

Liftcrane Boom Capacities

888 RINGER

Boom No. 67B, 120 Ft. Mast No. 49A
45 Ft. RINGER Attachment on Screw Jack Pedestals
1,395,100 Lb. Auxiliary Counterweight
Barge Mount - 1/2 Degree Thru 2 Degree Machine List
360 Degree Rating

LIFTING CAPACITIES: Lifting capacities are for a machine when operating on 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 32,300 Lbs. or 64,600 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part 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, slings, hoist lines, etc., beneath boom 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 with roller path properly supported and machine list not to

exceed degrees noted. Refer to boom rigging **No.177811** and Wire Rope Specification chart **No. 7925-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 45 Ft. RINGER attachment, 28 Ft. 2 in. extendible crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30Ft. live mast, 120 Ft. No. 49A mast, 16 part boom hoist reeving, boom support straps, and 1,395,100 Lb. auxiliary counterweight.

Maximum Boom Length Lifted Unassisted	
List	Boom Length
1/2 Degree	350 Ft.
1 Degree	300 Ft.
2 Degrees	250 Ft.
Load block, hook and weight ball on barge deck at start. Jib is not to be used on machine while operating on a barge.	

Deduct
Deduct 10,000 Lbs. from capacities when jib backstay straps are stowed on boom.

Warning: Check amount of auxiliary counterweight on machine before using this chart.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
125 Ft. Boom					
45	80.2	131.1	1,120,200 *	1,037,900 *	903,400 *
50	77.9	130.1	1,044,400 *	972,600 *	853,500 *
55	75.5	128.8	978,000 *	914,800 *	808,900 *
60	73.1	127.3	919,300 *	863,400 *	768,800 *
65	70.7	125.5	867,000 *	817,500 *	732,600 *
70	68.2	123.5	820,200 *	776,000 *	699,700 *
75	65.7	121.3	778,000 *	738,600 *	669,700 *
80	63.2	118.7	739,800 *	704,500 *	642,400 *
85	60.5	115.9	705,000 *	673,400 *	602,600 *
90	57.8	112.8	673,300 *	644,900 *	567,300 *
95	55.0	109.3	631,400 *	618,700 *	535,600 *
100	52.2	105.5	580,300 *	573,600 *	507,100 *
105	49.1	101.2	534,400 *	528,800 *	481,300 *
110	46.0	96.4	492,700 *	488,100 *	457,900 *
115	42.6	91.1	454,500 *	450,700 *	436,400 *
120	39.0	85.0	419,100 *	415,900 *	409,900 *
125	35.1	78.1	385,600 *	383,100 *	378,200 *
130	30.7	70.0	353,400 *	351,400 *	347,600 *
135	25.7	60.2	321,400 *	319,900 *	317,100 *
140	19.4	47.4	287,600 *	286,700 *	284,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
150 Ft. Boom					
45	81.9	156.5	1,093,500 *	999,400 *	805,000 *
50	79.9	155.6	1,020,100 *	937,500 *	764,100 *
55	78.0	154.6	955,600 *	882,700 *	727,100 *
60	76.0	153.3	898,600 *	833,800 *	693,600 *
65	74.0	151.9	847,800 *	789,900 *	663,100 *
70	72.0	150.3	802,200 *	750,300 *	635,100 *
75	70.0	148.5	761,000 *	714,400 *	609,400 *
80	67.9	146.4	723,700 *	681,600 *	585,800 *
85	65.9	144.2	689,800 *	651,600 *	564,000 *
90	63.7	141.7	658,700 *	624,100 *	532,600 *
95	61.6	139.0	627,800 *	598,800 *	504,200 *
100	59.3	136.1	586,600 *	575,400 *	478,400 *
105	57.1	132.9	550,200 *	540,600 *	455,000 *
110	54.7	129.3	517,700 *	509,200 *	433,700 *
115	52.3	125.5	488,700 *	481,100 *	414,000 *
120	49.8	121.3	462,500 *	455,800 *	396,000 *
125	47.2	116.7	438,800 *	432,800 *	379,300 *
130	44.5	111.7	417,200 *	411,800 *	363,900 *
135	41.7	106.2	390,400 *	387,100 *	349,600 *
140	38.7	100.0	364,600 *	361,800 *	333,200 *
145	35.4	93.2	340,000 *	337,600 *	310,500 *
150	31.9	85.3	316,100 *	314,200 *	288,100 *
155	27.9	76.3	292,500 *	291,000 *	265,200 *
160	23.3	65.3	268,600 *	267,400 *	240,400 *
165	17.6	51.2	242,600 *	241,800 *	



