



LOAD CHARTS for Use in CCO Written Examinations

MANITOWOC 888-II SERIES 2

This load chart has been adapted from the original manufacturer's load chart for use in CCO written examinations.

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MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY 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 (*). CAPACITIES ARE NOT SHOWN FOR BOOM POSITIONS WHICH, WITHOUT LOAD, PROVIDE LESS THAN REQUIRED ANSI B30.5 BACKWARD STABILITY.

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 29,500 LBS. OR 59,000 LBS. WITH TWO PART WHIP LINE. WHEN BOOM BUTT MOUNTED AUXILIARY DRUM IS USED, CAPACITY WITH SINGLE PART WHIP 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.

250' THRU 290' BOOM LENGTHS REQUIRE ONLY THE MIDDLE TWO SHEAVES IN LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM 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 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. REFER TO BOOM RIGGING NO. 177156 OR NO. 177353 AND WIRE ROPE SPECIFICATION CHART NO. 7810-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION. REFER TO OPERATORS MANUAL FOR OPERATING GUIDELINES.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7808-A.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION 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 RADII. 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 28"2" EXTENDIBLE CRAWLERS, 48" TREADS, 10"3" RETRACTABLE GANTRY, 30' LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 179,100 LB. CRANE COUNTERWEIGHT AND 44,000 LB. CARBODY COUNTERWEIGHT.

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
JIB LENGTH	JIB NO. 134
30'	2,700 LBS.
40'	3,500 LBS.
50'	4,300 LBS.
60'	5,100 LBS.
70'	6,100 LBS.
80'	7,100 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED							
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134
(a)290'	---	(a)280'	---	(a)260'	---	230'	---
280'	---	270'	---	250'	---	220'	30'
270'	---	260'	40'	240'	---	210'	60'
260'	50'	250'	70'	230'	50'	200'	80'
250'	80'	240'	80'	220'	80'		

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 290' BOOM AND CANNOT BE LIFTED OVER REAR OF BLOCKED CRAWLERS ON 280' BOOM OR SIDE OF EXTENDED CRAWLERS ON 260' BOOM.

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

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
70	16	82.8	77.2		441,000*
	17	82.0	77.1		408,300*
	18	81.1	76.9		386,800*
	19	80.3	76.7		367,400*
	20	79.5	76.5		349,800*
	22	77.8	76.0		319,000*
	24	76.1	75.5		293,000*
	26	74.4	74.9		270,700*
	28	72.7	74.2		251,400*
	30	70.9	73.5		234,400*
	32	69.2	72.7		219,000
	34	67.4	71.8		199,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
70	36	65.6	70.9		183,200
	38	63.7	69.8		169,100
	40	61.9	68.7		156,900
	42	60.0	67.5		146,200
	44	58.0	66.2		136,800
	46	56.0	64.9		128,400
	48	54.0	63.4	109,400	120,900
	50	51.9	61.7	97,500	114,100
	55	46.3	57.1	85,500	99,800
	60	40.1	51.4	75,700	88,300
	65	32.9	44.2	67,700	78,900
	70	23.7	34.1	60,800	70,900

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179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS	
80	17	83.0	87.2		405,400*	100	55	61.3	94.7	85,400	100,000	
	18	82.3	87.0		386,000*		60	57.9	91.6	75,700	88,500	
	19	81.5	86.9		366,700*		65	54.4	88.1	67,700	79,100	
	20	80.8	86.7		349,100*		70	50.8	84.1	61,000	71,200	
	22	79.3	86.3		318,300*		75	46.9	79.5	55,300	64,500	
	24	77.9	85.8		292,200*		80	42.7	74.3	50,300	58,800	
	26	76.4	85.3		270,000*		85	38.2	68.1	46,000	53,800	
	28	74.9	84.7		250,600*		90	33.1	60.8	42,200	49,400	
	30	73.4	84.1		233,700*		95	27.2	51.7	38,800	45,500	
	32	71.9	83.4		218,800*		100	19.5	39.4	35,700	42,000	
	34	70.4	82.7		199,800		110	22	82.3	116.8		316,900*
	36	68.8	81.9		183,400			24	81.2	116.4		290,900*
38	67.3	81.0		169,300	26	80.2		116.1		268,600*		
40	65.7	80.0		157,000	28	79.1		115.7		249,300*		
42	64.1	79.0		146,300	30	78.0		115.2		232,400*		
44	62.4	78.0	116,200	136,900	32	77.0		114.7		217,500*		
46	60.8	76.8	109,300	128,500	34	75.9		114.2		200,300		
48	59.1	75.6	103,100	120,900	36	74.8		113.6		183,700		
50	57.4	74.3	97,400	114,200	38	73.7		113.0		169,600		
55	52.9	70.6	85,400	99,800	40	72.6		112.4	132,800	157,300		
60	48.2	66.2	75,700	88,300	42	71.5		111.7	124,000	146,500		
65	43.0	61.0	67,600	78,900	44	70.4		110.9	116,200	137,000		
70	37.3	54.8	60,900	71,000	46	69.3	110.2	109,200	128,500			
75	30.6	46.9	55,100	64,300	48	68.2	109.3	103,000	121,000			
80	22.0	36.0	50,000	58,500	50	67.0	108.5	97,300	114,200			
90	19	82.5	97.0		365,000*	55	64.1	106.1	85,200	99,800		
	20	81.8	96.8		348,600*	60	61.2	103.4	75,500	88,300		
	22	80.5	96.5		317,800*	65	58.1	100.3	67,500	78,900		
	24	79.2	96.1		291,800*	70	55.0	96.8	60,800	71,000		
	26	77.9	95.6		269,500*	75	51.7	93.0	55,000	64,300		
	28	76.6	95.1		250,200*	80	48.2	88.6	50,100	58,600		
	30	75.3	94.6		233,300*	85	44.5	83.6	45,800	53,600		
	32	74.0	94.0		218,400*	90	40.6	77.9	42,000	49,300		
	34	72.6	93.3		200,100	95	36.3	71.4	38,600	45,400		
	36	71.3	92.6		183,600	100	31.5	63.6	35,600	41,900		
	38	69.9	91.8		169,400	105	25.8	54.0	32,800	38,800		
	40	68.6	91.0		157,200	110	18.6	40.9	30,300	36,000		
42	67.2	90.1	124,000	146,400	120	22	82.9	126.9		309,900*		
44	65.8	89.2	116,300	137,000		24	82.0	126.6		290,400*		
46	64.3	88.2	109,300	128,500		26	81.0	126.2		268,100*		
48	62.9	87.2	103,100	121,000		28	80.0	125.9		248,800*		
50	61.4	86.0	97,400	114,200		30	79.1	125.5		232,000*		
55	57.7	82.9	85,400	99,900		32	78.1	125.0		217,100*		
60	53.8	79.3	75,700	88,400		34	77.1	124.5		200,300		
65	49.6	75.2	67,600	79,000		36	76.1	124.0		183,700		
70	45.2	70.4	60,900	71,100		38	75.1	123.5	142,600	169,500		
75	40.4	64.7	55,200	64,400		40	74.1	122.9	132,700	157,200		
80	35.0	57.9	50,200	58,700		42	73.1	122.2	123,900	146,400		
85	28.7	49.4	45,800	53,600		44	72.1	121.6	116,100	136,900		
90	20.7	37.7	41,900	49,200	46	71.1	120.9	109,100	128,500			
100	20	82.7	107.0		348,200*	48	70.1	120.1	102,800	120,900		
	22	81.5	106.6		317,500*	50	69.1	119.3	97,200	114,100		
	24	80.3	106.3		291,500*	55	66.5	117.2	85,100	99,700		
	26	79.2	105.9		269,200*	60	63.8	114.7	75,400	88,200		
	28	78.0	105.4		249,900*	65	61.1	112.0	67,300	78,800		
	30	76.8	104.9		233,000*	70	58.3	109.0	60,600	70,900		
	32	75.6	104.4		218,100*	75	55.4	105.6	54,900	64,200		
	34	74.4	103.8		200,200	80	52.4	101.8	50,000	58,500		
	36	73.2	103.2		183,700	85	49.3	97.5	45,700	53,500		
	38	72.0	102.5		169,600	90	46.0	92.8	41,900	49,200		
	40	70.8	101.8		157,300	95	42.5	87.5	38,500	45,300		
	42	69.6	101.0	124,100	146,600	100	38.7	81.4	35,500	41,900		
44	68.3	100.2	116,300	137,100	105	34.6	74.4	32,800	38,800			
46	67.1	99.3	109,400	128,600	110	30.0	66.2	30,400	36,000			
48	65.8	98.4	103,100	121,100	115	24.7	56.1	28,100	33,500			
50	64.6	97.4	97,500	114,300	120	17.7	42.4	26,000	31,100			

