

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SPECIAL

**BOOM NO. 44 WITH HEAVY LIFT TOP
100,800 LB. COUNTERWEIGHT
360 DEGREE RATING**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 30,000 LBS. OR 60,000 LBS. WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

250' BOOM LENGTH REQUIRES ONLY THE MIDDLE 3 SHEAVES TO BE USED ON 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 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. 172610, WIRE ROPE SPECIFICATION CHART NO. 7581-A AND COUNTERWEIGHT ARRANGEMENT CHART NO. 7692-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.

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON 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 WHEN WIND EXCEEDS THOSE SHOWN IN TABLE. LOWER BOOM TO GROUND WHEN WIND IS ABOVE 50 MPH.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO 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 30'9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS, AND 100,800 LB. COUNTERWEIGHT.

WIND LIMITS DURING OPERATION	
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET
30	70 - 200
25	210 - 240
20	250

MAXIMUM BOOM LENGTHS LIFTED UNASSISTED		
OVER FRONT OF BLOCKED CRAWLERS BOOM LENGTH	OVER REAR OF BLOCKED CRAWLERS BOOM LENGTH	OVER SIDE OF CRAWLERS BOOM LENGTH
250'	230'	210'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.		

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	18	82.9	77.1	551,200*
	19	82.1	76.9	538,200*
	20	81.3	76.8	513,200*
	21	80.4	76.5	474,500
	22	79.6	76.3	428,500
	23	78.8	76.1	390,500
	24	77.9	75.8	358,500
	25	77.1	75.6	331,100
	26	76.2	75.3	307,500
	27	75.4	75.0	286,900
	28	74.5	74.7	268,800
	29	73.7	74.4	252,800
	30	72.8	74.0	238,400
	32	71.0	73.3	213,900
	34	69.3	72.4	193,700
	36	67.5	71.6	176,800
	38	65.7	70.6	162,400
	40	63.8	69.5	150,100
	42	61.9	68.4	139,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	44	60.0	67.2	129,900
	46	58.1	65.9	121,500
	48	56.1	64.5	114,100
	50	54.0	62.9	107,400
	55	48.6	58.6	93,400
	60	42.6	53.2	82,200
80	65	35.8	46.6	73,200
	70	27.4	37.6	65,600
	20	82.4	86.9	512,200*
	21	81.7	86.7	474,700
	22	80.9	86.5	428,700
	23	80.2	86.3	390,600
	24	79.5	86.1	358,500
	25	78.7	85.9	331,100
	26	78.0	85.6	307,500
	27	77.3	85.4	286,900
	28	76.5	85.1	268,700
	29	75.8	84.8	252,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
80	30	75.0	84.5	238,300
	32	73.5	83.9	213,700
	34	72.0	83.2	193,500
	36	70.5	82.4	176,600
	38	68.9	81.6	162,200
	40	67.3	80.7	149,800
	42	65.8	79.8	139,000
	44	64.2	78.7	129,600
	46	62.5	77.6	121,200
	48	60.9	76.5	113,700
	50	59.2	75.2	107,100
	55	54.8	71.7	93,000
	60	50.2	67.6	81,900
	65	45.1	62.7	72,800
	70	39.6	56.8	65,300
	75	33.3	49.4	58,900
	80	25.4	39.7	53,400

