

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

889,300 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 889,300 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.
380'	---	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	1,500,000*	180	60	80.7	185.2	1,500,000*	200	60	81.7	205.5	1,301,700*
	60	78.0	144.5	1,500,000*		65	79.1	184.3	1,500,000*		65	80.2	204.7	1,301,700*
	65	75.9	143.2	1,500,000*		70	77.5	183.2	1,399,000		70	78.7	203.7	1,281,600*
	70	73.8	141.8	1,406,500		75	75.8	182.0	1,242,100		75	77.3	202.6	1,239,300
	75	71.6	140.2	1,249,600		80	74.2	180.6	1,115,700		80	75.8	201.3	1,112,900
	80	69.5	138.3	1,123,300		85	72.5	179.0	1,011,800		85	74.3	199.9	1,009,000
	85	67.2	136.2	1,019,400		90	70.8	177.3	924,800		90	72.8	198.4	922,000
	90	65.0	133.9	932,400		95	69.1	175.4	851,000		95	71.3	196.7	848,100
	95	62.7	131.4	858,600		100	67.4	173.3	787,400		100	69.8	194.9	784,600
	100	60.3	128.6	795,100		105	65.7	171.1	732,200		105	68.2	192.9	729,400
	105	57.9	125.5	733,300*		110	63.9	168.7	683,800		110	66.7	190.8	681,000
	110	55.5	122.1	677,700*		115	62.1	166.1	641,000		115	65.1	188.5	638,200
	115	52.9	118.4	628,500*		120	60.3	163.2	602,900		120	63.5	186.0	600,100
	120	50.3	114.3	584,500*		125	58.4	160.2	568,700		125	61.9	183.4	565,900
	125	47.5	109.8	544,900*		130	56.5	156.9	537,900		130	60.2	180.6	535,100
	130	44.7	104.9	508,900*		135	54.6	153.4	510,000		135	58.6	177.5	507,200
	135	41.6	99.4	475,300*		140	52.6	149.6	484,600		140	56.9	174.3	481,800
	140	38.4	93.3	442,400*		145	50.5	145.6	461,400		145	55.1	170.9	458,600
160	145	34.9	86.3	411,600*		150	48.4	141.2	440,100		150	53.3	167.2	437,300
	150	31.0	78.4	382,600*		155	46.2	136.5	416,000*		155	51.5	163.2	417,700
	155	26.7	69.0	354,500*		160	43.9	131.4	392,800*		160	49.7	159.1	399,600
	160	21.5	57.3	326,500*		165	41.6	125.8	371,200*		165	47.7	154.6	382,800
						170	39.1	119.8	350,900*		170	45.7	149.8	367,200
						175	36.4	113.2	331,900*		175	43.7	144.6	349,800*
						180	33.6	105.9	313,800*		180	41.6	139.1	331,700*
						185	30.6	97.7	296,600*		185	39.3	133.1	314,700*
						190	27.2	88.4	278,900*		190	37.0	126.6	298,600*
						195	23.4	77.5	260,100*		195	34.5	119.5	283,300*
						200	18.8	64.2	241,000*		200	31.8	111.7	268,700*
											205	28.9	102.9	254,600*
											210	25.8	93.0	240,800*
											215	22.1	81.5	225,800*
											220	17.8	67.3	209,500*

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60' RINGER ATTACHMENT ON
BLOCKING OR PEDESTALS
123,000 LB. CRANE COUNTERWEIGHT
889,300 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	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
220	65	81.1	225.0	1,138,000*	240	65	81.9	245.2	1,009,900*	260	235	38.0	166.6	220,000*
	70	79.8	224.1	1,110,500*		70	80.6	244.4	992,400*		240	36.2	159.8	210,000*
	75	78.5	223.1	1,083,900*		75	79.4	243.5	975,000*		245	34.3	152.7	200,500*
	80	77.1	221.9	1,058,300*		80	78.2	242.4	957,700*		250	32.2	144.9	191,200*
	85	75.8	220.7	1,006,500		85	77.0	241.3	940,700*		255	30.1	136.5	182,300*
	90	74.4	219.3	919,500		90	75.8	240.0	917,000		260	27.8	127.3	173,500*