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
130	24	82.6	136.7		285,200*
	26	81.7	136.4		267,800*
	28	80.8	136.0		248,600*
	30	79.9	135.7		231,700*
	32	79.0	135.3		216,800*
	34	78.1	134.8		200,400
	36	77.2	134.3	154,100	183,800
	38	76.3	133.8	142,600	169,600
	40	75.4	133.3	132,700	157,300
	42	74.5	132.7	123,900	146,500
	44	73.5	132.1	116,100	137,000
	46	72.6	131.5	109,100	128,500
	48	71.7	130.8	102,800	120,900
	50	70.7	130.1	97,100	114,100
	55	68.4	128.1	85,100	99,700
	60	66.0	125.9	75,300	88,200
65	63.5	123.4	67,300	78,800	
70	61.0	120.7	60,600	70,900	
75	58.4	117.6	54,900	64,200	
80	55.8	114.3	49,900	58,500	
85	53.0	110.6	45,600	53,500	
90	50.2	106.5	41,900	49,200	
95	47.2	101.9	38,500	45,300	
100	44.0	96.8	35,500	41,900	
105	40.7	91.2	32,800	38,800	
110	37.1	84.8	30,400	36,100	
115	33.2	77.4	28,200	33,500	
120	28.8	68.7	26,100	31,200	
125	23.6	58.1	24,300	29,100	
130	17.0	43.8	22,500	27,100	
140	26	82.3	146.5		267,300*
	28	81.5	146.2		248,000*
	30	80.6	145.8		231,200*
	32	79.8	145.5		216,300*
	34	79.0	145.1	167,100	200,300
	36	78.1	144.6	153,900	183,700
	38	77.3	144.1	142,500	169,400
	40	76.4	143.6	132,500	157,100
	42	75.6	143.1	123,700	146,300
	44	74.7	142.5	115,900	136,800
	46	73.9	141.9	108,900	128,300
	48	73.0	141.3	102,600	120,700
	50	72.2	140.7	96,900	113,900
	55	70.0	138.9	84,900	99,500
	60	67.8	136.8	75,100	88,000
	65	65.5	134.6	67,100	78,500
70	63.3	132.1	60,400	70,700	
75	60.9	129.3	54,600	64,000	
80	58.5	126.3	49,700	58,300	
85	56.1	123.0	45,400	53,300	
90	53.5	119.3	41,600	49,000	
95	50.9	115.3	38,300	45,100	
100	48.2	110.9	35,300	41,700	
105	45.3	106.1	32,600	38,600	
110	42.3	100.7	30,200	35,900	
115	39.1	94.7	28,000	33,400	
120	35.7	87.9	26,000	31,100	
125	31.9	80.2	24,100	29,000	
130	27.7	71.2	22,400	27,000	
135	22.7	60.1	20,800	25,200	
140	16.3	45.2	19,300	23,500	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
150	26	82.8	156.6		244,200*
	28	82.0	156.3		238,700*
	30	81.3	156.0		230,500*
	32	80.5	155.6		215,600*
	34	79.7	155.3	166,900	200,200
	36	78.9	154.8	153,700	183,600
	38	78.2	154.4	142,300	169,300
	40	77.4	153.9	132,300	157,000
	42	76.6	153.5	123,400	146,100
	44	75.8	152.9	115,600	136,600
	46	75.0	152.4	108,600	128,100
	48	74.2	151.8	102,300	120,500
	50	73.4	151.2	96,600	113,700
	55	71.4	149.5	84,500	99,200
	60	69.4	147.6	74,800	87,700
	65	67.3	145.6	66,700	78,200
70	65.2	143.3	60,000	70,300	
75	63.0	140.8	54,200	63,700	
80	60.9	138.0	49,300	57,900	
85	58.6	135.0	45,000	53,000	
90	56.3	131.7	41,200	48,600	
95	54.0	128.1	37,900	44,800	
100	51.6	124.2	34,900	41,300	
105	49.1	119.9	32,200	38,300	
110	46.4	115.2	29,800	35,500	
115	43.7	110.1	27,600	33,000	
120	40.8	104.4	25,600	30,700	
125	37.7	98.1	23,700	28,600	
130	34.4	91.0	22,000	26,700	
135	30.8	82.9	20,500	24,900	
140	26.7	73.5	19,000	23,200	
145	21.9	62.0	17,600	21,700	
150	15.7	46.5	16,300	20,200	
160	28	82.5	166.4		228,900*
	30	81.8	166.1		223,800*
	32	81.1	165.8	182,200	215,000*
	34	80.4	165.4	166,700	200,100
	36	79.6	165.1	153,500	183,400
	38	78.9	164.6	142,000	169,100
	40	78.2	164.2	132,000	156,700
	42	77.4	163.7	123,200	145,900
	44	76.7	163.3	115,300	136,400
	46	76.0	162.7	108,300	127,900
	48	75.2	162.2	102,000	120,300
	50	74.5	161.6	96,300	113,400
	55	72.6	160.1	84,200	99,000
	60	70.7	158.3	74,500	87,400
	65	68.8	156.4	66,400	77,900
	70	66.8	154.3	59,700	70,000
75	64.9	152.0	53,900	63,400	
80	62.9	149.4	49,000	57,600	
85	60.8	146.7	44,700	52,700	
90	58.7	143.6	40,900	48,300	
95	56.6	140.4	37,600	44,500	
100	54.4	136.8	34,600	41,000	
105	52.1	133.0	31,900	38,000	
110	49.8	128.8	29,500	35,200	
115	47.4	124.3	27,300	32,700	
120	44.9	119.3	25,300	30,400	
125	42.2	113.9	23,400	28,300	
130	39.4	108.0	21,800	26,400	
135	36.5	101.4	20,200	24,600	
140	33.3	94.0	18,700	23,000	
145	29.8	85.6	17,400	21,500	
150	25.8	75.7	16,100	20,000	
155	21.2	63.8	14,900	18,700	
160	15.2	47.8	13,800	17,400	

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
170	28	83.0	176.5		213,500*
	30	82.3	176.2	200,500	209,400*
	32	81.6	175.9	182,100	205,400*
	34	80.9	175.6	166,600	200,000
	36	80.3	175.2	153,400	183,300
	38	79.6	174.9	141,900	169,000
	40	78.9	174.4	131,900	156,600
	42	78.2	174.0	123,000	145,800
	44	77.5	173.6	115,200	136,200
	46	76.8	173.1	108,200	127,700
	48	76.1	172.6	101,900	120,100
	50	75.4	172.0	96,200	113,300
	55	73.7	170.6	84,100	98,800
	60	71.9	168.9	74,300	87,200
	65	70.1	167.1	66,200	77,800
	70	68.3	165.2	59,500	69,900
	75	66.4	163.0	53,800	63,200
	80	64.6	160.6	48,800	57,500
	85	62.7	158.1	44,500	52,500
	90	60.8	155.3	40,700	48,100
95	58.8	152.3	37,400	44,300	
100	56.8	149.1	34,400	40,900	
105	54.7	145.6	31,700	37,800	
110	52.6	141.8	29,300	35,000	
115	50.4	137.7	27,100	32,500	
120	48.2	133.3	25,100	30,300	
125	45.9	128.5	23,300	28,200	
130	43.4	123.3	21,600	26,300	
135	40.9	117.6	20,000	24,500	
140	38.2	111.4	18,600	22,900	
145	35.3	104.5	17,200	21,300	
150	32.2	96.8	16,000	19,900	
155	28.8	88.1	14,800	18,600	
160	25.0	77.9	13,700	17,300	
165	20.5	65.6	12,600	16,200	
180	30	82.7	186.3	199,200*	199,200*
	32	82.1	186.0	181,900	195,500*
	34	81.4	185.7	166,400	191,800*
	36	80.8	185.4	153,100	183,100
	38	80.2	185.0	141,600	168,800
	40	79.5	184.6	131,600	156,400
	42	78.9	184.2	122,700	145,500
	44	78.2	183.8	114,900	136,000
	46	77.6	183.4	107,900	127,500
	48	76.9	182.9	101,600	119,800
	50	76.2	182.4	95,900	113,000
	55	74.6	181.0	83,700	98,500
	60	72.9	179.5	74,000	86,900
	65	71.2	177.8	65,900	77,500
	70	69.5	175.9	59,200	69,500
	75	67.8	173.9	53,400	62,900
	80	66.1	171.7	48,500	57,100
	85	64.3	169.3	44,200	52,100
	90	62.5	166.8	40,400	47,800
	95	60.7	164.0	37,000	43,900
100	58.9	161.0	34,100	40,500	
105	57.0	157.8	31,400	37,500	
110	55.0	154.3	29,000	34,700	
115	53.0	150.6	26,800	32,200	
120	51.0	146.6	24,800	29,900	
125	48.9	142.3	22,900	27,800	
130	46.7	137.6	21,300	25,900	
135	44.5	132.6	19,700	24,200	
140	42.1	127.1	18,300	22,500	
145	39.7	121.2	16,900	21,000	
150	37.1	114.7	15,700	19,600	
155	34.3	107.6	14,500	18,300	
160	31.3	99.6	13,400	17,100	
165	28.0	90.6	12,400	15,900	
170	24.3	80.0	11,400	14,800	
175	19.9	67.3	10,500	13,800	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
190	32	82.5	196.2	181,000*	181,000*
	34	81.9	195.9	166,200	178,000*
	36	81.3	195.5	152,900	175,000*
	38	80.7	195.2	141,400	168,700
	40	80.1	194.8	131,300	156,200
	42	79.4	194.4	122,500	145,300
	44	78.8	194.0	114,600	135,800
	46	78.2	193.6	107,600	127,200
	48	77.6	193.2	101,300	119,600
	50	77.0	192.7	95,500	112,700
	55	75.4	191.4	83,400	98,200
	60	73.9	189.9	73,600	86,600
	65	72.3	188.4	65,500	77,100
	70	70.7	186.6	58,800	69,200
	75	69.1	184.7	53,000	62,500
	80	67.4	182.7	48,000	56,700
	85	65.8	180.4	43,700	51,700
	90	64.1	178.0	39,900	47,400
	95	62.4	175.4	36,600	43,500
	100	60.7	172.6	33,600	40,100
105	58.9	169.6	30,900	37,000	
110	57.1	166.4	28,500	34,300	
115	55.3	163.0	26,300	31,800	
120	53.4	159.3	24,300	29,500	
125	51.5	155.4	22,500	27,400	
130	49.5	151.2	20,800	25,500	
135	47.5	146.7	19,200	23,700	
140	45.4	141.8	17,800	22,100	
145	43.2	136.5	16,500	20,600	
150	40.9	130.9	15,200	19,200	
155	38.5	124.7	14,000	17,900	
160	36.0	118.0	13,000	16,600	
165	33.3	110.6	11,900	15,500	
170	30.4	102.3	11,000	14,400	
175	27.2	93.0	10,000	13,300	
180	23.6	82.1	9,200	12,400	
185	19.4	68.9	8,300	11,400	
200	32	82.9	206.3	171,000*	171,000*
	34	82.3	206.0	165,900	168,200*
	36	81.7	205.7	152,600	165,400*
	38	81.1	205.3	141,100	162,600*
	40	80.6	205.0	131,000	155,900
	42	80.0	204.6	122,200	145,000
	44	79.4	204.2	114,300	135,400
	46	78.8	203.8	107,200	126,900
	48	78.2	203.4	100,900	119,300
	50	77.6	203.0	95,200	112,400
	55	76.2	201.7	83,000	97,900
	60	74.7	200.4	73,200	86,200
	65	73.2	198.9	65,100	76,700
	70	71.7	197.2	58,400	68,800
	75	70.2	195.4	52,600	62,100
	80	68.6	193.5	47,700	56,300
	85	67.1	191.4	43,300	51,400
	90	65.5	189.1	39,600	47,000
	95	63.9	186.7	36,200	43,100
	100	62.3	184.1	33,200	39,700
105	60.6	181.3	30,500	36,600	
110	59.0	178.3	28,100	33,900	
115	57.3	175.1	25,900	31,400	
120	55.5	171.7	23,900	29,100	
125	53.8	168.1	22,100	27,000	
130	52.0	164.2	20,400	25,100	
135	50.1	160.1	18,800	23,300	
140	48.2	155.6	17,400	21,700	
145	46.2	150.9	16,100	20,200	
150	44.2	145.8	14,800	18,800	
155	42.1	140.4	13,700	17,500	
160	39.8	134.5	12,600	16,300	
165	37.5	128.1	11,600	15,100	
170	35.1	121.1	10,600	14,000	
175	32.4	113.4	9,700	13,000	
180	29.6	104.9	8,800	12,000	
185	26.5	95.3	8,000	11,100	
190	23.0	84.1	7,200	10,200	
195	18.9	70.6	6,500	9,400	