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
90	21	82.6	96.9	474,900
	22	81.9	96.7	428,900
	23	81.3	96.5	390,700
	24	80.6	96.3	358,600
	25	80.0	96.1	331,200
	26	79.3	95.9	307,500
	27	78.7	95.7	286,900
	28	78.0	95.4	268,700
	29	77.4	95.2	252,600
	30	76.7	94.9	238,300
	32	75.4	94.4	213,700
	34	74.1	93.7	193,400
	36	72.7	93.1	176,500
	38	71.4	92.4	162,100
	40	70.0	91.6	149,700
	42	68.6	90.8	138,900
100	44	67.2	89.9	129,400
	46	65.8	88.9	121,100
	48	64.4	87.9	113,600
	50	63.0	86.8	106,900
	55	59.3	83.9	92,900
	60	55.4	80.4	81,700
	65	51.3	76.5	72,700
	70	47.0	71.8	65,100
	75	42.3	66.5	58,800
	80	37.1	60.0	53,300
	85	31.2	52.1	48,600
	22	82.8	106.8	428,900
	23	82.2	106.7	390,700
	24	81.6	106.5	358,500
	25	81.0	106.3	331,100
	26	80.4	106.1	307,400
	27	79.8	105.9	286,700
	28	79.3	105.7	268,500
	29	78.7	105.5	252,400
	30	78.1	105.2	238,000
	32	76.9	104.7	213,400
	34	75.7	104.2	193,100
	36	74.5	103.6	176,100
	38	73.3	103.0	161,700
	40	72.1	102.3	149,300
	42	70.9	101.5	138,500
	44	69.7	100.8	129,000
	46	68.4	99.9	120,600
	48	67.2	99.0	113,100
	50	65.9	98.1	106,400
	55	62.7	95.5	92,400
	60	59.3	92.5	81,200
	65	55.9	89.2	72,100
	70	52.3	85.3	64,600
	75	48.5	80.9	58,200
	80	44.4	75.9	52,800
	85	40.0	70.0	48,100
	90	35.1	63.1	44,000
	95	29.5	54.7	40,300
110	23	82.9	116.8	374,400*
	24	82.4	116.6	358,500
	25	81.8	116.5	331,000
	26	81.3	116.3	307,300
	27	80.8	116.1	286,600
	28	80.3	115.9	268,400
	29	79.7	115.7	252,200
	30	79.2	115.5	237,800
	32	78.1	115.0	213,200
	34	77.0	114.6	192,900
	36	76.0	114.0	175,900
	38	74.9	113.4	161,400
	40	73.8	112.8	149,000
	42	72.7	112.2	138,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
110	44	71.6	111.5	128,700
	46	70.5	110.7	120,300
	48	69.4	109.9	112,800
	50	68.2	109.1	106,100
	55	65.4	106.8	92,100
	60	62.4	104.2	80,900
	65	59.4	101.2	71,800
	70	56.3	97.9	64,200
	75	53.0	94.1	57,900
	80	49.6	89.9	52,400
	85	46.0	85.1	47,700
	90	42.2	79.7	43,600
	95	38.0	73.4	40,000
	100	33.3	66.0	36,800
	105	28.0	57.1	33,900
	24	83.0	126.8	358,300
120	25	82.5	126.6	330,800
	26	82.0	126.4	307,000
	27	81.6	126.3	286,300
	28	81.1	126.1	268,100
	29	80.6	125.9	251,900
	30	80.1	125.7	237,500
	32	79.1	125.3	212,800
	34	78.1	124.8	192,500
	36	77.2	124.4	175,400
	38	76.2	123.8	161,000
	40	75.2	123.3	148,500
	42	74.2	122.7	137,700
	44	73.2	122.0	128,200
	46	72.2	121.4	119,800
	48	71.2	120.6	112,300
	50	70.1	119.9	105,600
	55	67.6	117.8	91,500
