



LIFTCRANE CAPACITIES

**BOOM NO. 44A WITH HEAVY LIFT TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS**

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 85% 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 30,000 LBS. OR 60,000 LBS. WITH TWO PART LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

270' THRU 300' BOOM LENGTHS REQUIRE ONLY THE MIDDLE 3 SHEAVES TO BE USED ON THE LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM THE LOWER BOOM POINT.

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 IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP AND OUTRIGGERS FULLY SPREAD AND SET. RADII LESS THAN 40' NOT RECOMMENDED WHEN LIFTING OVER FRONT OF MACHINE. MINIMUM BOOM ANGLE OVER TRUCK CAB IS 5 DEGREES. REFER TO BOOM RIGGING NO. 173379, WIRE ROPE SPECIFICATION CHART NO. 7632-A, AND OPERATING RANGE DIAGRAM CHART NO. 7636-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.

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON THE CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION AND LOWERING BOOM AND JIB TO APPROXIMATELY 70 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE TO PREVENT JIB BEING BLOWN OVER BACKWARDS. LOWER BOOM AND JIB TO GROUND WHEN WIND IS ABOVE 50 MPH.

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 MANITOWOC 16 X 8 CARRIER, 390" WHEELBASE, 102-3/4" FRONT AXLE TRACK, 102-3/4" REAR AXLE TRACK, 14.00 X 25 TIRES, 184-1/2" OUTRIGGERS, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS AND 177,600 LB. COUNTERWEIGHT.

WIND LIMITS DURING OPERATION		
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET	JIB LENGTH FEET
30	70 - 200	---
25	210 - 240	---
20	250 - 300	---
25	130 - 210	40 - 80
20	220 - 250	40 - 80
15	260	40 - 60
25	130 - 200	100 - 120
20	210 - 230	100 - 120
20	240	100

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER SIDE OR REAR ON SPREAD OUTRIGGERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
300'	---	40'	6,400 LBS.
290'	---	60'	8,200 LBS.
280'	---	80'	10,300 LBS.
270'	---	100'	12,800 LBS.
260'	60'	120'	15,300 LBS.
250'	80'		
240'	100'		
230'	120'		
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. UPPER BOOM POINT CANNOT BE USED ON 300' BOOM.			

CONSULT JIB CHART FOR JIB CAPACITIES. UPPER BOOM POINT CANNOT BE USED WHEN JIB IS ATTACHED.

MANITOWOC ENGINEERING CO.

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



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ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
70	18	82.9	78.6	600,000*	600,000*
	19	82.1	78.4	547,900*	547,900*
	20	81.3	78.2	545,600*	545,600*
	21	80.4	78.0	543,400*	543,400*
	22	79.6	77.8	541,300*	541,300*
	23	78.8	77.5	520,900*	520,900*
	24	77.9	77.3	500,300*	500,300*
	25	77.1	77.0	481,300*	481,300*
	26	76.2	76.7	463,600*	463,600*
	27	75.4	76.4	447,100*	447,100*
	28	74.5	76.1	431,700*	431,700*
	29	73.7	75.8	417,300*	417,300*
	30	72.8	75.4	402,800*	402,800*
	32	71.0	74.7	374,100*	374,100*
	34	69.3	73.9	349,000*	349,000*
	36	67.5	73.0	327,000*	327,000*
	38	65.7	72.0	307,400*	307,400*
	40	63.8	71.0	289,900*	289,900*
	42	61.9	69.8	271,000*	271,000*
	44	60.0	68.6	253,600*	253,600*
80	46	58.1	67.3	237,900*	237,900*
	48	56.1	65.9	223,800*	223,800*
	50	54.0	64.4	211,100*	211,100*
	55	48.6	60.0	183,700*	183,700*
	60	42.6	54.7	159,600*	159,600*
	65	35.8	48.0	133,300*	133,300*
	70	27.4	39.0	109,700*	109,700*
	20	82.4	88.3	526,400*	526,400*
	21	81.7	88.2	523,600*	523,600*
	22	80.9	88.0	521,000*	521,000*
	23	80.2	87.8	518,300*	518,300*
	24	79.5	87.6	499,400*	499,400*
	25	78.7	87.3	480,300*	480,300*
	26	78.0	87.1	462,600*	462,600*
	27	77.3	86.8	446,100*	446,100*
	28	76.5	86.6	430,800*	430,800*
	29	75.8	86.3	416,400*	416,400*
	30	75.0	86.0	401,900*	401,900*
	32	73.5	85.3	373,200*	373,200*
	34	72.0	84.6	348,100*	348,100*
90	36	70.5	83.9	326,100*	326,100*
	38	68.9	83.0	306,500*	306,500*
	40	67.3	82.1	289,000*	289,000*
	42	65.8	81.2	273,300*	273,300*
	44	64.2	80.2	259,100*	259,100*
	46	62.5	79.1	244,000*	244,000*
	48	60.9	77.9	229,700*	229,700*
	50	59.2	76.6	216,700*	216,700*
	55	54.8	73.1	187,800*	189,000*
	60	50.2	69.0	164,700*	166,500*
	65	45.1	64.1	146,300*	147,900*
	70	39.6	58.2	131,000*	131,000*
	75	33.3	50.9	110,900*	110,900*
	80	25.4	41.2	92,400*	92,400*
	22	82.8	108.3	479,300*	479,300*
	23	82.2	108.1	476,300*	476,300*
	24	81.6	107.9	473,400*	473,400*
	25	81.0	107.8	470,500*	470,500*
	26	80.4	107.6	461,000*	461,000*
	27	79.8	107.4	444,500*	444,500*
	28	79.3	107.1	429,200*	429,200*
	29	78.7	106.9	414,800*	414,800*
	30	78.1	106.7	400,300*	400,300*
100	32	76.9	106.2	371,700*	371,700*
	34	75.7	105.6	346,600*	346,600*
	36	74.5	105.0	324,600*	324,600*
	38	73.3	104.4	305,000*	305,000*
	40	72.1	103.7	287,600*	287,600*
	42	70.9	103.0	271,900*	271,900*
	44	69.7	102.2	257,700*	257,700*
	46	68.4	101.4	244,800*	244,800*
	48	67.2	100.5	231,500*	233,100*
	50	65.9	99.5	217,100*	222,300*
	55	62.7	96.9	187,300*	197,300*
	60	59.3	94.0	164,200*	174,200*
	65	55.9	90.6	145,800*	155,100*
	70	52.3	86.7	130,700*	139,100*
	75	48.5	82.4	118,200*	125,500*
	80	44.4	77.3	107,600*	113,700*
	85	40.0	71.5	98,500*	103,300*
	90	35.1	64.5	90,600*	93,400*
	95	29.5	56.1	80,500*	80,500*

