

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

888 SERIES 1

Boom No. 22EL
109,100 Lb. Counterweight
360 Degree Rating

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*). Capacities indicated by (b) require 12,500 Lb. minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. 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 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 in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. 177156** or **No. 177353** and Wire Rope Specification chart **No. 7810-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 operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 7808-A**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle 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 28 Ft. 2 in. extendible crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, four 1-3/8 in. boom pendants and 109,100 Lb. counterweight.

Maximum Boom Lengths Lifted Unassisted			
Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Extended Crawlers	Over Side of Retracted Crawlers
Boom Length	Boom Length	Boom Length	Boom Length
210 Ft.	210 Ft.	190 Ft.	180 Ft.
Load block, hook and weight ball on ground at start.			



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
70 Ft. BOOM				
16	82.8	77.2	380,800 *b	380,800 *b
17	82.0	77.1	348,000 b	359,700 *b
18	81.1	76.9	310,600 b	340,700 *b
19	80.3	76.7	280,200 b	323,500 *b
20	79.5	76.5	255,100 b	307,900 *b
22	77.8	76.0	215,800 b	275,900 b
24	76.1	75.5	186,600 b	234,600 b
26	74.4	74.9	163,900	203,600
28	72.7	74.2	145,900	179,500
30	70.9	73.5	131,200	160,200
32	69.2	72.7	118,900	144,400
34	67.4	71.8	108,600	131,200
36	65.6	70.9	99,800	120,000
38	63.7	69.8	92,100	110,500
40	61.9	68.7	85,400	102,200
42	60.0	67.5	79,500	94,900
44	58.0	66.2	74,300	88,500
46	56.0	64.9	69,600	82,800
48	54.0	63.4	65,300	77,700
50	51.9	61.7	61,500	73,100
55	46.3	57.1	53,300	63,300
60	40.1	51.4	46,700	55,500
65	32.9	44.2	41,200	49,000
70	23.7	34.1	36,500	43,500
80 Ft. BOOM				
17	83.0	87.2	349,000 b	358,900 *b
18	82.3	87.0	311,500 b	339,900 *b
19	81.5	86.9	281,000 b	322,800 *b
20	80.8	86.7	255,800 b	307,200 *b
22	79.3	86.3	216,300 b	276,700 b
24	77.9	85.8	187,000 b	235,200 b
26	76.4	85.3	164,200	204,100
28	74.9	84.7	146,100	179,900
30	73.4	84.1	131,300	160,500
32	71.9	83.4	119,100	144,600
34	70.4	82.7	108,700	131,400
36	68.8	81.9	99,800	120,200
38	67.3	81.0	92,100	110,600
40	65.7	80.0	85,400	102,300
42	64.1	79.0	79,500	95,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
80 Ft. BOOM				
44	62.4	78.0	74,200	88,600
46	60.8	76.8	69,500	82,800
48	59.1	75.6	65,300	77,700
50	57.4	74.3	61,400	73,100
55	52.9	70.6	53,300	63,300
60	48.2	66.2	46,700	55,500
65	43.0	61.0	41,200	49,100
70	37.3	54.8	36,600	43,700
75	30.6	46.9	32,600	39,100
80	22.0	36.0	29,100	35,000
90 Ft. BOOM				
19	82.5	97.0	281,700 b	322,300 *b
20	81.8	96.8	256,400 b	306,700 *b
22	80.5	96.5	216,800 b	277,500 b
24	79.2	96.1	187,300 b	235,800 b
26	77.9	95.6	164,500	204,600
28	76.6	95.1	146,400	180,300
30	75.3	94.6	131,500	160,800
32	74.0	94.0	119,200	144,900
34	72.6	93.3	108,800	131,600
36	71.3	92.6	99,900	120,400
38	69.9	91.8	92,200	110,800
40	68.6	91.0	85,500	102,400
42	67.2	90.1	79,500	95,100
44	65.8	89.2	74,200	88,700
46	64.3	88.2	69,500	82,900
48	62.9	87.2	65,300	77,800
50	61.4	86.0	61,400	73,200
55	57.7	82.9	53,300	63,400
60	53.8	79.3	46,700	55,500
65	49.6	75.2	41,200	49,100
70	45.2	70.4	36,600	43,700
75	40.4	64.7	32,700	39,200
80	35.0	57.9	29,300	35,200
85	28.7	49.4	26,300	31,700
90	20.7	37.7	23,600	28,700