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REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
210	34	82.7	216.1	158,700*	158,700*
	36	82.1	215.8	152,400	156,400*
	38	81.6	215.5	140,900	154,100*
	40	81.0	215.1	130,800	151,800*
	42	80.5	214.8	121,900	144,800
	44	79.9	214.4	114,000	135,200
	46	79.4	214.0	107,000	126,700
	48	78.8	213.6	100,700	119,000
	50	78.2	213.2	94,900	112,200
	55	76.8	212.0	82,800	97,600
	60	75.4	210.8	73,000	86,000
	65	74.0	209.3	64,900	76,500
	70	72.6	207.8	58,100	68,600
	75	71.1	206.1	52,300	61,800
	80	69.7	204.2	47,400	56,100
	85	68.2	202.2	43,100	51,100
	90	66.7	200.1	39,300	46,700
	95	65.2	197.8	35,900	42,900
	100	63.7	195.4	32,900	39,400
	105	62.2	192.7	30,200	36,400
110	60.6	189.9	27,800	33,600	
115	59.0	187.0	25,600	31,100	
120	57.4	183.8	23,600	28,800	
125	55.8	180.4	21,800	26,700	
130	54.1	176.8	20,100	24,800	
135	52.4	173.0	18,600	23,100	
140	50.6	168.9	17,100	21,400	
145	48.8	164.6	15,800	19,900	
150	46.9	160.0	14,600	18,500	
155	45.0	155.1	13,400	17,200	
160	43.0	149.8	12,300	16,000	
165	41.0	144.1	11,300	14,900	
170	38.8	138.0	10,300	13,800	
175	36.6	131.4	9,400	12,800	
180	34.2	124.2	8,600	11,800	
185	31.6	116.3	7,800	10,900	
190	28.9	107.5	7,000	10,000	
195	25.8	97.5	6,300	9,200	
200	22.4	86.0	5,600	8,400	
205	18.4	72.1	4,900	7,700	
220	34	83.0	226.2	147,500*	147,500*
	36	82.5	225.9	146,600*	146,600*
	38	82.0	225.6	140,500	144,500*
	40	81.4	225.3	130,500	142,400*
	42	80.9	224.9	121,600	140,200*
	44	80.4	224.6	113,700	134,900
	46	79.8	224.2	106,700	126,400
	48	79.3	223.8	100,300	118,700
	50	78.8	223.4	94,600	111,800
	55	77.5	222.3	82,400	97,300
	60	76.1	221.1	72,600	85,600
	65	74.8	219.7	64,500	76,100
	70	73.4	218.3	57,700	68,200
	75	72.0	216.6	51,900	61,500
	80	70.7	214.9	47,000	55,700
	85	69.3	213.0	42,700	50,700
	90	67.9	211.0	38,900	46,300
	95	66.4	208.8	35,500	42,500
	100	65.0	206.5	32,500	39,000
	105	63.6	204.0	29,800	36,000
110	62.1	201.4	27,400	33,200	
115	60.6	198.6	25,200	30,700	
120	59.1	195.6	23,200	28,400	
230	125	57.5	192.5	21,400	26,300
	130	56.0	189.1	19,700	24,400
	135	54.4	185.6	18,200	22,700
	140	52.7	181.8	16,700	21,000
	145	51.1	177.8	15,400	19,500
	150	49.4	173.5	14,200	18,100
	155	47.6	169.0	13,000	16,800
	160	45.8	164.2	11,900	15,600
	165	43.9	159.1	10,900	14,500
	170	42.0	153.6	10,000	13,400
	175	40.0	147.7	9,100	12,400
	180	37.9	141.4	8,200	11,400
	185	35.7	134.6	7,400	10,500
	190	33.4	127.1	6,600	9,700
	195	30.9	119.0	5,900	8,800
200	28.2	110.0	5,200	8,100	
205	25.2	99.7	4,600	7,300	
210	21.9	87.9		6,600	
215	17.9	73.7		5,900	
240	36	82.8	236.0	133,600*	133,600*
	38	82.3	235.7	133,300*	133,300*
	40	81.8	235.4	130,200	132,900*
	42	81.3	235.1	121,300	131,500*
	44	80.8	234.7	113,400	129,700*
	46	80.3	234.4	106,400	126,100
	48	79.8	234.0	100,000	118,500
	50	79.3	233.6	94,300	111,500
	55	78.0	232.6	82,100	97,000
	60	76.7	231.4	72,200	85,300
	65	75.4	230.1	64,100	75,800
	70	74.1	228.7	57,300	67,800
	75	72.8	227.2	51,500	61,100
	80	71.5	225.5	46,500	55,300
	85	70.2	223.7	42,200	50,300
90	68.9	221.8	38,400	45,900	
95	67.5	219.7	35,100	42,000	
100	66.2	217.5	32,100	38,600	
105	64.8	215.2	29,400	35,500	
110	63.4	212.7	27,000	32,700	
115	62.0	210.1	24,800	30,200	
120	60.6	207.3	22,700	28,000	
125	59.1	204.3	20,900	25,900	
130	57.6	201.1	19,200	24,000	
135	56.1	197.8	17,700	22,200	
140	54.6	194.3	16,200	20,600	
145	53.1	190.6	14,900	19,100	
150	51.5	186.6	13,700	17,700	
155	49.9	182.4	12,500	16,300	
160	48.2	178.0	11,400	15,100	
165	46.5	173.3	10,400	14,000	
170	44.7	168.3	9,500	12,900	
175	42.9	163.0	8,600	11,900	
180	41.0	157.3	7,700	10,900	
185	39.1	151.3	6,900	10,000	
190	37.0	144.7	6,100	9,200	
195	34.9	137.7	5,400	8,400	
200	32.6	130.1	4,700	7,600	
205	30.2	121.7	4,100	6,900	
210	27.5	112.4		6,200	
215	24.6	101.9		5,500	
220	21.4	89.8		4,800	
225	17.5	75.2		4,200	

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES

**BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS		BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS					RETRACTED POUNDS	EXTENDED POUNDS
240	38	82.6	245.8	121,300*	121,300*	250	125	61.8	227.4	20,700	25,600
	40	82.2	245.5	121,000*	121,000*		130	60.5	224.6	19,000	23,700
	42	81.7	245.2	120,700*	120,700*		135	59.2	221.6	17,400	22,000
	44	81.2	244.9	113,000	120,300*		140	57.8	218.5	16,000	20,300
	46	80.7	244.6	106,000	120,000*		145	56.5	215.2	14,700	18,800
	48	80.2	244.2	99,600	118,100		150	55.1	211.7	13,400	17,400
	50	79.7	243.8	93,900	111,200		155	53.6	208.1	12,300	16,100
	55	78.5	242.8	81,700	96,600		160	52.2	204.2	11,200	14,900
	60	77.3	241.7	71,800	84,900		165	50.7	200.2	10,200	13,700
	65	76.1	240.5	63,700	75,400		170	49.2	195.9	9,200	12,700
	70	74.8	239.1	56,900	67,400		175	47.7	191.4	8,300	11,700
	75	73.6	237.6	51,100	60,700		180	46.1	186.6	7,500	10,700
	80	72.3	236.1	46,100	54,900		185	44.5	181.6	6,700	9,800
	85	71.1	234.4	41,800	49,900		190	42.8	176.2	5,900	9,000
	90	69.8	232.5	38,000	45,500		195	41.1	170.6	5,200	8,200
	95	68.5	230.6	34,600	41,600		200	39.3	164.5	4,500	7,400
	100	67.2	228.5	31,600	38,200		205	37.4	158.1		6,700
	105	65.9	226.3	28,900	35,100		210	35.4	151.2		6,000
	110	64.6	223.9	26,500	32,300		215	33.4	143.7		5,300
	115	63.3	221.4	24,300	29,800		220	31.2	135.7		4,700
	120	61.9	218.7	22,300	27,500		225	28.9	126.8		4,100
	125	60.5	215.9	20,500	25,400		40	82.8	265.7	100,500*	100,500*
130	59.2	213.0	18,800	23,500	42	82.3	265.4	100,200*	100,200*		
135	57.7	209.8	17,200	21,800	44	81.9	265.1	99,900*	99,900*		
140	56.3	206.5	15,800	20,100	46	81.4	264.8	99,600*	99,600*		
145	54.9	203.0	14,500	18,600	48	81.0	264.5	99,300*	99,300*		
150	53.4	199.3	13,200	17,200	50	80.5	264.2	93,700	98,900*		
155	51.9	195.4	12,100	15,900	55	79.4	263.2	81,500	96,400		
160	50.3	191.3	11,000	14,700	60	78.3	262.2	71,600	84,700		
165	48.7	187.0	10,000	13,600	65	77.2	261.1	63,500	75,200		
170	47.1	182.4	9,000	12,500	70	76.0	259.8	56,700	67,200		
175	45.4	177.5	8,100	11,500	75	74.9	258.5	50,900	60,500		
180	43.7	172.3	7,300	10,500	80	73.7	257.0	45,900	54,700		
185	41.9	166.8	6,500	9,600	85	72.6	255.5	41,600	49,700		
190	40.1	161.0	5,700	8,800	90	71.4	253.8	37,700	45,300		
195	38.2	154.7	5,000	8,000	95	70.2	252.0	34,400	41,400		
200	36.2	148.0	4,300	7,200	100	69.1	250.1	31,400	37,900		
205	34.1	140.8		6,500	105	67.9	248.1	28,700	34,900		
210	31.9	132.9		5,800	110	66.7	245.9	26,300	32,100		
215	29.5	124.3		5,100	115	65.5	243.7	24,100	29,600		
220	26.9	114.7		4,500	120	64.2	241.3	22,100	27,300		
250	38	82.9	255.9	110,200*	110,200*	125	63.0	238.7	20,200	25,200	
	40	82.5	255.6	109,900*	109,900*	130	61.8	236.1	18,500	23,300	
	42	82.0	255.3	109,600*	109,600*	135	60.5	233.2	17,000	21,500	
	44	81.5	255.0	109,300*	109,300*	140	59.2	230.3	15,600	19,900	
	46	81.1	254.7	106,200	109,000*	145	57.9	227.2	14,200	18,400	
	48	80.6	254.4	99,800	108,600*	150	56.6	223.9	13,000	17,000	
	50	80.1	254.0	94,100	108,300*	155	55.3	220.4	11,800	15,700	
	55	79.0	253.0	81,800	96,800	160	53.9	216.8	10,700	14,500	
	60	77.8	252.0	72,000	85,100	165	52.5	213.0	9,700	13,300	
	65	76.6	250.8	63,900	75,600	170	51.1	209.0	8,800	12,200	
	70	75.4	249.5	57,100	67,600	175	49.7	204.8	7,900	11,200	
	75	74.3	248.1	51,300	60,900	180	48.2	200.4	7,000	10,300	
	80	73.1	246.6	46,300	55,100	185	46.7	195.7	6,200	9,400	
	85	71.9	244.9	42,000	50,100	190	45.1	190.8	5,500	8,500	
	90	70.6	243.2	38,200	45,700	195	43.5	185.6	4,800	7,700	
	95	69.4	241.3	34,800	41,800	200	41.9	180.1	4,100	7,000	
	100	68.2	239.3	31,800	38,400	205	40.2	174.2		6,200	
	105	66.9	237.2	29,100	35,300	210	38.5	168.0		5,500	
	110	65.7	235.0	26,700	32,500	215	36.6	161.4		4,900	
	115	64.4	232.6	24,500	30,000	220	34.7	154.3		4,300	
	120	63.1	230.1	22,500	27,700						