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175 Ft. Boom					
50	81.4	181.1	977,600 *	878,100 *	
55	79.7	180.1	934,000 *	852,200 *	722,900 *
60	78.1	179.1	878,500 *	805,600 *	688,700 *
65	76.4	177.9	829,000 *	763,600 *	657,600 *
70	74.7	176.5	784,500 *	725,700 *	629,200 *
75	73.0	175.0	744,400 *	691,200 *	603,100 *
80	71.2	173.3	708,000 *	659,700 *	579,000 *
85	69.5	171.4	674,700 *	630,800 *	556,800 *
90	67.7	169.3	644,300 *	604,300 *	536,200 *
95	65.9	167.1	616,400 *	579,800 *	517,000 *
100	64.1	164.7	582,100	557,100 *	499,200 *
105	62.3	162.1	545,800	534,500	475,400 *
110	60.4	159.2	513,500	503,400	452,000 *
115	58.5	156.2	484,500	475,500	430,600 *
120	56.5	152.9	458,400	450,300	411,000 *
125	54.5	149.3	434,700	427,500	393,000 *
130	52.4	145.5	413,100	406,600	376,400 *
135	50.3	141.4	393,400	387,500	360,900 *
140	48.1	136.9	375,400	370,000	346,600 *
145	45.9	132.1	358,700	353,800	333,200 *
150	43.5	126.9	343,300	338,900	320,800 *
155	41.0	121.2	329,100	325,000	309,100 *
160	38.4	115.0	315,500 *	312,200	298,200 *
165	35.6	108.2	297,200 *	295,000 *	287,900 *
170	32.6	100.6	279,200 *	277,400 *	273,900 *
175	29.4	91.9	261,500 *	260,000 *	257,100 *
180	25.7	82.0	243,700 *	242,500 *	240,100 *
185	21.5	70.1	225,200 *	224,300 *	222,500 *
190	16.2	54.7	204,700 *	204,100 *	202,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
200 Ft. Boom					
50	82.5	206.3	855,600 *		
55	81.0	205.6	849,900 *	752,400 *	
60	79.6	204.6	839,400 *	743,900 *	607,900 *
65	78.1	203.6	810,100 *	735,500 *	602,000 *
70	76.6	202.4	766,800 *	701,700 *	596,000 *
75	75.2	201.1	727,700 *	668,600 *	573,100 *
80	73.7	199.6	692,100 *	638,400 *	550,600 *
85	72.2	198.0	659,700 *	610,600 *	529,700 *
90	70.6	196.2	630,000 *	585,000 *	510,300 *
95	69.1	194.3	602,700 *	561,400 *	492,200 *
100	67.6	192.2	577,000	539,500 *	475,400 *
105	66.0	190.0	540,900	519,100 *	459,600 *
110	64.4	187.6	508,800	497,400	444,800 *
115	62.8	185.1	480,000	469,700	427,500 *
120	61.2	182.3	454,000	444,700	407,900 *
125	59.5	179.4	430,400	422,100	389,900 *
130	57.8	176.2	409,000	401,400	373,300 *
135	56.1	172.9	389,300	382,400	357,900 *
140	54.3	169.3	371,300	365,000	343,600 *
145	52.5	165.5	354,800	349,000	330,300 *
150	50.7	161.4	339,400	334,200	317,800 *
155	48.8	157.1	325,200	320,400	306,200 *
160	46.8	152.4	312,000	307,600	295,300 *
165	44.8	147.4	299,700	295,600	285,000 *
170	42.7	142.1	288,200	284,400	275,300 *
175	40.5	136.3	277,400	273,900	266,200 *
180	38.2	130.0	267,300	264,100	257,300
185	35.8	123.2	257,800	254,900	248,600
190	33.2	115.7	245,300 *	243,600 *	240,300 *
195	30.4	107.4	231,700 *	230,300 *	227,500 *
200	27.4	98.1	218,200 *	217,000 *	214,600 *
205	24.0	87.3	204,300 *	203,300 *	201,400 *
210	20.0	74.4	189,700 *	188,900 *	187,400 *
215	15.1	57.9	173,200 *	172,700 *	171,700 *



