

Liftcrane Boom Capacities

Boom No. 74A
123,400 lb Crane Counterweight
45,100 lb Carbody Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating

MLC165-1 SERIES 2



LIFTING CAPACITIES: Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. 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.

Boom Backward Stability: A minimum of 4 parts hoist line is required for capacities denoted by (b), (c), and (d) for boom lengths 49.2 ft thru 98.4 ft. Capacities indicated by (b) require 3,000 lb minimum weight, (c) requires 7,500 lb minimum weight, and (d) requires 15,000 lb minimum weight. **Caution: Do not operate in areas indicated by (b), (c), or (d) without required minimum weights.** Boom will not boom down and boom hoist wire rope may go slack causing wire rope damage or failure.

Upper boom point capacity for liftcrane service with single part whip line is 27,558 lb or 55,116 lb with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 lb or 40,000 lb with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

206.7 ft thru 275.6 ft boom lengths require only the middle three sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of upper boom point, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom 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 uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging **No. 81023602**, Wire Rope Specification chart **No. 9408-A**, and Wind Conditions chart **No. 9407-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.



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

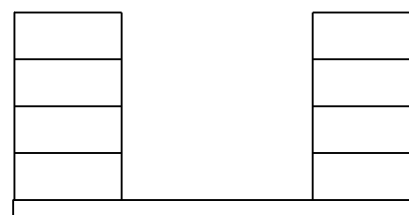


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

MACHINE EQUIPMENT: Machine equipped with 26 ft 2 in. crawlers, 43 in. treads, 23 ft 7 in. live mast, 18 part boom hoist reeving, boom support straps, 123,400 lb crane counterweight, and two 22,550 lb carbody counterweights.



123,400 lb Crane Counterweight
8 Side Boxes

WARNING: Free fall operation is limited to 13,000 lb per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

Upper Boom Point Deduct

Deduct 1,300 lb from capacities when upper boom point is attached.
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Lower Boom Point Sheave Deduct

Deduct 700 lb from capacities for boom lengths 147.6 ft thru 196.9 ft when lower boom point is equipped with outer sheave clusters.

Auxiliary Drum Deduct

Deduct 1,800 lb from capacities when boom butt is equipped with auxiliary drum, and 6,0 m (19.7 ft) insert is equipped with wire rope guide sheaves.
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Third Line Deduct

Deduct 400 lb from capacities when boom is equipped for three line operation.

REFERENCE ONLY!

Refer to **Tables 1 and 2** for raising ability with the maximum weight of all load blocks, hooks, weight balls, slings, and hoist lines beneath lower and/or upper boom point sheaves. For block weights shown with #, a, or b, load blocks, hooks, weight balls, and slings must remain on barge deck until combined weights are within rated capacity of chart. For block weights shown with (a), auxiliary drum mounted in boom butt, wire rope guide sheaves in 6,0 m (19.7 ft) insert, and boom lights must be removed. For block weights shown with (b), upper boom point must be removed. Raising is not permitted in shaded areas of table.

Caution: Combined weight beneath lower and/or upper boom point sheaves must not exceed block weight shown. Jib cannot be attached on crawler machine while operating on a barge.

Table 1

Raising Ability Over End or Side of Crawlers				
Boom Length (ft)	Machine List			
	0°	1°	2°	3°
	Block Weight (lb)			
49.2 - 187.0	7,700	7,700	7,700	7,700
196.8	5,800	5,800	5,800	5,800
206.7	1,600	1,600	1,600	1,600
216.5	1,600	1,600	1,600	1,600
226.4	1,600	1,600	1,600	1,600
236.2	#	#	#	#
246.1	b	RAISING NOT PERMITTED		
255.9	a, b			
265.7				
275.6				

Table 2

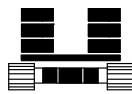
Raising Ability Over Front of Blocked Crawlers				
Boom Length (ft)	Machine List			
	0°	1°	2°	3°
	Block Weight (lb)			
49.2 - 187.0	7,700	7,700	7,700	7,700
196.8	5,800	5,800	5,800	5,800
206.7	1,600	1,600	1,600	1,600
216.5	1,600	1,600	1,600	1,600
226.4	1,600	1,600	1,600	1,600
236.2	#	#	#	#
246.1	#	#	#	#
255.9	#	#	#	#
265.7	b	b	b	a, b
275.6	a, b	RAISING NOT PERMITTED		

Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius and crane configuration is within 360 degree chart.

Explanation of Symbols



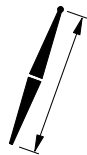
Boom No. 74A



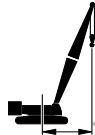
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



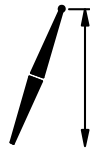
Boom Length



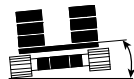
Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Machine List



Lifting Capacities
(see page 1)

MLC165-1 S-2




<p>49.2 ft</p>							
ft	°	ft	lb	lb	lb	lb	ft
14	81.7	55.1	363,800 d				14
15	80.5	54.9	358,500 d	326,700 d			15
16	79.3	54.6	337,600 d	308,100 d	224,000 d		16
17	78.1	54.4	319,000 d	289,700 d	223,900 d	170,000 d	17
18	76.9	54.1	302,300 d	273,300 d	221,100 d	170,000 d	18
19	75.7	53.8	287,200 c	258,700 c	209,100 c	169,900 c	19
20	74.5	53.5	273,500 c	245,500 c	198,300 c	169,900 c	20
22	72.0	52.8	249,600 c	222,700 c	179,600 c	157,400 c	22
24	69.5	52.0	229,400 b	203,700 b	164,100 b	143,600 b	24
26	66.9	51.1	211,900 b	187,600 b	150,900 b	131,900 b	26
28	64.3	50.1	188,300	173,800	139,600	121,800	28
30	61.7	48.9	169,300	161,200	129,700	113,100	30
32	58.9	47.7	153,600	146,900	121,200	105,500	32
34	56.1	46.3	140,500	134,900	113,600	98,800	34
36	53.1	44.7	129,300	124,500	106,800	92,800	36
38	50.0	43.0	119,600	115,600	100,800	87,400	38
40	46.8	41.0	111,200	107,700	95,300	82,600	40
42	43.3	38.8	103,800	100,800	90,400	78,200	42
44	39.6	36.4	97,300	94,700	85,900	74,200	44
46	35.6	33.5	91,400	89,200	81,800	70,500	46
48	31.0	30.1	86,100	84,200	78,000	67,100	48
50	25.6	26.0	81,300	79,700	74,400	64,000	50