	95	73.1	217.8	845,600		95	74.5	238.7	843,100		265	25.3	117.0	165,000*
	100	71.7	216.2	782,100		100	73.3	237.2	779,500		270	22.5	105.5	156,500*
	105	70.3	214.4	726,900		105	72.0	235.6	724,300		275	19.3	92.1	147,900*
	110	68.9	212.5	678,400		110	70.8	233.8	675,900		280	15.6	75.8	138,400*
	115	67.5	210.4	635,600		115	69.5	232.0	633,100		70	82.0	284.9	759,800*
	120	66.1	208.2	597,500		120	68.2	230.0	595,000		75	81.0	284.1	748,200*
	125	64.6	205.9	563,300		125	66.9	227.9	560,800		80	79.9	283.2	736,500*
	130	63.2	203.4	532,600		130	65.6	225.6	530,000		85	78.9	282.3	724,700*
	135	61.7	200.7	504,600		135	64.3	223.2	502,100		90	77.8	281.2	713,000*
	140	60.2	197.9	479,300		140	62.9	220.7	476,700		95	76.8	280.0	701,300*
	145	58.7	194.9	456,000		145	61.6	218.0	453,500		100	75.7	278.8	689,700*
	150	57.2	191.7	434,700		150	60.2	215.2	432,200		105	74.7	277.4	678,200*
	155	55.6	188.3	415,100		155	58.8	212.2	412,600		110	73.6	276.0	666,800*
	160	54.0	184.7	397,000		160	57.4	209.0	394,500		115	72.5	274.4	627,800
	165	52.3	180.9	380,200		165	56.0	205.7	377,700		120	71.4	272.7	589,600
	170	50.7	176.8	364,600		170	54.5	202.1	362,100		125	70.4	271.0	555,500
	175	48.9	172.5	350,100		175	53.0	198.4	347,500		130	69.3	269.1	524,700
	180	47.2	167.9	336,500		180	51.5	194.5	333,900		135	68.2	267.1	496,700
	185	45.4	163.1	323,800		185	49.9	190.3	321,200		140	67.1	265.0	471,400
	190	43.5	157.9	311,800		190	48.3	185.9	309,300		145	65.9	262.8	448,100
	195	41.5	152.3	297,800*		195	46.7	181.3	298,100		150	64.8	260.4	426,800
	200	39.5	146.3	283,300*		200	45.0	176.3	287,500		155	63.7	258.0	407,200
	205	37.4	139.9	269,500*		205	43.3	171.1	277,600		160	62.5	255.4	389,100
	210	35.2	133.0	256,400*		210	41.5	165.5	267,500*		165	61.4	252.7	372,300
260	215	32.8	125.4	243,800*		215	39.7	159.6	255,000*		170	60.2	249.8	356,700
	220	30.3	117.1	231,700*		220	37.7	153.3	243,100*		175	59.0	246.8	342,100
	225	27.5	107.9	220,000*		225	35.7	146.4	231,800*		180	57.8	243.7	328,600
	230	24.5	97.4	208,500*		230	33.6	139.1	220,900*		185	56.6	240.4	315,900
	235	21.1	85.2	196,900*		235	31.4	131.1	210,400*		190	55.3	237.0	303,900
	240	17.0	70.2	182,800*		240	28.9	122.3	200,200*		195	54.1	233.4	292,700
						245	26.3	112.5	190,200*		200	52.8	229.6	282,200
						250	23.4	101.5	180,400*		205	51.5	225.7	272,200
						255	20.1	88.7	170,500*		210	50.1	221.6	262,800
						260	16.2	73.1	158,900*		215	48.8	217.2	253,900
						70	81.4	264.7	862,800*		220	47.4	212.7	245,500
						75	80.3	263.8	848,600*		225	46.0	207.9	237,500
						80	79.1	262.9	834,500*		230	44.5	202.9	229,800
						85	78.0	261.8	820,400*		235	43.0	197.6	222,600
						90	76.9	260.7	806,400*		240	41.5	192.0	215,700
						95	75.7	259.4	792,700*		245	39.9	186.1	208,100*
						100	74.6	258.0	776,900		250	38.3	179.9	198,900*
						105	73.4	256.6	721,700		255	36.6	173.2	190,100*
						110	72.3	255.0	673,300		260	34.8	166.2	181,600*
						115	71.1	253.3	630,500		265	33.0	158.6	173,400*
						120	70.0	251.5	592,400		270	31.0	150.5	165,500*
						125	68.8	249.6	558,200		275	28.9	141.7	157,800*