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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888 SERIES 2

BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
270	40	83.0	275.8	91,900*	91,900*
	42	82.6	275.5	91,600*	91,600*
	44	82.2	275.2	91,300*	91,300*
	46	81.7	274.9	91,000*	91,000*
	48	81.3	274.6	90,700*	90,700*
	50	80.9	274.3	90,400*	90,400*
	55	79.8	273.4	81,100	89,500*
	60	78.7	272.4	71,200	84,400
	65	77.6	271.3	63,100	74,800
	70	76.5	270.1	56,200	66,800
	75	75.5	268.8	50,400	60,100
	80	74.4	267.5	45,500	54,300
	85	73.2	266.0	41,100	49,200
	90	72.1	264.4	37,300	44,800
	95	71.0	262.6	33,900	41,000
	100	69.9	260.8	30,900	37,500
	105	68.7	258.9	28,200	34,400
	110	67.6	256.8	25,800	31,600
	115	66.4	254.7	23,600	29,100
	120	65.3	252.4	21,600	26,800
	125	64.1	249.9	19,700	24,700
130	62.9	247.4	18,000	22,800	
135	61.7	244.7	16,500	21,000	
140	60.5	241.9	15,100	19,400	
145	59.2	238.9	13,700	17,900	
150	58.0	235.8	12,500	16,500	
155	56.7	232.6	11,300	15,200	
160	55.4	229.2	10,200	14,000	
165	54.1	225.6	9,200	12,800	
170	52.8	221.8	8,300	11,700	
175	51.5	217.8	7,400	10,700	
180	50.1	213.7	6,500	9,800	
185	48.7	209.3	5,700	8,900	
190	47.2	204.7	5,000	8,000	
195	45.8	199.9	4,300	7,200	
200	44.2	194.8		6,500	
205	42.7	189.5		5,700	
210	41.1	183.8		5,000	
215	39.4	177.8		4,400	
280	42	82.9	285.6	83,000*	83,000*
	44	82.5	285.3	82,700*	82,700*
	46	82.0	285.1	82,500*	82,500*
	48	81.6	284.8	82,200*	82,200*
	50	81.2	284.4	81,900*	81,900*
	55	80.2	283.6	80,700	81,200*
	60	79.1	282.6	70,800	80,400*
	65	78.1	281.6	62,600	74,400
	70	77.0	280.4	55,800	66,400
	75	76.0	279.2	50,000	59,600
	80	74.9	277.8	45,000	53,800
	85	73.9	276.4	40,700	48,800
	90	72.8	274.9	36,900	44,400
	95	71.7	273.2	33,500	40,500
	100	70.6	271.5	30,500	37,100
	105	69.5	269.6	27,800	34,000
	110	68.4	267.6	25,300	31,200
	115	67.3	265.6	23,100	28,700
	120	66.2	263.4	21,100	26,400
	125	65.1	261.1	19,300	24,300
	130	63.9	258.6	17,600	22,400
135	62.8	256.1	16,000	20,600	
140	61.6	253.4	14,600	19,000	
145	60.5	250.6	13,300	17,400	
150	59.3	247.6	12,000	16,000	
155	58.1	244.5	10,900	14,700	
160	56.8	241.3	9,800	13,500	
165	55.6	237.9	8,800	12,400	
170	54.4	234.3	7,800	11,300	
175	53.1	230.6	6,900	10,300	
180	51.8	226.7	6,100	9,300	
185	50.5	222.6	5,300	8,400	
190	49.1	218.3	4,500	7,600	
195	47.7	213.8		6,800	
200	46.3	209.0		6,000	
205	44.9	204.0		5,300	
210	43.4	198.8		4,600	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
290	44	82.7	295.4	75,900*	75,900*
	46	82.3	295.2	75,600*	75,600*
	48	81.9	294.9	75,300*	75,300*
	50	81.5	294.6	75,100*	75,100*
	55	80.5	293.7	74,300*	74,300*
	60	79.5	292.8	71,100	73,100*
	65	78.5	291.8	63,000	71,000*
	70	77.5	290.7	56,200	66,800
	75	76.5	289.5	50,300	60,000
	80	75.5	288.2	45,400	54,200
	85	74.4	286.8	41,000	49,100
	90	73.4	285.3	37,200	44,700
	95	72.4	283.8	33,800	40,900
	100	71.3	282.1	30,800	37,400
	105	70.3	280.3	28,100	34,300
	110	69.2	278.4	25,700	31,500
	115	68.2	276.4	23,500	29,000
	120	67.1	274.3	21,500	26,700
	125	66.0	272.1	19,600	24,600
	130	64.9	269.8	17,900	22,700
	135	63.8	267.3	16,400	20,900
140	62.7	264.7	14,900	19,300	
145	61.6	262.0	13,600	17,800	
150	60.4	259.2	12,400	16,400	
155	59.3	256.3	11,200	15,100	
160	58.1	253.2	10,100	13,800	
165	57.0	249.9	9,100	12,700	
170	55.8	246.6	8,200	11,600	
175	54.6	243.0	7,300	10,600	
180	53.3	239.3	6,400	9,700	
185	52.1	235.5	5,600	8,800	
190	50.8	231.4	4,900	7,900	
195	49.5	227.2	4,200	7,100	
200	48.2	222.7		6,400	
205	46.8	218.1		5,600	
210	45.5	213.2		4,900	
215	44.0	208.1		4,300	

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

CHART SUPPLEMENTS BOOM CAPACITY CHART NO. 7813-A. CAPACITIES FOR VARIOUS BOOM LENGTHS, JIB LENGTHS AND JIB 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 (*).

250' THRU 290' BOOM LENGTHS REQUIRE ONLY THE MIDDLE TWO SHEAVES IN LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF JIB LOAD. BOOM AND JIB ARE 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 CRAWLERS FULLY EXTENDED AND GANTRY UP. REFER TO BOOM RIGGING NO. 177156 OR NO. 177353, JIB ASSEMBLY NO. 177062, AND WIRE ROPE SPECIFICATION CHART NO. 7810-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION. REFER TO OPERATORS MANUAL FOR OPERATING GUIDELINES.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7808-A.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION 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. JIB POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF JIB POINT SHAFT.

MACHINE EQUIPPED WITH 28'2" CRAWLERS, 48" TREADS, 10'3" RETRACTABLE GANTRY, 30' LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 179,100 LB. CRANE COUNTERWEIGHT AND 44,000 LB. CARBODY COUNTERWEIGHT.

MAXIMUM CAPACITY ON 26 mm OR 1" WIRE ROPE IS 29,500 LBS. PER LINE (20,000 LBS. WHEN AUXILIARY DRUM IS USED).

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED							
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134
(a) 290'	---	(a) 280'	---	(a) 260'	---	230'	---
280'	---	270'	---	250'	---	220'	30'
270'	---	260'	40'	240'	---	210'	60'
260'	50'	250'	70'	230'	50'	200'	80'
250'	80'	240'	80'	220'	80'		

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 290' BOOM AND CANNOT BE LIFTED OVER REAR OF BLOCKED CRAWLERS ON 280' BOOM OR SIDE OF EXTENDED CRAWLERS ON 260' BOOM.

