

**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE CAPACITIES**
BOOM NO. 9A WITH OPEN THROAT TOP
84,600 LB. COUNTERWEIGHT
360 DEGREE RATINGMEETS
ANSI B30.5
REQUIREMENTS**3900W SERIES 2**

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 INDICATED BY (b) REPRESENT 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 OR COMBINATION OF TWO SINGLE PART LINES IS 22,500 LBS. (20,000 LBS. ON FIRST THREE LAYERS, 14,000 LBS. THEREAFTER WHEN REAR AUXILIARY DRUM IS USED). IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO BOOM RIGGING NO. 49501 AND WIRE ROPE SPECIFICATION CHART NO. 6437-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.

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 24' EXTENDIBLE CRAWLERS, 48" TREADS, 16' RETRACTABLE GANTRY, 10 OR 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS, 1ST COUNTERWEIGHT = 43,000 LBS., 2ND COUNTERWEIGHT = 30,000 LBS., AND 3RD COUNTERWEIGHT = 11,600 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED								
OVER END OF BLOCKED CRAWLERS			OVER SIDE OF EXTENDED CRAWLERS			OVER SIDE OF RETRACTED CRAWLERS		
BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124
250'	---	---	240'	---	---	220'	---	---
240'	30'	50'	230'	---	---	210'	---	---
230'	50'	60'	220'	30'	40'	200'	40'	50'
220'	60'	60'	210'	40'	60'	190'	50'	60'
			200'	60'	60'	180'	60'	60'

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
JIB LGTH.	JIB NO. 123	JIB NO. 124
30'	2,500 LBS.	1,800 LBS.
40'	3,100 LBS.	2,050 LBS.
50'	3,700 LBS.	2,300 LBS.
60'	4,400 LBS.	2,500 LBS.

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
60	15	79.4	65.8	280,000*	280,000*
	16	78.5	65.6	258,100b	268,700*
	17	77.5	65.4	232,300b	255,500*
	18	76.5	65.2	211,000b	243,400*
	19	75.5	64.9	193,300b	232,500*
	20	74.5	64.7	178,300b	217,000
	22	72.5	64.1	154,100b	185,100
	24	70.5	63.4	135,600b	161,300
	26	68.5	62.7	121,000b	142,700
	28	66.4	61.8	109,100b	127,900
	30	64.3	60.9	99,200b	115,800
	32	62.2	59.9	91,000b	105,700
	34	60.0	58.8	83,900b	97,200
	36	57.8	57.6	77,800b	89,900
	38	55.5	56.3	72,500b	83,600
	40	53.1	54.9	67,900b	78,000
	45	46.9	50.7	58,400b	66,800
	50	39.9	45.4	51,000b	58,300
	55	31.8	38.5	45,200	51,500
	60	21.0	28.4	40,500	46,100
70	15	81.0	76.0	273,700b*	273,700*
	16	80.1	75.8	257,900b	267,800*
	17	79.3	75.6	232,000b	254,600*
	18	78.5	75.4	210,700b	242,500*
	19	77.6	75.2	193,000b	231,600*
	20	76.8	75.0	177,900b	216,800
	22	75.1	74.5	153,800b	184,900
	24	73.4	73.9	135,200b	161,000
	26	71.7	73.3	120,600b	142,400
	28	69.9	72.6	108,700b	127,600
	30	68.2	71.8	98,900b	115,500
	32	66.4	71.0	90,600b	105,400
	34	64.6	70.1	83,500b	96,800
	36	62.8	69.1	77,400b	89,500
	38	60.9	68.0	72,100b	83,200
	40	59.1	66.9	67,500b	77,600
