

Liftcrane Boom Capacities

Boom No. 180 With Open Throat Top
28,500 Lb. Counterweight
22 Ft. 4 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

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 do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 18,700 Lbs. 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 on a firm uniformly supporting surface with crawlers fully extended, gantry up and machine list not to exceed degrees noted. Refer to boom rigging **No. A10177** and Wire Rope Specification chart **No. 9199-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 operators 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 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 22 Ft. 4 in. extendible crawlers, 36 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants and 28,500 Lb. counterweight.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Extended Crawlers
	Boom Length	Boom Length
0 Degree	180 Ft.	160 Ft.
1 Degree	160 Ft.	160 Ft.
2 Degree	140 Ft.	140 Ft.
3 Degree	130 Ft.	130 Ft.
Load block, hook and weight ball on barge deck at start. Jib cannot be attached on crawler machine while operating on a barge.		



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40 Ft. BOOM							
14	74.8	44.0	133,100	117,100 *	86,900 *	66,200 *	14
15	73.3	43.7	115,800	104,500	82,200 *	66,200 *	15
16	71.8	43.3	102,400	93,400	76,900 *	63,800 *	16
17	70.3	43.0	91,800	84,400	72,200 *	59,900 *	17
18	68.8	42.6	83,100	76,900	68,100 *	56,400 *	18
19	67.2	42.2	75,800	70,700	64,400 *	53,300 *	19
20	65.6	41.7	69,700	65,300	61,100 *	50,500 *	20
22	62.4	40.7	60,000	56,600	53,600	45,700 *	22
24	59.1	39.6	52,500	49,900	47,500	41,700 *	24
26	55.7	38.3	46,700	44,600	42,700	38,300 *	26
28	52.1	36.8	41,900	40,300	38,700	35,300 *	28
30	48.4	35.1	38,000	36,600	35,300	32,800 *	30
32	44.4	33.2	34,700	33,600	32,500	30,600 *	32
34	40.1	30.9	31,900	31,000	30,100	28,600 *	34
36	35.4	28.3	29,500	28,700	28,000	26,900 *	36
38	30.0	25.1	27,400	26,800	26,100	25,300 *	38
40	23.5	21.1	25,600	25,000	24,500	23,900 *	40
50 Ft. BOOM							
14	77.9	54.3	133,300	115,800	83,400 *	64,000 *	14
15	76.7	54.0	115,900	102,400	82,000 *	64,000 *	15
16	75.5	53.8	102,500	91,700	76,700 *	63,600 *	16
17	74.4	53.5	91,800	82,900	72,000 *	59,700 *	17
18	73.2	53.2	83,100	75,700	67,900 *	56,200 *	18
19	72.0	52.9	75,800	69,600	64,100	53,100 *	19
20	70.7	52.5	69,700	64,300	59,600	50,300 *	20
22	68.3	51.8	59,900	55,900	52,200	45,500 *	22
24	65.8	50.9	52,500	49,300	46,400	41,400 *	24
26	63.2	49.9	46,600	44,000	41,700	38,000 *	26
28	60.6	48.9	41,800	39,700	37,800	35,100 *	28
30	58.0	47.6	37,900	36,200	34,500	32,600 *	30
32	55.2	46.3	34,600	33,100	31,800	30,400 *	32
34	52.3	44.8	31,800	30,600	29,400	28,300	34
36	49.4	43.2	29,400	28,300	27,300	26,300	36
38	46.3	41.3	27,300	26,400	25,500	24,600	38
40	43.0	39.3	25,400	24,600	23,900	23,100	40
45	33.6	32.8	21,700	21,100	20,600	20,000	45
50	20.9	23.0	18,800	18,400	18,000	17,700	50



