

# Liftcrane Boom Extended Upper Point Capacities

## MLC300 SERIES 2

**Boom No. B45:505-500**  
**with 23.0 ft Extended Upper Boom Point**  
**386,200 lb VPC (Variable Position Counterweight)**  
**360 Degree Rating**



**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 (upper sheave) capacity for liftcrane service with single part whip line from Drum 6 is 30,000 lb. When Drum 2 or Drum 3 is used, capacity with single part whip line is 36,700 lb. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath 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.

**OPERATING CONDITIONS:** Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 84049567**, Wire Rope Specifications chart **No. 9647-A**, Counterweight Arrangements chart **No. 9345-A**, and Wind Conditions chart **No. 9646-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 Specifications chart **No. 9645-A**.



**EXTENDED UPPER BOOM POINT OPERATING RADIUS:** Extended upper boom point 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.



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

**MACHINE EQUIPMENT:** Machine equipped with 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 24 part boom hoist reeving, boom support straps, and 386,200 lb VPC.

Luffing Jib Backstay Deduct	
Boom Length (ft)	Deduct (lb)
114.8	3,100
124.7	3,400
134.5	3,700
144.4	4,000
154.2	4,300
164.0	4,600
173.9	4,800
183.7	5,100
193.6	5,400
203.4	5,700
213.3	6,000
223.1	6,300
232.9	6,600
242.8	7,000
252.6	7,100
Deduct the appropriate value from capacities when luffing jib backstays are stored on boom.	

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 extended upper boom point (lower or upper 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.

Combined weight beneath extended upper boom point (lower or upper sheaves) must not exceed block weight shown.

**Table 1a: With Luffing Jib Backstays**

Over End or Side of Crawlers	
Boom Length (ft)	Block Weight (lb)
114.8	7,600
124.7	7,600
134.5	7,600
144.4	7,600
154.2	7,600
164.0	7,600
173.9	7,600
183.7	7,600
193.6	7,600
203.4	7,600
213.3	7,600
223.1	7,600
232.9	7,600
242.8	7,600
252.6	#
262.5	<b>Raising Not Permitted</b>
272.3	
282.2	
292.0	

**Table 1b: With Luffing Jib Backstays**

Over End of Blocked Crawlers	
Boom Length (ft)	Block Weight (lb)
114.8	7,600
124.7	7,600
134.5	7,600
144.4	7,600
154.2	7,600
164.0	7,600
173.9	7,600
183.7	7,600
193.6	7,600
203.4	7,600
213.3	7,600
223.1	7,600
232.9	7,600
242.8	7,600
252.6	#
262.5	<b>Raising Not Permitted</b>
272.3	
282.2	
292.0	

**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.

**Table 2a: Without Luffing Jib Backstays**

Over End or Side of Crawlers	
Boom Length (ft)	Block Weight (lb)
114.8	7,600
124.7	7,600
134.5	7,600
144.4	7,600
154.2	7,600
164.0	7,600
173.9	7,600
183.7	7,600
193.6	7,600
203.4	7,600
213.3	7,600
223.1	7,600
232.9	7,600
242.8	7,600
252.6	7,600
262.5	#
272.3	#
282.2	#
292.0	<b>Raising Not Permitted</b>

**Table 2b: Without Luffing Jib Backstays**

Over End of Blocked Crawlers	
Boom Length (ft)	Block Weight (lb)
114.8	7,600
124.7	7,600
134.5	7,600
144.4	7,600
154.2	7,600
164.0	7,600
173.9	7,600
183.7	7,600
193.6	7,600
203.4	7,600
213.3	7,600
223.1	7,600
232.9	7,600
242.8	7,600
252.6	7,600
262.5	#
272.3	#
282.2	#
292.0	#

**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.

REFERENCE ONLY!