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
90	30	79.2	125.4	59,000*							30
	35	76.7	124.3	59,000*	79.2	123.5	59,000*				35
	40	74.2	122.9	59,000*	76.7	122.1	59,000*	79.3	120.4	48,900*	40
	45	71.7	121.2	59,000*	74.2	120.4	58,100*	76.7	118.7	46,200*	45
	50	69.2	119.3	59,000*	71.6	118.5	57,100*	74.1	116.8	43,800*	50
	55	66.6	117.2	59,000*	69.0	116.4	56,200*	71.4	114.6	41,700*	55
	60	63.9	114.7	58,100*	66.3	113.9	55,300*	68.7	112.1	39,900*	60
	65	61.2	112.0	57,100*	63.6	111.2	54,600*	65.9	109.3	38,200*	65
	70	58.4	108.9	56,100*	60.8	108.1	53,900*	63.0	106.1	36,700*	70
	75	55.5	105.5	55,300*	57.9	104.7	51,700*	60.1	102.6	35,400*	75
	80	52.5	101.7	54,600*	54.8	100.8	49,300*	57.0	98.7	34,200*	80
	85	49.4	97.5	53,900*	51.7	96.5	47,100*	53.7	94.3	33,100*	85
	90	46.1	92.8	52,100	48.4	91.8	45,200*	50.3	89.4	32,200*	90
	100	38.9	81.4	44,900	41.0	80.2	41,900*	42.7	77.5	30,600*	100
110	30.2	66.2	39,000	32.1	64.7	39,200				110	

REFERENCE ONLY



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



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888 SERIES

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
100	30	80.0	135.6	59,000*							30
	35	77.8	134.6	59,000*	80.1	133.8	59,000*				35
	40	75.5	133.3	59,000*	77.8	132.5	59,000*	80.1	130.8	49,900*	40
	45	73.2	131.8	59,000*	75.5	131.0	58,700*	77.8	129.2	47,300*	45
	50	70.9	130.0	59,000*	73.1	129.2	57,700*	75.4	127.5	45,000*	50
	55	68.5	128.1	59,000*	70.8	127.3	56,800*	73.0	125.5	42,900*	55
	60	66.1	125.9	59,000*	68.3	125.0	56,000*	70.5	123.2	41,100*	60
	65	63.6	123.4	58,000*	65.9	122.6	55,200*	68.0	120.7	39,400*	65
	70	61.1	120.7	57,100*	63.3	119.8	54,500*	65.4	117.9	38,000*	70
	75	58.5	117.6	56,200*	60.7	116.7	53,800*	62.8	114.8	36,600*	75
	80	55.9	114.3	55,400*	58.0	113.3	51,800*	60.1	111.3	35,400*	80
	85	53.1	110.5	54,700*	55.3	109.6	49,600*	57.2	107.5	34,300*	85
90	50.3	106.4	51,900*	52.4	105.5	47,600*	54.3	103.2	33,300*	90	
100	44.2	96.8	44,600	46.2	95.7	44,100*	47.9	93.3	31,600*	100	
110	37.2	84.7	38,800	39.2	83.5	39,100				110	
120	28.9	68.7	33,900	30.7	67.1	34,200				120	
110	30	80.7	145.8	59,000*							30
	35	78.7	144.8	59,000*	80.8	144.0	59,000*				35
	40	76.5	143.6	59,000*	78.7	142.8	59,000*	80.9	141.1	50,800*	40
	45	74.4	142.2	59,000*	76.6	141.4	59,000*	78.7	139.7	48,300*	45
	50	72.3	140.6	59,000*	74.4	139.8	58,200*	76.5	138.0	46,000*	50
	55	70.1	138.8	59,000*	72.2	138.0	57,400*	74.3	136.2	44,000*	55
	60	67.9	136.8	59,000*	70.0	136.0	56,500*	72.1	134.1	42,200*	60
	65	65.7	134.6	59,000*	67.7	133.7	55,800*	69.8	131.8	40,600*	65
	70	63.4	132.1	57,900*	65.4	131.2	55,100*	67.4	129.3	39,100*	70
	75	61.0	129.3	57,000*	63.1	128.4	54,400*	65.0	126.5	37,700*	75
	80	58.6	126.3	56,200*	60.7	125.4	53,800*	62.6	123.4	36,500*	80
	85	56.2	123.0	55,500*	58.2	122.0	51,900*	60.1	120.0	35,400*	85
90	53.6	119.3	51,400	55.6	118.4	49,900*	57.5	116.2	34,400*	90	
100	48.3	110.9	44,200	50.2	109.9	44,700	51.9	107.5	32,600*	100	
110	42.4	100.7	38,300	44.3	99.5	38,700	45.9	96.9	31,100*	110	
120	35.8	87.9	33,500	37.6	86.6	33,800				120	
130	27.8	71.1	29,500							130	
120	35	79.4	155.0	59,000*							35
	40	77.5	153.9	59,000*	79.5	153.1	59,000*				40
	45	75.5	152.6	59,000*	77.5	151.8	59,000*	79.5	150.0	49,100*	45
	50	73.5	151.2	59,000*	75.5	150.4	58,700*	77.5	148.5	47,000*	50
	55	71.5	149.5	59,000*	73.5	148.7	57,800*	75.4	146.8	45,000*	55
	60	69.4	147.6	59,000*	71.4	146.8	57,100*	73.4	144.9	43,200*	60
	65	67.4	145.5	59,000*	69.3	144.7	56,300*	71.2	142.8	41,600*	65
	70	65.3	143.3	58,700*	67.2	142.4	55,600*	69.1	140.5	40,100*	70
	75	63.1	140.7	57,800*	65.1	139.9	54,900*	66.9	137.9	38,800*	75
	80	61.0	138.0	57,000*	62.9	137.1	54,400*	64.7	135.1	37,500*	80
	85	58.7	135.0	55,500	60.6	134.0	53,800*	62.4	132.0	36,400*	85
	90	56.4	131.7	51,100	58.3	130.7	51,800	60.1	128.6	35,400*	90
100	51.7	124.1	43,800	53.5	123.2	44,400	55.1	120.9	33,600*	100	
110	46.5	115.2	38,000	48.3	114.1	38,500	49.9	111.7	32,000*	110	
120	40.9	104.4	33,200	42.6	103.2	33,600	44.0	100.4	30,800*	120	
130	34.5	91.0	29,200	36.1	89.6	29,500				130	
140	26.8	73.5	25,800							140	
130	35	80.1	165.2	59,000*							35
	40	78.3	164.2	59,000*	80.2	163.4	59,000*				40
	45	76.4	163.0	59,000*	78.3	162.2	59,000*	80.2	160.4	49,900*	45
	50	74.6	161.6	59,000*	76.4	160.8	59,000*	78.3	159.0	47,800*	50
	55	72.7	160.1	59,000*	74.5	159.2	58,300*	76.4	157.4	45,900*	55
	60	70.8	158.3	59,000*	72.6	157.5	57,500*	74.5	155.6	44,100*	60
	65	68.9	156.4	59,000*	70.7	155.5	56,800*	72.5	153.7	42,600*	65
	70	66.9	154.3	59,000*	68.8	153.4	56,100*	70.5	151.5	41,100*	70
	75	65.0	151.9	58,600*	66.8	151.1	55,500*	68.5	149.1	39,800*	75
	80	62.9	149.4	57,700*	64.7	148.5	54,900*	66.5	146.5	38,500*	80
	85	60.9	146.6	55,200	62.7	145.7	54,300*	64.4	143.7	37,400*	85
	90	58.8	143.6	50,900	60.6	142.7	51,600	62.2	140.6	36,300*	90
100	54.5	136.8	43,600	56.2	135.8	44,200	57.8	133.6	34,500*	100	
110	49.9	128.8	37,800	51.6	127.8	38,300	53.1	125.4	32,900*	110	
120	44.9	119.3	33,000	46.6	118.2	33,400	48.0	115.6	31,600*	120	
130	39.5	107.9	29,000	41.1	106.7	29,300	42.4	103.8	29,600	130	
140	33.4	93.9	25,600	34.9	92.5	25,800				140	
150	25.9	75.7	22,600							150	

