

Liftcrane Boom Capacities

Boom No. B10:680

440,900 lb VPC (Variable Position Counterweight)

Crawler Machine on a Barge

0 Degree thru 3 Degree Static Machine List

No Travel - 360 Degree Rating - Three Swing Drives

MLC650 SERIES 1



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. 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 12,000 lb minimum weight suspended beneath boom point and (c) require 24,000 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 and uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging **No. 81018141**, Wire Rope Specifications chart **No. 9359-A**, Counterweight Arrangements chart **No. 9349-A**, and Wind Conditions chart **No. 9358-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 the Operator 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 three swing drives, 36 ft 6 in. crawlers, 60 in. or 80 in. treads, 36 ft 1 in. live mast, 30 part boom hoist reeving, boom support straps, and 440,900 lb VPC.

Warning: Luffing jib backstay straps must be removed before use of this chart. *Crane tipping or structural damage can occur.*

Consult chart **No. 9672-A** when Jib No. 148 is attached.

Deduct From Capacities When Jib No. 148 Is Attached	
Jib Length (ft)	Deduct (lb)
39.4	18,800
59.1	23,500
78.7	29,400
98.4	35,300
118.1	42,500
137.8	48,100
Weight of jib and 6,500 lb suspended beneath jib point have been included in determination of deduct.	

Refer to Tables 1 and 2 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 barge deck until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

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

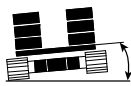
Table 1

Over End or Side of Crawlers				
Boom Length (ft)	Machine List			
	0°	1°	2°	3°
	Block Weight (lb)			
105.0 - 164.0	46,500	46,500	46,500	46,500
183.7	46,500	22,600	22,600	22,600
203.4	22,600	22,600	22,600	22,600
223.1	16,200	16,200	16,200	16,200
242.8	#	#	#	#
262.5	Raising Not Permitted			

Table 2

Over End of Blocked Crawlers				
Boom Length (ft)	Machine List			
	0°	1°	2°	3°
	Block Weight (lb)			
105.0 - 164.0	46,500	46,500	46,500	46,500
183.7	46,500	22,600	22,600	22,600
203.4	22,600	22,600	22,600	22,600
223.1	16,200	16,200	16,200	16,200
242.8	16,200	16,200	16,200	16,200
262.5	#	#	#	#
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. B10:680
	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)
	Machine List
	Lifting Capacities (see page 1)

MLC650 S-1



B10



440,900 lb



360°

ft	°	ft	lb	lb	lb	lb	ft
19	84.9	114.4	1,239,600 ^c				19
20	84.3	114.2	1,190,600 ^c				20
22	83.2	113.9	1,103,200 ^c				22
24	82.1	113.6	1,027,600 ^b	945,100 ^c			24
26	81.0	113.2	961,400 ^b	888,300 ^b	823,800 ^c		26
28	79.9	112.8	903,100 ^b	837,700 ^b	779,600 ^c	726,500 ^c	28
30	78.8	112.3	851,300 ^b	792,500 ^b	739,800 ^b	661,100 ^c	30
32	77.7	111.8	805,000	751,800 ^b	679,700 ^b	606,300 ^b	32
34	76.5	111.2	763,300	697,700	623,300	559,700 ^b	34
36	75.4	110.6	713,800	639,600	575,300	519,700	36
38	74.2	110.0	654,300	590,300	534,100	485,000	38
40	73.1	109.3	603,700	547,900	498,300	454,500	40
45	70.2	107.4	505,400	464,100	426,500	392,600	45
50	67.2	105.2	434,000	402,100	372,400	345,200	50
55	64.1	102.7	379,900	354,300	330,200	307,900	55
60	61.0	99.8	337,300	316,400	296,400	277,700	60
65	57.7	96.5	303,100	285,600	268,800	252,900	65
70	54.3	92.8	274,900	260,100	245,700	232,000	70
75	50.8	88.6	251,300	238,600	226,200	214,400	75
80	47.0	83.8	231,200	220,300	209,500	199,200	80
85	43.0	78.4	213,900	204,500	195,100	186,000	85
90	38.6	72.0	198,900	190,800	182,600	174,600	90
95	33.6	64.5	183,600	178,700	171,600	164,600	95
100	27.9	55.2	168,800	164,700	160,700	155,900	100
105	20.4	42.5	155,200	152,100	148,800	145,700	105