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60 Ft. BOOM							
14	79.9	64.5	133,400	110,700 *	79,200 *		14
15	79.0	64.3	116,000	100,300	79,200 *	61,400 *	15
16	78.0	64.1	102,500	89,900	76,500 *	61,400 *	16
17	77.0	63.8	91,800	81,500	71,800 *	59,400 *	17
18	76.0	63.6	83,000	74,400	67,300	55,900 *	18
19	75.0	63.3	75,800	68,500	62,300	52,800 *	19
20	74.1	63.0	69,600	63,400	58,000	50,000 *	20
22	72.1	62.4	59,800	55,100	50,900	45,200 *	22
24	70.0	61.7	52,300	48,600	45,300	41,200 *	24
26	68.0	60.9	46,500	43,400	40,700	37,800 *	26
28	65.9	60.1	41,700	39,200	36,900	34,800 *	28
30	63.8	59.1	37,800	35,700	33,800	32,000	30
32	61.6	58.1	34,500	32,700	31,100	29,600	32
34	59.4	56.9	31,600	30,100	28,700	27,400	34
36	57.2	55.7	29,200	27,900	26,700	25,600	36
38	54.9	54.3	27,100	26,000	24,900	23,900	38
40	52.5	52.8	25,300	24,300	23,300	22,400	40
45	46.1	48.5	21,500	20,800	20,100	19,400	45
50	39.0	43.0	18,600	18,000	17,500	17,000	50
55	30.6	35.7	16,300	15,900	15,500	15,100	55
60	19.0	24.7	14,400	14,100	13,900	13,600	60
70 Ft. BOOM							
14	81.4	74.6	132,300 *				14
15	80.6	74.5	116,000	98,200			15
16	79.7	74.3	102,500	88,300	74,800 *		16
17	78.9	74.1	91,800	80,100	70,800	58,600 *	17
18	78.1	73.9	83,000	73,200	65,300	55,700 *	18
19	77.2	73.6	75,700	67,400	60,600	52,600 *	19
20	76.4	73.4	69,600	62,400	56,500	49,800 *	20
22	74.7	72.9	59,800	54,300	49,700	45,000 *	22
24	73.0	72.3	52,300	48,000	44,300	41,000	24
26	71.3	71.6	46,400	42,900	39,900	37,100	26
28	69.5	70.9	41,600	38,700	36,200	33,900	28
30	67.8	70.1	37,700	35,300	33,100	31,100	30
32	66.0	69.2	34,400	32,300	30,500	28,800	32
34	64.2	68.3	31,500	29,800	28,200	26,700	34
36	62.3	67.3	29,100	27,600	26,200	24,900	36
38	60.5	66.2	27,000	25,700	24,500	23,300	38
40	58.6	65.0	25,200	24,000	22,900	21,900	40
45	53.6	61.6	21,400	20,500	19,700	18,900	45
50	48.3	57.5	18,500	17,800	17,200	16,600	50
55	42.5	52.5	16,200	15,700	15,200	14,700	55
60	36.0	46.3	14,300	13,900	13,500	13,100	60
65	28.3	38.3	12,800	12,500	12,100	11,800	65
70	17.6	26.3	11,500	11,200	11,000	10,800	70

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80 Ft. BOOM							
15	81.8	84.6	116,000				15
16	81.0	84.4	102,500	86,600			16
17	80.3	84.3	91,700	78,700			17
18	79.6	84.1	82,900	72,000	63,400		18
19	78.8	83.9	75,600	66,400	58,900	52,400 *	19
20	78.1	83.7	69,500	61,500	55,000	49,600 *	20
22	76.6	83.2	59,600	53,500	48,500	44,100	22
24	75.2	82.7	52,100	47,300	43,200	39,700	24
26	73.7	82.1	46,200	42,300	39,000	36,000	26
28	72.2	81.5	41,400	38,200	35,400	32,900	28
30	70.7	80.8	37,500	34,800	32,400	30,200	30
32	69.1	80.1	34,200	31,900	29,800	27,900	32
34	67.6	79.3	31,400	29,400	27,600	25,900	34
36	66.0	78.4	28,900	27,200	25,600	24,200	36
38	64.4	77.5	26,800	25,300	23,900	22,600	38
40	62.8	76.5	25,000	23,600	22,400	21,200	40
45	58.7	73.7	21,200	20,200	19,200	18,300	45
50	54.4	70.3	18,300	17,500	16,700	16,000	50
55	49.9	66.4	16,000	15,300	14,800	14,200	55
60	45.0	61.8	14,100	13,600	13,100	12,700	60
65	39.6	56.2	12,500	12,100	11,800	11,400	65
70	33.6	49.4	11,200	10,900	10,600	10,300	70
75	26.4	40.7	10,100	9,900	9,600	9,400	75
80	16.4	27.7	9,100	9,000	8,800	8,600	80