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
100 Ft. BOOM				
20	82.7	107.0	256,800 b	306,400 *b
22	81.5	106.6	217,100 b	278,000 b
24	80.3	106.3	187,600 b	236,200 b
26	79.2	105.9	164,700	204,900
28	78.0	105.4	146,500	180,600
30	76.8	104.9	131,700	161,100
32	75.6	104.4	119,300	145,100
34	74.4	103.8	108,900	131,800
36	73.2	103.2	100,000	120,600
38	72.0	102.5	92,300	110,900
40	70.8	101.8	85,500	102,600
42	69.6	101.0	79,600	95,200
44	68.3	100.2	74,300	88,800
46	67.1	99.3	69,600	83,000
48	65.8	98.4	65,300	77,900
50	64.6	97.4	61,500	73,300
55	61.3	94.7	53,300	63,500
60	57.9	91.6	46,700	55,600
65	54.4	88.1	41,300	49,200
70	50.8	84.1	36,700	43,800
75	46.9	79.5	32,800	39,300
80	42.7	74.3	29,400	35,400
85	38.2	68.1	26,400	31,900
90	33.1	60.8	23,800	28,900
95	27.2	51.7	21,500	26,200
100	19.5	39.4	19,300	23,800
110 Ft. BOOM				
22	82.3	116.8	217,400	278,500 *
24	81.2	116.4	187,800	236,600
26	80.2	116.1	164,900	205,200
28	79.1	115.7	146,600	180,800
30	78.0	115.2	131,700	161,200
32	77.0	114.7	119,300	145,200
34	75.9	114.2	108,900	131,900
36	74.8	113.6	99,900	120,600
38	73.7	113.0	92,200	110,900
40	72.6	112.4	85,400	102,500
42	71.5	111.7	79,500	95,200
44	70.4	110.9	74,200	88,700
46	69.3	110.2	69,400	82,900
48	68.2	109.3	65,200	77,800
50	67.0	108.5	61,300	73,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
110 Ft. BOOM				
55	64.1	106.1	53,100	63,300
60	61.2	103.4	46,500	55,500
65	58.1	100.3	41,000	49,000
70	55.0	96.8	36,400	43,600
75	51.7	93.0	32,500	39,100
80	48.2	88.6	29,200	35,200
85	44.5	83.6	26,200	31,800
90	40.6	77.9	23,600	28,800
95	36.3	71.4	21,300	26,100
100	31.5	63.6	19,200	23,700
105	25.8	54.0	17,300	21,500
110	18.6	40.9	15,600	19,600
120 Ft. BOOM				
22	82.9	126.9	217,500	278,000 *
24	82.0	126.6	187,800	236,800
26	81.0	126.2	164,900	205,300
28	80.0	125.9	146,600	180,800
30	79.1	125.5	131,700	161,300
32	78.1	125.0	119,300	145,200
34	77.1	124.5	108,800	131,900
36	76.1	124.0	99,800	120,600
38	75.1	123.5	92,100	110,900
40	74.1	122.9	85,300	102,500
42	73.1	122.2	79,300	95,100
44	72.1	121.6	74,000	88,600
46	71.1	120.9	69,300	82,900
48	70.1	120.1	65,000	77,700
50	69.1	119.3	61,200	73,000
55	66.5	117.2	53,000	63,200
60	63.8	114.7	46,400	55,400
65	61.1	112.0	40,900	48,900
70	58.3	109.0	36,300	43,500
75	55.4	105.6	32,400	39,000
80	52.4	101.8	29,000	35,100
85	49.3	97.5	26,100	31,700
90	46.0	92.8	23,500	28,700
95	42.5	87.5	21,200	26,000
100	38.7	81.4	19,200	23,700
105	34.6	74.4	17,300	21,500
110	30.0	66.2	15,600	19,600
115	24.7	56.1	14,000	17,800
120	17.7	42.4	12,600	16,200