## Explanation of Symbols



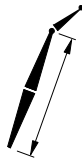
Boom No. B45:505-500



VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



Extended Upper Boom Point Operating Radius  
(see page 1)



Boom Angle  
(see page 1)



Extended Upper Boom Point Elevation  
(see page 1)



Lifting Capacities  
(see page 1)

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ASME B30.5



**114.8 ft**

ft	°	ft	lb
36	82.7	139.5	191,100
37	82.2	139.2	190,300
38	81.8	139.0	189,500
39	81.4	138.7	188,800
40	80.9	138.5	188,000
45	78.7	137.1	184,500
50	76.5	135.4	181,200
55	74.3	133.5	178,200
60	72.0	131.4	175,400
65	69.7	129.1	171,500
70	67.3	126.5	156,400
75	64.9	123.7	143,700
80	62.4	120.5	132,800
85	59.8	117.0	123,400
90	57.1	113.2	115,200
95	54.4	109.0	108,000
100	51.5	104.4	101,600
105	48.5	99.2	95,900
110	45.3	93.5	90,700
115	41.8	87.0	86,100
120	38.1	79.6	81,900

**124.7 ft**

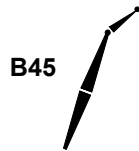
ft	°	ft	lb
37	82.8	149.3	199,400
38	82.4	149.1	198,800
39	82.0	148.8	198,200
40	81.6	148.6	197,500
41	81.2	148.3	197,000
45	79.5	147.3	194,700
50	77.5	145.7	192,000
55	75.4	144.0	189,600
60	73.3	142.1	187,300
65	71.1	139.9	172,500
70	69.0	137.6	157,400
75	66.7	135.0	144,600
80	64.5	132.1	133,700
85	62.2	128.9	124,200
90	59.8	125.5	116,000
95	57.3	121.8	108,800
100	54.8	117.6	102,300
105	52.1	113.1	96,600
110	49.4	108.2	91,400
115	46.4	102.7	86,700
120	43.3	96.6	82,500
125	40.0	89.8	78,600
130	36.4	82.0	75,100

**134.5 ft**

ft	°	ft	lb
38	82.9	159.1	207,500
39	82.5	158.9	207,100
40	82.1	158.7	206,600
41	81.7	158.4	206,200
42	81.3	158.2	205,700
45	80.2	157.4	204,500
50	78.3	156.0	202,500
55	76.4	154.4	200,700
60	74.4	152.6	191,600
65	72.4	150.6	173,200
70	70.4	148.4	158,000
75	68.4	146.0	145,200
80	66.3	143.4	134,300
85	64.2	140.5	124,800
90	62.0	137.4	116,600
95	59.8	134.0	109,300
100	57.5	130.3	102,800
105	55.1	126.3	97,100
110	52.6	121.9	91,900
115	50.1	117.1	87,200
120	47.4	111.8	83,000
125	44.6	106.1	79,100
130	41.6	99.7	75,500
135	38.4	92.5	72,300

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ASME B30.5



386,200 lb



**144.4 ft**

ft	°	ft	lb
39	82.9	168.9	215,300
40	82.6	168.7	215,000
41	82.2	168.5	214,700
42	81.9	168.3	214,400
43	81.5	168.0	214,100
45	80.8	167.6	213,600
50	79.0	166.2	212,200
55	77.2	164.7	210,300
60	75.4	163.1	192,700
65	73.5	161.2	174,200
70	71.7	159.2	159,000
75	69.8	156.9	146,100
80	67.8	154.5	135,100
85	65.9	151.8	125,600
90	63.9	148.9	117,300
95	61.8	145.8	110,000
100	59.7	142.5	103,500
105	57.6	138.8	97,700
110	55.4	134.8	92,500
115	53.1	130.6	87,800
120	50.7	125.9	83,500
125	48.3	120.9	79,700
130	45.7	115.3	76,100
135	43.0	109.3	72,800
140	40.1	102.6	68,900
145	36.9	95.1	65,100

