9	101,400	206,600
140	69.9	366.1	92,700	194,500
145	69.1	364.1	84,500	183,300
150	68.3	362.1	76,900	172,900
160	66.7	357.8	63,200	154,300
170	65.0	353.2	51,100	138,000
180	63.3	348.2	40,400	123,700
190	61.6	342.8	30,800	111,000
200	59.9	337.1	22,200	99,600
210	58.1	330.9		89,400
220	56.3	324.3		80,100
230	54.5	317.2		71,700
240	52.6	309.6		64,100
250	50.6	301.5		57,000
260	48.6	292.8		50,600
270	46.6	283.4		44,600
280	44.4	273.3		39,000
290	42.2	262.5		33,900
300	39.9	250.7		29,100
310	37.4	237.9		24,600
320	34.8	223.8		20,300
330	32.1	208.3		16,400