	60	64.9	115.5	80,300
	65	62.2	112.8	71,200
	70	59.5	109.9	63,700
	75	56.6	106.6	57,300
	80	53.6	102.9	51,800
	85	50.6	98.8	47,100
	90	47.3	94.2	43,000
	95	43.9	89.1	39,400
	100	40.2	83.3	36,200
	105	36.2	76.6	33,300
	110	31.8	68.8	30,700
	115	26.7	59.3	28,300
130	26	82.7	136.6	307,100
	27	82.2	136.4	286,400
	28	81.8	136.2	268,100
	29	81.3	136.1	252,000
	30	80.9	135.9	237,500
	32	80.0	135.5	212,800
	34	79.1	135.1	192,500
	36	78.2	134.6	175,400
	38	77.3	134.2	161,000
	40	76.4	133.6	148,500
	42	75.4	133.1	137,700
	44	74.5	132.5	128,200
	46	73.6	131.9	119,800
	48	72.7	131.2	112,300
	50	71.7	130.5	105,600
	55	69.4	128.7	91,500
	60	67.0	126.5	80,300
	65	64.5	124.1	71,100
	70	62.1	121.5	63,600
	75	59.5	118.5	57,200
	80	56.9	115.3	51,800
	85	54.2	111.7	47,100
	90	51.3	107.7	42,900
	95	48.4	103.3	39,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	100	45.3	98.4	36,100
	105	42.0	92.9	33,200
	110	38.5	86.7	30,600
	115	34.7	79.7	28,300
	120	30.5	71.5	26,200
	125	25.6	61.5	24,200
	27	82.8	146.5	286,100
	28	82.4	146.4	267,800
140	29	81.9	146.2	251,600
	30	81.5	146.0	237,100
	32	80.7	145.7	212,400
	34	79.9	145.3	192,100
	36	79.0	144.9	175,000
	38	78.2	144.4	160,500
	40	77.4	144.0	148,000
	42	76.5	143.5	137,200
	44	75.7	142.9	127,600
	46	74.8	142.3	119,200
	48	74.0	141.7	111,700
	50	73.1	141.1	105,000
	55	70.9	139.4	90,900
	60	68.7	137.4	79,700
	65	66.5	135.2	70,500
	70	64.2	132.8	63,000
	75	61.9	130.1	56,600
	80	59.5	127.2	51,100
	85	57.1	124.0	46,400
	90	54.6	120.4	42,300
	95	52.0	116.5	38,700
	100	49.3	112.2	35,400
	105	46.5	107.5	32,600
	110	43.5	102.3	30,000
	115	40.4	96.5	27,600
	120	37.0	90.0	25,500
	125	33.4	82.6	23,600
	130	29.3	74.0	21,800
150	28	82.9	156.5	267,500
	29	82.5	156.3	251,300
	30	82.1	156.2	236,800
	32	81.3	155.8	212,100
	34	80.6	155.5	191,700
	36	79.8	155.1	174,600
	38	79.0	154.7	160,100
	40	78.2	154.2	147,600
	42	77.4	153.8	136,800
	44	76.6	153.3	127,200
	46	75.8	152.7	118,800
	48	75.1	152.2	111,300
	50	74.3	151.6	104,600
	55	72.3	150.0	90,400
	60	70.2	148.2	79,200
	65	68.2	146.2	70,100
	70	66.1	143.9	62,500
	75	63.9	141.5	56,100
	80	61.8	138.8	50,600
	85	59.6	135.9	45,900
	90	57.3	132.6	41,800
	95	55.0	129.1	38,200
	100	52.6	125.3	34,900
	105	50.1	121.2	32,100
	110	47.5	116.6	29,500
	115	44.8	111.6	27,100
	120	42.0	106.1	25,000
	125	38.9	100.0	23,100
	130	35.7	93.2	21,300
	135	32.2	85.4	19,600
	140	28.3	76.5	18,100