						130	67.6	247.5	527,400		280	26.7	132.0	150,200*
						135	66.4	245.3	499,500		285	24.3	121.4	142,800*
						140	65.2	243.0	474,100		290	21.6	109.3	135,300*
						145	63.9	240.6	450,900		295	18.6	95.4	127,800*
						150	62.7	238.1	429,600					
						155	61.5	235.4	410,000					
						160	60.2	232.5	391,800					
						165	58.9	229.5	375,000					
						170	57.6	226.4	359,400					
						175	56.3	223.1	344,900					
						180	54.9	219.6	331,300					
						185	53.6	215.9	318,600					
						190	52.2	212.1	306,700					
						195	50.8	208.0	295,500					
						200	49.3	203.8	284,900					
						205	47.8	199.3	274,900					
						210	46.3	194.6	265,500					
						215	44.8	189.6	256,600					
						220	43.2	184.3	248,200					
						225	41.5	178.8	240,200					
						230	39.8	172.8	230,400*					

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300	75	81.6	304.4	653,500*	320	200	58.1	278.4	276,700	340	305	36.1	206.5	132,800*
	80	80.6	303.6	643,900*		205	57.0	275.2	266,800		310	34.6	199.3	126,800*
	85	79.6	302.6	634,100*		210	55.9	271.8	257,400		315	33.1	191.8	121,100*
	90	78.7	301.7	624,200*		215	54.8	268.3	248,500		320	31.5	183.8	115,500*
	95	77.7	300.6	614,300*		220	53.7	264.7	240,000		325	29.8	175.2	110,000*
	100	76.7	299.4	604,400*		225	52.6	260.9	232,000		330	28.1	166.0	104,600*
	105	75.7	298.1	594,600*		230	51.4	256.9	224,400		335	26.2	156.1	99,300*
	110	74.7	296.8	584,800*		235	50.3	252.8	217,200		340	24.2	145.3	94,100*
	115	73.7	295.3	575,000*		240	49.1	248.5	210,300		345	22.0	133.4	88,900*
	120	72.7	293.8	565,300*		245	47.9	244.0	203,700		350	19.6	120.0	83,600*
	125	71.7	292.1	552,400		250	46.7	239.4	197,400		355	16.8	104.5	78,200*
	130	70.7	290.4	521,600		255	45.4	234.5	191,400					
	135	69.7	288.6	493,700		260	44.1	229.4	185,600		90	80.6	362.7	434,300*
	140	68.7	286.6	468,300		265	42.8	224.0	180,100		95	79.8	361.8	428,000*
	145	67.6	284.6	445,100		270	41.5	218.4	174,800		100	78.9	360.9	421,700*
	150	66.6	282.4	423,800		275	40.1	212.6	169,400*		105	78.1	359.8	415,200*
	155	65.5	280.2	404,200		280	38.7	206.4	162,100*		110	77.3	358.7	408,700*
	160	64.5	277.8	386,000		285	37.2	199.9	155,100*		115	76.5	357.5	402,100*
	165	63.4	275.3	369,200		290	35.7	193.1	148,300*		120	75.7	356.2	395,400*
	170	62.3	272.7	353,600		295	34.1	185.8	141,700*		125	74.9	354.9	388,800*
	300	175	61.3	270.0		339,100	300	32.5	178.1		135,300*	130	74.0	353.5
180		60.2	267.2	325,500	305	30.8	169.9	129,100*	135	73.2	352.0	375,400*		
185		59.1	264.2	312,800	310	28.9	161.0	123,100*	140	72.4	350.4	368,800*		
190		57.9	261.1	300,900	315	27.0	151.5	117,100*	145	71.5	348.7	362,100*		
195		56.8	257.8	289,700	320	24.9	141.0	111,200*	150	70.7	347.0	355,500*		
200		55.6	254.4	279,100	325	22.7	129.5	105,400*	155	69.8	345.2	348,800*		
205		54.5	250.9	269,200	330	20.2	116.6	99,000*	160	69.0	343.2	341,800*		
210		53.3	247.2	259,800	335	17.4	101.6	93,600*	165	68.1	341.2	334,900*		
215		52.1	243.3	250,800	80	81.7	344.1	508,800*	170	67.3	339.2	328,100*		
220		50.8	239.3	242,400	85	80.9	343.3	501,700*	175	66.4	337.0	321,300*		
225		49.6	235.0	234,400	90	80.0	342.4	494,500*	180	65.5	334.7	314,600*		