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130 Ft. BOOM				
24	82.6	136.7	188,000	237,100
26	81.7	136.4	165,000	205,500
28	80.8	136.0	146,700	181,000
30	79.9	135.7	131,700	161,400
32	79.0	135.3	119,300	145,400
34	78.1	134.8	108,800	132,000
36	77.2	134.3	99,900	120,700
38	76.3	133.8	92,100	110,900
40	75.4	133.3	85,300	102,500
42	74.5	132.7	79,400	95,200
44	73.5	132.1	74,000	88,700
46	72.6	131.5	69,300	82,900
48	71.7	130.8	65,000	77,700
50	70.7	130.1	61,200	73,100
55	68.4	128.1	53,000	63,200
60	66.0	125.9	46,300	55,400
65	63.5	123.4	40,900	48,900
70	61.0	120.7	36,300	43,500
75	58.4	117.6	32,400	39,000
80	55.8	114.3	29,000	35,000
85	53.0	110.6	26,100	31,600
90	50.2	106.5	23,500	28,700
95	47.2	101.9	21,200	26,000
100	44.0	96.8	19,200	23,700
105	40.7	91.2	17,300	21,600
110	37.1	84.8	15,600	19,600
115	33.2	77.4	14,100	17,900
120	28.8	68.7	12,700	16,300
125	23.6	58.1	11,400	14,800
130	17.0	43.8	10,200	13,400
140 Ft. BOOM				
26	82.3	146.5	164,900	205,600
28	81.5	146.2	146,600	181,000
30	80.6	145.8	131,600	161,400
32	79.8	145.5	119,200	145,300
34	79.0	145.1	108,700	131,900
36	78.1	144.6	99,700	120,500
38	77.3	144.1	91,900	110,800
40	76.4	143.6	85,100	102,400
42	75.6	143.1	79,200	95,000
44	74.7	142.5	73,800	88,500
46	73.9	141.9	69,100	82,700
48	73.0	141.3	64,800	77,500
50	72.2	140.7	60,900	72,900
55	70.0	138.9	52,700	63,000
60	67.8	136.8	46,100	55,100
65	65.5	134.6	40,600	48,700
70	63.3	132.1	36,000	43,300
75	60.9	129.3	32,100	38,700
80	58.5	126.3	28,800	34,800
85	56.1	123.0	25,800	31,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
140 Ft. BOOM				
90	53.5	119.3	23,300	28,400
95	50.9	115.3	21,000	25,800
100	48.2	110.9	18,900	23,500
105	45.3	106.1	17,100	21,400
110	42.3	100.7	15,400	19,500
115	39.1	94.7	13,900	17,700
120	35.7	87.9	12,500	16,100
125	31.9	80.2	11,300	14,700
130	27.7	71.2	10,100	13,300
135	22.7	60.1	9,000	12,100
140	16.3	45.2	7,900	10,900
150 Ft. BOOM				
26	82.8	156.6	165,000	205,800
28	82.0	156.3	146,600	181,100
30	81.3	156.0	131,600	161,400
32	80.5	155.6	119,100	145,300
34	79.7	155.3	108,500	131,800
36	78.9	154.8	99,500	120,400
38	78.2	154.4	91,700	110,700
40	77.4	153.9	84,900	102,200
42	76.6	153.5	78,900	94,800
44	75.8	152.9	73,600	88,300
46	75.0	152.4	68,800	82,500
48	74.2	151.8	64,500	77,300
50	73.4	151.2	60,700	72,600
55	71.4	149.5	52,400	62,800
60	69.4	147.6	45,800	54,800
65	67.3	145.6	40,300	48,400
70	65.2	143.3	35,700	43,000
75	63.0	140.8	31,800	38,400
80	60.9	138.0	28,400	34,500
85	58.6	135.0	25,500	31,100
90	56.3	131.7	22,900	28,100
95	54.0	128.1	20,600	25,400
100	51.6	124.2	18,500	23,100
105	49.1	119.9	16,700	21,000
110	46.4	115.2	15,000	19,100
115	43.7	110.1	13,500	17,400
120	40.8	104.4	12,200	15,800
125	37.7	98.1	10,900	14,300
130	34.4	91.0	9,700	13,000
135	30.8	82.9	8,600	11,800
140	26.7	73.5	7,600	10,600
145	21.9	62.0	6,600	9,500
150	15.7	46.5	5,700	8,500