	45	54.1	63.6	57,900b	66,400
	50	48.9	59.6	50,600	57,900
	55	43.2	54.8	44,800	51,100
	60	36.9	48.9	40,100	45,700
	65	29.4	41.2	36,200	41,200
	70	19.5	30.2	32,900	37,500

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360 DEGREE RATING**MEETS
ANSI B30.5
REQUIREMENTS**3900W SERIES 2**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
80	16	81.4	85.9	249,800b*	249,800*
	17	80.6	85.8	231,800b	245,000*
	18	79.9	85.6	210,500b	240,500*
	19	79.2	85.4	192,700b	230,900*
	20	78.5	85.2	177,700b	216,600
	22	77.0	84.8	153,500b	184,700
	24	75.5	84.3	135,000b	160,700
	26	74.0	83.8	120,300b	142,200
	28	72.5	83.2	108,400b	127,300
	30	71.0	82.5	98,600b	115,200
	32	69.5	81.8	90,300b	105,100
	34	68.0	81.0	83,200b	96,600
	36	66.4	80.2	77,200b	89,300
	38	64.8	79.3	71,800b	82,900
	40	63.3	78.3	67,200b	77,400
	45	59.2	75.5	57,600	66,100
	50	54.9	72.3	50,300	57,600
	55	50.4	68.5	44,500	50,800
	60	45.6	64.0	39,800	45,400
	65	40.3	58.6	35,900	40,900
90	70	34.4	52.1	32,600	37,200
	75	27.4	43.7	29,800	34,000
	80	18.2	31.8	27,400	31,200
	18	81.1	95.8	210,200b	228,300*
	19	80.4	95.6	192,400b	224,300*
	20	79.8	95.4	177,300b	216,300
	22	78.5	95.0	153,200b	184,300
	24	77.2	94.6	134,600b	160,400
	26	75.9	94.1	119,900b	141,800
	28	74.5	93.6	108,000b	127,000
	30	73.2	93.0	98,200b	114,800
	32	71.9	92.4	89,900b	104,700
100	34	70.5	91.7	82,800b	96,200
	36	69.2	91.0	76,700b	88,900
	38	67.8	90.2	71,400b	82,500
	40	66.4	89.3	66,800	77,000
	45	62.9	87.0	57,200	65,700
	50	59.3	84.2	49,900	57,200
	55	55.5	81.0	44,100	50,400
	60	51.5	77.3	39,400	45,000
	65	47.3	73.0	35,500	40,500
	70	42.8	68.0	32,200	36,700
	75	37.9	62.2	29,400	33,500
	80	32.4	55.1	27,000	30,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
110	22	80.6	115.4	152,900b	179,100*
	24	79.5	115.0	134,300b	160,200
	26	78.5	114.6	119,600b	141,600
	28	77.4	114.2	107,700b	126,700
	30	76.3	113.7	97,900b	114,600
	32	75.3	113.2	89,600b	104,500
	34	74.2	112.7	82,500	95,900
	36	73.1	112.1	76,400	88,600
	38	72.0	111.5	71,100	82,200
	40	70.9	110.8	66,400	76,700
	45	68.1	108.9	56,900	65,400
	50	65.3	106.8	49,500	56,800
120	55	62.4	104.3	43,700	50,100
	60	59.4	101.5	39,000	44,700
	65	56.3	98.4	35,100	40,200
	70	53.1	94.9	31,800	36,400
	75	49.8	90.9	29,000	33,200
	80	46.3	86.4	26,600	30,400
	85	42.6	81.3	24,500	28,100
	90	38.6	75.4	22,600	25,900
	95	34.2	68.7	21,000	24,100
	100	29.2	60.6	19,500	22,400
	105	23.3	50.4	18,200	20,900
	110	15.5	36.2	17,000	19,600
130	22	81.4	125.5	152,600b	172,000*
	24	80.4	125.2	134,000b	159,900
	26	79.4	124.8	119,300b	141,300
	28	78.5	124.4	107,400b	126,400
	30	77.5	124.0	97,600b	114,300
	32	76.5	123.5	89,300	104,200
	34	75.5	123.0	82,200	95,600
	36	74.5	122.5	76,100	88,300
