

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES M-250 SERIES 2 SPECIAL

BOOM NO. 44 WITH LONG REACH TOP WITHOUT UPPER POINT

207,000 LB. CRANE COUNTERWEIGHT

150,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

CAPACITIES FOR VARIOUS 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 IS REMOVED IN CAPACITY DETERMINATION. DEDUCT 950 LBS. FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED. 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.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, 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. 172842 AND WIRE ROPE SPECIFICATION CHART NO. 7581-B. 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 IN WINDS 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 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, 207,000 LB. CRANE COUNTERWEIGHT, TWO 30,000 LB. AND FOUR 22,500 LB. CARBODY COUNTERWEIGHTS.

WIND LIMITS DURING OPERATION	
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET
30	190 - 210
25	220 - 250
20	260 - 330

MAXIMUM BOOM LENGTH LIFTED UNASSISTED OVER FRONT, SIDE OR REAR OF CRAWLERS IS 330'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.
DEDUCT 950 LBS. FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	32	82.7	196.3	210,000*
	34	82.1	196.0	210,000*
	36	81.5	195.7	210,000*
	38	80.8	195.4	210,000*
	40	80.2	195.0	210,000*
	42	79.6	194.7	210,000*
	44	79.0	194.3	210,000*
	46	78.4	193.9	210,000*
	48	77.8	193.4	210,000*
	50	77.2	193.0	201,500*
	55	75.6	191.7	178,200
	60	74.0	190.3	158,400
	65	72.5	188.8	142,200
	70	70.9	187.1	128,700
	75	69.3	185.2	117,400
	80	67.6	183.2	107,700
200	85	66.0	181.0	99,400
	90	64.3	178.7	92,100
	95	62.6	176.1	85,700
	100	60.9	173.4	80,000
	105	59.2	170.5	74,900
	110	57.4	167.3	70,300
	115	55.6	164.0	66,200
	120	53.7	160.4	62,400
210	125	51.8	156.5	59,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	130	49.8	152.4	55,900
	135	47.8	148.0	53,000
	140	45.8	143.2	50,300
	145	43.6	138.1	47,900
	150	41.3	132.5	45,600
	155	39.0	126.5	43,500
200	160	36.5	120.0	41,500
	165	33.9	112.8	39,600
	170	31.0	104.8	37,900
	175	27.9	95.8	35,900*
	32	83.0	206.4	210,000*
	34	82.5	206.1	210,000*
	36	81.9	205.8	210,000*
	38	81.3	205.5	210,000*
	40	80.7	205.2	210,000*
	42	80.1	204.8	210,000*
210	44	79.6	204.5	210,000*
	46	79.0	204.1	210,000*
	48	78.4	203.7	210,000*
	50	77.8	203.2	201,000*
	55	76.3	202.0	177,600
	60	74.9	200.7	157,700
	65	73.4	199.3	141,500
	70	71.9	197.7	128,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	75	70.3	195.9	116,800
	80	68.8	194.0	107,100
	85	67.3	192.0	98,700
	90	65.7	189.7	91,400
	95	64.1	187.4	85,000
	100	62.5	184.8	79,300
	105	60.9	182.1	74,200
	110	59.2	179.1	69,600
	115	57.5	176.0	65,500
	120	55.8	172.7	61,700
	125	54.0	169.1	58,300
	130	52.2	165.3	55,200
	135	50.4	161.3	52,300
	140	48.5	156.9	49,600
	145	46.5	152.3	47,200
	150	44.5	147.3	44,900
210	155	42.4	142.0	42,700
	160	40.2	136.2	40,800
	165	38.0	130.0	38,900
	170	35.5	123.2	37,200
	175	33.0	115.8	35,500
220	180	30.2	107.5	33,700*
	185	27.2	98.2	31,600*

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207,000 LB. CRANE COUNTERWEIGHT
150,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING**