MLC165-1 S-2




123,400 lb
 +
45,100 lb



 59.1 ft							
ft	°	ft	lb	lb	lb	lb	ft
			0°	1°	2°	3°	
16	81.1	64.7	334,800 d				16
17	80.1	64.5	318,800 d	260,300 d			17
18	79.1	64.3	302,100 d	260,300 d	177,100 d		18
19	78.1	64.0	287,000 c	258,600 c	177,100 c	133,300 c	19
20	77.1	63.8	273,300 c	245,400 c	177,100 c	133,300 c	20
22	75.1	63.2	249,400 c	222,600 c	177,100 c	133,300 c	22
24	73.1	62.5	229,200 b	203,600 b	164,000 b	133,300 b	24
26	71.0	61.8	211,900 b	187,500 b	150,800 b	131,800 b	26
28	68.9	61.0	188,700	173,700	139,500	121,800	28
30	66.8	60.1	169,700	160,000	129,700	113,100	30
32	64.6	59.1	154,000	145,900	121,100	105,500	32
34	62.4	58.0	140,800	134,000	113,500	98,800	34
36	60.2	56.8	129,600	123,800	106,800	92,800	36
38	57.8	55.5	120,000	115,000	100,800	87,400	38
40	55.5	54.1	111,500	107,200	95,300	82,600	40
42	53.0	52.5	104,200	100,400	90,400	78,300	42
44	50.4	50.8	97,600	94,300	85,900	74,300	44
46	47.8	48.9	91,800	88,900	81,800	70,600	46
48	45.0	46.9	86,500	84,000	78,100	67,300	48
50	42.1	44.6	81,800	79,500	74,600	64,200	50
55	33.8	37.7	71,700	70,100	67,000	57,500	55
60	22.7	27.4	63,500	62,400	60,600	51,800	60


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb




 68.9 ft							
ft	°	ft	lb	lb	lb	lb	ft
17	81.6	74.5	312,800 d				17
18	80.7	74.3	301,400 c				18
19	79.9	74.1	286,300 c	246,400 c			19
20	79.0	73.9	272,600 c	245,000 c	169,000 c		20
22	77.3	73.4	248,700 c	222,200 c	169,000 c	127,600 c	22
24	75.6	72.9	228,600 b	203,200 b	163,500 b	127,600 b	24
26	73.8	72.3	211,300 b	187,200 b	150,300 b	127,600 b	26
28	72.1	71.6	188,400	173,400	139,000	121,200	28
30	70.3	70.8	169,300	158,200	129,200	112,500	30
32	68.5	70.0	153,600	144,400	120,600	104,900	32
34	66.7	69.1	140,500	132,600	113,100	98,200	34
36	64.8	68.1	129,300	122,500	106,300	92,300	36
38	62.9	67.0	119,600	113,800	100,300	86,900	38
40	61.0	65.9	111,200	106,100	94,900	82,100	40
42	59.1	64.6	103,800	99,400	90,000	77,800	42
44	57.1	63.3	97,300	93,300	85,500	73,800	44
46	55.0	61.9	91,500	88,000	81,400	70,200	46
48	52.9	60.3	86,200	83,100	77,700	66,900	48
50	50.7	58.6	81,500	78,700	74,200	63,800	50
55	45.0	53.8	71,500	69,300	66,700	57,100	55
60	38.5	47.8	63,400	61,800	60,200	51,500	60
65	30.8	40.0	56,700	55,500	54,300	46,700	65
70	20.5	28.7	51,100	50,200	49,300	42,500	70

MLC165-1 S-2




123,400 lb
+ 45,100 lb



 78.7 ft							
ft	°	ft	lb	lb	lb	lb	ft
19	81.2	84.2	286,000 c				19
20	80.4	84.0	272,300 c	241,900 c			20
22	78.9	83.5	248,400 b	222,100 b	167,100 b		22
24	77.4	83.1	228,200 b	203,100 b	163,200 b	126,300 b	24
26	75.9	82.5	211,000 b	187,000 b	150,100 b	126,300 b	26
28	74.4	81.9	188,500	173,200	138,800	121,000	28
30	72.9	81.3	169,400	156,900	129,000	112,300	30
32	71.3	80.6	153,700	143,300	120,400	104,700	32
34	69.8	79.8	140,500	131,700	112,900	98,000	34
36	68.2	79.0	129,300	121,700	106,200	92,100	36
38	66.6	78.1	119,700	113,000	100,100	86,700	38
40	65.0	77.1	111,200	105,500	94,700	81,900	40
42	63.3	76.1	103,900	98,800	89,800	77,600	42
44	61.7	74.9	97,300	92,800	85,400	73,600	44
46	60.0	73.8	91,500	87,500	81,300	70,000	46
48	58.3	72.5	86,300	82,600	77,600	66,700	48
50	56.5	71.1	81,500	78,300	74,100	63,600	50
55	51.9	67.3	71,500	69,000	66,600	57,000	55
60	47.0	62.8	63,500	61,500	59,500	51,400	60
65	41.6	57.3	56,800	55,200	53,700	46,700	65
70	35.6	50.7	51,300	50,000	48,800	42,600	70
75	28.4	42.2	46,500	45,500	44,600	39,000	75
80	18.6	29.7	42,300	41,600	40,900	35,800	80


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb



 88.6 ft							
ft	°	ft	lb	lb	lb	lb	ft
20	81.5	94.0	272,100 c				20
22	80.2	93.6	248,200 b	221,400 b			22
24	78.9	93.2	228,100 b	203,000 b	158,000 b		24
26	77.5	92.7	210,800 b	186,900 b	150,000 b	120,800 b	26
28	76.2	92.2	188,600	171,900	138,700	120,800	28
30	74.8	91.6	169,600	155,700	128,900	112,200	30
32	73.5	91.0	153,800	142,200	120,400	104,600	32
34	72.1	90.3	140,600	130,800	112,800	97,900	34
36	70.7	89.6	129,400	120,900	106,100	92,000	36
38	69.4	88.8	119,700	112,400	100,100	86,600	38
40	68.0	88.0	111,300	104,900	94,700	81,800	40
42	66.5	87.1	103,900	98,200	89,800	77,500	42
44	65.1	86.1	97,400	92,300	85,300	73,500	44
46	63.6	85.1	91,600	87,000	81,200	69,900	46
48	62.2	84.0	86,300	82,300	77,500	66,600	48
50	60.7	82.8	81,600	77,900	74,100	63,600	50
55	56.8	79.6	71,600	68,700	66,000	56,900	55
60	52.8	75.9	63,600	61,200	59,000	51,400	60
65	48.5	71.6	56,900	55,100	53,300	46,700	65
70	43.9	66.6	51,400	49,900	48,400	42,600	70
75	38.9	60.6	46,700	45,400	44,200	39,100	75
80	33.2	53.3	42,600	41,600	40,600	36,000	80
85	26.4	44.1	39,000	38,200	37,400	33,200	85
90	17.1	30.6	35,900	35,300	34,700	30,700	90