**154.2 ft**

ft	°	ft	lb
41	82.7	178.5	220,500
42	82.3	178.3	220,500
43	82.0	178.1	220,500
44	81.7	177.9	220,500
45	81.3	177.7	220,500
50	79.7	176.4	218,900
55	78.0	175.0	212,800
60	76.2	173.4	193,500
65	74.5	171.7	175,000
70	72.8	169.8	159,600
75	71.0	167.7	146,700
80	69.2	165.4	135,700
85	67.4	162.9	126,100
90	65.5	160.3	117,800
95	63.6	157.4	110,500
100	61.7	154.3	104,000
105	59.7	150.9	98,200
110	57.7	147.3	93,000
115	55.6	143.4	88,300
120	53.5	139.2	84,000
125	51.3	134.7	80,100
130	49.0	129.8	76,500
135	46.6	124.5	72,800
140	44.1	118.7	68,700
145	41.5	112.4	64,900
150	38.7	105.4	61,400
155	35.6	97.5	58,100

**164.0 ft**

ft	°	ft	lb
42	82.8	188.4	220,500
43	82.4	188.1	220,500
44	82.1	187.9	220,500
45	81.8	187.7	220,500
46	81.5	187.5	220,500
50	80.2	186.5	220,500
55	78.6	185.2	215,000
60	77.0	183.7	194,500
65	75.4	182.1	175,900
70	73.7	180.3	160,500
75	72.1	178.3	147,500
80	70.4	176.2	136,500
85	68.7	173.9	126,900
90	66.9	171.4	118,500
95	65.2	168.7	111,200
100	63.4	165.8	104,600
105	61.6	162.7	98,800
110	59.7	159.4	93,500
115	57.8	155.8	88,800
120	55.9	152.0	84,500
125	53.8	147.9	80,600
130	51.8	143.5	76,300
135	49.6	138.7	71,900
140	47.4	133.6	67,800
145	45.1	128.0	64,100
150	42.7	122.0	60,600
155	40.1	115.3	57,300
160	37.4	108.0	54,200

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**173.9 ft**

ft	°	ft	lb
43	82.8	198.2	220,500
44	82.5	198.0	220,500
45	82.2	197.8	220,500
46	81.9	197.5	220,500
47	81.6	197.3	220,500
50	80.7	196.6	220,500
55	79.2	195.4	217,000
60	77.7	194.0	195,200
65	76.1	192.4	176,600
70	74.6	190.7	161,100
75	73.0	188.9	148,100
80	71.4	186.9	137,000
85	69.8	184.7	127,400
90	68.2	182.4	119,000
95	66.6	179.9	111,600
100	64.9	177.2	105,000
105	63.2	174.3	99,200
110	61.5	171.2	93,900
115	59.7	167.9	89,200
120	57.9	164.3	84,900
125	56.0	160.6	80,800
130	54.2	156.5	76,100
135	52.2	152.2	71,700
140	50.2	147.5	67,600
145	48.1	142.5	63,900
150	46.0	137.2	60,400
155	43.7	131.4	57,100
160	41.3	125.1	54,100
165	38.8	118.2	51,200
170	36.2	110.6	48,500

**183.7 ft**

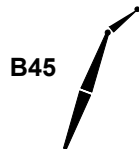
ft	°	ft	lb
44	82.9	208.0	220,500
45	82.6	207.8	220,500
46	82.3	207.6	220,500
47	82.0	207.4	220,500
48	81.8	207.2	220,500
50	81.2	206.7	220,500
55	79.7	205.5	218,800
60	78.3	204.2	196,200
65	76.8	202.7	177,500
70	75.4	201.1	162,000
75	73.9	199.4	148,900
80	72.4	197.5	137,700
85	70.9	195.4	128,100
90	69.3	193.2	119,600
95	67.8	190.9	112,200
100	66.2	188.3	105,600
105	64.6	185.6	99,800
110	63.0	182.7	94,500
115	61.4	179.6	89,700
120	59.7	176.3	85,000
125	58.0	172.8	79,800
130	56.2	169.1	75,100
135	54.4	165.1	70,700
140	52.6	160.9	66,600
145	50.7	156.3	62,900
150	48.8	151.5	59,400
155	46.7	146.3	56,100
160	44.6	140.7	53,100
165	42.4	134.6	50,200
170	40.1	128.1	47,500
175	37.7	121.0	45,000
180	35.1	113.1	42,600