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90 Ft. BOOM							
16	82.0	94.5	102,400				16
17	81.4	94.4	91,600				17
18	80.7	94.2	82,900	70,900			18
19	80.1	94.1	75,500	65,300			19
20	79.5	93.9	69,400	60,600	53,600		20
22	78.2	93.5	59,500	52,800	47,300	42,700	22
24	76.8	93.0	52,000	46,700	42,200	38,500	24
26	75.5	92.5	46,100	41,800	38,100	34,900	26
28	74.2	92.0	41,300	37,700	34,700	32,000	28
30	72.9	91.4	37,300	34,400	31,700	29,400	30
32	71.5	90.7	34,000	31,500	29,200	27,200	32
34	70.2	90.0	31,200	29,000	27,000	25,300	34
36	68.8	89.3	28,800	26,900	25,100	23,600	36
38	67.5	88.4	26,700	25,000	23,400	22,000	38
40	66.1	87.6	24,800	23,300	21,900	20,700	40
45	62.5	85.1	21,000	19,900	18,800	17,900	45
50	58.9	82.3	18,100	17,200	16,400	15,600	50
55	55.1	79.0	15,800	15,100	14,400	13,800	55
60	51.1	75.2	13,900	13,400	12,800	12,300	60
65	46.8	70.9	12,400	11,900	11,500	11,000	65
70	42.3	65.7	11,100	10,700	10,300	10,000	70
75	37.3	59.7	10,000	9,600	9,300	9,000	75
80	31.6	52.3	9,000	8,700	8,500	8,200	80
85	24.8	42.9	8,200	8,000	7,700	7,500	85
90	15.5	29.1	7,400	7,300	7,100	6,900	90



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100 Ft. BOOM							
18	81.7	104.4	82,800				18
19	81.1	104.2	75,500				19
20	80.5	104.0	69,300	59,700			20
22	79.4	103.7	59,400	52,100	46,200		22
24	78.2	103.3	51,900	46,100	41,300	37,300	24
26	77.0	102.8	46,000	41,300	37,300	34,000	26
28	75.8	102.3	41,200	37,300	34,000	31,100	28
30	74.6	101.8	37,200	34,000	31,100	28,600	30
32	73.5	101.2	33,900	31,100	28,700	26,500	32
34	72.3	100.6	31,100	28,700	26,500	24,600	34
36	71.0	99.9	28,700	26,600	24,700	23,000	36
38	69.8	99.2	26,500	24,700	23,000	21,500	38
40	68.6	98.4	24,700	23,000	21,600	20,200	40
45	65.5	96.3	20,900	19,600	18,500	17,400	45
50	62.3	93.8	18,000	17,000	16,100	15,200	50
55	59.0	91.0	15,700	14,900	14,100	13,500	55
60	55.6	87.7	13,800	13,200	12,600	12,000	60
65	52.0	84.1	12,300	11,700	11,200	10,700	65
70	48.3	79.8	10,900	10,500	10,100	9,700	70
75	44.3	75.0	9,800	9,500	9,100	8,800	75
80	40.0	69.5	8,900	8,600	8,300	8,000	80
85	35.3	62.9	8,000	7,800	7,500	7,300	85
90	29.9	55.1	7,300	7,100	6,900	6,600	90
95	23.5	45.0	6,600	6,400	6,300	6,100	95
100	14.7	30.4	6,000	5,900	5,800	5,600	100

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110 Ft. BOOM							
19	81.9	114.3	75,400				19
20	81.4	114.2	69,200				20
22	80.3	113.8	59,300	51,400			22
24	79.3	113.5	51,800	45,500	40,400		24
26	78.2	113.1	45,800	40,700	36,500	33,000	26
28	77.1	112.6	41,000	36,800	33,300	30,200	28
30	76.1	112.1	37,100	33,500	30,500	27,800	30
32	75.0	111.6	33,800	30,700	28,100	25,800	32
34	73.9	111.0	30,900	28,300	26,000	24,000	34
36	72.8	110.4	28,500	26,200	24,200	22,400	36
38	71.7	109.8	26,400	24,300	22,600	20,900	38
40	70.6	109.1	24,500	22,700	21,100	19,700	40
45	67.8	107.2	20,700	19,300	18,100	17,000	45
50	65.0	105.0	17,800	16,700	15,700	14,800	50
55	62.1	102.5	15,500	14,600	13,800	13,100	55
60	59.1	99.6	13,600	12,900	12,200	11,600	60
65	56.0	96.4	12,100	11,500	10,900	10,400	65
70	52.8	92.8	10,800	10,300	9,800	9,400	70
75	49.4	88.8	9,600	9,200	8,800	8,400	75
80	45.9	84.2	8,700	8,300	8,000	7,700	80
85	42.1	79.0	7,800	7,500	7,200	7,000	85
90	38.1	73.0	7,100	6,800	6,600	6,300	90
95	33.6	66.0	6,500	6,200	6,000	5,800	95
100	28.5	57.6	5,900	5,700	5,500	5,300	100
105	22.4	47.1	5,300	5,200	5,000	4,900	105
110	14.0	31.7	4,800	4,700	4,600	4,500	110