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
210	34	82.8	216.2	210,000*
	36	82.3	215.9	210,000*
	38	81.7	215.6	210,000*
	40	81.2	215.3	210,000*
	42	80.6	215.0	210,000*
	44	80.1	214.6	210,000*
	46	79.5	214.3	210,000*
	48	79.0	213.9	210,000*
	50	78.4	213.5	200,500*
	55	77.0	212.3	177,400
	60	75.6	211.1	157,500
	65	74.2	209.7	141,300
	70	72.8	208.2	127,900
	75	71.3	206.5	116,500
	80	69.9	204.7	106,800
	85	68.4	202.8	98,500
	90	66.9	200.7	91,200
	95	65.4	198.4	84,800
	100	63.9	196.0	79,100
	105	62.4	193.5	74,000
220	110	60.8	190.7	69,400
	115	59.2	187.8	65,200
	120	57.6	184.7	61,500
	125	56.0	181.4	58,100
	130	54.3	177.9	54,900
	135	52.6	174.1	52,000
	140	50.9	170.1	49,400
	145	49.1	165.9	46,900
	150	47.2	161.3	44,600
	155	45.4	156.5	42,500
	160	43.4	151.3	40,500
	165	41.3	145.8	38,700
	170	39.2	139.8	36,900
	175	37.0	133.3	35,300
	180	34.6	126.3	33,800
	185	32.1	118.6	32,200*
	190	29.4	110.1	30,300*
	195	26.5	100.6	28,300*
	200	23.5	90.1	26,300*
230	205	20.4	79.6	24,300*
	210	17.3	68.1	22,300*
	215	14.1	55.6	20,300*
	220	10.9	43.1	18,300*
	225	7.7	30.6	16,300*
	230	4.5	18.1	14,300*
	235	1.3	5.6	12,300*
	240			10,300*
	245			8,300*
	250			6,300*
	255			4,300*
	260			2,300*
	265			300*
	270			
	275			
	280			
	285			
	290			
	295			
	300			

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
240	165	44.2	160.6	38,000
	170	42.3	155.2	36,200
	175	40.3	149.5	34,600
	180	38.3	143.3	33,100
	185	36.1	136.6	31,600
	190	33.8	129.4	30,100*
	195	31.4	121.4	28,200*
	200	28.8	112.7	26,500*
	205	25.9	102.9	24,600*
	210	22.9	92.1	22,600*
250	215	19.8	80.6	20,600*
	220	16.7	68.1	18,600*
	225	13.6	55.6	16,600*
	230	10.5	43.1	14,600*
	235	7.4	30.6	12,600*
	240	4.3	18.1	10,600*
	245	1.2	5.6	8,600*
	250			6,600*
	255			4,600*
	260			2,600*
	265			600*
	270			
	275			
	280			
	285			
	290			
	295			
	300			
	305			
	310			
260	315			
	320			
	325			
	330			
	335			
	340			
	345			
	350			
	355			
	360			

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
270	105	66.1	226.9	72,000
	110	64.8	224.5	67,400
	115	63.4	222.1	63,300
	120	62.1	219.5	59,500
	125	60.7	216.7	56,100
	130	59.3	213.8	53,000
	135	57.9	210.7	50,100
	140	56.5	207.5	47,400
	145	55.1	204.0	44,900
	150	53.6	200.4	42,700
280	155	52.1	196.5	40,500
	160	50.5	192.5	38,500
	165	49.0	188.2	36,700
	170	47.4	183.7	34,900
	175	45.7	178.9	33,300
	180	44.0	173.8	31,800
	185	42.3	168.4	30,300
	190	40.4	162.7	29,000
	195	38.6	156.6	27,700*
	200	36.6	150.0	26,000*
290	205	34.5	142.9	24,400*
	210	32.3	135.2	22,800*
	215	30.0	126.9	21,300*
	220	27.5	117.6	19,800*
	225	25.0	108.3	18,300*
	230	22.5	98.0	16,800*
	235	20.0	87.7	15,300*
	240	17.5	77.4	13,800*
	245	15.0	67.1	12,300*
	250	12.5	56.8	10,800*
300	255	10.0	46.5	9,300*
	260	7.5	36.2	7,800*
	265	5.0	25.9	6,300*
	270	2.5	15.6	4,800*
	275		5.3	3,300*
	280			1,800*
	285			300*
	290			
	295			
	300			