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
140	35	80.7	175.4	59,000*							35
	40	79.0	174.4	59,000*	80.7	173.6	59,000*				40
	45	77.2	173.3	59,000*	79.0	172.5	59,000*	80.8	170.6	50,600*	45
	50	75.5	172.0	59,000*	77.3	171.2	59,000*	79.0	169.3	48,600*	50
	55	73.7	170.5	59,000*	75.5	169.7	58,700*	77.2	167.9	46,700*	55
	60	72.0	168.9	59,000*	73.7	168.1	57,900*	75.4	166.2	45,000*	60
	65	70.2	167.1	59,000*	71.9	166.3	57,200*	73.6	164.4	43,400*	65
	70	68.4	165.1	59,000*	70.1	164.3	56,600*	71.8	162.4	42,000*	70
	75	66.5	163.0	59,000*	68.2	162.1	55,900*	69.9	160.2	40,700*	75
	80	64.7	160.6	58,500*	66.4	159.7	55,300*	68.0	157.8	39,400*	80
	85	62.8	158.1	54,900	64.5	157.2	54,800*	66.1	155.1	38,300*	85
	90	60.8	155.3	50,500	62.5	154.4	51,200	64.1	152.3	37,300*	90
	100	56.9	149.0	43,200	58.5	148.1	43,900	60.0	145.9	35,400*	100
	110	52.7	141.8	37,400	54.3	140.8	37,900	55.8	138.5	33,800*	110
	120	48.3	133.3	32,600	49.9	132.2	33,100	51.2	129.8	32,400*	120
	130	43.5	123.3	28,600	45.1	122.1	29,000	46.3	119.5	29,300	130
140	38.3	111.4	25,200	39.8	110.1	25,500				140	
150	32.3	96.8	22,300	33.7	95.3	22,500				150	
160	25.1	77.9	19,700							160	
150	40	79.6	184.6	59,000*							40
	45	78.0	183.6	59,000*	79.6	182.7	59,000*				45
	50	76.3	182.3	59,000*	78.0	181.5	59,000*	79.7	179.7	49,300*	50
	55	74.7	181.0	59,000*	76.3	180.1	59,000*	78.0	178.3	47,500*	55
	60	73.0	179.5	59,000*	74.7	178.6	58,300*	76.3	176.7	45,800*	60
	65	71.3	177.8	59,000*	73.0	176.9	57,600*	74.6	175.0	44,300*	65
	70	69.6	175.9	59,000*	71.3	175.1	57,000*	72.9	173.1	42,800*	70
	75	67.9	173.9	59,000*	69.5	173.0	56,400*	71.1	171.1	41,500*	75
	80	66.2	171.7	59,000*	67.8	170.8	55,800*	69.3	168.8	40,300*	80
	85	64.4	169.3	54,400	66.0	168.4	55,200*	67.6	166.4	39,200*	85
	90	62.6	166.7	50,000	64.2	165.8	50,800	65.7	163.8	38,100*	90
	100	58.9	161.0	42,800	60.5	160.0	43,400	62.0	157.9	36,200*	100
	110	55.1	154.3	36,900	56.7	153.3	37,500	58.1	151.1	34,600*	110
	120	51.1	146.5	32,100	52.6	145.5	32,600	53.9	143.1	33,100	120
	130	46.8	137.6	28,100	48.3	136.5	28,600	49.6	133.9	28,900	130
	140	42.2	127.1	24,700	43.6	125.9	25,100	44.8	123.2	25,400	140
150	37.1	114.7	21,800	38.5	113.4	22,100				150	
160	31.4	99.6	19,300	32.7	98.0	19,500				160	
170	24.4	80.0	17,000							170	
160	40	80.1	194.8	59,000*							40
	45	78.6	193.8	59,000*	80.2	193.0	59,000*				45
	50	77.1	192.7	59,000*	78.6	191.8	59,000*	80.2	190.0	50,000*	50
	55	75.5	191.4	59,000*	77.1	190.5	59,000*	78.6	188.6	48,200*	55
	60	73.9	189.9	59,000*	75.5	189.1	58,700*	77.1	187.2	46,500*	60
	65	72.3	188.3	59,000*	73.9	187.5	58,000*	75.4	185.6	45,000*	65
	70	70.8	186.6	59,000*	72.3	185.7	57,400*	73.8	183.8	43,600*	70
	75	69.1	184.7	59,000*	70.7	183.8	56,800*	72.2	181.9	42,300*	75
	80	67.5	182.6	59,000*	69.0	181.8	56,200*	70.5	179.8	41,100*	80
	85	65.9	180.4	54,000	67.4	179.5	54,900	68.9	177.5	40,000*	85
	90	64.2	178.0	49,600	65.7	177.1	50,500	67.1	175.0	38,900*	90
	100	60.8	172.6	42,300	62.3	171.7	43,100	63.7	169.6	37,000*	100
	110	57.2	166.4	36,500	58.7	165.4	37,100	60.0	163.3	35,400*	110
	120	53.5	159.3	31,700	55.0	158.3	32,300	56.3	156.0	32,700	120
	130	49.6	151.2	27,700	51.0	150.1	28,200	52.3	147.6	28,600	130
	140	45.5	141.8	24,300	46.9	140.6	24,700	48.0	138.0	25,000	140
150	41.0	130.8	21,400	42.4	129.6	21,700	43.4	126.7	22,000	150	
160	36.1	117.9	18,900	37.4	116.5	19,100				160	
170	30.5	102.3	16,600	31.7	100.6	16,800				170	
180	23.7	82.0	14,600							180	

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
170	40	80.6	205.0	59,000*							40
	45	79.2	204.0	59,000*	80.7	203.2	59,000*				45
	50	77.7	202.9	59,000*	79.2	202.1	59,000*	80.7	200.2	50,600*	50
	55	76.2	201.7	59,000*	77.7	200.9	59,000*	79.2	199.0	48,800*	55
	60	74.8	200.4	59,000*	76.2	199.5	59,000*	77.7	197.6	47,200*	60
	65	73.3	198.9	59,000*	74.7	198.0	58,300*	76.2	196.1	45,700*	65
	70	71.8	197.2	59,000*	73.2	196.3	57,700*	74.7	194.4	44,300*	70
	75	70.2	195.4	59,000*	71.7	194.5	57,200*	73.1	192.6	43,000*	75
	80	68.7	193.5	58,700	70.2	192.6	56,600*	71.6	190.6	41,800*	80
	85	67.1	191.4	53,700	68.6	190.5	54,600	70.0	188.5	40,700*	85
	90	65.6	189.1	49,300	67.0	188.2	50,200	68.4	186.2	39,700*	90
	100	62.4	184.1	42,000	63.8	183.1	42,800	65.1	181.0	37,800*	100
	110	59.0	178.3	36,200	60.5	177.3	36,900	61.8	175.2	36,100*	110
120	55.6	171.7	31,400	57.0	170.7	32,000	58.3	168.4	32,500	120	
130	52.0	164.2	27,400	53.4	163.1	27,900	54.6	160.8	28,300	130	
140	48.3	155.6	24,000	49.6	154.5	24,500	50.8	152.0	24,800	140	
150	44.2	145.8	21,100	45.6	144.6	21,500	46.6	141.9	21,800	150	
160	39.9	134.5	18,600	41.2	133.2	18,900	42.2	130.2	19,100	160	
170	35.1	121.1	16,400	36.3	119.6	16,600				170	
180	29.7	104.9	14,400	30.8	103.2	14,600				180	
190	23.0	84.0	12,600							190	
180	45	79.7	214.2	59,000*							45
	50	78.3	213.2	59,000*	79.7	212.3	59,000*				50
	55	76.9	212.0	59,000*	78.3	211.2	59,000*	79.8	209.3	49,400*	55
	60	75.5	210.7	59,000*	76.9	209.9	59,000*	78.3	208.0	47,900*	60
	65	74.1	209.3	59,000*	75.5	208.4	58,700*	76.9	206.5	46,400*	65
	70	72.7	207.7	59,000*	74.1	206.9	58,100*	75.5	204.9	45,000*	70
	75	71.2	206.1	59,000*	72.6	205.2	57,500*	74.0	203.2	43,700*	75
	80	69.8	204.2	58,300	71.2	203.3	57,000*	72.5	201.4	42,600*	80
	85	68.3	202.2	53,300	69.7	201.3	54,300	71.0	199.3	41,400*	85
	90	66.8	200.1	48,900	68.2	199.2	49,800	69.5	197.2	40,400*	90
	100	63.8	195.3	41,600	65.2	194.4	42,400	66.5	192.3	38,500*	100
	110	60.7	189.9	35,800	62.0	189.0	36,500	63.3	186.8	36,800*	110
	120	57.5	183.8	31,000	58.8	182.8	31,600	60.0	180.6	32,100	120
130	54.2	176.8	27,000	55.5	175.8	27,500	56.6	173.5	28,000	130	
140	50.7	168.9	23,600	52.0	167.8	24,100	53.1	165.4	24,500	140	
150	47.0	160.0	20,700	48.3	158.8	21,100	49.3	156.3	21,400	150	
160	43.1	149.7	18,200	44.4	148.5	18,500	45.3	145.8	18,800	160	
170	38.9	138.0	16,000	40.1	136.6	16,200				170	
180	34.2	124.1	14,000	35.4	122.6	14,200				180	
190	28.9	107.4	12,200							190	
200	22.5	86.0	10,600							200	
190	45	80.2	224.4	59,000*							45
	50	78.9	223.4	59,000*	80.2	222.6	59,000*				50
	55	77.5	222.3	59,000*	78.9	221.5	59,000*	80.3	219.5	50,000*	55
	60	76.2	221.1	59,000*	77.5	220.2	59,000*	78.9	218.3	48,400*	60
	65	74.8	219.7	59,000*	76.2	218.9	59,000*	77.5	216.9	47,000*	65
	70	73.5	218.2	59,000*	74.8	217.4	58,400*	76.2	215.4	45,700*	70
	75	72.1	216.6	59,000*	73.4	215.8	57,800*	74.8	213.8	44,400*	75
	80	70.7	214.9	57,800	72.1	214.0	57,300*	73.4	212.0	43,200*	80
	85	69.3	213.0	52,800	70.7	212.1	53,900	72.0	210.1	42,100*	85
	90	67.9	211.0	48,500	69.2	210.1	49,400	70.5	208.1	41,100*	90
	100	65.1	206.5	41,100	66.4	205.6	42,000	67.6	203.5	39,200*	100
	110	62.1	201.4	35,300	63.4	200.4	36,000	64.7	198.3	36,700	110
	120	59.1	195.6	30,500	60.4	194.6	31,100	61.6	192.4	31,700	120
130	56.0	189.1	26,500	57.3	188.1	27,100	58.4	185.8	27,600	130	
140	52.8	181.8	23,100	54.0	180.7	23,600	55.1	178.4	24,000	140	
150	49.4	173.5	20,200	50.6	172.4	20,600	51.7	169.9	21,000	150	
160	45.9	164.2	17,700	47.1	163.0	18,000	48.1	160.4	18,300	160	
170	42.1	153.6	15,400	43.2	152.3	15,800	44.2	149.5	16,000	170	
180	38.0	141.4	13,500	39.1	140.0	13,700				180	
190	33.4	127.1	11,700	34.5	125.6	11,900				190	
200	28.2	109.9	10,100							200	
210	21.9	87.9	8,700							210	