230		48.3	230.6	226,800	95	79.1	341.5	487,100*	185	64.6	332.4	304,800*		
235		47.0	226.0	219,500	100	78.3	340.4	479,700*	190	63.8	329.9	292,900*		
240		45.7	221.2	212,600	105	77.4	339.3	472,100*	195	62.9	327.4	281,700*		
245		44.3	216.1	206,100	110	76.6	338.1	464,500*	200	62.0	324.7	271,200*		
250		42.9	210.8	199,800	115	75.7	336.9	456,900*	205	61.1	322.0	261,200*		
255		41.5	205.2	193,800	120	74.8	335.5	449,300*	210	60.1	319.1	251,800*		
260		40.0	199.3	187,400*	125	73.9	334.1	441,700*	215	59.2	316.1	242,900*		
265		38.5	193.1	179,300*	130	73.1	332.6	434,100*	220	58.3	313.1	234,400*		
270		36.9	186.6	171,400*	135	72.2	331.0	426,500*	225	57.3	309.9	226,400*		
275		35.3	179.6	163,900*	140	71.3	329.3	419,000*	230	56.4	306.6	218,800*		
280	33.6	172.2	156,600*	145	70.4	327.5	411,500*	235	55.4	303.2	211,600*			
285	31.8	164.3	149,500*	150	69.5	325.7	404,000*	240	54.4	299.6	204,700*			
290	29.9	155.8	142,600*	155	68.6	323.7	396,600*	245	53.4	295.9	198,100*			
295	27.9	146.7	135,800*	160	67.7	321.7	388,500*	250	52.4	292.1	191,800*			
300	25.8	136.6	129,200*	165	66.8	319.5	380,700*	255	51.4	288.1	185,800*			
305	23.5	125.5	122,600*	170	65.8	317.3	373,100*	260	50.4	284.0	180,100*			
310	20.9	113.0	116,100*	175	64.9	315.0	365,600*	265	49.4	279.8	174,600*			
315	18.0	98.5	109,400*	180	64.0	312.6	358,000*	270	48.3	275.4	169,300*			
320	80	81.2	323.8	567,200*	185	63.0	310.0	350,300*	275	47.2	270.8	164,200*		
	85	80.3	323.0	559,000*	190	62.1	307.4	342,600*	280	46.1	266.0	159,400*		
	90	79.4	322.1	550,700*	195	61.1	304.6	334,900*	285	45.0	261.0	154,700*		
	95	78.5	321.0	542,300*	200	60.1	301.8	327,200*	290	43.9	255.9	150,200*		
	100	77.5	319.9	533,900*	205	59.2	298.8	319,500*	295	42.7	250.5	145,900*		
	105	76.6	318.8	525,400*	210	58.2	295.7	311,800*	300	41.5	244.9	141,700*		
	110	75.7	317.5	517,000*	215	57.2	292.5	304,100*	305	40.3	239.1	136,400*		
	115	74.8	316.1	508,500*	220	56.2	289.2	296,400*	310	39.0	233.0	130,500*		
	120	73.8	314.7	500,100*	225	55.1	285.7	288,700*	315	37.7	226.6	124,800*		
	125	72.9	313.2	491,700*	230	54.1	282.1	281,000*	320	36.4	219.9	119,200*		
	130	72.0	311.6	483,300*	235	53.0	278.4	273,300*	325	35.0	212.8	113,800*		
	135	71.0	309.9	475,000*	240	52.0	274.5	265,600*	330	33.6	205.4	108,600*		
	140	70.1	308.1	466,900*	245	50.9	270.5	257,900*	335	32.1	197.6	103,400*		
	145	69.1	306.2	458,700*	250	49.8	266.3	250,200*	340	30.6	189.3	98,900*		
	150	68.1	304.2	450,500*	255	48.7	261.9	242,500*	345	28.9	180.4	94,100*		
	155	67.2	302.1	442,300*	260	47.5	257.4	234,800*	350	27.2	170.9	89,300*		
	160	66.2	299.9	434,100*	265	46.4	252.7	227,100*	355	25.4	160.7	84,500*		
	165	65.2	297.6	426,000*	270	45.2	247.8	219,400*						
	170	64.2	295.2	417,900*	275	44.0	242.6	211,700*						
	175	63.2	292.7	409,800*	280	42.8	237.3	204,000*						
	180	62.2	290.1	401,800*	285	41.5	231.7	196,300*						
185	61.2	287.3	393,800*	290	40.2	225.8	188,600*							
190	60.2	284.5	385,800*	295	38.9	219.7	180,900*							
195	59.1	281.5	377,800*	300	37.5	213.3	173,200*							

MANITOWOC ENGINEERING CO.