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MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
260	40	82.9	265.8	172,600*
	42	82.4	265.6	171,100*
	44	82.0	265.3	169,800*
	46	81.5	265.0	167,100*
	48	81.1	264.7	164,300*
	50	80.7	264.3	161,600*
	55	79.5	263.4	154,900*
	60	78.4	262.4	148,500*
	65	77.3	261.3	138,600
	70	76.1	260.1	125,100
	75	75.0	258.8	113,700
	80	73.9	257.4	104,000
	85	72.7	255.9	95,600
	90	71.6	254.2	88,300
	95	70.4	252.5	81,900
	100	69.2	250.6	76,100
	105	68.0	248.6	71,000
	110	66.8	246.5	66,500
	115	65.6	244.3	62,300
	120	64.4	241.9	58,500
	125	63.2	239.4	55,100
	130	61.9	236.8	52,000
	135	60.7	234.0	49,100
	140	59.4	231.1	46,400
	145	58.1	228.0	43,900
270	150	56.8	224.8	41,600
	155	55.5	221.4	39,500
	160	54.1	217.9	37,500
	165	52.7	214.1	35,700
	170	51.3	210.2	33,900
	175	49.9	206.0	32,300
	180	48.4	201.7	30,800
	185	46.9	197.1	29,300
	190	45.4	192.2	27,900
	195	43.8	187.1	26,700
	200	42.2	181.7	25,400
	205	40.5	175.9	24,100*
	210	38.8	169.8	22,500*
	215	37.0	163.3	21,100*
	220	35.1	156.4	19,600*
	225	33.1	148.9	18,300*
	230	31.0	140.9	17,000*
	235	28.8	132.1	15,700*
	240	26.4	122.4	14,500*
	42	82.7	275.7	154,500*
	44	82.3	275.4	153,700*
	46	81.9	275.1	152,900*
	48	81.4	274.8	151,700*
	50	81.0	274.5	150,600*
	55	79.9	273.6	144,900*
	60	78.8	272.7	139,000*
	65	77.8	271.6	133,200*
	70	76.7	270.4	124,500
	75	75.6	269.2	113,100
	80	74.5	267.8	103,400
	85	73.4	266.3	95,000
	90	72.3	264.8	87,700
	95	71.1	263.1	81,300
	100	70.0	261.3	75,600
	105	68.9	259.4	70,400
	110	67.7	257.4	65,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
270	115	66.6	255.2	61,700
	120	65.4	253.0	57,900
	125	64.2	250.6	54,500
	130	63.1	248.1	51,400
	135	61.9	245.5	48,500
	140	60.6	242.7	45,800
	145	59.4	239.8	43,300
	150	58.2	236.7	41,000
	155	56.9	233.5	38,900
	160	55.6	230.1	36,900
	165	54.3	226.6	35,100
	170	53.0	222.9	33,300
	175	51.7	219.0	31,700
	180	50.3	214.9	30,200
	185	48.9	210.6	28,700
	190	47.5	206.1	27,300
	195	46.0	201.3	26,000
	200	44.5	196.3	24,800
	205	43.0	191.0	23,700*
	210	41.4	185.5	22,200*
	215	39.7	179.6	20,700*
	220	38.0	173.3	19,300*
	225	36.3	166.6	17,900*
	230	34.4	159.5	16,600*
	235	32.5	151.8	15,400*
	240	30.4	143.6	14,200*
	245	28.2	134.6	13,000*
	250	25.9	124.7	11,900*
280	42	83.0	285.7	143,000*
	44	82.6	285.5	142,300*
	46	82.2	285.2	141,600*
	48	81.7	284.9	140,900*
	50	81.3	284.6	140,200*
	55	80.3	283.8	137,300*
