

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4
RINGER SERIES 3

BOOM NO. 65
60' RINGER ATTACHMENT ON
BLOCKING OR PEDESTALS
123,000 LB. CRANE COUNTERWEIGHT
442,300 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING

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 CAPACITIES FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE ARE 44,000 LBS. FOR 1-1/4" WIRE ROPE, 45,000 LBS. FOR 1-3/8" WIRE ROPE AND 50,000 LBS. FOR 1-1/2" OR 1-5/8" WIRE ROPE. CAPACITIES FOR TWO PART LINE ARE 88,000 LBS. FOR 1-1/4" WIRE ROPE, 90,000 LBS. FOR 1-3/8" WIRE ROPE AND 100,000 LBS. FOR 1-1/2" OR 1-5/8" WIRE ROPE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE 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.

MACHINE TO OPERATE ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH ROLLER PATH LEVEL WITHIN A TOLERANCE OF 1-1/4" IN 60' AND PROPERLY SUPPORTED. REFER TO RIGGING NO. 66184 AND WIRE ROPE SPECIFICATION CHART NO. 7307-A OR NO. 7357-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.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE 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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 60' RINGER ATTACHMENT, 30" 5" CRAWLERS, 60" TREADS, 33' RETRACTABLE GANTRY, 130' MAST, 18 PART BOOM HOIST REEVING, EIGHT 1-3/8" BOOM PENDANTS, 123,000 LB. CRANE COUNTERWEIGHT (120,000 LBS. WITH COUNTERWEIGHT ASSEMBLY NO. 49667) AND 442,300 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
BOOM LGTH.	JIB NO. 27AB	JIB LGTH.	JIB NO. 27AB
400'	--	80'	48,000 LBS.
340'	120'	100'	57,800 LBS.
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.		120'	67,000 LBS.

WARNING: CHECK AMOUNT OF AUXILIARY COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
140	55	80.1	145.5	1,499,400	180	60	80.7	185.2	1,245,200	200	60	81.7	205.5	1,242,500
	60	78.0	144.5	1,252,600		65	79.1	184.3	1,066,300		65	80.2	204.7	1,063,500
	65	75.9	143.2	1,073,700		70	77.5	183.2	930,600		70	78.7	203.7	927,800
	70	73.8	141.8	938,100		75	75.8	182.0	824,200		75	77.3	202.6	821,500
	75	71.6	140.2	831,800		80	74.2	180.6	738,600		80	75.8	201.3	735,800
	80	69.5	138.3	746,100		85	72.5	179.0	668,100		85	74.3	199.9	665,300
	85	67.2	136.2	675,700		90	70.8	177.3	609,200		90	72.8	198.4	606,400
	90	65.0	133.9	616,800		95	69.1	175.4	559,100		95	71.3	196.7	556,300
	95	62.7	131.4	566,700		100	67.4	173.3	516,000		100	69.8	194.9	513,200
	100	60.3	128.6	523,600		105	65.7	171.1	478,600		105	68.2	192.9	475,800
	105	57.9	125.5	486,200		110	63.9	168.7	445,800		110	66.7	190.8	443,000
	110	55.5	122.1	453,400		115	62.1	166.1	416,800		115	65.1	188.5	413,900
	115	52.9	118.4	424,400		120	60.3	163.2	390,900		120	63.5	186.0	388,100
	120	50.3	114.3	398,600		125	58.4	160.2	367,800		125	61.9	183.4	364,900
	125	47.5	109.8	375,400		130	56.5	156.9	346,900		130	60.2	180.6	344,100
	130	44.7	104.9	354,500		135	54.6	153.4	328,000		135	58.6	177.5	325,100
135	41.6	99.4	335,600	140	52.6	149.6	310,700	140	56.9	174.3	307,900			
140	38.4	93.3	318,400	145	50.5	145.6	295,000	145	55.1	170.9	292,200			
145	34.9	86.3	302,600	150	48.4	141.2	280,600	150	53.3	167.2	277,700			
150	31.0	78.4	288,200	155	46.2	136.5	267,300	155	51.5	163.2	264,400			
155	26.7	69.0	274,800	160	43.9	131.4	255,000	160	49.7	159.1	252,200			
160	21.5	57.3	262,500	165	41.6	125.8	243,600	165	47.7	154.6	240,800			
				170	39.1	119.8	233,000	170	45.7	149.8	230,200			
				175	36.4	113.2	223,100	175	43.7	144.6	220,300			
				180	33.6	105.9	213,900	180	41.6	139.1	211,100			
				185	30.6	97.7	205,300	185	39.3	133.1	202,500			
				190	27.2	88.4	197,200	190	37.0	126.6	194,400			
				195	23.4	77.5	189,500	195	34.5	119.5	186,800			
				200	18.8	64.2	182,400	200	31.8	111.7	179,600			
								205	28.9	102.9	172,900			
								210	25.8	93.0	166,500			
								215	22.1	81.5	160,400			
								220	17.8	67.3	154,700			