**193.6 ft**

ft	°	ft	lb
45	83.0	217.8	220,500
46	82.7	217.6	220,500
47	82.4	217.4	220,500
48	82.1	217.2	220,500
49	81.9	217.0	220,500
50	81.6	216.8	220,500
55	80.2	215.6	220,400
60	78.8	214.4	196,900
65	77.5	213.0	178,100
70	76.1	211.5	162,500
75	74.7	209.8	149,400
80	73.2	208.0	138,200
85	71.8	206.1	128,500
90	70.4	204.0	120,100
95	68.9	201.7	112,600
100	67.4	199.4	106,000
105	65.9	196.8	100,100
110	64.4	194.1	94,800
115	62.8	191.2	90,100
120	61.3	188.1	84,800
125	59.7	184.8	79,600
130	58.0	181.3	74,800
135	56.4	177.6	70,400
140	54.7	173.7	66,400
145	52.9	169.5	62,600
150	51.2	165.1	59,100
155	49.3	160.3	55,900
160	47.4	155.3	52,800
165	45.4	149.9	50,000
170	43.4	144.1	47,300
175	41.3	137.8	44,800
180	39.0	131.0	42,400
185	36.6	123.6	40,100

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ASME B30.5



386,200 lb



360°

203.4 ft			
ft	°	ft	lb
47	82.7	227.4	220,500
48	82.5	227.2	220,500
49	82.2	227.0	220,500
50	82.0	226.8	220,500
51	81.7	226.6	220,500
55	80.7	225.7	220,400
60	79.3	224.5	197,900
65	78.0	223.2	179,000
70	76.7	221.7	163,400
75	75.4	220.2	150,200
80	74.0	218.5	138,900
85	72.6	216.6	129,200
90	71.3	214.6	120,700
95	69.9	212.5	113,200
100	68.5	210.3	106,600
105	67.1	207.8	100,700
110	65.6	205.3	95,400
115	64.2	202.5	89,400
120	62.7	199.6	83,700
125	61.2	196.6	78,500
130	59.7	193.3	73,800
135	58.1	189.8	69,400
140	56.5	186.2	65,300
145	54.9	182.3	61,600
150	53.3	178.2	58,100
155	51.6	173.8	54,800
160	49.8	169.2	51,800
165	48.0	164.2	48,900
170	46.2	159.0	46,300
175	44.2	153.4	43,700
180	42.2	147.3	41,400
185	40.2	140.9	39,100
190	38.0	133.8	37,000
195	35.6	126.2	34,900

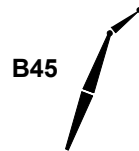
213.3 ft			
ft	°	ft	lb
48	82.8	237.2	220,500
49	82.6	237.0	220,500
50	82.3	236.8	220,500
51	82.1	236.6	220,500
52	81.8	236.4	220,500
55	81.1	235.8	220,400
60	79.8	234.6	198,600
65	78.5	233.4	179,600
70	77.3	232.0	163,900
75	76.0	230.5	150,700
80	74.7	228.9	139,400
85	73.4	227.1	129,700
90	72.1	225.2	121,100
95	70.8	223.2	113,600
100	69.4	221.1	107,000
105	68.1	218.8	101,100
110	66.7	216.3	95,400
115	65.4	213.7	89,100
120	64.0	211.0	83,400
125	62.6	208.1	78,200
130	61.1	205.0	73,500
135	59.7	201.8	69,100
140	58.2	198.3	65,000
145	56.7	194.7	61,200
150	55.1	190.9	57,800
155	53.5	186.8	54,500
160	51.9	182.5	51,500
165	50.3	178.0	48,600
170	48.6	173.1	46,000
175	46.8	168.0	43,400
180	45.0	162.6	41,100
185	43.1	156.7	38,800
190	41.2	150.5	36,700
195	39.1	143.8	34,700
200	37.0	136.6	32,800