MLC165-1 S-2





123,400 lb
 +
45,100 lb



 98.4 ft							
ft	°	ft	lb	lb	lb	lb	ft
22	81.2	103.6	247,800 b				22
24	80.0	103.2	227,600 b	202,800 b			24
26	78.8	102.8	210,400	186,700	149,700		26
28	77.6	102.3	188,600	170,200	138,400	117,400	28
30	76.4	101.8	169,500	154,300	128,600	111,900	30
32	75.2	101.3	153,800	141,000	120,100	104,300	32
34	74.0	100.7	140,500	129,700	112,500	97,600	34
36	72.8	100.0	129,300	120,000	105,800	91,600	36
38	71.5	99.3	119,600	111,500	99,800	86,300	38
40	70.3	98.6	111,200	104,100	94,400	81,500	40
42	69.0	97.8	103,800	97,500	89,500	77,200	42
44	67.8	97.0	97,300	91,700	85,000	73,200	44
46	66.5	96.1	91,400	86,400	81,000	69,600	46
48	65.2	95.1	86,200	81,700	77,200	66,300	48
50	63.9	94.1	81,500	77,400	73,600	63,300	50
55	60.6	91.3	71,500	68,200	65,200	56,700	55
60	57.1	88.1	63,400	60,800	58,300	51,100	60
65	53.5	84.5	56,800	54,700	52,600	46,400	65
70	49.7	80.3	51,300	49,500	47,800	42,400	70
75	45.7	75.6	46,600	45,100	43,700	38,900	75
80	41.4	70.1	42,500	41,300	40,100	35,800	80
85	36.6	63.6	39,000	38,000	37,000	33,100	85
90	31.2	55.8	35,900	35,000	34,200	30,600	90
95	24.7	45.8	33,100	32,400	31,700	28,400	95
100	15.8	31.3	30,600	30,100	29,500	26,400	100


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb




 108.3 ft								
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
24	80.9	113.3	227,500 b				24	
26	79.8	112.9	210,300	182,100			26	
28	78.7	112.4	188,700	168,800	138,300		28	
30	77.7	112.0	169,600	153,100	128,600	111,800	30	
32	76.6	111.5	153,800	140,000	120,000	104,200	32	
34	75.5	110.9	140,600	128,800	112,500	97,500	34	
36	74.4	110.4	129,400	119,200	105,700	91,600	36	
38	73.3	109.7	119,700	110,800	99,700	86,300	38	
40	72.1	109.1	111,300	103,500	94,300	81,500	40	
42	71.0	108.4	103,900	97,000	89,400	77,100	42	
44	69.9	107.6	97,300	91,200	85,000	73,200	44	
46	68.8	106.8	91,500	86,000	80,900	69,600	46	
48	67.6	105.9	86,200	81,300	76,700	66,300	48	
50	66.4	105.0	81,500	77,000	72,900	63,300	50	
55	63.5	102.6	71,500	67,900	64,600	56,600	55	
60	60.5	99.8	63,500	60,600	57,900	51,100	60	
65	57.3	96.6	56,800	54,500	52,200	46,400	65	
70	54.1	93.1	51,300	49,300	47,500	42,400	70	
75	50.7	89.0	46,600	45,000	43,400	38,900	75	
80	47.1	84.5	42,600	41,200	39,800	35,800	80	
85	43.3	79.3	39,100	37,900	36,700	33,100	85	
90	39.2	73.4	36,000	35,000	34,000	30,700	90	
95	34.7	66.4	33,200	32,400	31,500	28,500	95	
100	29.5	58.1	30,800	30,100	29,400	26,500	100	
105	23.3	47.4	28,500	28,000	27,400	24,700	105	

MLC165-1 S-2




123,400 lb
+
45,100 lb



 118.1 ft							
ft	°	ft	lb	lb	lb	lb	ft
24	81.7	123.2	215,500 b				24
26	80.7	122.9	209,500	168,700			26
28	79.7	122.5	188,700	164,900	138,000		28
30	78.7	122.1	169,500	151,700	128,200		30
32	77.7	121.6	153,700	138,800	119,700	103,900	32
34	76.7	121.1	140,500	127,700	112,100	97,200	34
36	75.7	120.6	129,200	118,200	105,400	91,200	36
38	74.7	120.0	119,500	109,900	99,400	85,900	38
40	73.7	119.4	111,100	102,700	94,000	81,100	40
42	72.7	118.8	103,700	96,200	89,100	76,800	42
44	71.6	118.1	97,100	90,500	84,500	72,800	44
46	70.6	117.4	91,300	85,300	79,900	69,200	46
48	69.6	116.6	86,000	80,600	75,800	65,900	48
50	68.5	115.8	81,300	76,400	72,000	62,900	50
55	65.9	113.6	71,300	67,400	63,800	56,300	55
60	63.2	111.1	63,200	60,100	57,100	50,700	60
65	60.4	108.3	56,600	54,000	51,600	46,100	65
70	57.5	105.1	51,100	48,900	46,800	42,000	70
75	54.6	101.6	46,400	44,500	42,800	38,600	75
80	51.5	97.7	42,400	40,800	39,300	35,500	80
85	48.2	93.3	38,800	37,500	36,200	32,800	85
90	44.8	88.4	35,800	34,600	33,500	30,400	90
95	41.2	82.8	33,000	32,000	31,100	28,200	95
100	37.3	76.5	30,600	29,700	28,900	26,300	100
105	32.9	69.0	28,400	27,700	26,900	24,500	105
110	28.0	60.2	26,400	25,800	25,200	22,900	110
115	22.0	48.9	24,600	24,100	23,600	21,400	115


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb



 128.0 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
26	81.4	132.9	197,100				26
28	80.5	132.5	188,600	153,400			28
30	79.6	132.1	169,400	150,300	126,200		30
32	78.7	131.7	153,600	137,600	119,500	103,600	32
34	77.8	131.3	140,400	126,700	111,900	96,900	34
36	76.8	130.8	129,100	117,300	105,200	91,000	36
38	75.9	130.3	119,400	109,100	99,200	85,700	38
40	75.0	129.7	110,900	101,900	93,800	80,900	40
42	74.0	129.1	103,500	95,500	88,500	76,500	42
44	73.1	128.5	97,000	89,800	83,500	72,600	44
46	72.2	127.8	91,100	84,700	79,000	69,000	46
48	71.2	127.1	85,900	80,100	74,900	65,700	48
50	70.3	126.4	81,100	75,900	71,200	62,700	50
55	67.8	124.4	71,100	66,900	63,100	56,000	55
60	65.4	122.1	63,100	59,700	56,500	50,500	60
65	62.9	119.6	56,500	53,600	51,000	45,800	65
70	60.3	116.7	50,900	48,600	46,300	41,800	70
75	57.7	113.6	46,200	44,200	42,300	38,300	75
80	54.9	110.1	42,200	40,500	38,800	35,300	80
85	52.1	106.3	38,700	37,200	35,800	32,600	85
90	49.2	102.1	35,600	34,300	33,100	30,200	90
95	46.1	97.3	32,900	31,800	30,700	28,000	95
100	42.9	92.1	30,500	29,500	28,500	26,100	100
105	39.4	86.1	28,300	27,400	26,600	24,300	105
110	35.6	79.4	26,300	25,600	24,800	22,700	110
115	31.4	71.5	24,500	23,900	23,200	21,200	115
120	26.7	62.1	22,900	22,300	21,800	19,900	120
125	20.9	50.2	21,300	20,900	20,400	18,600	125