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
220	65	81.1	225.0	1,061,000	240	65	81.9	245.2	1,009,900*	260	235	38.0	166.6	131,500	
	70	79.8	224.1	925,300		70	80.6	244.4	922,800		240	36.2	159.8	126,800	
	75	78.5	223.1	818,900		75	79.4	243.5	816,400		245	34.3	152.7	122,300	
	80	77.1	221.9	733,200		80	78.2	242.4	730,800		250	32.2	144.9	118,100	
	85	75.8	220.7	662,800		85	77.0	241.3	660,300		255	30.1	136.5	114,000	
	90	74.4	219.3	603,800		90	75.8	240.0	601,300		260	27.8	127.3	110,100	
	95	73.1	217.8	553,700		95	74.5	238.7	551,200		265	25.3	117.0	106,300	
	100	71.7	216.2	510,700		100	73.3	237.2	508,100		270	22.5	105.5	102,800	
	105	70.3	214.4	473,200		105	72.0	235.6	470,700		275	19.3	92.1	99,300	
	110	68.9	212.5	440,400		110	70.8	233.8	437,900		280	15.6	75.8	96,000	
	115	67.5	210.4	411,400		115	69.5	232.0	408,900		280	70	82.0	284.9	759,800*
	120	66.1	208.2	385,500		120	68.2	230.0	383,000			75	81.0	284.1	748,200*
	125	64.6	205.9	362,400		125	66.9	227.9	359,800			80	79.9	283.2	725,500
	130	63.2	203.4	341,500		130	65.6	225.6	339,000			85	78.9	282.3	655,000
	135	61.7	200.7	322,600		135	64.3	223.2	320,000			90	77.8	281.2	596,000
	140	60.2	197.9	305,400		140	62.9	220.7	302,800			95	76.8	280.0	545,900
	145	58.7	194.9	289,600		145	61.6	218.0	287,100			100	75.7	278.8	502,800
	150	57.2	191.7	275,200		150	60.2	215.2	272,600			105	74.7	277.4	465,400
	155	55.6	188.3	261,900		155	58.8	212.2	259,300			110	73.6	276.0	432,500
	160	54.0	184.7	249,600		160	57.4	209.0	247,100			115	72.5	274.4	403,500
	165	52.3	180.9	238,200		165	56.0	205.7	235,700			120	71.4	272.7	377,600
	170	50.7	176.8	227,600		170	54.5	202.1	225,100			125	70.4	271.0	354,500
	175	48.9	172.5	217,800		175	53.0	198.4	215,200		130	69.3	269.1	333,600	
	180	47.2	167.9	208,500		180	51.5	194.5	206,000		135	68.2	267.1	314,700	
185	45.4	163.1	199,900	185	49.9	190.3	197,400	140	67.1	265.0	297,500				
190	43.5	157.9	191,800	190	48.3	185.9	189,300	145	65.9	262.8	281,700				
195	41.5	152.3	184,200	195	46.7	181.3	181,700	150	64.8	260.4	267,300				
200	39.5	146.3	177,100	200	45.0	176.3	174,500	155	63.7	258.0	254,000				
205	37.4	139.9	170,300	205	43.3	171.1	167,800	160	62.5	255.4	241,700				
210	35.2	133.0	163,900	210	41.5	165.5	161,400	165	61.4	252.7	230,300				
215	32.8	125.4	157,900	215	39.7	159.6	155,400	170	60.2	249.8	219,700				
220	30.3	117.1	152,100	220	37.7	153.3	149,600	175	59.0	246.8	209,800				
225	27.5	107.9	146,700	225	35.7	146.4	144,200	180	57.8	243.7	200,600				
230	24.5	97.4	141,500	230	33.6	139.1	139,000	185	56.6	240.4	192,000				
235	21.1	85.2	136,600	235	31.4	131.1	134,100	190	55.3	237.0	183,900				
240	17.0	70.2	131,900	240	28.9	122.3	129,400	195	54.1	233.4	176,300				
				245	26.3	112.5	125,000	200	52.8	229.6	169,200				
				250	23.4	101.5	120,700	205	51.5	225.7	162,400				
				255	20.1	88.7	116,600	210	50.1	221.6	156,000				
				260	16.2	73.1	112,700	215	48.8	217.2	150,000				
				70	81.4	264.7	862,800*	220	47.4	212.7	144,300				
				75	80.3	263.8	813,800	225	46.0	207.9	138,800				
				80	79.1	262.9	728,100	230	44.5	202.9	133,700				
				85	78.0	261.8	657,700	235	43.0	197.6	128,800				
				90	76.9	260.7	598,700	240	41.5	192.0	124,100				
				95	75.7	259.4	548,600	245	39.9	186.1	119,600				
				100	74.6	258.0	505,500	250	38.3	179.9	115,400				
				105	73.4	256.6	468,100	255	36.6	173.2	111,300				
				110	72.3	255.0	435,300	260	34.8	166.2	107,400				
				115	71.1	253.3	406,200	265	33.0	158.6	103,600				
				120	70.0	251.5	380,400	270	31.0	150.5	100,000				
				125	68.8	249.6	357,200	275	28.9	141.7	96,600				
				130	67.6	247.5	336,300	280	26.7	132.0	93,300				
				135	66.4	245.3	317,400	285	24.3	121.4	90,100				
				140	65.2	243.0	300,200	290	21.6	109.3	87,100				
				145	63.9	240.6	284,400	295	18.6	95.4	84,100				
				150	62.7	238.1	270,000								
				155	61.5	235.4	256,700								
				160	60.2	232.5	244,400								
				165	58.9	229.5	233,000								
				170	57.6	226.4	222,400								
				175	56.3	223.1	212,600								
				180	54.9	219.6	203,400								
				185	53.6	215.9	194,800								
				190	52.2	212.1	186,700								
				195	50.8	208.0	179,100								
				200	49.3	203.8	171,900								
				205	47.8	199.3	165,200								
				210	46.3	194.6	158,800								
				215	44.8	189.6	152,700								
				220	43.2	184.3	147,000								
				225	41.5	178.8	141,600								
				230	39.8	172.8	136,400								