223.1 ft			
ft	°	ft	lb
49	82.9	247.0	220,500
50	82.6	246.8	220,500
51	82.4	246.6	220,500
52	82.1	246.5	220,500
53	81.9	246.3	220,500
55	81.4	245.8	220,400
60	80.2	244.7	199,600
65	79.0	243.5	180,600
70	77.8	242.2	164,800
75	76.6	240.8	151,500
80	75.3	239.2	140,100
85	74.1	237.5	130,300
90	72.9	235.7	121,800
95	71.6	233.8	114,200
100	70.3	231.8	107,600
105	69.1	229.6	101,300
110	67.8	227.3	94,400
115	66.4	224.8	88,100
120	65.1	222.2	82,400
125	63.8	219.5	77,200
130	62.4	216.6	72,400
135	61.0	213.5	68,000
140	59.6	210.3	63,900
145	58.2	206.8	60,200
150	56.8	203.2	56,700
155	55.3	199.4	53,400
160	53.8	195.4	50,400
165	52.3	191.2	47,500
170	50.7	186.7	44,800
175	49.1	182.0	42,300
180	47.4	177.0	40,000
185	45.7	171.7	37,700
190	43.9	166.1	35,600
195	42.1	160.0	33,600
200	40.2	153.6	31,700
205	38.2	146.7	29,900
210	36.1	139.3	28,100



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ASME B30.5



**232.9 ft**

	ft	°	ft	lb
50	82.9		256.8	220,500
51	82.7		256.6	220,500
52	82.5		256.5	220,500
53	82.2		256.3	220,500
54	82.0		256.1	220,400
55	81.8		255.9	220,300
60	80.6		254.8	199,000
65	79.5		253.7	180,000
70	78.3		252.4	164,200
75	77.1		251.0	150,800
80	75.9		249.5	139,500
85	74.8		247.9	129,700
90	73.6		246.2	121,100
95	72.4		244.4	113,500
100	71.1		242.4	106,800
105	69.9		240.3	100,900
110	68.7		238.1	94,300
115	67.4		235.8	88,000
120	66.2		233.3	82,300
125	64.9		230.7	77,100
130	63.6		227.9	72,300
135	62.3		225.0	67,900
140	61.0		222.0	63,800
145	59.6		218.7	60,100
150	58.3		215.3	56,600
155	56.9		211.8	53,300
160	55.5		208.0	50,300
165	54.0		204.0	47,400
170	52.6		199.9	44,800
175	51.1		195.5	42,300
180	49.5		190.8	39,900
185	47.9		185.9	37,700
190	46.3		180.8	35,500
195	44.6		175.3	33,500
200	42.9		169.4	31,600
205	41.1		163.2	29,800
210	39.2		156.6	28,100
215	37.3		149.5	26,400
220	35.2		141.8	24,900

**242.8 ft**

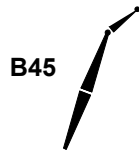
	ft	°	ft	lb
51	83.0		266.6	220,500
52	82.7		266.5	220,500
53	82.5		266.3	220,500
54	82.3		266.1	220,400
55	82.1		265.9	220,300
60	81.0		264.9	200,000
65	79.9		263.8	180,900
70	78.7		262.5	165,000
75	77.6		261.2	151,600
80	76.5		259.8	140,200
85	75.3		258.2	130,300
90	74.2		256.6	121,700
95	73.0		254.8	114,100
100	71.9		253.0	107,400
105	70.7		251.0	100,200
110	69.5		248.9	93,200
115	68.3		246.6	86,900
120	67.1		244.3	81,200
125	65.9		241.8	76,000
130	64.7		239.1	71,200
135	63.5		236.4	66,800
140	62.2		233.5	62,700
145	60.9		230.4	58,900
150	59.6		227.2	55,400
155	58.3		223.8	52,200
160	57.0		220.3	49,100
165	55.6		216.6	46,300
170	54.3		212.6	43,600
175	52.8		208.5	41,100
180	51.4		204.2	38,700
185	49.9		199.6	36,500
190	48.4		194.8	34,400
195	46.9		189.8	32,400
200	45.3		184.4	30,500
205	43.6		178.8	28,700
210	41.9		172.8	27,000
215	40.2		166.4	25,300
220	38.3		159.5	23,700
225	36.4		152.2	22,200