MLC165-1 S-2





123,400 lb
+
45,100 lb



 137.8 ft								
ft	°	ft	lb	lb	lb	lb	lb	ft
			0°	1°	2°	3°		
28	81.2	142.5	183,300					28
30	80.3	142.2	169,300	143,500				30
32	79.5	141.8	153,500	136,400	118,400			32
34	78.6	141.4	140,200	125,600	111,600	96,500		34
36	77.8	140.9	128,900	116,300	104,900	90,600		36
38	76.9	140.4	119,200	108,200	98,900	85,300		38
40	76.1	139.9	110,700	101,100	92,800	80,500		40
42	75.2	139.4	103,300	94,800	87,300	76,200		42
44	74.4	138.8	96,700	89,100	82,400	72,200		44
46	73.5	138.2	90,900	84,000	78,000	68,600		46
48	72.6	137.5	85,600	79,400	73,900	65,300		48
50	71.7	136.8	80,900	75,300	70,200	62,300		50
55	69.5	135.0	70,900	66,400	62,300	55,700		55
60	67.3	132.9	62,800	59,100	55,800	50,200		60
65	65.0	130.6	56,200	53,100	50,300	45,500		65
70	62.6	128.0	50,700	48,100	45,700	41,500		70
75	60.2	125.2	46,000	43,800	41,700	38,000		75
80	57.8	122.1	41,900	40,000	38,300	34,900		80
85	55.3	118.7	38,400	36,800	35,200	32,200		85
90	52.7	114.9	35,300	33,900	32,600	29,800		90
95	50.0	110.8	32,600	31,400	30,200	27,700		95
100	47.2	106.2	30,200	29,100	28,000	25,800		100
105	44.2	101.2	28,000	27,000	26,100	24,000		105
110	41.1	95.6	26,000	25,200	24,400	22,400		110
115	37.7	89.3	24,200	23,500	22,800	20,900		115
120	34.1	82.1	22,600	22,000	21,300	19,600		120
125	30.1	73.9	21,100	20,500	20,000	18,300		125
130	25.5	64.0	19,700	19,200	18,800	17,200		130
135	19.9	51.5	18,400	18,000	17,600	16,100		135

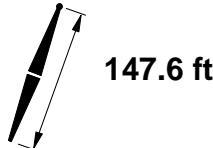
MLC165-1 S-2





 123,400 lb
 +
 45,100 lb




 147.6 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
30	81.0	152.2	168,900				30
32	80.2	151.8	153,900	130,800			32
34	79.4	151.4	140,600	125,200	107,200		34
36	78.6	151.0	129,300	116,000	104,800	90,800	36
38	77.8	150.5	119,600	107,900	98,100	85,600	38
40	77.0	150.1	111,100	100,900	92,100	80,800	40
42	76.2	149.6	103,700	94,600	86,800	76,500	42
44	75.4	149.0	97,100	89,000	81,900	72,600	44
46	74.6	148.5	91,300	84,000	77,600	69,000	46
48	73.8	147.9	86,000	79,400	73,600	65,700	48
50	73.0	147.2	81,300	75,300	70,000	62,600	50
55	70.9	145.5	71,300	66,500	62,200	56,000	55
60	68.9	143.6	63,200	59,300	55,700	50,500	60
65	66.8	141.5	56,600	53,300	50,300	45,800	65
70	64.6	139.1	51,000	48,300	45,800	41,800	70
75	62.4	136.5	46,300	44,000	41,800	38,300	75
80	60.2	133.7	42,300	40,300	38,400	35,300	80
85	57.9	130.6	38,800	37,100	35,400	32,600	85
90	55.6	127.2	35,700	34,200	32,800	30,200	90
95	53.2	123.5	33,000	31,700	30,400	28,100	95
100	50.7	119.5	30,600	29,400	28,300	26,100	100
105	48.1	115.0	28,400	27,400	26,400	24,400	105
110	45.4	110.2	26,500	25,500	24,600	22,800	110
115	42.5	104.8	24,700	23,800	23,000	21,300	115
120	39.5	98.9	23,100	22,300	21,600	20,000	120
125	36.3	92.3	21,600	20,900	20,300	18,700	125
130	32.8	84.8	20,200	19,600	19,100	17,600	130
135	28.9	76.1	18,900	18,400	17,900	16,500	135
140	24.4	65.7	17,700	17,300	16,900	15,500	140
145	19.0	52.6	16,600	16,300	15,900	14,600	145

MLC165-1 S-2




123,400 lb
+ 45,100 lb



 157.5 ft							
ft	°	ft	lb	lb	lb	lb	ft
			0°	1°	2°	3°	
30	81.6	162.1	158,300				30
32	80.8	161.8	153,700				32
34	80.1	161.4	140,400	119,800			34
36	79.3	161.0	129,100	115,000	98,100		36
38	78.6	160.6	119,400	107,100	96,700	82,900	38
40	77.9	160.2	110,900	100,100	90,900	80,400	40
42	77.1	159.7	103,500	93,800	85,600	76,100	42
44	76.4	159.2	96,900	88,300	80,900	72,200	44
46	75.6	158.7	91,000	83,300	76,600	68,600	46
48	74.8	158.1	85,800	78,800	72,700	65,300	48
50	74.1	157.5	81,000	74,700	69,100	62,300	50
55	72.2	155.9	71,000	65,900	61,300	55,600	55
60	70.3	154.2	62,900	58,800	55,000	50,100	60
65	68.3	152.2	56,300	52,800	49,700	45,400	65
70	66.3	150.0	50,700	47,800	45,100	41,400	70
75	64.3	147.6	46,000	43,600	41,200	38,000	75
80	62.2	145.0	42,000	39,900	37,800	34,900	80
85	60.2	142.2	38,500	36,600	34,900	32,200	85
90	58.0	139.1	35,400	33,800	32,200	29,800	90
95	55.8	135.7	32,700	31,300	29,900	27,700	95
100	53.6	132.1	30,300	29,000	27,800	25,800	100
105	51.2	128.1	28,100	27,000	25,900	24,000	105
110	48.8	123.8	26,200	25,100	24,200	22,400	110
115	46.3	119.1	24,400	23,500	22,600	21,000	115
120	43.7	113.9	22,800	21,900	21,200	19,600	120
125	41.0	108.3	21,300	20,500	19,800	18,400	125
130	38.1	102.1	19,900	19,200	18,600	17,300	130
135	35.0	95.1	18,600	18,100	17,500	16,200	135
140	31.6	87.2	17,500	17,000	16,400	15,200	140
145	27.8	78.2	16,400	15,900	15,500	14,300	145
150	23.5	67.4	15,400	15,000	14,600	13,400	150
155	18.2	53.6	14,400	14,100	13,700	12,600	155