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225 Ft. Boom					
55	82.0	230.9	734,800 *		
60	80.7	230.1	726,500 *	640,300 *	518,900 *
65	79.5	229.1	718,100 *	633,600 *	514,000 *
70	78.2	228.1	709,900 *	626,900 *	509,200 *
75	76.8	226.9	701,700 *	620,200 *	504,400 *
80	75.5	225.6	677,300 *	613,700 *	499,700 *
85	74.2	224.2	645,600 *	591,700 *	495,000 *
90	72.9	222.6	616,500 *	567,100 *	486,600 *
95	71.5	221.0	589,800 *	544,200 *	469,500 *
100	70.2	219.2	565,100 *	523,000 *	453,500 *
105	68.8	217.2	536,700	503,300 *	438,500 *
110	67.4	215.2	504,700	484,900 *	424,500 *
115	66.0	212.9	475,900	464,400	411,200 *
120	64.6	210.6	450,000	439,700	398,700 *
125	63.2	208.1	426,600	417,200	387,000 *
130	61.8	205.4	405,200	396,600	370,500 *
135	60.3	202.5	385,600	377,800	355,100 *
140	58.8	199.5	367,700	360,500	340,800 *
145	57.3	196.3	351,100	344,600	327,500 *
150	55.8	192.9	335,800	329,800	315,100 *
155	54.2	189.3	321,700	316,100	303,400 *
160	52.6	185.5	308,500	303,300	292,500 *
165	51.0	181.5	296,200	291,400	281,500
170	49.3	177.2	284,700	280,300	271,100
175	47.6	172.7	274,000	269,900	261,300
180	45.8	167.8	263,900	260,100	252,100
185	44.0	162.7	254,400	250,900	243,400
190	42.1	157.2	245,400	242,200	235,300
195	40.1	151.3	237,000	234,000	227,500
200	38.1	145.0	229,000	226,200	220,200
205	35.9	138.2	221,500	218,900	213,300
210	33.6	130.8	214,300	211,900	206,700
215	31.2	122.7	204,200 *	202,800 *	200,100 *
220	28.6	113.8	193,700 *	192,500 *	190,100 *
225	25.8	103.8	183,000 *	181,900 *	180,000 *
230	22.6	92.3	171,900 *	171,000 *	169,400 *
235	18.8	78.6	160,000 *	159,400 *	158,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
250 Ft. Boom					
60	81.7	255.4	632,200 *	554,900 *	
65	80.5	254.6	625,700 *	549,600 *	442,600 *
70	79.4	253.6	619,100 *	544,200 *	438,700 *
75	78.2	252.6	612,600 *	538,900 *	434,800 *
80	77.0	251.4	606,000 *	533,600 *	430,900 *
85	75.8	250.1	599,500 *	528,200 *	427,100 *
90	74.6	248.8	593,100 *	523,000 *	423,200 *
95	73.4	247.3	576,500 *	517,700 *	419,400 *
100	72.2	245.7	552,300 *	506,500 *	415,500 *
105	71.0	244.0	527,100 *	487,500 *	411,800 *
110	69.8	242.1	500,200	469,600 *	404,700 *
115	68.6	240.2	471,600	452,900 *	392,100 *
120	67.3	238.1	445,800	434,300	380,200 *
125	66.1	235.9	422,400	412,000	368,900 *
130	64.8	233.5	401,100	391,600	358,300 *
135	63.5	231.0	381,600	372,900	348,200 *
140	62.2	228.4	363,700	355,700	337,600 *
145	60.9	225.6	347,200	339,800	324,400 *
150	59.6	222.7	331,900	325,200	311,500
155	58.3	219.6	317,800	311,500	298,800
160	56.9	216.4	304,700	298,900	287,000
165	55.5	212.9	292,400	287,000	276,000
170	54.1	209.3	281,000	275,900	265,600
175	52.6	205.5	270,200	265,600	255,900
180	51.2	201.5	260,200	255,800	246,800
185	49.7	197.3	250,700	246,600	238,200
190	48.1	192.8	241,800	238,000	230,100
195	46.6	188.1	233,300	229,800	222,400
200	45.0	183.2	225,400	222,100	215,100
205	43.3	177.9	217,800	214,800	208,200
210	41.6	172.3	210,700	207,800	201,700
215	39.8	166.4	203,900	201,200	195,400
220	37.9	160.0	197,400	194,900	189,500
225	36.0	153.2	191,300	188,900	183,900
230	34.0	145.9	185,400	183,200	178,500
235	31.8	138.0	178,600 *	177,300 *	173,400
240	29.5	129.4	170,200 *	169,100 *	166,800 *
245	27.1	119.9	161,800 *	160,800 *	158,800 *
250	24.4	109.2	153,100 *	152,200 *	150,500 *
255	21.4	97.0	144,000 *	143,300 *	141,900 *
260	17.8	82.4	134,200 *	133,700 *	132,600 *