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3000	75	81.6	304.4	653,500*	3200	200	58.1	278.4	163,700	3400	305	36.1	206.5	70,100	
	80	80.6	303.6	643,900*		205	57.0	275.2	157,000		310	34.6	199.3	67,400	
	85	79.6	302.6	634,100*		210	55.9	271.8	150,600		315	33.1	191.8	64,900	
	90	78.7	301.7	593,000		215	54.8	268.3	144,600		320	31.5	183.8	62,400	
	95	77.7	300.6	542,900		220	53.7	264.7	138,800		325	29.8	175.2	60,100	
	100	76.7	299.4	499,800		225	52.6	260.9	133,400		330	28.1	166.0	57,800	
	105	75.7	298.1	462,300		230	51.4	256.9	128,200		335	26.2	156.1	55,600	
	110	74.7	296.8	429,500		235	50.3	252.8	123,300		340	24.2	145.3	53,400	
	115	73.7	295.3	400,500		240	49.1	248.5	118,600		345	22.0	133.4	51,300	
	120	72.7	293.8	374,600		245	47.9	244.0	114,200		3600	90	80.6	362.7	434,300*
	125	71.7	292.1	351,400		250	46.7	239.4	109,900			95	79.8	361.8	428,000*
	130	70.7	290.4	330,600		255	45.4	234.5	105,800			100	78.9	360.9	421,700*
	135	69.7	288.6	311,600		260	44.1	229.4	101,900			105	78.1	359.8	415,200*
	140	68.7	286.6	294,400		265	42.8	224.0	98,200			110	77.3	358.7	408,700*
	145	67.6	284.6	278,700		270	41.5	218.4	94,600			115	76.5	357.5	392,600
	150	66.6	282.4	264,200		275	40.1	212.6	91,200			120	75.7	356.2	366,700
	155	65.5	280.2	250,900		280	38.7	206.4	87,900			125	74.9	354.9	343,500
160	64.5	277.8	238,600	285	37.2	199.9	84,700	130	74.0	353.5		322,600			
165	63.4	275.3	227,200	290	35.7	193.1	81,700	135	73.2	352.0		303,700			
170	62.3	272.7	216,700	295	34.1	185.8	78,700	140	72.4	350.4		286,500			
175	61.3	270.0	206,800	300	32.5	178.1	75,900	145	71.5	348.7		270,700			
180	60.2	267.2	197,600	305	30.8	169.9	73,200	150	70.7	347.0		256,300			
185	59.1	264.2	189,000	310	28.9	161.0	70,500	155	69.8	345.2		243,000			
190	57.9	261.1	180,900	315	27.0	151.5	68,000	160	69.0	343.2		230,700			
195	56.8	257.8	173,300	320	24.9	141.0	65,500	165	68.1	341.2		219,300			
200	55.6	254.4	166,100	325	22.7	129.5	63,200	170	67.3	339.2		208,700			
205	54.5	250.9	159,400	330	20.2	116.6	60,900	175	66.4	337.0	198,800				
210	53.3	247.2	153,000	335	17.4	101.6	58,600	180	65.5	334.7	189,600				
215	52.1	243.3	146,900	3400	80	81.7	344.1	508,800*	185	64.6	332.4	181,000			
220	50.8	239.3	141,200		85	80.9	343.3	501,700*	190	63.8	329.9	172,900			
225	49.6	235.0	135,800		90	80.0	342.4	494,500*	195	62.9	327.4	165,300			
230	48.3	230.6	130,600		95	79.1	341.5	487,100*	200	62.0	324.7	158,200			
235	47.0	226.0	125,700		100	78.3	340.4	479,700*	205	61.1	322.0	151,400			
240	45.7	221.2	121,000		105	77.4	339.3	456,900	210	60.1	319.1	145,000			