MLC165-1 S-2



123,400 lb
+
45,100 lb



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
32	81.4	171.8	145,900				32
34	80.7	171.4	140,200	112,100			34
36	80.0	171.1	128,900	110,300			36
38	79.3	170.7	119,200	106,200	90,100		38
40	78.6	170.3	110,700	99,300	88,800	73,800	40
42	77.9	169.8	103,300	93,100	84,500	73,600	42
44	77.2	169.4	96,700	87,600	79,800	71,900	44
46	76.5	168.9	90,800	82,700	75,600	68,300	46
48	75.8	168.3	85,600	78,200	71,800	65,000	48
50	75.1	167.8	80,800	74,100	68,200	62,000	50
55	73.3	166.3	70,800	65,400	60,600	55,300	55
60	71.5	164.6	62,700	58,300	54,300	49,800	60
65	69.6	162.8	56,100	52,400	49,100	45,200	65
70	67.8	160.8	50,500	47,400	44,600	41,200	70
75	65.9	158.5	45,800	43,200	40,700	37,700	75
80	64.0	156.1	41,800	39,500	37,300	34,600	80
85	62.1	153.5	38,300	36,300	34,400	32,000	85
90	60.1	150.6	35,200	33,400	31,800	29,600	90
95	58.1	147.6	32,500	30,900	29,500	27,400	95
100	56.0	144.2	30,000	28,700	27,400	25,500	100
105	53.9	140.6	27,900	26,600	25,500	23,800	105
110	51.8	136.7	25,900	24,800	23,800	22,200	110
115	49.5	132.5	24,100	23,100	22,200	20,700	115
120	47.2	127.9	22,500	21,600	20,800	19,400	120
125	44.8	123.0	21,000	20,200	19,500	18,200	125
130	42.3	117.6	19,700	19,000	18,300	17,000	130
135	39.6	111.6	18,400	17,800	17,100	16,000	135
140	36.8	105.1	17,300	16,700	16,100	15,000	140
145	33.8	97.8	16,200	15,600	15,100	14,100	145
150	30.5	89.6	15,200	14,700	14,200	13,200	150
155	26.8	80.2	14,200	13,800	13,400	12,400	155
160	22.6	68.9	13,300	13,000	12,600	11,600	160
165	17.4	54.6	12,500	12,200	11,900	10,900	165


MLC165-1 S-2





123,400 lb
+ 45,100 lb



 177.2 ft							
ft	°	ft	lb	lb	lb	lb	ft
			0°	1°	2°	3°	
34	81.2	181.4	134,100				34
36	80.5	181.1	128,700	103,800			36
38	79.9	180.7	119,000	102,100			38
40	79.2	180.3	110,500	98,500	81,200		40
42	78.6	179.9	103,000	92,300	80,900	64,300	42
44	77.9	179.5	96,400	86,900	78,800	64,300	44
46	77.2	179.0	90,600	82,000	74,600	64,100	46
48	76.6	178.5	85,300	77,500	70,800	64,000	48
50	75.9	178.0	80,500	73,500	67,300	61,600	50
55	74.2	176.6	70,500	64,800	59,800	55,000	55
60	72.5	175.0	62,400	57,700	53,600	49,400	60
65	70.8	173.3	55,700	51,900	48,400	44,800	65
70	69.1	171.4	50,200	46,900	43,900	40,800	70
75	67.3	169.3	45,500	42,700	40,100	37,300	75
80	65.6	167.1	41,400	39,000	36,800	34,300	80
85	63.8	164.6	37,900	35,800	33,800	31,600	85
90	61.9	162.0	34,900	33,000	31,300	29,200	90
95	60.1	159.1	32,100	30,500	28,900	27,100	95
100	58.2	156.0	29,700	28,200	26,900	25,100	100
105	56.2	152.7	27,500	26,200	25,000	23,400	105
110	54.3	149.2	25,600	24,400	23,300	21,800	110
115	52.2	145.3	23,800	22,700	21,700	20,300	115
120	50.1	141.2	22,200	21,200	20,300	19,000	120
125	48.0	136.7	20,700	19,800	19,000	17,800	125
130	45.7	131.9	19,300	18,600	17,800	16,700	130
135	43.4	126.7	18,100	17,400	16,700	15,600	135
140	40.9	121.1	16,900	16,300	15,700	14,600	140
145	38.4	114.9	15,800	15,300	14,700	13,700	145
150	35.6	108.0	14,800	14,300	13,800	12,800	150
155	32.7	100.5	13,900	13,400	13,000	12,000	155
160	29.5	91.9	13,000	12,600	12,200	11,300	160
165	25.9	82.1	12,200	11,800	11,400	10,600	165
170	21.8	70.4	11,400	11,100	10,700	9,900	170
175	16.7	55.5	10,600	10,400	10,100	9,200	175


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb



 187.0 ft							
ft	°	ft	lb	lb	lb	lb	ft
34	81.7	191.4	127,000				34
36	81.0	191.1	124,400				36
38	80.4	190.7	118,800	95,300			38
40	79.8	190.4	110,300	95,000			40
42	79.2	190.0	102,900	91,700	71,400		42
44	78.6	189.5	96,300	86,200	71,300	56,400	44
46	77.9	189.1	90,400	81,400	71,100	56,300	46
48	77.3	188.6	85,100	77,000	70,000	56,200	48
50	76.7	188.1	80,400	72,900	66,600	56,000	50
55	75.1	186.8	70,300	64,300	59,100	54,500	55
60	73.5	185.3	62,200	57,300	53,000	49,100	60
65	71.9	183.7	55,600	51,500	47,800	44,500	65
70	70.2	181.9	50,000	46,600	43,400	40,600	70
75	68.6	180.0	45,300	42,300	39,600	37,100	75
80	66.9	177.9	41,300	38,700	36,300	34,100	80
85	65.3	175.6	37,700	35,500	33,400	31,400	85
90	63.5	173.1	34,700	32,700	30,900	29,000	90
95	61.8	170.5	31,900	30,200	28,600	26,800	95
100	60.0	167.6	29,500	28,000	26,500	24,900	100
105	58.2	164.5	27,300	26,000	24,600	23,200	105
110	56.4	161.2	25,400	24,100	23,000	21,600	110
115	54.5	157.7	23,600	22,500	21,400	20,100	115
120	52.6	153.9	22,000	21,000	20,000	18,800	120
125	50.6	149.9	20,500	19,600	18,700	17,600	125
130	48.6	145.5	19,200	18,300	17,500	16,500	130
135	46.5	140.8	17,900	17,100	16,400	15,400	135
140	44.3	135.8	16,700	16,100	15,400	14,400	140
145	42.1	130.3	15,700	15,000	14,400	13,500	145
150	39.7	124.4	14,700	14,100	13,500	12,700	150
155	37.2	117.9	13,700	13,200	12,700	11,900	155
160	34.5	110.8	12,900	12,400	11,900	11,100	160
165	31.7	103.0	12,000	11,600	11,200	10,400	165
170	28.6	94.1	11,300	10,900	10,500	9,700	170
175	25.1	83.9	10,500	10,200	9,800	9,100	175
180	21.1	71.8	9,800	9,500	9,200	8,500	180
185	16.1	56.2	9,200	8,900	8,600	7,900	185