**252.6 ft**

	ft	°	ft	lb
53	82.8		276.3	220,500
54	82.6		276.1	220,400
55	82.4		275.9	220,300
56	82.2		275.7	219,200
57	81.9		275.5	214,200
60	81.3		274.9	200,700
65	80.2		273.8	181,500
70	79.2		272.7	165,600
75	78.1		271.4	152,200
80	77.0		270.0	140,700
85	75.9		268.5	130,800
90	74.8		267.0	122,200
95	73.7		265.3	114,600
100	72.6		263.5	107,700
105	71.5		261.6	99,900
110	70.3		259.5	92,900
115	69.2		257.4	86,600
120	68.0		255.1	80,800
125	66.9		252.8	75,600
130	65.7		250.3	70,800
135	64.5		247.6	66,400
140	63.3		244.8	62,300
145	62.1		241.9	58,600
150	60.9		238.9	55,100
155	59.6		235.7	51,800
160	58.4		232.3	48,800
165	57.1		228.8	45,900
170	55.8		225.1	43,200
175	54.5		221.2	40,700
180	53.1		217.2	38,400
185	51.7		212.9	36,100
190	50.3		208.4	34,000
195	48.9		203.7	32,000
200	47.4		198.7	30,100
205	45.9		193.5	28,300
210	44.3		188.0	26,600
215	42.7		182.2	25,000
220	41.0		176.0	23,400
225	39.3		169.4	21,900
230	37.5		162.4	20,500
235	35.6		154.9	19,100

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386,200 lb



**262.5 ft**

ft	o	ft	lb
54	82.8	286.1	215,700
55	82.6	285.9	215,200
56	82.4	285.7	214,700
57	82.2	285.5	214,300
58	82.0	285.3	210,900
60	81.6	284.9	202,000
65	80.6	283.9	182,700
70	79.5	282.8	166,600
75	78.5	281.6	153,100
80	77.5	280.2	141,600
85	76.4	278.8	131,700
90	75.3	277.3	123,000
95	74.3	275.7	115,000
100	73.2	273.9	106,300
105	72.1	272.1	98,500
110	71.0	270.2	91,500
115	70.0	268.1	85,200
120	68.8	265.9	79,400
125	67.7	263.7	74,200
130	66.6	261.3	69,300
135	65.5	258.7	64,900
140	64.3	256.1	60,800
145	63.2	253.3	57,000
150	62.0	250.4	53,500
155	60.8	247.4	50,300
160	59.6	244.2	47,200
165	58.4	240.8	44,400
170	57.2	237.3	41,700
175	55.9	233.6	39,200
180	54.6	229.8	36,800
185	53.3	225.8	34,500
190	52.0	221.6	32,400
195	50.7	217.1	30,400
200	49.3	212.5	28,500
205	47.9	207.6	26,700
210	46.4	202.5	25,000
215	44.9	197.1	23,300
220	43.4	191.5	21,800
225	41.8	185.5	20,300
230	40.2	179.1	18,800
235	38.5	172.4	17,500
240	36.7	165.2	16,100

**272.3 ft**

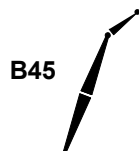
ft	o	ft	lb
55	82.9	295.9	209,700
56	82.7	295.7	209,300
57	82.5	295.5	208,800
58	82.3	295.3	208,500
59	82.1	295.2	206,400
60	81.9	295.0	202,100
65	80.9	294.0	182,800
70	79.9	292.9	166,700
75	78.9	291.7	153,200
80	77.9	290.4	141,700
85	76.9	289.0	131,800
90	75.9	287.6	123,100
95	74.8	286.0	115,400
100	73.8	284.3	107,000
105	72.8	282.6	99,300
110	71.7	280.7	92,200
115	70.7	278.7	85,900
120	69.6	276.7	80,200
125	68.5	274.5	74,900
130	67.5	272.2	70,100
135	66.4	269.8	65,700
140	65.3	267.2	61,600
145	64.2	264.6	57,800
150	63.1	261.8	54,300
155	61.9	258.9	51,000
160	60.8	255.8	48,000
165	59.6	252.6	45,100
170	58.4	249.3	42,500
175	57.3	245.8	40,000
180	56.0	242.2	37,600
185	54.8	238.4	35,300
190	53.6	234.4	33,200
195	52.3	230.2	31,200
200	51.0	225.9	29,300
205	49.7	221.3	27,500
210	48.3	216.5	25,800
215	46.9	211.5	24,200
220	45.5	206.2	22,600
225	44.1	200.7	21,100
230	42.6	194.9	19,700
235	41.0	188.7	18,300
240	39.4	182.2	17,000
245	37.7	175.3	15,800
250	36.0	167.9	14,600