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109,100 Lb. Counterweight

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
160 Ft. BOOM				
28	82.5	166.4	146,400	181,000
30	81.8	166.1	131,400	161,300
32	81.1	165.8	118,900	145,100
34	80.4	165.4	108,300	131,600
36	79.6	165.1	99,300	120,300
38	78.9	164.6	91,500	110,500
40	78.2	164.2	84,700	102,000
42	77.4	163.7	78,600	94,600
44	76.7	163.3	73,300	88,100
46	76.0	162.7	68,500	82,300
48	75.2	162.2	64,200	77,000
50	74.5	161.6	60,400	72,400
55	72.6	160.1	52,100	62,500
60	70.7	158.3	45,500	54,600
65	68.8	156.4	40,000	48,100
70	66.8	154.3	35,400	42,700
75	64.9	152.0	31,400	38,100
80	62.9	149.4	28,100	34,200
85	60.8	146.7	25,100	30,800
90	58.7	143.6	22,600	27,800
95	56.6	140.4	20,300	25,100
100	54.4	136.8	18,200	22,800
105	52.1	133.0	16,400	20,700
110	49.8	128.8	14,700	18,800
115	47.4	124.3	13,200	17,100
120	44.9	119.3	11,900	15,500
125	42.2	113.9	10,600	14,100
130	39.4	108.0	9,400	12,700
135	36.5	101.4	8,400	11,500
140	33.3	94.0	7,300	10,400
145	29.8	85.6	6,400	9,300
150	25.8	75.7	5,500	8,300
155	21.2	63.8	4,700	7,400
160	15.2	47.8		6,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
170 Ft. BOOM				
28	83.0	176.5	146,300	181,000
30	82.3	176.2	131,300	161,200
32	81.6	175.9	118,800	145,100
34	80.9	175.6	108,200	131,600
36	80.3	175.2	99,200	120,200
38	79.6	174.9	91,400	110,400
40	78.9	174.4	84,500	101,900
42	78.2	174.0	78,500	94,500
44	77.5	173.6	73,200	87,900
46	76.8	173.1	68,400	82,100
48	76.1	172.6	64,100	76,900
50	75.4	172.0	60,200	72,200
55	73.7	170.6	51,900	62,300
60	71.9	168.9	45,300	54,400
65	70.1	167.1	39,800	47,900
70	68.3	165.2	35,200	42,500
75	66.4	163.0	31,300	37,900
80	64.6	160.6	27,900	34,000
85	62.7	158.1	25,000	30,600
90	60.8	155.3	22,400	27,600
95	58.8	152.3	20,100	25,000
100	56.8	149.1	18,000	22,600
105	54.7	145.6	16,200	20,500
110	52.6	141.8	14,600	18,600
115	50.4	137.7	13,100	16,900
120	48.2	133.3	11,700	15,300
125	45.9	128.5	10,400	13,900
130	43.4	123.3	9,300	12,600
135	40.9	117.6	8,200	11,400
140	38.2	111.4	7,200	10,200
145	35.3	104.5	6,300	9,200
150	32.2	96.8	5,400	8,200
155	28.8	88.1	4,600	7,300
160	25.0	77.9		6,400
165	20.5	65.6		5,600



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180 Ft. BOOM				
30	82.7	186.3	131,100	161,100
32	82.1	186.0	118,500	144,900
34	81.4	185.7	108,000	131,400
36	80.8	185.4	98,900	120,000
38	80.2	185.0	91,100	110,200
40	79.5	184.6	84,200	101,700
42	78.9	184.2	78,200	94,200
44	78.2	183.8	72,900	87,700
46	77.6	183.4	68,100	81,900
48	76.9	182.9	63,800	76,600
50	76.2	182.4	59,900	71,900
55	74.6	181.0	51,600	62,000
60	72.9	179.5	44,900	54,100
65	71.2	177.8	39,500	47,600
70	69.5	175.9	34,800	42,200
75	67.8	173.9	30,900	37,600
80	66.1	171.7	27,500	33,700
85	64.3	169.3	24,600	30,300
90	62.5	166.8	22,000	27,300
95	60.7	164.0	19,700	24,600
100	58.9	161.0	17,700	22,300
105	57.0	157.8	15,900	20,200
110	55.0	154.3	14,200	18,300
115	53.0	150.6	12,700	16,600
120	51.0	146.6	11,300	15,000
125	48.9	142.3	10,100	13,600
130	46.7	137.6	8,900	12,200
135	44.5	132.6	7,900	11,000
140	42.1	127.1	6,900	9,900
145	39.7	121.2	6,000	8,900
150	37.1	114.7	5,100	7,900
155	34.3	107.6	4,300	7,000
160	31.3	99.6		6,100
165	28.0	90.6		5,300
170	24.3	80.0		4,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
190 Ft. BOOM				
32	82.5	196.2	118,400	144,900
34	81.9	195.9	107,800	131,300
36	81.3	195.5	98,700	119,800
38	80.7	195.2	90,900	110,000
40	80.1	194.8	84,000	101,500
42	79.4	194.4	78,000	94,000
44	78.8	194.0	72,600	87,500
46	78.2	193.6	67,800	81,600
48	77.6	193.2	63,500	76,400
50	77.0	192.7	59,600	71,700
55	75.4	191.4	51,300	61,700
60	73.9	189.9	44,600	53,800
65	72.3	188.4	39,100	47,200
70	70.7	186.6	34,400	41,800
75	69.1	184.7	30,500	37,200
80	67.4	182.7	27,100	33,300
85	65.8	180.4	24,200	29,800
90	64.1	178.0	21,600	26,800
95	62.4	175.4	19,300	24,200
100	60.7	172.6	17,200	21,800
105	58.9	169.6	15,400	19,700
110	57.1	166.4	13,800	17,800
115	55.3	163.0	12,300	16,100
120	53.4	159.3	10,900	14,500
125	51.5	155.4	9,600	13,100
130	49.5	151.2	8,500	11,800
135	47.5	146.7	7,400	10,600
140	45.4	141.8	6,400	9,500
145	43.2	136.5	5,500	8,400
150	40.9	130.9	4,600	7,400
155	38.5	124.7		6,500
160	36.0	118.0		5,700
165	33.3	110.6		4,900
170	30.4	102.3		4,100