MLC165-1 S-2





123,400 lb
+
45,100 lb



 196.9 ft							
ft	°	ft	lb	lb	lb	lb	ft
			0°	1°	2°	3°	
36	81.5	201.1	114,600				36
38	80.9	200.7	113,300				38
40	80.3	200.4	110,100	84,600			40
42	79.7	200.0	102,600	84,200			42
44	79.1	199.6	96,000	83,900	63,100		44
46	78.5	199.2	90,100	80,700	62,900	49,500	46
48	77.9	198.7	84,800	76,300	62,700	49,400	48
50	77.3	198.3	80,100	72,300	62,600	49,300	50
55	75.8	197.0	70,000	63,800	58,300	49,100	55
60	74.3	195.6	61,900	56,800	52,300	48,300	60
65	72.8	194.1	55,200	51,000	47,200	43,700	65
70	71.3	192.4	49,700	46,100	42,800	39,900	70
75	69.7	190.6	45,000	41,900	39,100	36,500	75
80	68.2	188.6	40,900	38,200	35,800	33,500	80
85	66.6	186.4	37,400	35,100	32,900	30,900	85
90	65.0	184.1	34,300	32,300	30,300	28,600	90
95	63.3	181.6	31,600	29,800	28,100	26,500	95
100	61.7	178.9	29,200	27,500	26,000	24,500	100
105	60.0	176.1	27,000	25,500	24,200	22,800	105
110	58.3	173.0	25,000	23,700	22,500	21,200	110
115	56.6	169.7	23,300	22,100	20,900	19,800	115
120	54.8	166.2	21,700	20,600	19,500	18,400	120
125	53.0	162.5	20,200	19,200	18,300	17,200	125
130	51.1	158.5	18,800	17,900	17,100	16,100	130
135	49.2	154.2	17,600	16,700	16,000	15,000	135
140	47.2	149.7	16,400	15,700	14,900	14,100	140
145	45.2	144.8	15,300	14,600	14,000	13,200	145
150	43.1	139.5	14,300	13,700	13,100	12,300	150
155	40.9	133.8	13,400	12,800	12,300	11,500	155
160	38.6	127.6	12,500	12,000	11,500	10,800	160
165	36.1	120.9	11,700	11,200	10,800	10,000	165
170	33.5	113.6	10,900	10,500	10,100	9,400	170
175	30.7	105.4	10,200	9,800	9,400	8,700	175
180	27.7	96.2	9,500	9,200	8,800	8,100	180
185	24.3	85.6	8,900	8,500	8,200	7,600	185
190	20.4	73.1	8,200	7,900	7,700	7,000	190
195	15.4	57.0	7,600	7,400	7,100	6,500	195


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb




 206.7 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
38	81.3	210.7	101,600				38
40	80.8	210.4	100,400				40
42	80.2	210.0	99,300	75,200			42
44	79.7	209.6	95,800	74,900	56,100		44
46	79.1	209.2	89,900	74,600	55,800		46
48	78.5	208.8	84,600	74,400	55,700	43,600	48
50	78.0	208.4	79,800	71,700	55,500	43,500	50
55	76.5	207.2	69,700	63,200	55,200	43,200	55
60	75.1	205.9	61,600	56,300	51,600	43,000	60
65	73.7	204.4	55,000	50,500	46,600	42,800	65
70	72.2	202.8	49,400	45,600	42,200	39,200	70
75	70.7	201.1	44,700	41,500	38,500	35,800	75
80	69.3	199.2	40,600	37,800	35,300	32,900	80
85	67.8	197.2	37,100	34,700	32,400	30,300	85
90	66.2	195.0	34,000	31,900	29,900	28,000	90
95	64.7	192.6	31,300	29,400	27,600	25,900	95
100	63.2	190.1	28,900	27,200	25,600	24,100	100
105	61.6	187.4	26,700	25,200	23,700	22,400	105
110	60.0	184.6	24,800	23,400	22,100	20,800	110
115	58.4	181.5	23,000	21,700	20,500	19,400	115
120	56.7	178.2	21,400	20,200	19,100	18,100	120
125	55.0	174.8	19,900	18,800	17,900	16,900	125
130	53.3	171.1	18,500	17,600	16,700	15,800	130
135	51.5	167.1	17,300	16,400	15,600	14,700	135
140	49.7	162.9	16,100	15,300	14,600	13,800	140
145	47.9	158.5	15,100	14,300	13,600	12,900	145
150	45.9	153.7	14,100	13,400	12,700	12,000	150
155	44.0	148.6	13,100	12,500	11,900	11,200	155
160	41.9	143.1	12,200	11,700	11,100	10,500	160
165	39.8	137.2	11,400	10,900	10,400	9,800	165
170	37.5	130.8	10,700	10,200	9,700	9,100	170
175	35.1	123.8	9,900	9,500	9,100	8,500	175
180	32.6	116.2	9,300	8,900	8,500	7,900	180
185	29.9	107.7	8,600	8,200	7,900	7,300	185
190	26.9	98.2	8,000	7,700	7,300	6,800	190
195	23.6	87.3	7,400	7,100	6,800	6,300	195
200	19.7	74.3	6,800	6,600	6,300	5,800	200

MLC165-1 S-2




123,400 lb
+
45,100 lb



 216.5 ft							
ft	°	ft	lb	lb	lb	lb	ft
			0°	1°	2°	3°	
40	81.2	220.3	89,700				40
42	80.7	220.0	88,700	67,400			42
44	80.1	219.6	87,600	67,100			44
46	79.6	219.3	86,700	66,900	49,700		46
48	79.1	218.9	84,300	66,700	49,600		48
50	78.5	218.4	79,600	66,400	49,400	38,400	50
55	77.2	217.3	69,400	62,700	49,000	38,100	55
60	75.8	216.1	61,300	55,700	48,700	37,900	60
65	74.4	214.7	54,700	50,000	45,900	37,700	65
70	73.0	213.2	49,100	45,100	41,600	37,500	70
75	71.6	211.5	44,400	41,000	37,900	35,200	75
80	70.2	209.7	40,300	37,400	34,700	32,300	80
85	68.8	207.8	36,800	34,200	31,900	29,700	85
90	67.4	205.7	33,700	31,400	29,300	27,400	90
95	65.9	203.5	31,000	29,000	27,100	25,400	95
100	64.5	201.1	28,500	26,700	25,100	23,500	100
105	63.0	198.6	26,400	24,800	23,200	21,800	105
110	61.5	195.9	24,400	22,900	21,600	20,300	110
115	60.0	193.0	22,600	21,300	20,100	18,900	115
120	58.4	190.0	21,000	19,800	18,700	17,600	120
125	56.8	186.7	19,500	18,400	17,400	16,400	125
130	55.2	183.3	18,200	17,200	16,200	15,300	130
135	53.6	179.6	16,900	16,000	15,100	14,300	135
140	51.9	175.7	15,800	14,900	14,100	13,300	140
145	50.2	171.6	14,700	13,900	13,200	12,500	145
150	48.4	167.2	13,700	13,000	12,300	11,600	150
155	46.6	162.6	12,800	12,100	11,500	10,800	155
160	44.8	157.6	11,900	11,300	10,700	10,100	160
165	42.8	152.2	11,100	10,500	10,000	9,400	165
170	40.8	146.5	10,300	9,800	9,300	8,700	170
175	38.7	140.4	9,600	9,100	8,600	8,100	175
180	36.5	133.8	8,900	8,500	8,000	7,500	180
185	34.2	126.6	8,300	7,900	7,500	6,900	185
190	31.7	118.7	7,600	7,300	6,900	6,400	190
195	29.1	110.0	7,100	6,700	6,400	5,900	195
200	26.2	100.2	6,500	6,200	5,900	5,400	200
205	22.9	88.9	6,000	5,700	5,400	4,900	205
210	19.1	75.5	5,500	5,200	5,000	4,500	210