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M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
110	23	82.9	118.2	443,800*	443,800*
	24	82.4	118.1	440,800*	440,800*
	25	81.8	117.9	437,900*	437,900*
	26	81.3	117.7	435,100*	435,100*
	27	80.8	117.6	432,400*	432,400*
	28	80.3	117.4	428,500*	428,500*
	29	79.7	117.2	414,200*	414,200*
	30	79.2	116.9	399,700*	399,700*
	32	78.1	116.5	371,000*	371,000*
	34	77.0	116.0	346,000*	346,000*
	36	76.0	115.5	323,900*	323,900*
	38	74.9	114.9	304,400*	304,400*
	40	73.8	114.3	286,900*	286,900*
	42	72.7	113.6	271,200*	271,200*
	44	71.6	112.9	257,100*	257,100*
	46	70.5	112.1	244,200*	244,200*
	48	69.4	111.4	231,300*	232,500*
	50	68.2	110.5	216,900*	221,700*
	55	65.4	108.2	187,100*	198,400*
	60	62.4	105.6	164,000*	177,300*
120	65	59.4	102.6	145,500*	158,000*
	70	56.3	99.3	130,400*	141,800*
	75	53.0	95.6	117,900*	128,000*
	80	49.6	91.3	107,300*	116,100*
	85	46.0	86.6	98,200*	105,800*
	90	42.2	81.1	90,300*	96,600*
	95	38.0	74.8	83,400*	88,400*
	100	33.3	67.5	77,300*	80,300*
	105	28.0	58.5	69,600*	69,600*
	24	83.0	128.2	430,000*	430,000*
	25	82.5	128.0	427,300*	427,300*
	26	82.0	127.9	424,600*	424,600*
	27	81.6	127.7	422,100*	422,100*
	28	81.1	127.5	419,700*	419,700*
	29	80.6	127.3	413,100*	413,100*
	30	80.1	127.2	398,600*	398,600*
	32	79.1	126.7	369,900*	369,900*
	34	78.1	126.3	344,900*	344,900*
	36	77.2	125.8	322,900*	322,900*
	38	76.2	125.3	303,300*	303,300*
	40	75.2	124.7	285,900*	285,900*
140	42	74.2	124.1	270,200*	270,200*
	44	73.2	123.5	256,000*	256,000*
	46	72.2	122.8	243,100*	243,100*
	48	71.2	122.1	230,900*	231,400*
	50	70.1	121.3	216,400*	220,700*
	55	67.6	119.2	186,600*	197,400*
	60	64.9	116.9	163,500*	178,200*
	65	62.2	114.3	145,000*	160,000*
	70	59.5	111.3	129,900*	143,600*
	75	56.6	108.0	117,300*	129,700*
	80	53.6	104.3	106,700*	117,700*
	85	50.6	100.2	97,600*	107,300*
	90	47.3	95.7	89,700*	98,100*
	95	43.9	90.5	82,800*	90,000*
	100	40.2	84.7	76,700*	82,600*
	105	36.2	78.0	71,300*	76,000*
	110	31.8	70.2	66,400*	69,200*
	115	26.7	60.8	60,100*	60,100*
	27	82.8	148.0	388,500*	388,500*
	28	82.4	147.8	386,200*	386,200*
	29	81.9	147.7	383,900*	383,900*
	30	81.5	147.5	381,600*	381,600*
	32	80.7	147.1	368,100*	368,100*
	34	79.9	146.7	343,100*	343,100*
	36	79.0	146.3	321,100*	321,100*
	38	78.2	145.9	301,600*	301,600*
	40	77.4	145.4	284,100*	284,100*
	42	76.5	144.9	268,500*	268,500*
	44	75.7	144.4	254,300*	254,300*
	46	74.8	143.8	241,400*	241,400*
	48	74.0	143.2	229,700*	229,700*
	50	73.1	142.5	215,700*	219,000*
	55	70.9	140.8	185,800*	195,700*
	60	68.7	138.8	162,600*	176,500*
	65	66.5	136.7	144,100*	160,300*
	70	64.2	134.2	128,900*	146,600*
	75	61.9	131.6	116,300*	132,800*
	80	59.5	128.6	105,700*	120,600*
	85	57.1	125.4	96,600*	110,000*
	90	54.6	121.9	88,600*	100,600*
	95	52.0	118.0	81,700*	92,400*
	100	49.3	113.7	75,600*	85,100*
	105	46.5	109.0	70,200*	78,500*
	110	43.5	103.8	65,400*	72,500*
	115	40.4	98.0	61,000*	67,100*
	120	37.0	91.5	57,000*	62,100*
	125	33.4	84.0	53,500*	57,400*
	130	29.3	75.4	50,200*	52,300*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
150	28	82.9	157.9	356,600*	356,600*
	29	82.5	157.8	354,400*	354,400*
	30	82.1	157.6	352,200*	352,200*
	32	81.3	157.3	348,000*	348,000*
	34	80.6	156.9	342,300*	342,300*
	36	79.8	156.5	319,900*	319,900*
	38	79.0	156.1	299,900*	299,900*
	40	78.2	155.7	282,200*	282,200*
	42	77.4	155.2	266,500*	266,500*
	44	76.6	154.7	252,500*	252,500*
	46	75.8	154.2	239,900*	239,900*
	48	75.1	153.6	228,400*	228,400*
	50	74.3	153.0	215,300*	215,300*
	55	72.3	151.4	185,400*	194,900*
	60	70.2	149.6	162,100*	175,700*
	65	68.2	147.6	143,600*	159,600*
	70	66.1	145.4	128,400*	145,800*
	75	63.9	142.9	115,800*	134,000*
	80	61.8	140.2	105,200*	121,800*