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275 Ft. Boom				
60	82.4	280.7	557,500 *	
65	81.4	279.9	552,400 *	483,200 *
70	80.3	279.1	547,100 *	478,900 *
75	79.3	278.1	541,800 *	474,500 *
80	78.2	277.1	536,500 *	470,100 *
85	77.1	275.9	531,200 *	465,700 *
90	76.1	274.7	525,800 *	461,300 *
95	75.0	273.3	520,500 *	456,900 *
100	73.9	271.9	515,200 *	452,600 *
105	72.8	270.4	493,100 *	448,200 *
110	71.7	268.7	469,500 *	443,900 *
115	70.6	266.9	447,900 *	435,900 *
120	69.5	265.1	428,300 *	417,400 *
125	68.4	263.1	410,100 *	400,100 *
130	67.3	261.0	393,200 *	384,100 *
135	66.1	258.8	377,500 *	368,600
140	65.0	256.4	360,300	351,500
145	63.8	254.0	343,800	335,700
150	62.6	251.4	328,600	321,200
155	61.4	248.7	314,500	307,600
160	60.2	245.8	301,400	295,000
165	59.0	242.8	289,200	283,200
170	57.8	239.7	277,800	272,200
175	56.6	236.4	267,100	261,900
180	55.3	232.9	257,000	252,200
185	54.0	229.3	247,600	243,100
190	52.7	225.5	238,700	234,400
195	51.4	221.5	230,300	226,300
200	50.0	217.4	222,400	218,600
205	48.6	213.0	214,800	211,300
210	47.2	208.4	207,700	204,400
215	45.8	203.5	200,900	197,800
220	44.3	198.4	194,500	191,600
225	42.7	193.1	188,400	185,600
230	41.2	187.4	182,500	179,900
235	39.5	181.4	176,900	174,500
240	37.8	175.0	171,600	169,300
245	36.1	168.2	166,500	164,300
250	34.3	161.0	161,600	159,600
255	32.3	153.2	156,200 *	154,900 *
260	30.3	144.8	149,400 *	148,300 *
265	28.1	135.7	142,600 *	141,600 *
270	25.8	125.6	135,700 *	134,800 *
275	23.2	114.3	128,500 *	127,700 *
280	20.3	101.4	121,000 *	120,300 *
285	17.0	86.1	112,700 *	112,200 *