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120 Ft. BOOM							
22	81.1	124.0	59,200				22
24	80.2	123.6	51,600	44,900			24
26	79.2	123.3	45,700	40,200	35,700		26
28	78.2	122.9	40,900	36,300	32,500	29,300	28
30	77.3	122.4	36,900	33,100	29,800	27,100	30
32	76.3	121.9	33,600	30,300	27,500	25,100	32
34	75.3	121.4	30,700	27,900	25,400	23,300	34
36	74.3	120.9	28,300	25,800	23,700	21,700	36
38	73.3	120.3	26,200	24,000	22,100	20,400	38
40	72.3	119.7	24,300	22,400	20,600	19,100	40
45	69.8	117.9	20,500	19,000	17,700	16,500	45
50	67.2	115.9	17,600	16,400	15,300	14,400	50
55	64.6	113.7	15,300	14,300	13,500	12,600	55
60	61.9	111.1	13,400	12,600	11,900	11,200	60
65	59.2	108.3	11,800	11,200	10,600	10,000	65
70	56.3	105.1	10,500	10,000	9,500	9,000	70
75	53.4	101.6	9,400	8,900	8,500	8,100	75
80	50.4	97.6	8,400	8,000	7,700	7,300	80
85	47.2	93.2	7,600	7,300	6,900	6,600	85
90	43.8	88.3	6,900	6,600	6,300	6,000	90
95	40.2	82.7	6,200	5,900	5,700	5,500	95
100	36.4	76.3	5,600	5,400	5,200	5,000	100
105	32.1	68.9	5,100	4,900	4,700	4,500	105
110	27.3	60.1	4,600	4,400	4,300	4,100	110
115	21.4	49.0	4,200	4,000			115

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130 Ft. BOOM							
22	81.8	134.1	59,000				22
24	80.9	133.8	51,500	44,200			24
26	80.0	133.4	45,500	39,600	34,900		26
28	79.1	133.1	40,700	35,800	31,800		28
30	78.2	132.7	36,700	32,600	29,200	26,300	30
32	77.3	132.2	33,400	29,900	26,900	24,400	32
34	76.4	131.7	30,600	27,500	24,900	22,700	34
36	75.5	131.2	28,100	25,400	23,200	21,200	36
38	74.6	130.7	26,000	23,600	21,600	19,800	38
40	73.7	130.1	24,100	22,000	20,200	18,600	40
45	71.4	128.5	20,300	18,700	17,300	16,000	45
50	69.0	126.7	17,400	16,100	15,000	13,900	50
55	66.7	124.7	15,100	14,000	13,100	12,300	55
60	64.2	122.4	13,200	12,400	11,600	10,900	60
65	61.8	119.8	11,600	10,900	10,300	9,700	65
70	59.2	117.0	10,300	9,700	9,200	8,700	70
75	56.6	113.8	9,200	8,700	8,200	7,800	75
80	53.9	110.3	8,200	7,800	7,400	7,000	80
85	51.1	106.5	7,400	7,000	6,700	6,300	85
90	48.3	102.2	6,700	6,300	6,000	5,700	90
95	45.2	97.5	6,000	5,700	5,400	5,200	95
100	42.0	92.2	5,400	5,200	4,900	4,700	100
105	38.6	86.3	4,900	4,700	4,500	4,200	105
110	34.9	79.5	4,400	4,200	4,000		110
115	30.8	71.7	4,000				115