	85	59.6	137.3	96,000*	111,000*
160	90	57.3	134.1	88,100*	101,600*
	95	55.0	130.6	81,200*	93,300*
	100	52.6	126.8	75,100*	86,000*
	105	50.1	122.6	69,700*	79,300*
	110	47.5	118.1	64,800*	73,300*
	115	44.8	113.1	60,400*	67,900*
	120	42.0	107.6	56,500*	62,900*
	125	38.9	101.5	52,900*	58,400*
	130	35.7	94.6	49,600*	54,100*
	135	32.2	86.9	46,600*	50,200*
	140	28.3	77.9	43,800*	45,600*
	29	83.0	167.9	345,100*	345,100*
	30	82.6	167.7	343,100*	343,100*
	32	81.9	167.4	339,400*	339,400*
	34	81.1	167.1	335,800*	335,800*
	36	80.4	166.7	313,800*	313,800*
	38	79.7	166.3	294,000*	294,000*
	40	79.0	165.9	276,600*	276,600*
	42	78.2	165.5	261,200*	261,200*
	44	77.5	165.0	247,400*	247,400*
	46	76.8	164.5	235,000*	235,000*
	48	76.0	164.0	223,700*	223,700*
	50	75.3	163.4	213,500*	213,500*
	55	73.4	161.9	184,800*	191,500*
	60	71.5	160.3	161,600*	173,500*
	65	69.6	158.4	143,000*	158,300*
	70	67.7	156.3	127,800*	144,700*
	75	65.7	154.1	115,200*	132,900*
	80	63.7	151.6	104,500*	121,900*
	85	61.7	148.9	95,300*	111,500*
	90	59.6	146.0	87,400*	102,100*
	95	57.5	142.8	80,500*	93,800*
	100	55.3	139.3	74,400*	86,300*
	105	53.1	135.6	68,900*	79,700*
	110	50.7	131.5	64,100*	73,700*
	115	48.4	127.1	59,700*	68,200*
	120	45.9	122.3	55,700*	63,300*
	125	43.3	117.0	52,200*	58,700*
	130	40.5	111.2	48,900*	54,500*
	135	37.6	104.8	45,900*	50,600*
	140	34.5	97.7	43,100*	47,000*
	145	31.1	89.6	40,500*	43,500*
	150	27.3	80.3	38,100*	39,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
170	30	83.0	177.8	325,200*	325,200*
	32	82.4	177.5	321,500*	321,500*
	34	81.7	177.2	318,000*	318,000*
	36	81.0	176.9	309,700*	309,700*
	38	80.3	176.5	290,100*	290,100*
	40	79.6	176.1	272,800*	272,800*
	42	78.9	175.7	257,400*	257,400*
	44	78.2	175.3	243,800*	243,800*
	46	77.5	174.8	231,400*	231,400*
	48	76.9	174.3	220,300*	220,300*
	50	76.2	173.8	210,200*	210,200*
	55	74.4	172.4	184,500*	188,500*
	60	72.6	170.8	161,200*	170,700*
	65	70.9	169.1	142,700*	155,800*
	70	69.1	167.2	127,500*	143,100*
	75	67.2	165.1	114,800*	132,100*
	80	65.4	162.8	104,100*	121,500*
	85	63.5	160.3	95,000*	111,100*
	90	61.6	157.5	87,100*	102,100*
	95	59.6	154.6	80,100*	94,300*
180	100	57.6	151.4	74,000*	87,200*
	105	55.6	148.0	68,600*	80,500*
	110	53.5	144.3	63,700*	74,500*
	115	51.3	140.3	59,300*	69,000*
	120	49.1	136.0	55,400*	64,000*
	125	46.8	131.4	51,800*	59,500*
	130	44.4	126.3	48,500*	55,300*
	135	41.9	120.8	45,500*	51,400*
	140	39.2	114.7	42,700*	47,800*
	145	36.4	108.1	40,200*	44,400*
	150	33.4	100.6	37,800*	41,200*
	155	30.1	92.2	35,600*	38,200*
	160	26.5	82.6	33,500*	34,400*
	32	82.8	187.6	312,300*	312,300*
	34	82.1	187.4	309,200*	309,200*
	36	81.5	187.0	304,500*	304,500*
	38	80.9	186.7	285,000*	285,000*
	40	80.2	186.3	267,900*	267,900*
	42	79.6	185.9	252,800*	252,800*
	44	78.9	185.5	239,200*	239,200*
	46	78.3	185.1	227,100*	227,100*
	48	77.6	184.6	216,100*	216,100*
	50	76.9	184.1	206,100*	206,100*
	55	75.3	182.8	184,000*	184,700*
	60	73.6	181.3	160,700*	167,200*
	65	72.0	179.7	142,000*	152,500*
	70	70.3	177.9	126,800*	140,100*
	75	68.6	175.9	114,200*	129,300*
	80	66.8	173.8	103,500*	119,900*
	85	65.1	171.4	94,300*	110,500*
	90	63.3	168.9	86,400*	101,400*
	95	61.5	166.2	79,400*	93,500*
	100	59.6	163.3	73,300*	86,600*
	105	57.8	160.1	67,900*	80,400*
	110	55.8	156.7	63,000*	74,600*
	115	53.9	153.1	58,600*	69,100*
	120	51.8	149.2	54,600*	64,100*
	125	49.8	145.0	51,000*	59,500*
	130	47.6	140.4	47,800*	55,300*
	135	45.4	135.5	44,700*	51,400*
	140	43.1	130.2	42,000*	47,800*
	145	40.6	124.4	39,400*	44,500*
	150	38.1	118.1	37,000*	41,300*
	155	35.4	111.2	34,800*	38,400*
	160	32.4	103.5	32,800*	35,600*
	165	29.2	94.8	30,900*	33,000*
	170	25.7	84.8	29,100*	29,500*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