	38	73.5	121.9	70,800	81,900
	40	72.5	121.3	66,100	76,400
	45	70.0	119.6	56,500	65,100
	50	67.5	117.7	49,200	56,500

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130	24	81.2	135.3	133,500b	154,800*
	26	80.3	135.0	118,800b	140,800
	28	79.4	134.6	106,900b	126,000
	30	78.5	134.2	97,000	113,800
	32	77.6	133.8	88,700	103,700
	34	76.7	133.3	81,600	95,100
	36	75.7	132.9	75,500	87,700
	38	74.8	132.3	70,200	81,400
	40	73.9	131.8	65,500	75,800
	45	71.6	130.2	56,000	64,500
	50	69.3	128.4	48,600	56,000
	55	66.9	126.4	42,800	49,200
	60	64.5	124.2	38,100	43,800
	65	62.0	121.7	34,200	39,300
	70	59.5	118.9	30,900	35,500
	75	56.9	115.8	28,100	32,300
	80	54.2	112.3	25,600	29,500
	85	51.5	108.5	23,500	27,100
	90	48.6	104.3	21,700	25,000
	95	45.6	99.7	20,000	23,100
	100	42.4	94.5	18,600	21,500
	105	39.0	88.7	17,200	20,000
	110	35.4	82.1	16,000	18,600
	115	31.4	74.5	15,000	17,400
	120	26.8	65.5	14,000	16,300
	125	21.4	54.4	13,100	15,300
140	26	81.0	145.1	118,700b	136,000*
	28	80.1	144.8	106,700	125,800
	30	79.3	144.4	96,900	113,600
	32	78.5	144.0	88,600	103,500
	34	77.6	143.6	81,500	94,900
	36	76.8	143.1	75,400	87,600
	38	75.9	142.7	70,100	81,200
	40	75.1	142.1	65,400	75,700
	45	73.0	140.7	58,800	64,400
	50	70.8	139.1	48,500	55,800
	55	68.6	137.2	42,700	49,100
	60	66.4	135.2	37,900	43,600
	65	64.2	132.9	34,000	39,100
	70	61.9	130.3	30,700	35,300
	75	59.5	127.5	27,900	32,100
	80	57.1	124.4	25,500	29,400
	85	54.6	121.0	23,400	27,000
	90	52.1	117.3	21,500	24,900
	95	49.5	113.2	19,900	23,000
	100	46.7	108.8	18,400	21,300
	105	43.8	103.8	17,100	19,900
	110	40.8	98.3	15,900	18,500
	115	37.5	92.2	14,800	17,300
	120	34.0	85.2	13,800	16,200
	125	30.2	77.3	12,900	15,200
150	130	25.8	67.9	12,100	14,200
	135	20.7	56.2	11,300	13,400
	28	80.8	154.9	106,400	124,900*
	30	80.0	154.6	96,500	113,300
	32	79.2	154.2	88,200	103,200
	34	78.5	153.8	81,100	94,600
	36	77.7	153.4	75,000	87,200
	38	76.9	153.0	69,700	80,900
	40	76.1	152.5	65,000	75,300
	45	74.1	151.1	58,400	64,000
	50	72.1	149.6	48,100	55,400
	55	70.1	147.9	42,300	48,700
160	60	68.1	146.0	37,500	43,200
	65	66.0	143.9	33,600	38,700
	70	63.9	141.6	30,300	35,000
	75	61.7	139.0	27,500	31,700
	80	59.6	136.2	25,100	29,000
	85	57.3	133.1	23,000	26,600
	90	55.0	129.8	21,100	24,500
	95	52.7	126.1	19,500	22,600
	100	50.2	122.1	18,000	20,900
	105	47.7	117.8	16,700	19,500
	110	45.2	113.1	15,500	18,200
	115	42.6	108.1	14,400	17,000
170	120	40.0	102.8	13,400	15,900
	125	37.4	97.1	12,500	14,900
	130	34.8	91.1	11,700	14,000
	135	32.2	84.8	11,000	13,200
	140	29.6	78.3	10,400	12,500
	145	27.0	71.6	9,900	11,900
	150	24.4	64.8	9,400	11,400
	155	21.8	57.9	9,000	10,900
	160	19.2	50.9	8,600	10,400
	165	16.6	43.8	8,200	9,900