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300 Ft. Boom				
65	82.1	305.2	479,300 *	
70	81.1	304.4	479,300 *	
75	80.2	303.6	475,300 *	
80	79.2	302.6	471,100 *	
85	78.2	301.6	466,800 *	
90	77.3	300.4	462,500 *	
95	76.3	299.2	458,200 *	400,000 *
100	75.3	297.9	453,800 *	397,100 *
105	74.3	296.5	449,400 *	393,500 *
110	73.3	295.0	438,800 *	389,900 *
115	72.3	293.4	419,000 *	386,200 *
120	71.3	291.7	400,900 *	382,600 *
125	70.3	289.9	384,200 *	373,700 *
130	69.2	288.0	368,800 *	359,100 *
135	68.2	286.0	354,400 *	345,500 *
140	67.2	283.9	341,100 *	332,800 *
145	66.1	281.7	328,500 *	320,900 *
150	65.1	279.4	316,700 *	309,700 *
155	64.0	276.9	305,600 *	299,000 *
160	63.0	274.4	295,100 *	289,000 *
165	61.9	271.7	285,100 *	278,800
170	60.8	268.9	273,900	267,800
175	59.7	266.0	263,300	257,600
180	58.5	263.0	253,300	247,900
185	57.4	259.8	243,800	238,800
190	56.3	256.4	235,000	230,300
195	55.1	252.9	226,600	222,200
200	53.9	249.3	218,600	214,500
205	52.7	245.5	211,100	207,200
210	51.5	241.6	204,000	200,300
215	50.3	237.4	197,300	193,800
220	49.0	233.1	190,800	187,600
225	47.7	228.6	184,700	181,600
230	46.4	223.8	178,900	176,000
235	45.1	218.9	173,300	170,500
240	43.7	213.7	168,000	165,400
245	42.3	208.2	162,900	160,400
250	40.8	202.5	158,000	155,700
255	39.3	196.4	153,300	151,100
260	37.8	190.0	148,900	146,800
265	36.2	183.2	144,600	142,600
270	34.5	176.1	140,400 *	138,600
275	32.7	168.4	134,900 *	133,700 *
280	30.9	160.2	129,400 *	128,300 *
285	29.0	151.3	123,800 *	122,800 *
290	26.9	141.6	118,100 *	117,300 *
295	24.6	131.1	112,300 *	111,600 *
300	22.2	119.2	106,300 *	105,600 *
305	19.4	105.7	99,900 *	99,400 *
310	16.2	89.7	92,900 *	92,500 *