MLC650 S-1



22	84.3	133.8	1,084,500 ^c				22
24	83.4	133.5	1,011,800 ^b	917,100 ^c			24
26	82.4	133.2	948,100 ^b	863,800 ^b	791,500 ^c		26
28	81.5	132.8	891,700	816,200 ^b	750,800 ^b	693,600 ^c	28
30	80.6	132.4	841,500	773,400	714,000 ^b	634,200 ^c	30
32	79.6	132.0	796,500	734,800	664,100 ^b	583,800 ^b	32
34	78.7	131.6	755,900	694,300	610,500	540,600 ^b	34
36	77.8	131.1	719,200	637,300	564,700	503,300	36
38	76.8	130.5	663,300	588,900	525,200	470,700	38
40	75.8	130.0	612,200	547,100	490,800	442,100	40
45	73.4	128.4	512,700	464,400	421,400	383,400	45
50	71.0	126.6	440,400	402,900	368,900	338,200	50
55	68.5	124.5	385,600	355,500	327,700	302,400	55
60	66.0	122.2	342,600	317,800	294,600	273,300	60
65	63.4	119.6	307,900	287,100	267,400	249,200	65
70	60.7	116.7	279,300	261,600	244,700	228,900	70
75	58.0	113.5	255,400	240,200	225,500	211,600	75
80	55.2	109.9	235,100	221,800	209,000	196,700	80
85	52.3	106.0	217,600	206,000	194,600	183,800	85
90	49.2	101.5	200,800	192,200	182,100	172,400	90
95	46.0	96.6	184,400	177,800	171,100	162,400	95
100	42.5	91.1	169,800	164,100	158,500	153,200	100
105	38.9	84.8	156,700	151,800	147,000	142,300	105
110	34.8	77.6	144,900	140,700	136,500	132,400	110
115	30.3	69.1	134,200	130,600	127,000	123,400	115
120	25.0	58.6	124,300	121,300	118,300	115,300	120
125	18.0	44.4	115,100	112,700	110,200	107,800	125

B10



440,900 lb



360°

ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
24	84.3	153.4	993,000 ^b				24
26	83.5	153.1	931,900	837,000 ^b			26
28	82.7	152.8	877,600	792,500 ^b			28
30	81.9	152.5	829,100	752,200	720,600 ^b	607,200 ^c	30
32	81.1	152.1	785,600	715,700	686,700 ^b	560,700 ^b	32
34	80.3	151.7	746,200	682,500	595,800	520,700 ^b	34
36	79.5	151.3	710,500	632,400	552,200	485,900	36
38	78.6	150.8	669,400	584,900	514,400	455,300	38
40	77.8	150.3	617,700	543,900	481,400	428,400	40
45	75.8	149.0	517,300	462,300	414,400	372,800	45
50	73.7	147.5	444,400	401,600	363,500	329,800	50
55	71.6	145.7	389,000	354,700	323,500	295,500	55
60	69.5	143.8	345,600	317,200	291,100	267,400	60
65	67.3	141.6	310,600	286,700	264,500	244,100	65
70	65.1	139.2	281,800	261,400	242,200	224,500	70
75	62.9	136.6	257,700	240,000	223,300	207,600	75
80	60.6	133.7	237,200	221,700	207,000	193,100	80
85	58.2	130.5	219,200	205,900	192,800	180,400	85
90	55.8	127.0	200,600	191,500	180,400	169,300	90
95	53.3	123.2	184,100	176,200	168,600	159,400	95
100	50.7	119.0	169,600	162,700	155,900	149,500	100
105	48.0	114.4	156,600	150,500	144,500	138,800	105
110	45.2	109.4	144,900	139,500	134,300	129,200	110
115	42.2	103.8	134,300	129,600	124,900	120,400	115
120	39.1	97.6	124,700	120,500	116,400	112,300	120
125	35.7	90.6	115,900	112,200	108,500	105,000	125
130	31.9	82.6	107,800	104,600	101,300	98,200	130
135	27.7	73.2	100,300	97,500	94,700	91,900	135
140	22.7	61.6	93,300	90,900	88,400	86,100	140
145	16.1	45.7	86,600	84,600	82,600	80,700	145