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
160	29	83.0	166.4	251,000
	30	82.6	166.3	236,500
	32	81.9	166.0	211,700
	34	81.1	165.7	191,200
	36	80.4	165.3	174,100
	38	79.7	164.9	159,600
	40	79.0	164.5	147,100
	42	78.2	164.0	136,200
	44	77.5	163.6	126,700
	46	76.8	163.1	118,200
	48	76.0	162.6	110,700
	50	75.3	162.0	104,000
	55	73.4	160.5	89,800
	60	71.5	158.8	78,600
	65	69.6	157.0	69,400
	70	67.7	154.9	61,800
	75	65.7	152.6	55,400
	80	63.7	150.2	50,000
	85	61.7	147.5	45,200
	90	59.6	144.5	41,100
170	95	57.5	141.3	37,500
	100	55.3	137.9	34,200
	105	53.1	134.1	31,400
	110	50.7	130.1	28,800
	115	48.4	125.6	26,400
	120	45.9	120.8	24,300
	125	43.3	115.6	22,400
	130	40.5	109.8	20,600
	135	37.6	103.4	18,900
	140	34.5	96.2	17,400
	145	31.1	88.2	16,000
	150	27.3	78.8	14,700
	30	83.0	176.4	236,400
	32	82.4	176.1	211,600
	34	81.7	175.8	191,100
	36	81.0	175.5	174,000
	38	80.3	175.1	159,500
	40	79.6	174.7	147,000
	42	78.9	174.3	136,100
	44	78.2	173.8	126,600
	46	77.5	173.4	118,100
	48	76.9	172.9	110,600
180	50	76.2	172.4	103,900
	55	74.4	171.0	89,700
	60	72.6	169.4	78,500
	65	70.9	167.6	69,300
	70	69.1	165.7	61,700
	75	67.2	163.6	55,300
	80	65.4	161.3	49,800
	85	63.5	158.8	45,100
	90	61.6	156.1	41,000
	95	59.6	153.2	37,400
	100	57.6	150.0	34,100
	105	55.6	146.6	31,300
	110	53.5	142.9	28,700
	115	51.3	138.9	26,300
	120	49.1	134.6	24,200
	125	46.8	129.9	22,300
	130	44.4	124.9	20,500
	135	41.9	119.3	18,800
	140	39.2	113.3	17,300
	145	36.4	106.6	15,900
190	150	33.4	99.2	14,600
	155	30.1	90.8	13,400
	160	26.5	81.1	12,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
180	32	82.8	186.2	211,200
	34	82.1	185.9	190,700
	36	81.5	185.6	173,600
	38	80.9	185.3	159,000
	40	80.2	184.9	146,500
	42	79.6	184.5	135,600
	44	78.9	184.1	126,000
	46	78.3	183.6	117,600
	48	77.6	183.2	110,000
	50	76.9	182.7	103,300
	55	75.3	181.4	89,100
	60	73.6	179.9	77,900
	65	72.0	178.3	68,700
	70	70.3	176.5	61,100
	75	68.6	174.5	54,700
	80	66.8	172.3	49,200
	85	65.1	170.0	44,500
	90	63.3	167.5	40,300
	95	61.5	164.8	36,700
	100	59.6	161.8	33,500
190	105	57.8	158.7	30,600
	110	55.8	155.3	28,000
	115	53.9	151.7	25,600
	120	51.8	147.7	23,500
	125	49.8	143.5	21,600
	130	47.6	139.0	19,800
	135	45.4	134.1	18,200
	140	43.1	128.8	16,600
	145	40.6	123.0	15,200
	150	38.1	116.7	13,900
	155	35.4	109.8	12,700
	160	32.4	102.1	11,600
	165	29.2	93.4	10,500
	170	25.7	83.3	9,500
	34	82.6	196.0	190,300
	36	81.9	195.7	173,200
	38	81.3	195.4	158,600
	40	80.7	195.1	146,000
	42	80.1	194.7	135,100
	44	79.5	194.3	125,600
	46	78.9	193.9	117,100
	48	78.3	193.4	109,600
	50	77.6	193.0	102,800
	55	76.1	191.7	88,600
200	60	74.5	190.3	77,300
	65	72.9	188.8	68,200
	70	71.4	187.1	60,600
	75	69.7	185.3	54,100
	80	68.1	183.2	48,700
	85	66.5	181.1	43,900
	90	64.8	178.7	39,800
	95	63.1	176.2	36,100
	100	61.4	173.4	32,900
	105	59.7	170.5	30,000
	110	57.9	167.4	27,400
	115	56.1	164.0	25,100
	120	54.2	160.4	22,900
	125	52.3	156.6	21,000
	130	50.3	152.4	19,200
	135	48.3	148.0	17,600
	140	46.2	143.2	16,100
	145	44.1	138.1	14,700
	150	41.8	132.6	13,400
	155	39.5	126.6	12,200
210	160	37.0	120.0	11,000
	165	34.4	112.8	10,000
	170	31.5	104.8	9,000
	175	28.4	95.8	8,100
	34	82.7	215.9	172,500
	38	82.2	215.6	157,900
	40	81.6	215.3	145,300
	42	81.1	215.0	134,400
	44	80.5	214.6	124,800
	46	80.0	214.3	116,300
	48	79.4	213.9	108,800
	50	78.8	213.5	102,000
	55	77.4	212.3	87,800
	60	76.0	211.1	76,500
	65	74.6	209.7	67,300
	70	73.2	208.2	59,700
	75	71.8	206.5	53,200
	80	70.3	204.7	47,800
	85	68.8	202.8	43,000
	90	67.4	200.7	38,900
	95	65.9	198.5	35,200
220	100	64.4	196.1	32,000
	105	62.8	193.5	29,100
	110	61.3	190.8	26,500
	115	59.7	187.8	24,100
	120	58.1	184.7	22,000
	125	56.4	181.4	20,100
	130	54.8	177.9	18,300
	135	53.1	174.1	16,600
	140	51.3	170.1	15,100
	145	49.5	165.9	13,700
	150	47.7	161.4	12,400
	155	45.8	156.5	11,200
	160	43.8	151.3	10,100
	165	41.8	145.8	9,000
	170	39.7	139.8	8,000
	175	37.4	133.4	7,100
	180	35.1	126.4	6,200
	185	32.6	118.7	5,400
	190	29.9	110.2	4,600