**282.2 ft**

ft	o	ft	lb
56	82.9	305.7	196,200
57	82.7	305.5	195,500
58	82.5	305.3	194,800
59	82.4	305.1	194,100
60	82.2	305.0	193,500
65	81.2	304.0	183,700
70	80.2	302.9	167,600
75	79.3	301.8	154,000
80	78.3	300.6	142,400
85	77.3	299.2	132,400
90	76.3	297.8	123,700
95	75.3	296.3	114,700
100	74.3	294.7	105,900
105	73.3	293.0	98,100
110	72.3	291.2	91,100
115	71.3	289.3	84,700
120	70.3	287.3	79,000
125	69.3	285.2	73,700
130	68.2	283.0	68,900
135	67.2	280.7	64,500
140	66.2	278.2	60,400
145	65.1	275.7	56,600
150	64.0	273.0	53,100
155	62.9	270.2	49,800
160	61.8	267.3	46,800
165	60.7	264.3	43,900
170	59.6	261.1	41,200
175	58.5	257.8	38,700
180	57.3	254.3	36,300
185	56.2	250.7	34,100
190	55.0	246.9	32,000
195	53.8	243.0	30,000
200	52.5	238.9	28,100
205	51.3	234.6	26,300
210	50.0	230.1	24,600
215	48.7	225.4	22,900
220	47.4	220.4	21,400
225	46.0	215.3	19,900
230	44.6	209.9	18,500
235	43.2	204.2	17,100
240	41.7	198.2	15,800
245	40.2	191.9	14,500
250	38.6	185.2	13,300
255	37.0	178.1	12,200
260	35.3	170.5	11,000

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ft	°	ft	lb
57	83.0	315.5	183,600
58	82.8	315.3	182,800
59	82.6	315.1	182,100
60	82.4	315.0	181,300
61	82.2	314.8	180,500
65	81.5	314.0	177,800
70	80.5	313.0	168,100
75	79.6	311.9	154,500
80	78.7	310.7	142,900
85	77.7	309.4	132,900
90	76.8	308.1	124,100
95	75.8	306.6	114,300
100	74.9	305.1	105,500
105	73.9	303.4	97,700
110	72.9	301.7	90,700
115	71.9	299.8	84,300
120	71.0	297.9	78,600
125	70.0	295.9	73,300
130	69.0	293.8	68,500
135	68.0	291.5	64,000
140	67.0	289.2	60,000
145	65.9	286.7	56,200
150	64.9	284.2	52,700
155	63.9	281.5	49,400
160	62.8	278.7	46,300
165	61.8	275.8	43,500
170	60.7	272.8	40,800
175	59.6	269.6	38,300
180	58.5	266.3	35,900
185	57.4	262.8	33,700
190	56.3	259.2	31,500
195	55.1	255.5	29,500
200	54.0	251.6	27,600
205	52.8	247.5	25,800
210	51.6	243.3	24,100
215	50.4	238.8	22,500
220	49.1	234.2	20,900
225	47.8	229.4	19,400
230	46.5	224.3	18,000
235	45.2	219.0	16,700
240	43.8	213.4	15,400
245	42.4	207.6	14,100
250	41.0	201.4	12,900
255	39.5	195.0	11,700
260	37.9	188.1	10,600

REFERENCE ONLY!