Liftcrane Boom Capacities

Boom No. 180 With Open Throat Top
28,500 Lb. Counterweight
22 Ft. 4 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	Oper. Radius Feet
140 Ft. BOOM						
24	81.6	143.9	51,400			24
26	80.8	143.6	45,400	39,100		26
28	79.9	143.2	40,600	35,400	31,200	28
30	79.1	142.9	36,600	32,200	28,600	30
32	78.3	142.5	33,200	29,500	26,400	32
34	77.4	142.0	30,400	27,200	24,400	34
36	76.6	141.6	28,000	25,100	22,700	36
38	75.7	141.1	25,800	23,300	21,200	38
40	74.9	140.5	24,000	21,700	19,800	40
45	72.8	139.1	20,100	18,400	16,900	45
50	70.6	137.4	17,200	15,900	14,700	50
55	68.4	135.5	14,900	13,800	12,800	55
60	66.2	133.4	13,000	12,100	11,300	60
65	63.9	131.1	11,500	10,700	10,000	65
70	61.6	128.5	10,200	9,500	8,900	70
75	59.3	125.6	9,000	8,500	8,000	75
80	56.9	122.5	8,100	7,600	7,200	80
85	54.4	119.1	7,200	6,800	6,400	85
90	51.8	115.3	6,500	6,100	5,800	90
95	49.2	111.1	5,800	5,500	5,200	95
100	46.4	106.6	5,300	5,000	4,700	100
105	43.5	101.5	4,700	4,500	4,200	105
110	40.4	95.9	4,200	4,000		110



Liftcrane Boom Capacities

Boom No. 180 With Open Throat Top
28,500 Lb. Counterweight
22 Ft. 4 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds
150 Ft. BOOM				
26	81.4	153.7	45,200	
28	80.6	153.4	40,400	34,900
30	79.8	153.0	36,400	31,800
32	79.1	152.7	33,100	29,100
34	78.3	152.3	30,200	26,800
36	77.5	151.8	27,800	24,800
38	76.7	151.4	25,600	23,000
40	75.9	150.9	23,800	21,400
45	73.9	149.5	19,900	18,100
50	71.9	148.0	17,000	15,600
55	69.9	146.2	14,700	13,500
60	67.9	144.3	12,800	11,900
65	65.8	142.1	11,300	10,500
70	63.7	139.7	9,900	9,300
75	61.5	137.1	8,800	8,200
80	59.3	134.3	7,900	7,400
85	57.1	131.2	7,000	6,600
90	54.8	127.8	6,300	5,900
95	52.4	124.1	5,600	5,300
100	49.9	120.0	5,000	4,700
105	47.4	115.6	4,500	4,200
110	44.7	110.8	4,000	

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds
160 Ft. BOOM				
26	81.9	163.8	44,200 *	
28	81.2	163.5	40,200	
30	80.5	163.2	36,200	30,100 *
32	79.7	162.8	32,900	28,700
34	79.0	162.5	30,000	26,400
36	78.3	162.1	27,600	24,400
38	77.6	161.6	25,400	22,600
40	76.8	161.2	23,600	21,100
45	75.0	159.9	19,700	17,800
50	73.1	158.5	16,800	15,300
55	71.2	156.8	14,500	13,200
60	69.3	155.0	12,600	11,600
65	67.4	153.0	11,000	10,200
70	65.4	150.8	9,700	9,000
75	63.5	148.4	8,600	8,000
80	61.4	145.8	7,600	7,100
85	59.4	142.9	6,800	6,300
90	57.3	139.8	6,000	5,600
95	55.1	136.5	5,400	5,000
100	52.9	132.8	4,800	4,500
105	50.6	128.9	4,300	4,000



Liftcrane Boom Capacities

Boom No. 180 With Open Throat Top
28,500 Lb. Counterweight
22 Ft. 4 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds
170 Ft. BOOM			
28	81.7	173.6	37,700 *
30	81.0	173.3	36,100
32	80.4	173.0	32,700
34	79.7	172.6	29,800
36	79.0	172.3	27,400
38	78.3	171.9	25,200
40	77.6	171.4	23,400
45	75.9	170.2	19,500
50	74.1	168.9	16,600
55	72.4	167.4	14,300
60	70.6	165.7	12,400
65	68.8	163.8	10,800
70	67.0	161.8	9,500
75	65.1	159.5	8,400
80	63.3	157.1	7,400
85	61.3	154.5	6,600
90	59.4	151.6	5,800
95	57.4	148.5	5,200
100	55.4	145.2	4,600
105	53.3	141.6	4,100

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds
180 Ft. BOOM			
30	81.5	183.4	32,800 *
32	80.9	183.1	32,500 *
34	80.3	182.8	29,700
36	79.6	182.4	27,200
38	79.0	182.1	25,100
40	78.3	181.6	23,200
45	76.7	180.5	19,400
50	75.0	179.3	16,400
55	73.4	177.8	14,100
60	71.7	176.3	12,200
65	70.0	174.5	10,600
70	68.3	172.6	9,300
75	66.6	170.5	8,200
80	64.8	168.2	7,200
85	63.1	165.8	6,400
90	61.3	163.1	5,600
95	59.4	160.3	5,000
100	57.6	157.2	4,400