190	34	82.6	197.5	283,600*	283,600*
	36	81.9	197.2	280,700*	280,700*
	38	81.3	196.8	278,000*	278,000*
	40	80.7	196.5	264,600*	264,600*
	42	80.1	196.1	249,400*	249,400*
	44	79.5	195.7	236,000*	236,000*
	46	78.9	195.3	223,800*	223,800*
	48	78.3	194.9	212,900*	212,900*
	50	77.6	194.4	203,000*	203,000*
	55	76.1	193.2	181,700*	181,700*
	60	74.5	191.8	160,100	164,300*
	65	72.9	190.2	141,500	149,900*
	70	71.4	188.5	126,300	137,600*
	75	69.7	186.7	113,600	127,000*
	80	68.1	184.7	102,900	117,700*
	85	66.5	182.5	93,700	109,500*
	90	64.8	180.1	85,800	100,800
	95	63.1	177.6	78,800	92,900
	100	61.4	174.9	72,700	86,000
	105	59.7	171.9	67,200	79,800
200	110	57.9	168.8	62,400	74,300
	115	56.1	165.4	58,000	69,300
	120	54.2	161.8	54,000	64,300*
	125	52.3	158.0	50,400	59,700*
	130	50.3	153.9	47,100	55,500*
	135	48.3	149.4	44,100	51,600*
	140	46.2	144.7	41,300	48,000*
	145	44.1	139.5	38,800	44,600*
	150	41.8	134.0	36,400	41,500*
	155	39.5	128.0	34,200	38,600*
	160	37.0	121.5	32,100	35,900*
	165	34.4	114.3	30,200	33,300*
	170	31.5	106.3	28,400	30,800*
	175	28.4	97.3	26,700	28,400*
	34	82.9	207.6	274,800*	274,800*
	36	82.4	207.3	272,300*	272,300*
	38	81.8	207.0	269,900*	269,900*
	40	81.2	206.6	260,300*	260,300*
	42	80.6	206.3	245,300*	245,300*
	44	80.0	205.9	232,000*	232,000*
	46	79.4	205.5	220,000*	220,000*
	48	78.9	205.1	209,100*	209,100*
	50	78.3	204.7	199,300*	199,300*
	55	76.8	203.5	178,200*	178,200*
210	60	75.3	202.2	159,500	161,100*
	65	73.8	200.7	140,900	146,800*
	70	72.3	199.1	125,600	134,700*
	75	70.8	197.4	112,900	124,200*
	80	69.3	195.5	102,200	115,100*
	85	67.7	193.4	93,000	107,100*
	90	66.2	191.2	85,000	100,000*
	95	64.6	188.8	78,100	92,200
	100	63.0	186.3	71,900	85,200
	105	61.3	183.5	66,500	79,000
	110	59.7	180.6	61,600	73,500
	115	58.0	177.5	57,200	68,500
	120	56.3	174.1	53,300	64,000
	125	54.5	170.6	49,600	59,500*
	130	52.7	166.8	46,400	55,300*
	135	50.9	162.7	43,300	51,400*
	140	49.0	158.4	40,600	47,800*
	145	47.0	153.8	38,000	44,400*
	150	44.9	148.9	35,500	42,000*
	155	42.8	143.8	33,300	39,100*
	160	40.6	138.4	31,300	36,400*
200	165	38.4	132.7	29,400	33,800*
	170	36.1	126.7	27,600	31,400*
	175	33.7	120.4	25,900	29,200*
	180	31.1	113.8	24,300	27,000*
	185	28.4	106.9	22,800	24,900*
	190	25.6	99.7	21,400	23,000*
	195	22.7	92.0	20,100	21,100*
	36	82.7	217.4	257,900*	257,900*
	38	82.2	217.1	255,600*	255,600*
	40	81.6	216.8	253,400*	253,400*
	42	81.1	216.4	243,400*	243,400*
	44	80.5	216.1	230,000*	230,000*
	46	80.0	215.7	218,000*	218,000*
	48	79.4	215.3	207,200*	207,200*
	50	78.8	214.9	197,400*	197,400*
	55	77.4	213.8	176,400*	176,400*
	60	76.0	212.5	159,300*	159,300*
	65	74.6	211.1	140,800	145,100*
	70	73.2	209.6	125,600	133,100*
	75	71.8	208.0	112,900	122,700*
	80	70.3	206.2	102,100	113,700*
	85	68.8	204.2	92,900	105,800*
	90	67.4	202.1	85,000	98,700*
	95	65.9	199.9	78,000	92,100
	100	64.4	197.5	71,900	85,200
	105	62.8	194.9	66,400	79,000
	110	61.3	192.2	61,600	73,400
	115	59.7	189.3	57,200	68,500
	120	58.1	186.1	53,200	63,900
	125	56.4	182.8	49,600	59,800
	130	54.8	179.3	46,300	56,000*
	135	53.1	175.6	43,300	52,100*
	140	51.3	171.6	40,500	48,500*
	145	49.5	167.3	37,900	45,200*
	150	47.7	162.8	35,500	42,000*
	155	45.8	158.0	33,300	39,100*
	160	43.8	152.8	31,300	36,400*
	165	41.8	147.2	29,400	33,800*
	170	39.7	141.3	27,600	31,400*
	175	37.4	134.8	25,900	29,200*
	180	35.1	127.8	24,300	27,000*
	185	32.6	120.1	22,800	24,900*
	190	29.9	111.6	21,400	23,000*
	195	27.0	102.0	20,100	21,100*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
220	38	82.5	227.2	247,000*	247,000*
	40	82.0	226.9	245,100*	245,100*
	42	81.5	226.6	239,700*	239,700*
	44	80.9	226.2	226,400*	226,400*
	46	80.4	225.9	214,500*	214,500*
	48	79.9	225.5	203,800*	203,800*