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SPECIAL

BOOM NO. 44 WITH HEAVY LIFT TOP
100,800 LB. COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
220	38	82.5	225.8	157,400
	40	82.0	225.5	144,800
	42	81.5	225.1	133,900
	44	80.9	224.8	124,300
	46	80.4	224.4	115,800
	48	79.9	224.1	108,200
	50	79.4	223.7	101,400
	55	78.0	222.6	87,200
	60	76.7	221.4	75,900
	65	75.3	220.1	66,700
	70	74.0	218.7	59,000
	75	72.6	217.1	52,600
	80	71.2	215.4	47,100
	85	69.9	213.5	42,400
	90	68.5	211.6	38,200
	95	67.0	209.4	34,600
	100	65.6	207.2	31,300
	105	64.2	204.7	28,400
	110	62.7	202.2	25,800
	115	61.2	199.4	23,500
230	120	59.7	196.5	21,300
	125	58.2	193.4	19,400
	130	56.6	190.1	17,600
	135	55.0	186.6	16,000
	140	53.4	182.9	14,400
	145	51.7	179.0	13,000
	150	50.1	174.8	11,700
	155	48.3	170.4	10,500
	160	46.5	165.6	9,400
	165	44.7	160.6	8,300
	170	42.8	155.2	7,400
	175	40.8	149.5	6,400
	180	38.7	143.3	5,500
	185	36.5	136.6	4,700
	38	82.9	235.9	156,900
	40	82.4	235.6	144,300
	42	81.8	235.3	133,400
	44	81.3	234.9	123,800
	46	80.8	234.6	115,300
	48	80.3	234.2	107,700
	50	79.8	233.9	100,900
	55	78.6	232.9	86,700
	60	77.3	231.7	75,400
	65	76.0	230.5	66,100
	70	74.7	229.1	58,500
	75	73.4	227.6	52,100
	80	72.1	226.0	46,600
	85	70.8	224.2	41,800
	90	69.4	222.3	37,600
	95	68.1	220.3	34,000
	100	66.7	218.2	30,700
	105	65.4	215.9	27,800
	110	64.0	213.4	25,200
	115	62.6	210.8	22,900
	120	61.2	208.1	20,700
	125	59.7	205.1	18,800
	130	58.3	202.1	17,000
	135	56.8	198.8	15,400
	140	55.2	195.3	13,900
	145	53.7	191.7	12,500
	150	52.1	187.8	11,100
	155	50.5	183.7	9,900
	160	48.9	179.3	8,800
	165	47.2	174.7	7,800
	170	45.4	169.8	6,800
	175	43.6	164.6	5,800
	180	41.8	159.0	5,000
	185	39.8	153.1	4,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
240	40	82.7	245.7	143,800
	42	82.2	245.4	132,900
	44	81.7	245.1	123,200
	46	81.2	244.7	114,700
	48	80.7	244.4	107,200
	50	80.3	244.0	100,400
	55	79.0	243.1	86,100
	60	77.8	242.0	74,700
	65	76.6	240.8	65,500
	70	75.4	239.5	57,900
	75	74.1	238.0	51,400
	80	72.9	236.5	45,900
	85	71.6	234.8	41,100
	90	70.3	233.0	37,000
	95	69.1	231.1	33,300
	100	67.8	229.1	30,100
	105	66.5	226.9	27,200
	110	65.2	224.6	24,600
	115	63.8	222.1	22,200
	120	62.5	219.5	20,100
250	125	61.1	216.7	18,100
	130	59.7	213.8	16,300
	135	58.3	210.7	14,700
	140	56.9	207.5	13,200
	145	55.5	204.0	11,700
	150	54.0	200.4	10,400
	155	52.5	196.6	9,200
	160	50.9	192.5	8,100
	165	49.4	188.2	7,000
	170	47.8	183.7	6,000
	175	46.1	178.9	5,100
	180	44.4	173.9	4,200
	40	83.0	255.8	144,600
	42	82.5	255.5	133,600
	44	82.0	255.2	124,000
	46	81.6	254.9	115,500
	48	81.1	254.6	107,900
	50	80.6	254.2	101,100
	55	79.5	253.3	86,900
	60	78.3	252.2	75,600
	65	77.1	251.1	66,300
	70	76.0	249.8	58,700
	75	74.8	248.5	52,200
	80	73.6	247.0	46,700
	85	72.4	245.4	42,000
	90	71.2	243.7	37,800
	95	69.9	241.8	34,200
	100	68.7	239.9	30,900
	105	67.5	237.8	28,000
	110	66.2	235.6	25,400
	115	64.9	233.3	23,000
	120	63.7	230.8	20,900
	125	62.4	228.2	19,000
	130	61.1	225.4	17,200
	135	59.7	222.5	15,500
	140	58.4	219.4	14,000
	145	57.0	216.2	12,600
	150	55.6	212.7	11,300
	155	54.2	209.1	10,100
	160	52.8	205.4	9,000
	165	51.3	201.4	7,900
	170	49.8	197.2	6,900
	175	48.3	192.7	6,000
	180	46.7	188.0	5,100
	185	45.1	183.1	4,300