	170	14.0	36.6	7,800	9,400
	175	11.4	29.3	7,400	8,900

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
180	32	81.1	184.7	87,300	96,100*
	34	80.4	184.3	80,200	93,700
	36	79.8	184.0	74,100	86,300
	38	79.1	183.6	68,700	80,000
	40	78.5	183.2	64,100	74,400
	45	76.8	182.1	54,500	63,100
	50	75.2	180.9	47,100	54,500
	55	73.5	179.5	41,300	47,700
	60	71.9	177.9	36,600	42,300
	65	70.2	176.2	32,700	37,800
	70	68.5	174.3	29,400	34,000
	75	66.8	172.3	26,500	30,800
	80	65.0	170.0	24,100	28,000
	85	63.3	167.6	22,000	25,600
	90	61.5	165.0	20,100	23,500
	95	59.6	162.2	18,500	21,600
	100	57.8	159.1	17,000	20,000
	105	55.9	155.8	15,700	18,500
	110	53.9	152.3	14,500	17,100
	115	51.9	148.6	13,400	15,900
190	120	49.9	144.5	12,400	14,800
	125	47.8	140.1	11,500	13,800
	130	45.6	135.4	10,700	12,800
	135	43.3	130.3	9,900	12,000
	140	40.9	124.8	9,200	11,200
	145	38.4	118.7	8,500	10,400
	150	35.8	112.1	7,900	9,800
	155	33.0	104.8	7,400	9,100
	160	29.9	96.7	6,800	8,500
	165	26.6	87.3	6,300	8,000
	170	22.7	76.5	5,800	7,400
	175	18.2	63.1	5,400	6,900
	34	80.9	194.5	79,900	88,600*
	36	80.3	194.1	73,700	86,000
	38	79.7	193.8	68,400	79,700
	40	79.1	193.4	63,700	74,100
	45	77.5	192.4	54,100	62,800
	50	76.0	191.2	46,800	54,200
	55	74.4	189.9	40,900	47,400
	60	72.9	188.4	36,200	41,900
	65	71.3	186.8	32,300	37,400
	70	69.7	185.0	29,000	33,600
	75	68.1	183.1	26,200	30,400
	80	66.4	181.0	23,700	27,700
	85	64.8	178.7	21,600	25,200
	90	63.1	176.3	19,800	23,100
	95	61.4	173.6	18,100	21,300
	100	59.7	170.8	16,600	19,600
	105	57.9	167.8	15,300	18,100
	110	56.1	164.5	14,100	16,700
	115	54.3	161.1	13,000	15,500
	120	52.4	157.3	12,000	14,400
	125	50.4	153.3	11,100	13,400
	130	48.5	149.1	10,300	12,500
	135	46.4	144.5	9,500	11,600
	140	44.3	139.5	8,800	10,800
	145	42.1	134.2	8,200	10,100
	150	39.8	128.4	7,500	9,400
	155	37.4	122.2	7,000	8,700
	160	34.8	115.3	6,400	8,100
	165	32.1	107.7	5,900	7,600
	170	29.1	99.3	5,500	7,100
	175	25.8	89.7	5,000	6,600
	180	22.1	78.4	4,600	6,100
	185	17.7	64.6	4,200	5,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
200	34	81.4	204.6	79,700	82,500*
	36	80.8	204.3	73,600	81,700*
	38	80.2	203.9	68,200	79,500
	40	79.6	203.6	63,500	73,900
	45	78.2	202.6	54,000	62,600
	50	76.7	201.5	46,600	54,000
	55	75.2	200.2	40,800	47,200
	60	73.7	198.9	36,000	41,800
	65	72.2	197.3	32,100	37,200
	70	70.7	195.7	28,800	33,500
	75	69.2	193.8	26,000	30,200
	80	67.7	191.9	23,600	27,500
	85	66.1	189.7	21,400	25,100
	90	64.5	187.4	19,600	22,900
	95	62.9	185.0	17,900	21,100
	100	61.3	182.3	16,400	19,400
	105	59.7	179.5	15,100	17,900
	110	58.0	176.5	13,900	16,600
	115	56.3	173.2	12,800	15,300
	120	54.5	169.8	11,800	14,200
210	125	52.8	166.1	10,900	13,200
	130	50.9	162.2	10,100	12,300