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
200	45	80.6	234.6	59,000*							45
	50	79.3	233.6	59,000*	80.7	232.8	59,000*				50
	55	78.1	232.6	59,000*	79.4	231.7	59,000*	80.7	229.8	50,500*	55
	60	76.8	231.4	59,000*	78.1	230.5	59,000*	79.4	228.6	49,000*	60
	65	75.5	230.1	59,000*	76.8	229.2	59,000*	78.1	227.3	47,600*	65
	70	74.2	228.7	59,000*	75.5	227.8	58,700*	76.8	225.9	46,300*	70
	75	72.9	227.1	59,000*	74.2	226.3	58,100*	75.5	224.3	45,000*	75
	80	71.6	225.5	57,400	72.9	224.6	57,600*	74.1	222.6	43,900*	80
	85	70.3	223.7	52,400	71.5	222.8	53,500	72.8	220.8	42,800*	85
	90	68.9	221.8	48,000	70.2	220.9	49,000	71.4	218.9	41,700*	90
	100	66.2	217.5	40,700	67.5	216.6	41,600	68.7	214.5	39,900*	100
	110	63.5	212.7	34,900	64.7	211.8	35,600	65.9	209.6	36,300	110
	120	60.6	207.2	30,100	61.9	206.3	30,700	63.0	204.1	31,300	120
	130	57.7	201.1	26,100	58.9	200.1	26,600	60.0	197.9	27,200	130
	140	54.7	194.3	22,700	55.9	193.2	23,200	57.0	190.9	23,600	140
	150	51.5	186.6	19,800	52.7	185.5	20,200	53.8	183.1	20,600	150
	160	48.3	178.0	17,200	49.4	176.9	17,600	50.4	174.3	18,000	160
	170	44.8	168.3	15,000	45.9	167.1	15,300	46.9	164.4	15,600	170
	180	41.1	157.3	13,000	42.2	156.0	13,300	43.0	153.1	13,600	180
	190	37.1	144.7	11,300	38.1	143.3	11,500				190
200	32.6	130.0	9,700	33.7	128.4	9,900				200	
210	27.6	112.3	8,300							210	
220	21.4	89.7	6,900							220	
210	45	81.0	244.7	59,000*							45
	50	79.8	243.8	59,000*							50
	55	78.6	242.8	59,000*	79.8	241.9	59,000*				55
	60	77.4	241.7	59,000*	78.6	240.8	59,000*	79.9	238.9	49,500*	60
	65	76.1	240.4	59,000*	77.4	239.6	59,000*	78.6	237.6	48,100*	65
	70	74.9	239.1	59,000*	76.1	238.2	59,000*	77.4	236.3	46,800*	70
	75	73.6	237.6	59,000*	74.9	236.7	58,400*	76.1	234.8	45,600*	75
	80	72.4	236.0	57,100	73.6	235.2	57,900*	74.8	233.2	44,500*	80
	85	71.1	234.3	52,100	72.4	233.4	53,200	73.6	231.4	43,400*	85
	90	69.9	232.5	47,700	71.1	231.6	48,700	72.3	229.6	42,400*	90
	100	67.3	228.5	40,400	68.5	227.5	41,200	69.7	225.5	40,500*	100
	110	64.7	223.9	34,500	65.9	222.9	35,300	67.0	220.8	36,000	110
	120	62.0	218.7	29,700	63.2	217.8	30,400	64.3	215.6	31,000	120
	130	59.2	212.9	25,700	60.4	212.0	26,300	61.5	209.7	26,900	130
	140	56.4	206.5	22,300	57.5	205.5	22,900	58.6	203.2	23,300	140
150	53.4	199.3	19,400	54.6	198.2	19,900	55.6	195.9	20,300	150	
160	50.4	191.3	16,900	51.5	190.2	17,300	52.5	187.7	17,700	160	
170	47.2	182.3	14,700	48.3	181.2	15,000	49.2	178.6	15,300	170	
180	43.8	172.3	12,700	44.9	171.1	13,000	45.7	168.3	13,300	180	
190	40.2	160.9	10,900	41.2	159.6	11,200	42.0	156.6	11,400	190	
200	36.3	148.0	9,400	37.3	146.5	9,600				200	
210	31.9	132.9	7,900	32.9	131.2	8,100				210	
220	27.0	114.7	6,600							220	
230	21.0	91.6	5,400							230	

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
220	50	80.2	254.0	59,000*	80.2	252.1	59,000*	80.3	249.1	50,000*	50
	55	79.0	253.0	59,000*	79.1	251.1	59,000*	79.1	247.9	48,600*	55
	60	77.9	251.9	59,000*	77.9	249.9	59,000*	77.9	246.6	47,400*	60
	65	76.7	250.8	59,000*	76.7	248.6	59,000*	76.7	245.2	46,200*	65
	70	75.5	249.5	59,000*	75.5	247.2	58,700*	75.5	243.7	45,000*	70
	75	74.3	248.1	59,000*	74.3	245.7	57,900	74.2	242.0	44,000*	75
	80	73.3	246.5	56,600	73.1	244.0	52,800	73.0	240.3	43,000*	80
	85	71.9	244.9	51,600	71.9	242.3	48,300	71.9	236.3	41,100*	85
	90	70.7	243.2	47,200	69.4	238.4	40,800	68.0	231.9	35,600	90
	100	68.2	239.3	39,900	66.9	234.0	34,900	65.4	226.9	30,600	100
	110	65.7	234.9	34,100	64.3	229.1	30,000	62.8	221.4	26,500	110
	120	63.2	230.0	29,300	61.7	223.6	25,900	60.0	215.2	22,900	120
	130	60.6	224.6	25,300	59.0	217.5	22,400	57.2	208.3	19,900	130
	140	57.9	218.5	21,900	56.2	210.7	19,500	54.3	200.7	17,300	140
	150	55.1	211.7	19,000	53.3	203.1	16,900	51.3	192.2	14,900	150
160	52.3	204.2	16,400	50.3	194.7	14,600	48.1	182.7	12,900	160	
170	49.3	195.9	14,200	47.2	185.4	12,600	44.7	172.1	11,000	170	
180	46.1	186.6	12,200	43.9	174.9	10,800				180	
190	42.8	176.2	10,500	40.3	163.1	9,200				190	
200	39.3	164.5	8,900	36.5	149.7	7,700				200	
210	35.5	151.1	7,500	32.2	134.0	6,400				210	
220	31.3	135.6	6,200							220	
230	26.4	117.0	5,000							230	
230	50	80.6	264.1	59,000*	80.6	262.3	59,000*	80.7	259.4	50,500*	50
	55	79.5	263.2	59,000*	79.5	261.3	59,000*	79.5	258.2	49,100*	55
	60	78.3	262.2	59,000*	78.4	260.2	59,000*	78.4	257.0	47,900*	60
	65	77.2	261.0	59,000*	77.2	258.9	59,000*	77.2	255.6	46,700*	65
	70	76.1	259.8	59,000*	76.1	257.6	59,000*	76.1	254.1	45,600*	70
	75	74.9	258.5	59,000*	74.9	256.1	57,500	74.9	252.6	44,500*	75
	80	73.8	257.0	56,200	73.8	254.6	52,400	73.7	250.9	43,500*	80
	85	72.6	255.4	51,200	72.6	252.9	47,900	71.3	247.1	41,300	85
	90	71.5	253.8	46,800	70.2	249.2	40,400	68.9	242.9	35,200	90
	100	69.1	250.1	39,400	67.8	245.0	34,400	66.4	238.2	30,200	100
	110	66.7	245.9	33,600	65.4	240.3	29,500	63.9	232.9	26,000	110
	120	64.3	241.2	28,800	62.9	235.1	25,400	61.3	227.0	22,500	120
	130	61.8	236.0	24,800	60.4	229.3	21,900	58.7	220.5	19,400	130
	140	59.3	230.3	21,400	57.7	222.8	19,000	56.0	213.4	16,800	140
	150	56.7	223.9	18,400	55.0	215.7	16,400	53.1	205.4	14,500	150
160	54.0	216.8	15,900	52.2	207.9	14,100	50.1	196.6	12,400	160	
170	51.2	209.0	13,700	49.3	199.2	12,100	47.0	186.8	10,600	170	
180	48.2	200.3	11,700	46.2	189.5	10,300	43.7	175.8	8,900	180	
190	45.2	190.7	10,000	42.9	178.7	8,700				190	
200	42.0	180.0	8,400	39.5	166.6	7,200				200	
210	38.5	168.0	7,000	35.7	152.7	5,900				210	
220	34.8	154.3	5,700	31.5	136.6	4,700				220	
230	30.6	138.3	4,500							230	
240	50	80.9	274.3	59,000*	81.0	272.5	59,000*	81.0	269.6	50,900*	50
	55	79.9	273.4	59,000*	79.9	271.5	59,000*	79.9	268.5	49,600*	55
	60	78.8	272.4	59,000*	78.8	270.4	59,000*	78.8	267.3	48,400*	60
	65	77.7	271.3	59,000*	77.7	269.2	59,000*	77.7	266.0	47,200*	65
	70	76.6	270.1	59,000*	76.6	267.9	59,000*	76.6	264.6	46,100*	70
	75	75.5	268.8	59,000*	75.5	266.5	57,100	75.5	263.0	45,000*	75
	80	74.4	267.4	55,800	74.4	265.0	52,000	74.3	261.4	44,000*	80
	85	73.3	265.9	50,700	73.3	263.4	47,500	72.1	257.8	41,000	85
	90	72.2	264.3	46,300	71.0	259.9	40,000	69.8	253.8	34,800	90
	100	69.9	260.8	39,000	68.7	255.9	34,000	67.4	249.3	29,800	100
	110	67.6	256.8	33,100	66.4	251.4	29,100	65.0	244.3	25,600	110
	120	65.3	252.3	28,300	64.0	246.4	25,000	62.5	238.7	22,100	120
	130	63.0	247.4	24,300	61.6	240.9	21,500	60.0	232.5	19,000	130
	140	60.5	241.9	20,900	59.1	234.8	18,500	57.4	225.7	16,400	140
	150	58.0	235.8	18,000	56.5	228.1	15,900	54.8	218.3	14,100	150
160	55.5	229.1	15,400	53.9	220.7	13,700	52.0	210.0	12,000	160	
170	52.9	221.8	13,200	51.1	212.5	11,700	49.1	200.9	10,200	170	
180	50.1	213.7	11,200	48.3	203.5	9,900	46.0	190.8	8,500	180	
190	47.3	204.7	9,500	45.3	193.6	8,200				190	
200	44.3	194.8	7,900	42.1	182.5	6,800				200	
210	41.1	183.8	6,500	38.7	170.0	5,500				210	
220	37.8	171.4	5,200	35.0	155.7	4,300				220	
230	34.1	157.3	4,000							230	