MLC650 S-1



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
24	85.0	173.2	973,300				24
26	84.3	173.0	915,100				26
28	83.6	172.7	863,200	768,200			28
30	82.9	172.4	816,700	730,700	659,300 ^b		30
32	82.2	172.1	774,700	696,500	630,900		32
34	81.4	171.7	736,700	665,200	583,300	503,000 ^b	34
36	80.7	171.4	702,200	629,400	541,600	470,500	36
38	80.0	171.0	670,600	582,700	505,400	441,800	38
40	79.3	170.6	625,500	542,300	473,600	416,300	40
45	77.5	169.4	523,900	461,900	408,900	363,700	45
50	75.7	168.0	450,100	401,800	359,500	322,600	50
55	73.9	166.5	394,100	355,200	320,400	289,700	55
60	72.0	164.8	350,200	318,000	288,800	262,700	60
65	70.2	163.0	314,800	287,600	262,700	240,100	65
70	68.3	160.9	285,600	262,400	240,800	221,100	70
75	66.4	158.6	261,200	241,000	222,100	204,700	75
80	64.4	156.2	239,200	222,800	206,000	190,500	80
85	62.5	153.5	217,700	205,700	192,000	178,100	85
90	60.4	150.6	199,000	188,500	178,600	167,200	90
95	58.4	147.4	182,500	173,400	164,600	156,400	95
100	56.3	144.0	168,000	159,900	152,100	144,800	100
105	54.1	140.3	155,000	147,800	140,900	134,300	105
110	51.8	136.3	143,300	136,900	130,800	124,900	110
115	49.5	132.0	132,800	127,100	121,600	116,200	115
120	47.1	127.3	123,200	118,100	113,100	108,300	120
125	44.6	122.2	114,500	109,900	105,400	101,100	125
130	42.0	116.6	106,500	102,400	98,300	94,400	130
135	39.2	110.4	99,100	95,400	91,800	88,200	135
140	36.3	103.5	92,200	88,900	85,700	82,500	140
145	33.1	95.8	85,900	82,900	80,000	77,100	145
150	29.6	87.1	79,900	77,300	74,700	72,200	150
155	25.6	76.8	74,400	72,100	69,800	67,500	155
160	20.8	64.1	69,100	67,100	65,100	63,100	160

B10



440,900 lb



360°

ft	°	ft	lb	lb	lb	lb	lb	ft
26	84.9	192.8	898,500					26
28	84.3	192.6	848,900					28
30	83.6	192.3	804,200	709,700				30
32	83.0	192.0	763,800	677,600	607,000			32
34	82.4	191.7	727,200	648,100	571,300			34
36	81.7	191.4	693,700	621,000	531,400	455,700		36
38	81.1	191.0	663,100	580,700	496,600	428,700		38
40	80.5	190.6	633,700	541,000	466,000	404,700		40
45	78.9	189.6	530,800	461,500	403,500	354,700		45
50	77.3	188.4	456,100	402,000	355,500	315,500		50
55	75.7	187.1	399,400	355,700	317,400	283,900		55
60	74.0	185.6	354,900	318,700	286,500	257,900		60
65	72.4	183.9	319,100	288,500	260,800	236,100		65
70	70.7	182.1	289,600	263,300	239,300	217,600		70
75	69.1	180.2	261,900	242,000	220,900	201,700		75
80	67.4	178.0	236,800	221,300	205,100	187,900		80
85	65.6	175.7	215,300	201,800	189,300	175,800		85
90	63.9	173.2	196,500	184,800	173,700	163,500		90
95	62.1	170.5	180,100	169,700	160,000	150,800		95
100	60.3	167.5	165,500	156,300	147,600	139,500		100
105	58.5	164.4	152,500	144,300	136,500	129,200		105
110	56.6	161.1	140,800	133,500	126,500	119,900		110
115	54.7	157.5	130,300	123,700	117,400	111,400		115
120	52.7	153.6	120,700	114,800	109,100	103,700		120
125	50.7	149.4	112,000	106,700	101,500	96,500		125
130	48.6	145.0	104,000	99,200	94,500	90,000		130
135	46.4	140.1	96,700	92,300	88,000	83,900		135
140	44.2	134.9	89,900	85,900	82,000	78,200		140
145	41.8	129.3	83,600	80,000	76,400	73,000		145
150	39.4	123.1	77,700	74,400	71,200	68,100		150
155	36.8	116.4	72,300	69,300	66,300	63,500		155
160	34.0	109.0	67,100	64,400	61,800	59,100		160
165	30.9	100.7	62,300	59,900	57,500	55,100		165
170	27.6	91.2	57,800	55,600	53,400	51,300		170
175	23.8	80.1	53,400	51,500	49,600	47,700		175
180	19.2	66.4	49,300	47,600	45,900	44,300		180