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb




 226.4 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
40	81.6	230.3	81,000				40
42	81.1	230.0	80,000				42
44	80.6	229.6	79,100	60,200			44
46	80.1	229.3	78,100	59,900			46
48	79.5	228.9	77,200	59,700	44,100		48
50	79.0	228.5	76,400	59,500	44,000		50
55	77.7	227.4	69,200	58,800	43,600	33,700	55
60	76.4	226.2	61,100	55,300	43,300	33,400	60
65	75.1	224.9	54,400	49,600	42,900	33,200	65
70	73.8	223.5	48,900	44,700	41,100	33,000	70
75	72.5	221.9	44,100	40,600	37,400	32,800	75
80	71.1	220.2	40,100	37,000	34,200	31,700	80
85	69.8	218.4	36,600	33,900	31,400	29,200	85
90	68.4	216.4	33,500	31,100	28,900	26,900	90
95	67.1	214.3	30,700	28,600	26,700	24,900	95
100	65.7	212.0	28,300	26,400	24,700	23,100	100
105	64.3	209.6	26,100	24,400	22,900	21,400	105
110	62.8	207.1	24,200	22,600	21,200	19,900	110
115	61.4	204.4	22,400	21,000	19,700	18,500	115
120	59.9	201.5	20,800	19,500	18,300	17,200	120
125	58.5	198.5	19,300	18,100	17,100	16,000	125
130	57.0	195.2	17,900	16,900	15,900	14,900	130
135	55.4	191.8	16,700	15,700	14,800	13,900	135
140	53.9	188.2	15,500	14,600	13,800	13,000	140
145	52.3	184.3	14,500	13,600	12,900	12,100	145
150	50.6	180.3	13,500	12,700	12,000	11,300	150
155	49.0	176.0	12,500	11,800	11,200	10,500	155
160	47.2	171.4	11,700	11,000	10,400	9,800	160
165	45.5	166.5	10,800	10,200	9,700	9,100	165
170	43.7	161.3	10,100	9,500	9,000	8,500	170
175	41.8	155.8	9,400	8,800	8,300	7,900	175
180	39.8	149.9	8,700	8,200	7,700	7,300	180
185	37.8	143.6	8,000	7,600	7,200	6,700	185
190	35.6	136.7	7,400	7,000	6,600	6,200	190
195	33.4	129.3	6,900	6,500	6,100	5,700	195
200	30.9	121.1	6,300	6,000	5,600	5,200	200
205	28.3	112.1	5,800	5,500	5,100	4,700	205
210	25.5	102.0	5,300	5,000	4,700	4,300	210
215	22.3	90.4	4,700	4,500	4,200	3,900	215
220	18.5	76.6	4,100	4,000	3,700	3,400	220

MLC165-1 S-2




123,400 lb
+ 45,100 lb



 236.2 ft							
ft	°	ft	lb	lb	lb	lb	ft
			0°	1°	2°	3°	
42	81.5	240.0	79,200				42
44	81.0	239.6	79,000				44
46	80.5	239.3	78,900	53,900			46
48	80.0	238.9	78,700	53,800			48
50	79.5	238.5	78,600	53,700	39,400		50
55	78.2	237.5	68,500	53,600	39,300	30,000	55
60	77.0	236.4	60,400	53,400	39,200	30,000	60
65	75.8	235.1	53,700	48,700	39,100	29,900	65
70	74.5	233.7	48,100	43,800	39,000	29,800	70
75	73.2	232.2	43,400	39,700	36,400	29,800	75
80	72.0	230.6	39,300	36,100	33,300	29,800	80
85	70.7	228.9	35,800	33,000	30,500	28,100	85
90	69.4	227.0	32,700	30,200	28,000	25,900	90
95	68.1	225.0	30,000	27,800	25,700	23,900	95
100	66.7	222.8	27,500	25,600	23,700	22,100	100
105	65.4	220.6	25,400	23,600	21,900	20,400	105
110	64.1	218.1	23,400	21,800	20,300	18,900	110
115	62.7	215.6	21,600	20,200	18,800	17,500	115
120	61.3	212.9	20,000	18,700	17,400	16,300	120
125	59.9	210.0	18,500	17,300	16,200	15,100	125
130	58.5	206.9	17,100	16,000	15,000	14,000	130
135	57.1	203.7	15,900	14,900	13,900	13,000	135
140	55.6	200.3	14,700	13,800	12,900	12,100	140
145	54.1	196.7	13,700	12,800	12,000	11,200	145
150	52.6	192.9	12,700	11,900	11,100	10,400	150
155	51.0	188.9	11,700	11,000	10,300	9,600	155
160	49.4	184.7	10,900	10,200	9,500	8,900	160
165	47.8	180.2	10,000	9,400	8,800	8,200	165
170	46.1	175.4	9,300	8,700	8,100	7,600	170
175	44.4	170.4	8,600	8,000	7,500	7,000	175
180	42.6	165.0	7,900	7,400	6,900	6,400	180
185	40.8	159.3	7,200	6,800	6,300	5,900	185
190	38.9	153.2	6,600	6,200	5,800	5,300	190
195	36.9	146.6	6,000	5,600	5,200	4,800	195
200	34.8	139.5	5,400	5,100	4,700	4,300	200
205	32.5	131.9	4,800	4,600	4,100	3,700	205
210	30.2	123.5	4,200	4,000	3,600	3,200	210
215	27.6	114.2	3,600	3,400	3,100		215
220	24.8	103.8	3,100				220


MLC165-1 S-2





 123,400 lb
 +
 45,100 lb



 246.1 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
44	81.3	249.6	71,900				44
46	80.9	249.3	71,700				46
48	80.4	248.9	71,600	48,600			48
50	79.9	248.6	71,400	48,500			50
55	78.7	247.6	68,200	48,300	35,100		55
60	77.5	246.5	60,100	48,100	35,000	26,500	60
65	76.3	245.3	53,400	47,900	34,900	26,400	65
70	75.1	243.9	47,800	43,400	34,800	26,400	70
75	73.9	242.5	43,100	39,300	34,700	26,300	75
80	72.7	241.0	39,000	35,700	32,700	26,200	80
85	71.5	239.3	35,500	32,600	29,900	26,200	85
90	70.2	237.5	32,400	29,800	27,500	25,300	90
95	69.0	235.6	29,700	27,400	25,300	23,400	95
100	67.7	233.6	27,200	25,200	23,300	21,500	100
105	66.5	231.4	25,000	23,200	21,500	19,900	105
110	65.2	229.1	23,100	21,400	19,900	18,400	110
115	63.9	226.6	21,300	19,800	18,400	17,000	115
120	62.6	224.1	19,700	18,300	17,000	15,800	120
125	61.3	221.3	18,200	16,900	15,700	14,600	125
130	59.9	218.5	16,800	15,700	14,600	13,500	130
135	58.5	215.4	15,600	14,500	13,500	12,500	135
140	57.2	212.2	14,400	13,400	12,500	11,600	140
145	55.8	208.8	13,300	12,400	11,600	10,700	145
150	54.3	205.3	12,300	11,500	10,700	9,900	150
155	52.9	201.5	11,400	10,600	9,900	9,200	155
160	51.4	197.5	10,500	9,800	9,100	8,500	160
165	49.9	193.4	9,700	9,000	8,400	7,800	165
170	48.3	189.0	9,000	8,300	7,700	7,200	170
175	46.7	184.3	8,200	7,700	7,100	6,600	175
180	45.1	179.4	7,600	7,000	6,500	6,000	180
185	43.4	174.1	6,900	6,400	5,900	5,400	185
190	41.7	168.6	6,300	5,800	5,400	4,900	190
195	39.9	162.7	5,600	5,300	4,800	4,300	195
200	38.0	156.3	4,900	4,700	4,200	3,700	200
205	36.0	149.6	4,300	4,100	3,600	3,200	205
210	34.0	142.3	3,700	3,500	3,100		210
215	31.8	134.4	3,200	3,000			215