245	44.3	216.1	116,600		110	76.6	338.1	424,000	215	59.2	316.1	139,000			
250	42.9	210.8	112,300		115	75.7	336.9	395,000	220	58.3	313.1	133,300			
255	41.5	205.2	108,200		120	74.8	335.5	369,100	225	57.3	309.9	127,800			
260	40.0	199.3	104,300		125	73.9	334.1	346,000	230	56.4	306.6	122,700			
265	38.5	193.1	100,600		130	73.1	332.6	325,100	235	55.4	303.2	117,700			
270	36.9	186.6	97,000		135	72.2	331.0	306,100	240	54.4	299.6	113,100			
275	35.3	179.6	93,600		140	71.3	329.3	288,900	245	53.4	295.9	108,600			
280	33.6	172.2	90,300		145	70.4	327.5	273,200	250	52.4	292.1	104,300			
285	31.8	164.3	87,100		150	69.5	325.7	258,700	255	51.4	288.1	100,300			
290	29.9	155.8	84,000		155	68.6	323.7	245,400	260	50.4	284.0	96,400			
295	27.9	146.7	81,100		160	67.7	321.7	233,100	265	49.4	279.8	92,600			
300	25.8	136.6	78,300	165	66.8	319.5	221,700	270	48.3	275.4	89,100				
305	23.5	125.5	75,500	170	65.8	317.3	211,100	275	47.2	270.8	85,600				
310	20.9	113.0	72,900	175	64.9	315.0	201,300	280	46.1	266.0	82,300				
315	18.0	98.5	70,400	180	64.0	312.6	192,100	285	45.0	261.0	79,200				
3200	80	81.2	323.8	567,200*	185	63.0	310.0	183,500	290	43.9	255.9	76,100			
	85	80.3	323.0	559,000*	190	62.1	307.4	175,400	295	42.7	250.5	73,200			
	90	79.4	322.1	550,700*	195	61.1	304.6	167,800	300	41.5	244.9	70,300			
	95	78.5	321.0	540,500	200	60.1	301.8	160,600	305	40.3	239.1	67,600			
	100	77.5	319.9	497,400	205	59.2	298.8	153,800	310	39.0	233.0	65,000			
	105	76.6	318.8	460,000	210	58.2	295.7	147,500	315	37.7	226.6	62,400			
	110	75.7	317.5	427,100	215	57.2	292.5	141,400	320	36.4	219.9	60,000			
	115	74.8	316.1	398,100	220	56.2	289.2	135,700	325	35.0	212.8	57,600			
	120	73.8	314.7	372,200	225	55.1	285.7	130,300	330	33.6	205.4	55,300			
	125	72.9	313.2	349,100	230	54.1	282.1	125,100	335	32.1	197.6	53,100			
	130	72.0	311.6	328,200	235	53.0	278.4	120,200	340	30.6	189.3	51,000			
	135	71.0	309.9	309,200	240	52.0	274.5	115,500							
	140	70.1	308.1	292,000	245	50.9	270.5	111,100							
	145	69.1	306.2	276,300	250	49.8	266.3	106,800							
	150	68.1	304.2	261,800	255	48.7	261.9	102,700							
	155	67.2	302.1	248,500	260	47.5	257.4	98,800							
	160	66.2	299.9	236,200	265	46.4	252.7	95,100							
165	65.2	297.6	224,800	270	45.2	247.8	91,500								
170	64.2	295.2	214,300	275	44.0	242.6	88,100								
175	63.2	292.7	204,400	280	42.8	237.3	84,800								
180	62.2	290.1	195,200	285	41.5	231.7	81,600								
185	61.2	287.3	186,600	290	40.2	225.8	78,500								
190	60.2	284.5	178,500	295	38.9	219.7	75,600								
195	59.1	281.5	170,900	300	37.5	213.3	72,800								