MLC650 S-1



ft	°	ft	lb	lb	lb	lb	ft
28	84.8	212.4	831,500				28
30	84.3	212.1	789,100				30
32	83.7	211.9	750,700	656,300			32
34	83.1	211.6	715,600	628,900			34
36	82.5	211.3	683,500	603,600	521,000		36
38	82.0	211.0	654,000	578,200	487,600	415,700	38
40	81.4	210.7	626,900	539,100	458,100	393,000	40
45	80.0	209.7	537,400	460,700	397,700	345,600	45
50	78.5	208.6	461,800	401,800	351,100	308,200	50
55	77.1	207.4	404,500	355,900	314,000	277,900	55
60	75.6	206.1	359,500	319,200	283,800	252,800	60
65	74.2	204.6	323,200	289,100	258,700	231,800	65
70	72.7	203.0	289,100	264,000	237,600	213,900	70
75	71.2	201.3	259,600	239,600	219,500	198,500	75
80	69.7	199.4	234,500	217,300	201,600	185,100	80
85	68.2	197.3	212,800	197,900	184,200	171,700	85
90	66.6	195.1	194,000	181,000	168,900	157,800	90
95	65.1	192.7	177,500	166,000	155,300	145,300	95
100	63.5	190.1	162,900	152,700	143,100	134,200	100
105	61.9	187.4	149,900	140,800	132,200	124,100	105
110	60.2	184.5	138,200	130,000	122,300	115,000	110
115	58.6	181.4	127,700	120,300	113,300	106,700	115
120	56.9	178.1	118,100	111,400	105,100	99,000	120
125	55.2	174.5	109,400	103,300	97,500	92,000	125
130	53.4	170.8	101,400	95,900	90,600	85,500	130
135	51.6	166.7	94,000	89,000	84,200	79,500	135
140	49.7	162.4	87,200	82,700	78,200	73,900	140
145	47.8	157.9	81,000	76,800	72,700	68,800	145
150	45.9	153.0	75,100	71,300	67,500	63,900	150
155	43.8	147.7	69,700	66,200	62,700	59,400	155
160	41.7	142.0	64,600	61,400	58,200	55,100	160
165	39.5	135.9	59,900	56,900	54,000	51,100	165
170	37.1	129.3	55,400	52,700	50,000	47,400	170
175	34.6	122.0	51,200	48,700	46,200	43,800	175
180	32.0	114.0	47,200	44,900	42,700	40,500	180
185	29.1	105.1	43,400	41,400	39,300	37,300	185
190	25.9	94.9	39,800	38,000	36,100	34,300	190
195	22.3	83.0	36,300	34,700	33,000	31,400	195
200	17.9	68.3	33,000	31,600	30,100	28,700	200