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



LIFT CRANE 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

889,300 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
380	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	349,700*		125	76.4	396.2	302,700*
	130	74.9	374.3	343,600*		130	75.7	395.0	296,900*
	135	74.1	372.8	337,400*		135	74.9	393.6	291,200*
	140	73.3	371.3	331,300*		140	74.2	392.2	285,400*
	145	72.5	369.8	325,100*		145	73.4	390.7	279,600*
	150	71.7	368.1	318,800*		150	72.7	389.2	273,800*
	155	70.9	366.4	312,500*		155	71.9	387.6	268,000*
	160	70.1	364.6	306,200*		160	71.2	385.9	262,200*
	165	69.3	362.8	299,900*		165	70.4	384.1	256,400*
	170	68.5	360.8	293,600*		170	69.6	382.2	250,600*
	175	67.7	358.8	287,200*		175	68.9	380.3	244,800*
	180	66.9	356.6	281,000*		180	68.1	378.3	239,000*
	185	66.1	354.4	274,700*		185	67.3	376.2	233,300*
	190	65.2	352.1	268,600*		190	66.6	374.1	227,700*
	195	64.4	349.7	262,400*		195	65.8	371.8	222,000*
	200	63.6	347.3	256,300*		200	65.0	369.5	216,300*
	205	62.7	344.7	250,100*		205	64.2	367.1	210,800*
	210	61.9	342.0	244,100*		210	63.4	364.6	205,200*
	215	61.0	339.3	238,100*		215	62.6	362.0	199,800*
	220	60.1	336.4	231,300*		220	61.8	359.4	194,400*
	225	59.3	333.5	223,300*		225	60.9	356.6	189,100*
	230	58.4	330.4	215,700*		230	60.1	353.8	183,800*
	235	57.5	327.2	208,500*		235	59.3	350.8	178,500*
	240	56.6	324.0	201,600*		240	58.5	347.7	173,300*
	245	55.7	320.6	195,000*		245	57.6	344.6	168,200*
	250	54.7	317.0	188,700*		250	56.7	341.3	163,100*
	255	53.8	313.4	182,700*		255	55.9	338.0	158,100*
	260	52.9	309.6	176,900*		260	55.0	334.5	153,100*
	265	51.9	305.8	171,400*		265	54.1	330.9	148,200*
	270	50.9	301.7	166,200*		270	53.2	327.2	143,400*
	275	50.0	297.6	161,100*		275	52.3	323.3	138,600*
	280	49.0	293.2	156,200*		280	51.4	319.4	133,900*
	285	48.0	288.8	151,600*		285	50.5	315.3	129,200*
	290	46.9	284.1	147,100*		290	49.6	311.0	124,600*
	295	45.9	279.3	142,700*		295	48.6	306.7	120,100*
	300	44.8	274.3	138,600*		300	47.6	302.1	113,700*
	305	43.7	269.1	134,600*		305	46.7	297.4	103,600*
	310	42.6	263.7	130,700*		310	45.7	292.6	93,700*
	315	41.5	258.1	121,800*		315	44.6	287.6	83,800*
	320	40.3	252.3	110,600*		320	43.6	282.4	74,100*
	325	39.1	246.2	99,600*		325	42.6	277.0	64,400*
	330	37.9	239.9	88,600*		330	41.5	271.4	54,800*
	335	36.7	233.2	77,800*					
	340	35.4	226.3	67,100*					
	345	34.0	219.0	56,500*					