	50	79.4	225.1	194,100*	194,100*
	55	78.0	224.0	173,200*	173,200*
	60	76.7	222.9	156,300*	156,300*
	65	75.3	221.5	140,200*	142,300*
	70	74.0	220.1	124,900*	130,300*
	75	72.6	218.5	112,200*	120,100*
	80	71.2	216.8	101,500*	111,200*
	85	69.9	215.0	92,300*	103,400*
	90	68.5	213.0	84,300*	96,500*
	95	67.0	210.9	77,300*	90,300*
	100	65.6	208.6	71,200*	84,500*
	105	64.2	206.2	65,700*	78,300*
	110	62.7	203.6	60,800*	72,700*
	115	61.2	200.8	56,400*	67,700*
	120	59.7	197.9	52,400*	63,200*
	125	58.2	194.8	48,800*	59,100*
	130	56.6	191.5	45,500*	55,300*
	135	55.0	188.0	42,500*	51,800*
	140	53.4	184.3	39,700*	48,200*
230	145	51.7	180.4	37,200*	44,800*
	150	50.1	176.2	34,800*	41,700*
	155	48.3	171.8	32,600*	38,800*
	160	46.5	167.1	30,500*	36,100*
	165	44.7	162.0	28,600*	33,500*
	170	42.8	156.7	26,800*	31,100*
	175	40.8	150.9	25,100*	28,900*
	180	38.7	144.7	23,500*	26,700*
	185	36.5	138.1	22,000*	24,700*
	190	34.2	130.8	20,600*	22,800*
	195	31.8	122.9	19,300*	20,900*
	200	29.2	114.2	18,000*	19,100*
	205	26.3	104.3	16,800*	17,400*
	38	82.9	237.3	225,900*	225,900*
	40	82.4	237.0	219,700*	219,700*
	42	81.8	236.7	213,700*	213,700*
	44	81.3	236.4	207,900*	207,900*
	46	80.8	236.0	202,300*	202,300*
	48	80.3	235.7	196,800*	196,800*
	50	79.8	235.3	191,600*	191,600*
	55	78.6	234.3	171,100*	171,100*
	60	77.3	233.2	154,100*	154,100*
	65	76.0	231.9	139,600*	140,100*
	70	74.7	230.5	124,300*	128,200*
	75	73.4	229.0	111,600*	118,100*
	80	72.1	227.4	100,800*	109,200*
	85	70.8	225.6	91,600*	101,500*
	90	69.4	223.8	83,700*	94,600*
	95	68.1	221.8	76,700*	88,500*
	100	66.7	219.6	70,500*	82,900*
	105	65.4	217.3	65,100*	77,600*
	110	64.0	214.9	60,200*	72,100*
	115	62.6	212.3	55,800*	67,100*
	120	61.2	209.5	51,800*	62,500*
	125	59.7	206.6	48,200*	58,400*
	130	58.3	203.5	44,900*	54,700*
	135	56.8	200.2	41,800*	51,200*
	140	55.2	196.8	39,100*	48,100*
	145	53.7	193.1	36,500*	44,700*
	150	52.1	189.2	34,100*	41,500*
	155	50.5	185.1	31,900*	38,600*
	160	48.9	180.7	29,800*	35,900*
	165	47.2	176.1	27,900*	33,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
230	170	45.4	171.2	26,100*	30,900*
	175	43.6	166.0	24,400*	28,700*
	180	41.8	160.5	22,800*	26,500*
	185	39.8	154.5	21,400*	24,500*
	190	37.8	148.1	19,900*	22,600*
	195	35.7	141.3	18,600*	20,800*
	200	33.5	133.8	17,400*	19,000*
	205	31.1	125.7	16,200*	17,300*
	210	28.5	116.7	15,000*	15,700*
	215	25.7	106.6	14,000*	14,100*
240	40	82.7	247.1	210,500*	210,500*
	42	82.2	246.8	204,800*	204,800*
	44	81.7	246.5	199,300*	199,300*
	46	81.2	246.2	194,000*	194,000*
	48	80.7	245.8	188,800*	188,800*
	50	80.3	245.5	183,800*	183,800*
	55	79.0	244.5	169,000*	169,000*
	60	77.8	243.4	152,000*	152,000*
	65	76.6	242.2	138,000*	138,000*
	70	75.4	240.9	123,700*	126,200*
	75	74.1	239.5	110,900*	116,000*
	80	72.9	237.9	100,200*	107,200*
	85	71.6	236.3	90,900*	99,500*
	90	70.3	234.5	82,900*	92,700*
	95	69.1	232.5	76,000*	86,600*
	100	67.8	230.5	69,800*	81,100*
	105	66.5	228.3	64,300*	76,100*
	110	65.2	226.0	59,400*	71,300*
	115	63.8	223.5	55,000*	66,300*
	120	62.5	220.9	51,000*	61,800*
	125	61.1	218.2	47,400*	57,700*
	130	59.7	215.2	44,100*	53,900*
	135	58.3	212.2	41,100*	50,500*
	140	56.9	208.9	38,300*	47,300*
	145	55.5	205.5	35,700*	44,300*
	150	54.0	201.8	33,300*	41,200*
	155	52.5	198.0	31,100*	38,200*
	160	50.9	194.0	29,000*	35,500*
	165	49.4	189.7	27,100*	32,900*
	170	47.8	185.2	25,300*	30,500*
	175	46.1	180.4	23,600*	28,300*
	180	44.4	175.3	22,100*	26,100*
	185	42.6	169.9	20,600*	24,100*
	190	40.8	164.2	19,200*	22,200*
	195	38.9	158.0	17,800*	20,400*
	200	37.0	151.4	16,600*	18,600*
	205	34.9	144.4	15,400*	17,000*
	210	32.7	136.7	14,200*	15,400*
	215	30.4	128.3	13,200*	13,900*
	220	27.9	119.1	12,100*	12,400*
	225	25.1	108.8	10,900*	10,900*