MLC165-1 S-2





123,400 lb
+ 45,100 lb



 255.9 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
44	81.7	259.6	65,500				44
46	81.2	259.3	65,400				46
48	80.8	258.9	65,200				48
50	80.3	258.6	65,000	43,800			50
55	79.2	257.6	64,600	43,600	31,300		55
60	78.0	256.6	59,800	43,400	31,200	23,300	60
65	76.9	255.4	53,100	43,200	31,100	23,200	65
70	75.7	254.1	47,500	42,900	31,000	23,100	70
75	74.6	252.8	42,800	38,800	30,900	23,100	75
80	73.4	251.3	38,700	35,200	30,800	23,000	80
85	72.2	249.7	35,100	32,100	29,400	22,900	85
90	71.0	248.0	32,000	29,400	26,900	22,900	90
95	69.8	246.1	29,300	26,900	24,800	22,800	95
100	68.6	244.2	26,900	24,700	22,800	21,000	100
105	67.4	242.1	24,700	22,800	21,000	19,400	105
110	66.2	239.9	22,700	21,000	19,400	17,900	110
115	65.0	237.6	20,900	19,300	17,900	16,500	115
120	63.7	235.2	19,300	17,900	16,500	15,300	120
125	62.5	232.6	17,800	16,500	15,300	14,100	125
130	61.2	229.8	16,400	15,200	14,100	13,000	130
135	59.9	226.9	15,200	14,100	13,000	12,000	135
140	58.6	223.9	14,000	13,000	12,000	11,100	140
145	57.3	220.7	13,000	12,000	11,100	10,300	145
150	55.9	217.3	12,000	11,100	10,200	9,500	150
155	54.5	213.8	11,000	10,200	9,400	8,700	155
160	53.1	210.1	10,200	9,400	8,700	8,000	160
165	51.7	206.2	9,300	8,600	8,000	7,300	165
170	50.3	202.0	8,600	7,900	7,300	6,700	170
175	48.8	197.7	7,900	7,200	6,700	6,100	175
180	47.3	193.1	7,200	6,600	6,100	5,500	180
185	45.7	188.3	6,400	6,000	5,500	4,900	185
190	44.1	183.2	5,700	5,400	4,800	4,200	190
195	42.5	177.8	5,000	4,800	4,200	3,600	195
200	40.8	172.0	4,400	4,100	3,600	3,100	200
205	39.0	165.9	3,800	3,500	3,000		205
210	37.2	159.4	3,200	3,000			210

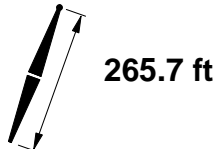
MLC165-1 S-2





 123,400 lb
 +
 45,100 lb




 265.7 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
46	81.5	269.2	60,600				46
48	81.1	268.9	60,500				48
50	80.7	268.6	60,400	40,200			50
55	79.6	267.6	60,000	40,000	28,400		55
60	78.5	266.6	59,500	39,900	28,300	20,900	60
65	77.4	265.5	52,800	39,700	28,200	20,900	65
70	76.3	264.3	47,200	39,600	28,200	20,700	70
75	75.1	263.0	42,400	38,300	28,100	20,700	75
80	74.0	261.6	38,400	34,800	28,100	20,700	80
85	72.9	260.0	34,800	31,700	28,000	20,600	85
90	71.8	258.4	31,700	29,000	26,500	20,600	90
95	70.6	256.6	29,000	26,500	24,300	20,500	95
100	69.5	254.8	26,600	24,300	22,300	20,500	100
105	68.3	252.8	24,400	22,400	20,600	18,900	105
110	67.1	250.7	22,400	20,600	18,900	17,400	110
115	66.0	248.5	20,600	19,000	17,500	16,100	115
120	64.8	246.1	19,000	17,500	16,100	14,800	120
125	63.6	243.7	17,500	16,100	14,900	13,700	125
130	62.3	241.0	16,100	14,900	13,700	12,600	130
135	61.1	238.3	14,900	13,700	12,700	11,600	135
140	59.9	235.4	13,700	12,700	11,700	10,700	140
145	58.6	232.4	12,700	11,700	10,700	9,900	145
150	57.3	229.2	11,700	10,700	9,900	9,100	150
155	56.0	225.8	10,700	9,900	9,100	8,300	155
160	54.7	222.3	9,900	9,100	8,300	7,600	160
165	53.4	218.6	9,000	8,300	7,600	6,900	165
170	52.0	214.8	8,300	7,600	6,900	6,300	170
175	50.6	210.7	7,500	6,900	6,300	5,700	175
180	49.2	206.4	6,700	6,300	5,700	5,000	180
185	47.8	201.9	6,000	5,700	5,000	4,300	185
190	46.3	197.2	5,300	5,000	4,400	3,700	190
195	44.7	192.2	4,600	4,300	3,700	3,200	195
200	43.2	186.9	4,000	3,700	3,100		200
205	41.6	181.3	3,300	3,100			205

MLC165-1 S-2




123,400 lb
 +
45,100 lb



 275.6 ft			
ft	°	ft	lb
48	81.4	278.9	54,900
50	81.0	278.5	54,800
55	79.9	277.7	54,400
60	78.9	276.7	54,100
65	77.8	275.6	52,500
70	76.8	274.4	46,900
75	75.7	273.2	42,100
80	74.6	271.8	38,000
85	73.5	270.3	34,500
90	72.4	268.8	31,400
95	71.3	267.1	28,600
100	70.2	265.3	26,200
105	69.1	263.4	24,000
110	68.0	261.4	22,000
115	66.9	259.2	20,200
120	65.7	257.0	18,600
125	64.6	254.6	17,100
130	63.4	252.2	15,800
135	62.2	249.5	14,500
140	61.1	246.8	13,400
145	59.9	243.9	12,300
150	58.6	240.9	11,300
155	57.4	237.7	10,300
160	56.2	234.4	9,500
165	54.9	230.9	8,700
170	53.6	227.2	7,800
175	52.3	223.4	7,000
180	51.0	219.3	6,200
185	49.6	215.1	5,400
190	48.2	210.7	4,700
195	46.8	206.0	4,000
200	45.3	201.1	3,400

REFERENCE ONLY!