B10



440,900 lb



360°

ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
30	84.8	232.0	769,000				30	
32	84.2	231.7	732,700				32	
34	83.7	231.5	699,600	606,400			34	
36	83.2	231.2	669,100	583,000			36	
38	82.7	230.9	641,000	561,200	476,000		38	
40	82.2	230.6	615,000	533,300	447,700		40	
45	80.9	229.8	539,200	456,300	389,500	335,100	45	
50	79.6	228.8	463,200	398,300	344,400	299,400	50	
55	78.2	227.7	405,600	353,000	308,400	270,300	55	
60	76.9	226.5	360,300	316,700	278,900	246,200	60	
65	75.6	225.1	323,800	286,900	254,400	226,000	65	
70	74.3	223.7	289,300	262,100	233,700	208,600	70	
75	72.9	222.1	259,700	237,900	216,000	193,700	75	
80	71.6	220.4	234,500	215,700	198,800	180,600	80	
85	70.2	218.5	212,800	196,500	181,700	168,200	85	
90	68.8	216.5	194,000	179,700	166,600	154,600	90	
95	67.4	214.4	177,400	164,800	153,200	142,400	95	
100	66.0	212.1	162,800	151,600	141,200	131,500	100	
105	64.6	209.7	149,700	139,700	130,300	121,600	105	
110	63.1	207.1	138,000	129,000	120,600	112,600	110	
115	61.7	204.4	127,500	119,300	111,600	104,400	115	
120	60.2	201.5	117,900	110,500	103,500	96,900	120	
125	58.7	198.4	109,100	102,400	96,100	90,000	125	
130	57.1	195.1	101,200	95,000	89,200	83,600	130	
135	55.6	191.6	93,800	88,200	82,800	77,700	135	
140	54.0	187.9	87,000	81,900	77,000	72,200	140	
145	52.3	184.0	80,800	76,100	71,500	67,100	145	
150	50.7	179.8	75,000	70,600	66,400	62,400	150	
155	49.0	175.4	69,500	65,500	61,600	57,900	155	
160	47.2	170.7	64,500	60,800	57,200	53,700	160	
165	45.4	165.8	59,700	56,300	53,000	49,800	165	
170	43.5	160.5	55,300	52,100	49,000	46,000	170	
175	41.6	154.8	51,100	48,200	45,300	42,500	175	
180	39.5	148.7	47,200	44,500	41,800	39,200	180	
185	37.4	142.1	43,400	41,000	38,500	36,100	185	
190	35.2	135.0	39,900	37,600	35,300	33,100	190	
195	32.8	127.2	36,600	34,400	32,300	30,300	195	
200	30.3	118.7	33,400	31,400	29,500	27,600	200	
205	27.5	109.2	30,300	28,500	26,800	25,000	205	
210	24.5	98.4	27,400	25,800	24,100	22,600	210	
215	21.0	85.7	24,500	23,100	21,600	20,200	215	
220	16.7	70.0	21,800	20,500	19,200	18,000	220	

MLC650 S-1



ft	°	ft	lb	lb	lb	lb	ft
32	84.7	251.5	716,300				32
34	84.2	251.3	684,900				34
36	83.8	251.1	656,100	563,400			36
38	83.3	250.8	629,400	543,300			38
40	82.8	250.5	604,600	524,400	439,900		40
45	81.6	249.7	545,500	455,100	383,600	326,100	45
50	80.4	248.8	468,700	397,700	339,800	292,000	50
55	79.2	247.8	410,400	352,800	304,700	264,200	55
60	78.0	246.7	364,600	316,800	276,000	241,000	60
65	76.8	245.5	322,200	287,200	252,000	221,500	65
70	75.6	244.2	286,700	259,000	231,700	204,700	70
75	74.3	242.7	257,000	233,400	212,500	190,200	75
80	73.1	241.2	231,700	211,400	193,200	177,000	80
85	71.9	239.5	210,000	192,300	176,400	162,000	85
90	70.6	237.7	191,100	175,600	161,500	148,700	90
95	69.3	235.8	174,500	160,800	148,200	136,800	95
100	68.1	233.7	159,800	147,600	136,400	126,000	100
105	66.8	231.5	146,700	135,800	125,700	116,300	105
110	65.5	229.2	135,000	125,200	116,000	107,500	110
115	64.2	226.7	124,400	115,500	107,200	99,400	115
120	62.8	224.1	114,800	106,700	99,100	92,000	120
125	61.5	221.3	106,000	98,700	91,700	85,200	125
130	60.1	218.4	98,000	91,300	84,900	78,900	130
135	58.7	215.3	90,700	84,500	78,600	73,100	135
140	57.3	212.1	83,900	78,200	72,800	67,700	140
145	55.9	208.6	77,600	72,400	67,400	62,600	145
150	54.4	205.0	71,800	67,000	62,300	57,900	150
155	53.0	201.2	66,400	61,900	57,600	53,500	155
160	51.4	197.1	61,300	57,200	53,200	49,300	160
165	49.9	192.9	56,600	52,800	49,000	45,400	165
170	48.3	188.4	52,100	48,600	45,100	41,800	170
175	46.7	183.6	48,000	44,700	41,400	38,300	175
180	45.0	178.6	44,000	41,000	38,000	35,000	180
185	43.3	173.2	40,300	37,500	34,700	31,900	185
190	41.5	167.5	36,800	34,200	31,500	29,000	190
195	39.6	161.4	33,500	31,000	28,600	26,200	195
200	37.7	154.9	30,300	28,000	25,800	23,500	200
205	35.7	147.9	27,300	25,200	23,100	21,000	205
210	33.5	140.4	24,500	22,500	20,500	18,600	210
215	31.2	132.1	21,700	19,900	18,100		215
220	28.8	123.1	19,100	17,400			220