REFERENCE ONLY



MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
250	55	80.2	283.6	59,000*							55
	60	79.2	282.6	59,000*	80.3	281.7	59,000*				60
	65	78.1	281.6	59,000*	79.2	280.7	59,000*				65
	70	77.1	280.4	59,000*	78.2	279.5	59,000*	80.3	278.7	50,000*	70
	75	76.0	279.2	59,000*	77.1	278.3	59,000*	79.2	277.6	48,800*	75
	80	75.0	277.8	55,800	76.0	276.9	57,200	78.2	276.3	47,700*	80
	85	73.9	276.4	50,800	75.0	275.5	52,000	77.1	274.9	46,600*	85
	90	72.8	274.8	46,400	73.9	273.9	47,600	76.0	273.5	45,500*	90
	100	70.7	271.4	39,100	71.7	270.5	40,100	74.9	271.9	44,600*	100
	110	68.5	267.6	33,200	69.5	266.7	34,100	72.7	268.5	41,000	110
	120	66.3	263.4	28,400	67.3	262.4	29,200	70.5	264.6	34,900	120
	130	64.0	258.6	24,400	65.0	257.6	25,100	68.3	260.3	29,900	130
	140	61.7	253.4	21,000	62.7	252.4	21,600	66.0	255.5	25,700	140
	150	59.3	247.6	18,000	60.3	246.6	18,600	63.6	250.2	22,200	150
	160	56.9	241.2	15,500	57.9	240.2	16,000	61.2	244.3	19,100	160
	170	54.4	234.3	13,300	55.4	233.2	13,700	58.8	237.9	16,500	170
	180	51.8	226.6	11,300	52.8	225.5	11,700	56.3	230.8	14,200	180
	190	49.2	218.2	9,600	50.1	217.1	10,000	53.6	223.1	12,100	190
	200	46.4	209.0	8,000	47.3	207.8	8,300	50.9	214.5	10,300	200
	210	43.4	198.8	6,600	44.4	197.5	6,900	48.1	205.1	8,600	210
220	40.3	187.4	5,300	41.2	186.1	5,600	45.1	194.7	7,100	220	
230	37.0	174.7	4,100	37.9	173.3	4,400	41.9	183.1	5,800	230	
260	55	80.6	293.7	59,000*							55
	60	79.6	292.8	59,000*	80.6	291.9	59,000*				60
	65	78.6	291.8	59,000*	79.6	290.9	59,000*	80.6	288.9	50,400*	65
	70	77.5	290.7	59,000*	78.6	289.8	59,000*	79.6	287.8	49,200*	70
	75	76.5	289.5	59,000*	77.6	288.6	59,000*	78.6	286.6	48,100*	75
	80	75.5	288.2	55,400	76.5	287.3	56,800	77.6	285.3	47,000*	80
	85	74.5	286.8	50,400	75.5	285.9	51,600	76.5	283.9	46,000*	85
	90	73.5	285.3	46,000	74.5	284.4	47,100	75.5	282.4	45,000*	90
	100	71.4	282.1	38,600	72.4	281.1	39,600	73.4	279.1	40,700	100
	110	69.3	278.4	32,700	70.3	277.5	33,600	71.2	275.4	34,500	110
	120	67.1	274.3	27,900	68.1	273.3	28,700	69.1	271.2	29,500	120
	130	65.0	269.7	23,900	66.0	268.8	24,600	66.9	266.6	25,300	130
	140	62.8	264.7	20,500	63.7	263.7	21,100	64.7	261.6	21,800	140
	150	60.5	259.2	17,600	61.5	258.2	18,200	62.4	256.0	18,700	150
	160	58.2	253.2	15,000	59.2	252.1	15,600	60.0	249.9	16,100	160
	170	55.8	246.5	12,800	56.8	245.5	13,300	57.6	243.1	13,700	170
	180	53.4	239.3	10,900	54.3	238.2	11,300	55.1	235.8	11,700	180
	190	50.9	231.4	9,100	51.8	230.3	9,500	52.6	227.7	9,800	190
	200	48.2	222.7	7,600	49.2	221.5	7,900	49.9	218.9	8,200	200
	210	45.5	213.2	6,100	46.4	212.0	6,500	47.1	209.2	6,700	210
220	42.6	202.7	4,900	43.5	201.4	5,100	44.2	198.5	5,400	220	

REFERENCE ONLY

MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES

**JIB NO. 134 WITH 12'6" STRUT ON
BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

40 FOOT JIB											
BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
90	30	80.7	135.6	53,500*							30
	35	78.5	134.5	51,900*							35
	40	76.2	133.2	50,400*	79.2	132.2	46,000*				40
	45	73.9	131.7	48,900*	76.9	130.7	44,900*	80.0	128.5	39,500*	45
	50	71.6	130.0	47,600*	74.6	128.9	43,800*	77.7	126.7	37,400*	50
	55	69.2	128.0	46,400*	72.2	126.9	42,900*	75.2	124.7	35,600*	55
	60	66.8	125.8	45,300*	69.8	124.7	42,000*	72.7	122.4	34,000*	60
	65	64.3	123.3	44,200*	67.3	122.2	41,200*	70.2	119.9	32,600*	65
	70	61.8	120.6	43,300*	64.7	119.5	40,500*	67.6	117.0	31,300*	70
	75	59.2	117.5	42,300*	62.1	116.4	39,800*	64.9	113.9	30,100*	75
	80	56.6	114.2	41,500*	59.4	113.0	38,600*	62.2	110.4	29,000*	80
	85	53.8	110.5	40,700*	56.7	109.2	36,700*	59.3	106.5	28,000*	85
90	51.0	106.3	40,000*	53.8	105.1	35,100*	56.4	102.3	27,200*	90	
100	44.8	96.7	38,300*	47.5	95.3	32,300*	49.9	92.2	25,700*	100	
110	37.9	84.6	34,800*	40.5	82.9	30,000*				110	
120	29.6	68.6	31,900*	31.9	66.4	28,200*				120	
100	35	79.3	144.7	52,500*							35
	40	77.2	143.6	51,000*	80.0	142.5	46,400*				40
	45	75.1	142.2	49,700*	77.9	141.1	45,300*	80.8	138.9	40,200*	45
	50	72.9	140.6	48,400*	75.7	139.5	44,300*	78.6	137.2	38,200*	50
	55	70.7	138.8	47,200*	73.5	137.7	43,400*	76.4	135.4	36,500*	55
	60	68.5	136.7	46,100*	71.3	135.6	42,600*	74.1	133.3	34,900*	60
	65	66.3	134.5	45,100*	69.0	133.4	41,800*	71.8	131.0	33,500*	65
	70	64.0	132.0	44,100*	66.7	130.9	41,100*	69.4	128.4	32,200*	70
	75	61.7	129.2	43,200*	64.4	128.1	40,400*	67.0	125.6	31,000*	75
	80	59.3	126.2	42,400*	62.0	125.0	39,800*	64.6	122.4	29,900*	80
	85	56.8	122.9	41,600*	59.5	121.7	38,600*	62.0	119.0	28,900*	85
	90	54.3	119.2	40,900*	56.9	118.0	36,900*	59.4	115.2	28,100*	90
100	48.9	110.8	39,600*	51.5	109.4	34,000*	53.8	106.5	26,500*	100	
110	43.1	100.6	37,300*	45.5	99.0	31,500*	47.7	95.7	25,300*	110	
120	36.4	87.8	34,200*	38.8	86.0	29,500*				120	
130	28.4	71.0	30,700							130	
110	35	80.0	155.0	53,000*							35
	40	78.1	153.9	51,600*	80.7	152.8	46,700*				40
	45	76.1	152.6	50,300*	78.7	151.5	45,700*				45
	50	74.1	151.1	49,100*	76.7	150.0	44,800*	79.4	147.7	38,900*	50
	55	72.1	149.4	47,900*	74.7	148.3	43,900*	77.4	146.0	37,200*	55
	60	70.1	147.5	46,900*	72.6	146.4	43,100*	75.3	144.0	35,700*	60
	65	68.0	145.5	45,800*	70.6	144.3	42,300*	73.1	141.9	34,300*	65
	70	65.9	143.2	44,900*	68.4	142.0	41,600*	71.0	139.6	33,000*	70
	75	63.7	140.7	44,000*	66.3	139.5	40,900*	68.8	137.0	31,800*	75
	80	61.6	137.9	43,200*	64.1	136.7	40,300*	66.5	134.1	30,800*	80
	85	59.3	134.9	42,400*	61.8	133.7	39,700*	64.2	131.0	29,800*	85
	90	57.0	131.6	41,600*	59.5	130.3	38,600*	61.9	127.6	28,900*	90
100	52.3	124.1	40,300*	54.7	122.7	35,600*	56.9	119.8	27,300*	100	
110	47.1	115.1	39,100	49.5	113.6	33,000*	51.6	110.5	26,000*	110	
120	41.5	104.3	34,300	43.8	102.7	30,900*	45.7	99.1	24,900*	120	
130	35.1	90.9	30,200	37.2	89.0	29,200*				130	
140	27.4	73.3	26,800							140	
120	35	80.7	165.2	53,500*							35
	40	78.8	164.1	52,200*							40
	45	77.0	162.9	50,900*	79.5	161.8	46,100*				45
	50	75.1	161.5	49,700*	77.6	160.4	45,200*	80.1	158.1	39,500*	50
	55	73.3	160.0	48,600*	75.7	158.9	44,300*	78.2	156.5	37,900*	55
	60	71.4	158.2	47,500*	73.8	157.1	43,500*	76.3	154.7	36,400*	60
	65	69.4	156.3	46,600*	71.9	155.2	42,800*	74.3	152.7	35,000*	65
	70	67.5	154.2	45,600*	69.9	153.0	42,100*	72.3	150.5	33,800*	70
	75	65.5	151.9	44,700*	67.9	150.7	41,400*	70.3	148.2	32,600*	75
	80	63.5	149.3	43,900*	65.9	148.1	40,800*	68.2	145.5	31,500*	80
	85	61.5	146.5	43,100*	63.8	145.3	40,200*	66.1	142.7	30,600*	85
	90	59.4	143.5	42,400*	61.7	142.3	39,700*	63.9	139.6	29,700*	90
100	55.0	136.7	41,100*	57.3	135.4	37,200*	59.5	132.6	28,100*	100	
110	50.4	128.7	38,700	52.7	127.3	34,500*	54.7	124.3	26,700*	110	
120	45.5	119.2	33,900	47.7	117.7	32,300*	49.6	114.4	25,600*	120	
130	40.1	107.8	29,900	42.2	106.1	30,300	43.9	102.4	24,700*	130	
140	33.9	93.8	26,500	35.9	91.8	26,800				140	
150	26.4	75.5	23,500							150	

REFERENCE ONLY