MANITOWOC ENGINEERING CO.

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LIFT CRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
250	40	83.0	257.2	202,000*	202,000*
	42	82.5	256.9	196,700*	196,700*
	44	82.0	256.6	191,500*	191,500*
	46	81.6	256.3	186,500*	186,500*
	48	81.1	256.0	181,600*	181,600*
	50	80.6	255.6	176,800*	176,800*
	55	79.5	254.7	165,400*	165,400*
	60	78.3	253.7	150,200*	150,200*
	65	77.1	252.5	136,200*	136,200*
	70	76.0	251.3	123,500*	124,500*
	75	74.8	249.9	110,800*	114,400*
	80	73.6	248.4	100,000*	105,700*
	85	72.4	246.8	90,700*	98,100*
	90	71.2	245.1	82,800*	91,300*
	95	69.9	243.3	75,800*	85,300*
	100	68.7	241.3	69,600*	79,800*
	105	67.5	239.2	64,100*	74,900*
	110	66.2	237.0	59,200*	70,400*
	115	64.9	234.7	54,800*	66,100*
	120	63.7	232.2	50,800*	61,600*
	125	62.4	229.6	47,200*	57,500*
	130	61.1	226.8	43,900*	53,700*
	135	59.7	223.9	40,900*	50,300*
	140	58.4	220.8	38,100*	47,100*
	145	57.0	217.6	35,500*	44,200*
260	150	55.6	214.2	33,100*	41,500*
	155	54.2	210.6	30,900*	38,600*
	160	52.8	206.8	28,800*	35,800*
	165	51.3	202.8	26,900*	33,200*
	170	49.8	198.6	25,100*	30,800*
	175	48.3	194.1	23,400*	28,500*
	180	46.7	189.5	21,900*	26,400*
	185	45.1	184.5	20,400*	24,400*
	190	43.4	179.3	19,000*	22,500*
	195	41.7	173.7	17,600*	20,700*
	200	40.0	167.8	16,400*	19,000*
	205	38.1	161.4	15,200*	17,300*
	210	36.2	154.7	14,000*	15,700*
	215	34.2	147.4	13,000*	14,200*
	220	32.0	139.5	11,900*	12,800*
	225	29.7	131.0	11,000*	11,400*
	230	27.3	121.5	10,000*	10,000*
	42	82.8	267.0	188,000*	188,000*
	44	82.4	266.7	183,200*	183,200*
	46	81.9	266.4	178,400*	178,400*
	48	81.5	266.1	173,800*	173,800*
	50	81.0	265.8	169,200*	169,200*
	55	79.9	264.9	158,400*	158,400*
	60	78.8	263.9	147,600*	147,600*
	65	77.6	262.8	133,800*	133,800*
	70	76.5	261.6	122,100*	122,100*
	75	75.4	260.3	110,100*	112,100*
	80	74.2	258.9	99,300*	103,500*
	85	73.1	257.3	90,100*	95,900*
	90	71.9	255.7	82,100*	89,200*
	95	70.7	253.9	75,100*	83,200*
	100	69.6	252.1	68,900*	77,800*
	105	68.4	250.1	63,400*	73,000*
	110	67.2	248.0	58,500*	68,600*
	115	66.0	245.7	54,100*	64,500*
	120	64.8	243.4	50,100*	60,800*
	125	63.5	240.9	46,500*	56,700*
	130	62.3	238.3	43,100*	53,000*
	135	61.0	235.5	40,100*	49,500*
	140	59.8	232.6	37,300*	46,300*
	145	58.5	229.5	34,700*	43,400*
	150	57.1	226.3	32,400*	40,700*
	155	55.8	222.9	30,100*	38,100*
270	160	54.5	219.3	28,100*	35,300*
	165	53.1	215.6	26,200*	32,700*
	170	51.7	211.6	24,300*	30,300*
	175	50.2	207.5	22,700*	28,000*
	180	48.8	203.1	21,100*	25,900*
	185	47.3	198.5	19,600*	23,900*
	190	45.8	193.7	18,200*	22,000*
	195	44.2	188.5	16,800*	20,200*
	200	42.6	183.1	15,600*	18,400*
	205	40.9	177.4	14,400*	16,800*
	210	39.1	171.3	13,300*	15,200*
	215	37.3	164.8	12,200*	13,800*
	220	35.4	157.9	11,200*	12,300*
	225	33.5	150.4	10,200*	11,000*
	230	31.4	142.3	9,200*	9,600*
	235	29.1	133.5	8,400*	8,400*
	240	26.7	123.8	7,100*	7,100*