	135	49.1	158.0	9,300	11,400
	140	47.2	153.5	8,600	10,600
	145	45.2	148.7	8,000	9,900
	150	43.1	143.5	7,400	9,200
	155	41.0	138.0	6,800	8,600
	160	38.7	132.0	6,200	8,000
	165	36.4	125.5	5,700	7,400
	170	33.9	118.4	5,300	6,900
	175	31.2	110.6	4,800	6,400
	180	28.4	101.8	4,400	5,900
	185	25.2	91.9	4,000	5,500
	190	21.6	80.4	3,700	5,100
	195	17.3	66.2	3,300	4,700
	36	81.2	214.4	73,100*	73,100*
	38	80.7	214.1	67,900	72,700*
	40	80.1	213.7	63,200	72,200*
	45	78.7	212.8	53,600	62,300
	50	77.3	211.8	46,200	53,600
	55	75.9	210.6	40,400	46,900
	60	74.5	209.2	35,600	41,400
	65	73.1	207.8	31,700	36,900
	70	71.7	206.2	28,400	33,100
	75	70.2	204.5	25,600	29,900
	80	68.8	202.6	23,200	27,100
	85	67.3	200.6	21,000	24,700
	90	65.8	198.4	19,200	22,600
	95	64.3	196.1	17,500	20,700
	100	62.8	193.6	16,000	19,000
	105	61.3	191.0	14,700	17,500
	110	59.7	188.1	13,500	16,200
	115	58.1	185.1	12,400	14,900
	120	56.5	181.9	11,400	13,800
	125	54.8	178.5	10,500	12,800
	130	53.1	174.9	9,700	11,900
	135	51.4	171.0	8,900	11,000
	140	49.6	166.9	8,200	10,200
	145	47.8	162.5	7,600	9,500
	150	46.0	157.8	7,000	8,800
	155	44.0	152.8	6,400	8,100
	160	42.0	147.4	5,800	7,500
	165	39.9	141.7	5,300	7,000
	170	37.8	135.5	4,900	6,500
	175	35.5	128.8	4,400	6,000
	180	33.1	121.4	4,000	5,500
	185	30.5	113.3	3,600	5,100
	190	27.7	104.3	3,200	4,700
	195	24.6	94.1		4,300
	200	21.0	82.2		3,900
	205	16.8	67.7		3,500

**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**3900W SERIES 2****BOOM NO. 9A WITH OPEN THROAT TOP
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
220	38	81.1	224.2	62,000*	62,000*
	40	80.6	223.9	61,700*	61,700*
	45	79.3	223.0	53,400	60,800*
	50	77.9	222.0	46,000	53,400
	55	76.6	220.9	40,200	46,600
	60	75.3	219.6	35,400	41,200
	65	73.9	218.2	31,500	36,700
	70	72.5	216.7	28,200	32,900
	75	71.2	215.1	25,400	29,700
	80	69.8	213.3	23,000	26,900
	85	68.4	211.4	20,800	24,500
	90	67.0	209.3	19,000	22,400
	95	65.6	207.2	17,300	20,500
	100	64.1	204.8	15,800	18,800
	105	62.7	202.3	14,500	17,300
	110	61.2	199.6	13,300	16,000
	115	59.7	196.8	12,200	14,700
	120	58.2	193.8	11,200	13,600
	125	56.6	190.6	10,300	12,600
	130	55.1	187.2	9,500	11,700
230	135	53.5	183.6	8,700	10,800
	140	51.8	179.8	8,000	10,000
	145	50.1	175.7	7,400	9,300
	150	48.4	171.4	6,800	8,600
	155	46.7	166.9	6,200	8,000
	160	44.8	162.0	5,600	7,400
	165	43.0	156.8	5,100	6,800
	170	41.0	151.2	4,700	6,300
	175	39.0	145.3	4,200	5,800
	180	36.9	138.9	3,800	5,300
	185	34.6	131.9	3,400	4,900
	190	32.3	124.3	3,000	4,500
	195	29.8	116.0		4,100
	200	27.0	106.8		3,700
	205	24.0	96.3		3,300
	210	20.6	84.1		3,000
	40	81.0	234.0	56,300*	56,300*
	45	79.7	233.2	53,000	55,400*
	50	78.5	232.2	45,700	53,100