B10



440,900 lb



360°

ft	°	ft	lb	lb	lb	lb	lb	ft
34	84.7	271.1	673,600					34
36	84.2	270.9	645,900					36
38	83.8	270.6	620,200	517,700				38
40	83.4	270.4	596,400	511,400				40
45	82.3	269.7	543,500	452,800	377,200			45
50	81.1	268.8	472,700	396,200	334,700	284,600		50
55	80.0	267.9	414,000	351,800	300,600	257,900		55
60	78.9	266.9	364,400	316,100	272,500	235,700		60
65	77.8	265.8	321,100	285,600	249,100	216,800		65
70	76.7	264.6	285,600	255,700	229,300	200,600		70
75	75.6	263.2	255,800	230,400	208,200	186,600		75
80	74.4	261.8	230,400	208,600	189,200	172,100		80
85	73.3	260.2	208,600	189,600	172,600	157,400		85
90	72.1	258.6	189,700	173,000	157,900	144,400		90
95	71.0	256.8	173,000	158,300	144,800	132,700		95
100	69.8	254.9	158,300	145,200	133,100	122,200		100
105	68.6	252.9	145,200	133,400	122,600	112,600		105
110	67.4	250.8	133,400	122,800	113,000	103,900		110
115	66.2	248.6	122,800	113,200	104,300	96,000		115
120	65.0	246.2	113,200	104,500	96,300	88,700		120
125	63.8	243.7	104,400	96,500	89,000	82,000		125
130	62.6	241.1	96,400	89,100	82,200	75,800		130
135	61.3	238.3	89,000	82,300	76,000	70,000		135
140	60.1	235.4	82,300	76,100	70,200	64,700		140
145	58.8	232.3	76,000	70,300	64,800	59,700		145
150	57.5	229.0	70,100	64,900	59,800	55,100		150
155	56.2	225.7	64,700	59,800	55,100	50,700		155
160	54.8	222.1	59,700	55,100	50,800	46,600		160
165	53.5	218.3	54,900	50,700	46,600	42,700		165
170	52.1	214.4	50,500	46,600	42,800	39,100		170
175	50.7	210.2	46,300	42,700	39,100	35,700		175
180	49.2	205.9	42,400	39,000	35,700	32,500		180
185	47.7	201.3	38,700	35,500	32,400	29,400		185
190	46.2	196.5	35,200	32,200	29,300	26,500		190
195	44.7	191.4	31,900	29,100	26,400	23,700		195
200	43.0	186.0	28,800	26,200	23,600	21,100		200
205	41.4	180.3	25,800	23,300	20,900	18,600		205
210	39.7	174.2	22,900	20,600	18,400			210
215	37.9	167.7	20,200	18,100				215
220	36.0	160.8	17,600					220