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

888 SERIES 1

Boom No. 22EL

109,100 Lb. Counterweight

360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
200 Ft. BOOM				
32	82.9	206.3	118,100	144,600
34	82.3	206.0	107,500	131,100
36	81.7	205.7	98,400	119,600
38	81.1	205.3	90,500	109,700
40	80.6	205.0	83,700	101,200
42	80.0	204.6	77,600	93,700
44	79.4	204.2	72,200	87,200
46	78.8	203.8	67,400	81,300
48	78.2	203.4	63,100	76,100
50	77.6	203.0	59,200	71,300
55	76.2	201.7	50,900	61,400
60	74.7	200.4	44,200	53,400
65	73.2	198.9	38,700	46,900
70	71.7	197.2	34,100	41,400
75	70.2	195.4	30,100	36,800
80	68.6	193.5	26,700	32,900
85	67.1	191.4	23,800	29,500
90	65.5	189.1	21,200	26,500
95	63.9	186.7	18,900	23,800
100	62.3	184.1	16,900	21,500
105	60.6	181.3	15,000	19,400
110	59.0	178.3	13,400	17,500
115	57.3	175.1	11,900	15,700
120	55.5	171.7	10,500	14,200
125	53.8	168.1	9,200	12,700
130	52.0	164.2	8,100	11,400
135	50.1	160.1	7,000	10,200
140	48.2	155.6	6,000	9,100
145	46.2	150.9	5,100	8,000
150	44.2	145.8	4,300	7,100
155	42.1	140.4		6,200
160	39.8	134.5		5,300
165	37.5	128.1		4,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
210 Ft. BOOM				
34	82.7	216.1	107,300	130,900
36	82.1	215.8	98,200	119,400
38	81.6	215.5	90,300	109,500
40	81.0	215.1	83,500	101,000
42	80.5	214.8	77,400	93,500
44	79.9	214.4	72,000	86,900
46	79.4	214.0	67,200	81,100
48	78.8	213.6	62,900	75,800
50	78.2	213.2	59,000	71,100
55	76.8	212.0	50,700	61,100
60	75.4	210.8	43,900	53,200
65	74.0	209.3	38,400	46,600
70	72.6	207.8	33,800	41,200
75	71.1	206.1	29,900	36,600
80	69.7	204.2	26,500	32,600
85	68.2	202.2	23,500	29,200
90	66.7	200.1	20,900	26,200
95	65.2	197.8	18,600	23,600
100	63.7	195.4	16,600	21,200
105	62.2	192.7	14,700	19,100
110	60.6	189.9	13,100	17,200
115	59.0	187.0	11,600	15,500
120	57.4	183.8	10,200	13,900
125	55.8	180.4	9,000	12,500
130	54.1	176.8	7,800	11,100
135	52.4	173.0	6,700	9,900
140	50.6	168.9	5,700	8,800
145	48.8	164.6	4,800	7,800
150	46.9	160.0	4,000	6,800
155	45.0	155.1		5,900
160	43.0	149.8		5,100
165	41.0	144.1		4,300