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4
RINGER SERIES 3

BOOM NO. 65
60' RINGER ATTACHMENT ON
BLOCKING OR PEDESTALS
123,000 LB. CRANE COUNTERWEIGHT
442,300 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
3080	95	80.3	382.1	385,100*	400	95	80.8	402.4	333,800*
	100	79.5	381.2	379,500*		100	80.1	401.6	329,100*
	105	78.8	380.2	373,700*		105	79.3	400.6	324,300*
	110	78.0	379.2	367,800*		110	78.6	399.6	319,300*
	115	77.2	378.1	361,800*		115	77.9	398.6	314,000*
	120	76.4	376.9	355,800*		120	77.1	397.4	308,400*
	125	75.7	375.6	349,400		125	76.4	396.2	302,700*
	130	74.9	374.3	319,500		130	75.7	395.0	296,900*
	135	74.1	372.8	300,600		135	74.9	393.6	291,200*
	140	73.3	371.3	283,400		140	74.2	392.2	280,900*
	145	72.5	369.8	267,600		145	73.4	390.7	265,100
	150	71.7	368.1	253,200		150	72.7	389.2	250,700
	155	70.9	366.4	239,900		155	71.9	387.6	237,400
	160	70.1	364.6	227,600		160	71.2	385.9	225,100
	165	69.3	362.8	216,200		165	70.4	384.1	213,700
	170	68.5	360.8	205,600		170	69.6	382.2	203,100
	175	67.7	358.8	195,700		175	68.9	380.3	193,200
	180	66.9	356.6	186,500		180	68.1	378.3	184,000
	185	66.1	354.4	177,900		185	67.3	376.2	175,400
	190	65.2	352.1	169,800		190	66.6	374.1	167,300
	195	64.4	349.7	162,200		195	65.8	371.8	159,700
	200	63.6	347.3	155,000		200	65.0	369.5	152,600
	205	62.7	344.7	148,300		205	64.2	367.1	145,800
	210	61.9	342.0	141,900		210	63.4	364.6	139,400
	215	61.0	339.3	135,900		215	62.6	362.0	133,400
	220	60.1	336.4	130,100		220	61.8	359.4	127,700
	225	59.3	333.5	124,700		225	60.9	356.6	122,200
	230	58.4	330.4	119,500		230	60.1	353.8	117,100
	235	57.5	327.2	114,600		235	59.3	350.8	112,100
	240	56.6	324.0	110,000		240	58.5	347.7	107,500
	245	55.7	320.6	105,500		245	57.6	344.6	103,000
	250	54.7	317.0	101,200		250	56.7	341.3	98,700
	255	53.8	313.4	97,100		255	55.9	338.0	94,700
260	52.9	309.6	93,300	260	55.0	334.5	90,800		
265	51.9	305.8	89,500	265	54.1	330.9	87,000		
270	50.9	301.7	85,900	270	53.2	327.2	83,400		
275	50.0	297.6	82,500	275	52.3	323.3	80,000		
280	49.0	293.2	79,200	280	51.4	319.4	76,700		
285	48.0	288.8	76,000	285	50.5	315.3	73,500		
290	46.9	284.1	73,000	290	49.6	311.0	70,500		
295	45.9	279.3	70,100	295	48.6	306.7	67,600		
300	44.8	274.3	67,200	300	47.6	302.1	64,700		
305	43.7	269.1	64,500	305	46.7	297.4	62,000		
310	42.6	263.7	61,900	310	45.7	292.6	59,400		
315	41.5	258.1	59,300	315	44.6	287.6	56,800		
320	40.3	252.3	56,900	320	43.6	282.4	54,400		
325	39.1	246.2	54,500	325	42.6	277.0	52,000		
330	37.9	239.9	52,200						
335	36.7	233.2	50,000						