280	44	82.6	276.8	164,000*	164,000*
	46	82.2	276.6	160,200*	160,200*
	48	81.8	276.2	156,500*	156,500*
	50	81.3	275.9	152,800*	152,800*
	55	80.3	275.1	144,000*	144,000*
	60	79.2	274.1	135,600*	135,600*
	65	78.1	273.0	127,700*	127,700*
	70	77.0	271.9	120,400*	120,400*
	75	75.9	270.6	110,800*	112,100*
	80	74.8	269.3	100,000*	103,400*
	85	73.7	267.8	90,700*	95,900*
	90	72.6	266.2	82,700*	89,200*
	95	71.5	264.5	75,700*	83,200*
	100	70.4	262.8	69,500*	77,900*
	105	69.2	260.8	64,100*	73,000*
	110	68.1	258.8	59,100*	68,600*
	115	66.9	256.7	54,700*	64,600*
	120	65.8	254.4	50,700*	60,900*
	125	64.6	252.1	47,100*	57,400*
	130	63.4	249.6	43,800*	53,600*
	135	62.2	246.9	40,800*	50,200*
	140	61.0	244.1	38,000*	47,000*
	145	59.8	241.2	35,400*	44,100*
	150	58.5	238.2	33,000*	41,400*
	155	57.3	235.0	30,800*	38,800*
	160	56.0	231.6	28,700*	36,500*
	165	54.7	228.0	26,800*	34,000*
	170	53.4	224.3	25,000*	31,500*
	175	52.0	220.4	23,300*	29,300*
	180	50.6	216.3	21,700*	27,100*
	185	49.2	212.0	20,200*	25,100*
	190	47.8	207.5	18,800*	23,200*
	195	46.3	202.8	17,500*	21,400*
	200	44.8	197.8	16,200*	19,600*
	205	43.3	192.5	15,000*	18,000*
	210	41.7	186.9	13,900*	16,400*
	215	40.1	181.0	12,800*	15,000*
	220	38.4	174.7	11,800*	13,500*
	225	36.6	168.1	10,800*	12,200*
	230	34.8	161.0	9,900*	10,900*
	235	32.8	153.3	9,000*	9,600*
	240	30.8	145.0	8,100*	8,400*
	245	28.6	136.0	6,800*	6,800*
	250	26.2	126.1	5,000*	5,000*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
280	44	82.9	286.9	154,400*	154,400*
	46	82.5	286.7	152,600*	152,600*
	48	82.1	286.4	148,700*	148,700*
	50	81.7	286.1	146,300*	146,300*
	55	80.6	285.2	143,400*	143,400*
	60	79.6	284.3	140,300*	140,300*
	65	78.5	283.3	132,500*	132,500*
	70	77.5	282.2	120,900*	120,900*
	75	76.4	280.9	110,900*	110,900*
	80	75.4	279.6	100,300*	102,300*
	85	74.3	278.2	91,000*	94,800*
	90	73.2	276.7	83,000*	88,200*
	95	72.2	275.1	76,000*	82,300*
	100	71.1	273.4	69,800*	77,000*
	105	70.0	271.6	64,300*	72,200*
	110	68.9	269.6	59,300*	67,800*
	115	67.8	267.6	54,900*	63,900*
	120	66.7	265.4	50,900*	60,200*
	125	65.6	263.1	47,300*	56,800*
	130	64.4	260.7	44,000*	53,700*
290	135	63.3	258.2	40,900*	50,300*
	140	62.1	255.6	38,100*	47,100*
	145	61.0	252.8	35,500*	43,600*
	150	59.8	249.9	33,100*	40,500*
	155	58.6	246.8	30,900*	37,500*
	160	57.4	243.6	28,900*	34,800*
	165	56.1	240.3	26,900*	32,200*
	170	54.9	236.8	25,100*	29,800*
	175	53.6	233.1	23,400*	27,600*
	180	52.3	229.2	21,800*	25,500*
	185	51.0	225.2	20,300*	23,500*
	190	49.7	220.9	18,900*	21,600*
	195	48.3	216.5	17,600*	19,800*
	200	46.9	211.8	16,300*	18,100*
	205	45.5	206.9	15,100*	16,500*
	210	44.0	201.8	14,000*	15,000*
	215	42.5	196.4	12,900*	13,500*
	220	40.9	190.6	11,900*	12,200*
	225	39.3	184.6	10,800*	10,800*
	230	37.6	178.1	9,600*	9,600*
300	235	35.9	171.3	8,400*	8,400*
	240	34.1	164.0	7,200*	7,200*
	245	32.2	156.2	6,000*	6,000*