	55	77.2	231.1	39,800	46,300
	60	75.9	229.9	35,100	40,800
	65	74.6	228.6	31,100	36,300
	70	73.3	227.2	27,800	32,500
	75	72.0	225.6	25,000	29,300
	80	70.7	223.9	22,600	26,500
	85	69.4	222.1	20,500	24,100
	90	68.0	220.2	18,600	22,000
	95	66.7	218.1	16,900	20,100
	100	65.3	215.9	15,500	18,400
	105	64.0	213.5	14,100	16,900
	110	62.6	211.0	12,900	15,600
	115	61.1	208.3	11,800	14,400
	120	59.7	205.5	10,900	13,300
	125	58.3	202.5	9,900	12,200
	130	56.8	199.3	9,100	11,300
	135	55.3	195.9	8,300	10,400
	140	53.8	192.3	7,600	9,600
	145	52.2	188.6	7,000	8,900
	150	50.6	184.6	6,400	8,200
	155	49.0	180.3	5,800	7,600
	160	47.3	175.9	5,300	7,000
	165	45.6	171.1	4,800	6,400
	170	43.8	166.1	4,300	5,900
	175	42.0	160.7	3,800	5,400
	180	40.1	154.9	3,400	4,900
	185	38.1	148.8	3,000	4,500
	190	36.0	142.1		4,100
	195	33.9	135.0		3,700
	200	31.6	127.2		3,300
	205	29.1	118.7		3,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
240	45	80.2	243.3	49,000*	49,000*
	50	78.9	242.4	45,300	48,200*
	55	77.7	241.4	39,500	46,000
	60	76.5	240.2	34,700	40,500
	65	75.3	239.0	30,800	36,000
	70	74.0	237.6	27,500	32,200
	75	72.8	236.1	24,700	28,900
	80	71.5	234.5	22,200	26,200
	85	70.3	232.8	20,100	23,800
	90	69.0	230.9	18,200	21,600
	95	67.7	228.9	16,600	19,800
	100	66.4	226.8	15,100	18,100
	105	65.1	224.6	13,800	16,600
	110	63.8	222.2	12,600	15,200
	115	62.5	219.6	11,500	14,000
	120	61.1	217.0	10,500	12,900
	125	59.7	214.1	9,600	11,900
	130	58.3	211.1	8,800	10,900
	135	56.9	207.9	8,000	10,100
	140	55.5	204.6	7,300	9,300
250	145	54.0	201.1	6,600	8,500
	150	52.5	197.3	6,000	7,900
	155	51.0	193.4	5,400	7,200
	160	49.5	189.2	4,900	6,600
	165	47.9	184.8	4,400	6,100
	170	46.2	180.2	3,900	5,500
	175	44.6	175.3	3,500	5,000
	180	42.8	170.0	3,100	4,600
	185	41.0	164.5		4,100
	190	39.2	158.5		3,700
	195	37.3	152.2		3,300
	200	35.2	145.4		3,000
	45	80.6	253.5	44,800*	44,800*
	50	79.4	252.6	44,000*	44,000*
	55	78.2	251.6	39,100	43,200*
	60	77.1	250.5	34,300	40,100
	65	75.9	249.3	30,400	35,600
	70	74.7	248.0	27,100	31,800
	75	73.5	246.6	24,300	28,600
	80	72.3	245.0	21,800	25,800
	85	71.1	243.4	19,700	23,400
	90	69.9	241.6	17,900	21,300
	95	68.7	239.7	16,200	19,400
	100	67.4	237.7	14,700	17,700
	105	66.2	235.5	13,400	16,200
	110	64.9	233.3	12,200	14,900
	115	63.6	230.9	11,100	13,600
	120	62.4	228.3	10,100	12,500
	125	61.1	225.6	9,200	11,500
	130	59.7	222.8	8,400	10,600
	135	58.4	219.8	7,600	9,700
	140	57.0	216.6	6,900	8,900
	145	55.7	213.3	6,200	8,100
	150	54.3	209.8	5,600	7,500
	155	52.8	206.1	5,000	6,800
	160	51.4	202.2	4,500	6,200
	165	49.9	198.1	4,000	5,700
	170	48.4	193.8	3,500	5,100
	175	46.8	189.2	3,100	4,600
	180	45.3	184.4		4,200
	185	43.6	179.3		3,700
	190	41.9	173.9		3,300