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888 RINGER

Boom No. 67B, 120 Ft. Mast No. 49A
45 Ft. RINGER Attachment on Screw Jack Pedestals
1,395,100 Lb. Auxiliary Counterweight
Barge Mount - 1/2 Degree Thru 2 Degree Machine List
360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds
325 Ft. Boom			
70	81.8	329.7	396,400 *
75	80.9	328.9	396,400 *
80	80.0	328.1	396,400 *
85	79.1	327.1	396,400 *
90	78.2	326.1	396,400 *
95	77.3	324.9	396,400 *
100	76.4	323.7	396,400 *
105	75.5	322.4	396,400 *
110	74.6	321.1	396,300 *
115	73.7	319.6	392,000 *
120	72.8	318.0	375,600 *
125	71.8	316.4	360,100 *
130	70.9	314.7	345,800 *
135	70.0	312.9	332,600 *
140	69.0	310.9	320,200 *
145	68.1	308.9	308,600 *
150	67.1	306.8	297,800 *
155	66.2	304.6	287,600 *
160	65.2	302.3	277,900 *
165	64.2	299.9	268,800 *
170	63.2	297.4	260,100 *
175	62.2	294.7	251,800 *
180	61.2	292.0	243,900 *
185	60.2	289.1	236,300 *
190	59.2	286.1	229,100 *
195	58.1	283.0	222,100 *
200	57.1	279.8	215,400 *
205	56.0	276.5	207,900 *
210	55.0	273.0	200,800 *
215	53.9	269.3	194,100 *
220	52.8	265.5	187,700 *
225	51.6	261.6	181,600 *
230	50.5	257.5	175,800 *
235	49.3	253.2	170,200 *
240	48.2	248.7	164,900 *
245	47.0	244.1	159,800 *
250	45.7	239.2	155,000 *
255	44.5	234.2	150,300 *
260	43.2	228.9	145,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds
325 Ft. Boom			
265	41.9	223.3	141,500
270	40.5	217.5	137,400
275	39.1	211.4	133,400
280	37.7	205.0	129,600
285	36.2	198.3	125,400 *
290	34.7	191.1	120,800 *
295	33.1	183.5	116,200 *
300	31.4	175.4	111,600 *
305	29.6	166.8	107,000 *
310	27.8	157.5	102,300 *
315	25.8	147.4	97,500 *
320	23.6	136.3	92,600 *
325	21.3	123.9	87,500 *
330	18.6	109.8	82,000 *
335	15.6	93.0	75,900 *
350 Ft. Boom			
70	82.4	355.0	326,800 *
75	81.6	354.3	326,800 *
80	80.8	353.5	326,800 *
85	79.9	352.6	326,800 *
90	79.1	351.6	326,800 *
95	78.3	350.5	326,800 *
100	77.4	349.4	326,800 *
105	76.6	348.2	326,800 *
110	75.7	347.0	326,800 *
115	74.9	345.6	326,800 *
120	74.0	344.2	326,800 *
125	73.2	342.7	326,800 *
130	72.3	341.1	323,600 *
135	71.5	339.4	311,200 *
140	70.6	337.6	299,600 *
145	69.7	335.8	288,800 *
150	68.8	333.9	278,700 *
155	68.0	331.8	269,200 *
160	67.1	329.7	260,200 *
165	66.2	327.5	251,700 *
170	65.3	325.2	243,700 *
175	64.4	322.8	236,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds
350 Ft. Boom			
180	63.5	320.3	228,800 *
185	62.5	317.7	221,800 *
190	61.6	315.0	215,200 *
195	60.7	312.2	208,800 *
200	59.7	309.3	202,600 *
205	58.8	306.3	196,700 *
210	57.8	303.1	191,000 *
215	56.8	299.9	185,500 *
220	55.8	296.5	180,100 *
225	54.8	293.0	175,000 *
230	53.8	289.3	169,900 *
235	52.8	285.5	165,000 *
240	51.7	281.6	160,300 *
245	50.7	277.5	155,600 *
250	49.6	273.3	151,100 *
255	48.5	268.9	146,700 *
260	47.4	264.3	142,200 *
265	46.3	259.5	137,900 *
270	45.1	254.6	133,800 *
275	44.0	249.4	129,800 *
280	42.8	244.1	125,800 *
285	41.5	238.4	121,800 *
290	40.3	232.6	117,800 *
295	39.0	226.4	113,900 *
300	37.6	220.0	110,000 *
305	36.3	213.3	106,200 *
310	34.8	206.1	102,300 *
315	33.4	198.6	98,500 *
320	31.8	190.7	94,600 *
325	30.2	182.2	90,700 *
330	28.5	173.2	86,800 *
335	26.7	163.4	82,800 *
340	24.8	152.9	78,700 *
345	22.7	141.3	74,400 *
350	20.5	128.4	69,900 *
355	17.9	113.7	65,200 *