	250	30.2	147.7	5,000*	5,000*
	46	82.7	296.8	142,600*	142,600*
	48	82.3	296.5	142,100*	142,100*
	50	81.9	296.2	141,700*	141,700*
	55	80.9	295.4	140,500*	140,500*
	60	79.9	294.5	137,400*	137,400*
	65	78.9	293.5	132,000*	132,000*
	70	77.9	292.4	120,200*	120,200*
	75	76.9	291.2	110,200*	110,200*
	80	75.9	290.0	100,000*	101,500*
	85	74.9	288.6	90,700*	94,000*
	90	73.8	287.2	82,700*	87,300*
	95	72.8	285.6	75,700*	81,400*
	100	71.8	284.0	69,500*	76,100*
	105	70.7	282.2	64,000*	71,300*
	110	69.7	280.4	59,100*	67,000*
	115	68.6	278.4	54,600*	63,000*
	120	67.5	276.3	50,600*	59,300*
290	125	66.5	274.1	47,000*	56,000*
	130	65.4	271.8	43,700*	52,900*
	135	64.3	269.4	40,600*	50,000*
	140	63.2	266.9	37,800*	46,900*
	145	62.0	264.2	35,200*	43,600*
	150	60.9	261.5	32,900*	40,500*
290	155	59.8	258.6	30,600*	37,500*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
290	160	58.6	255.5	28,600*	34,800*
	165	57.4	252.3	26,600*	32,200*
	170	56.3	249.0	24,800*	29,800*
	175	55.1	245.5	23,100*	27,500*
	180	53.8	241.8	21,500*	25,400*
	185	52.6	238.0	20,000*	23,400*
	190	51.3	234.0	18,600*	21,500*
	195	50.0	229.8	17,300*	19,700*
	200	48.7	225.5	16,000*	18,000*
	205	47.4	220.9	14,800*	16,400*
	210	46.0	216.1	13,700*	14,900*
	215	44.6	211.0	12,600*	13,500*
	220	43.2	205.7	11,600*	12,100*
	225	41.7	200.1	10,600*	10,700*
	230	40.2	194.3	9,500*	9,500*
	235	38.6	188.0	8,300*	8,300*
	240	37.0	181.4	7,100*	7,100*
	245	35.3	174.4	6,000*	6,000*
	250	33.5	167.0	4,900*	4,900*
300	46	83.0	306.8	133,600*	133,600*
	48	82.6	306.6	133,200*	133,200*
	50	82.2	306.3	132,800*	132,800*
	55	81.3	305.5	128,700*	128,700*
	60	80.3	304.6	124,100*	124,100*
	65	79.3	303.7	119,900*	119,900*
	70	78.3	302.7	116,100*	116,100*
	75	77.4	301.5	108,100*	108,100*
	80	76.4	300.3	99,400*	99,500*
	85	75.4	299.0	90,100*	92,000*
	90	74.4	297.6	82,000*	85,400*
	95	73.4	296.1	75,000*	79,500*
	100	72.4	294.5	68,800*	74,300*
	105	71.4	292.8	63,300*	69,500*
	110	70.4	291.0	58,400*	65,200*
	115	69.4	289.1	53,900*	61,300*
	120	68.3	287.2	49,900*	57,700*
	125	67.3	285.1	46,300*	54,300*
	130	66.2	282.9	42,900*	51,300*
	135	65.2	280.5	39,900*	48,400*
300	140	64.1	278.1	37,100*	45,700*
	145	63.1	275.6	34,500*	43,200*
	150	62.0	272.9	32,100*	40,500*
	155	60.9	270.1	29,900*	37,600*
	160	59.8	267.2	27,800*	34,900*
	165	58.7	264.2	25,900*	32,300*
	170	57.5	261.0	24,100*	29,900*
	175	56.4	257.7	22,400*	27,600*
	180	55.2	254.2	20,800*	25,500*
	185	54.0	250.6	19,300*	23,500*
	190	52.8	246.8	17,900*	21,600*
	195	51.6	242.8	16,500*	19,800*
	200	50.4	238.7	15,300*	18,200*
	205	49.1	234.4	14,100*	16,500*
	210	47.8	229.9	12,900*	15,000*
	215	46.5	225.2	11,800*	13,600*
	220	45.2	220.2	10,800*	12,200*
	225	43.8	215.0	9,800*	10,900*
	230	42.4	209.6	8,900*	9,600*
	235	40.9	203.9	8,000*	8,400*
300	240	39.5	197.8	7,200*	7,200*
	245	37.9	191.4	6,100*	6,100*
	250	36.3	184.7	5,100*	5,100*
	255	34.6	177.5	4,000*	4,000*