	60	79.2	282.8	131,700*
	65	78.2	281.8	126,200*
	70	77.2	280.7	120,700*
	75	76.1	279.5	112,500
	80	75.0	278.2	102,800
	85	74.0	276.8	94,400
	90	72.9	275.3	87,100
	95	71.8	273.7	80,600
	100	70.8	271.9	74,900
	105	69.7	270.1	69,800
	110	68.6	268.2	65,200
	115	67.5	266.1	61,000
	120	66.4	264.0	57,300
	125	65.2	261.7	53,800
	130	64.1	259.3	50,700
	135	62.9	256.8	47,800
	140	61.8	254.1	45,100
	145	60.6	251.4	42,600
	150	59.4	248.4	40,300
	155	58.2	245.4	38,200
	160	57.0	242.2	36,200
	165	55.8	238.8	34,400
	170	54.5	235.3	32,600
	175	53.3	231.6	31,000
	180	52.0	227.7	29,400
	185	50.7	223.7	28,000
	190	49.3	219.5	26,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
280	195	47.9	215.1	25,300
	200	46.5	210.4	24,100
	205	45.1	205.5	22,900
	210	43.6	200.3	21,600*
	215	42.1	194.9	20,200*
	220	40.6	189.2	18,700*
	225	39.0	183.1	17,400*
	230	37.3	176.7	16,100*
	235	35.6	169.8	14,900*
	240	33.8	162.5	13,700*
	245	31.9	154.7	12,500*
	250	29.8	146.2	11,400*
290	255	27.7	137.0	9,800*
	260	25.4	126.9	8,200*
	44	82.8	295.6	132,600*
	46	82.4	295.3	131,900*
	48	82.0	295.0	131,300*
	50	81.6	294.7	130,600*
	55	80.6	293.9	128,900*
	60	79.6	293.0	125,000*
	65	78.6	292.0	119,700*
	70	77.6	291.0	114,500*
	75	76.6	289.8	109,400*
	80	75.6	288.5	102,400
	85	74.6	287.2	94,000
	90	73.5	285.7	86,700
	95	72.5	284.2	80,200
	100	71.4	282.5	74,500
	105	70.4	280.8	69,400
	110	69.3	278.9	64,800
	115	68.3	276.9	60,600
	120	67.2	274.9	56,900
	125	66.1	272.7	53,400
	130	65.1	270.4	50,300
	135	64.0	268.0	47,400
	140	62.8	265.5	44,700
	145	61.7	262.8	42,300
	150	60.6	260.0	40,000
	155	59.5	257.1	37,800
	160	58.3	254.1	35,800
	165	57.1	250.9	34,000
	170	55.9	247.5	32,200
	175	54.7	244.0	30,600
	180	53.5	240.4	29,100
	185	52.3	236.6	27,600
	190	51.0	232.6	26,300
	195	49.7	228.4	25,000
	200	48.4	224.0	23,700
	205	47.1	219.4	22,600
	210	45.7	214.6	21,500*
	215	44.3	209.6	20,000*
	220	42.8	204.3	18,600*
	225	41.4	198.7	17,300*
	230	39.8	192.8	16,000*
	235	38.3	186.6	14,800*
	240	36.6	180.0	13,600*
	245	34.9	173.0	12,200*
	250	33.2	165.5	10,700*
	255	31.3	157.5	9,200*
	260	29.3	148.9	7,800*
	265	27.2	139.5	6,300*

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207,000 LB. CRANE COUNTERWEIGHT
150,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING**

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
300	46	82.7	305.4	119,900*
	48	82.3	305.1	119,200*
	50	81.9	304.8	118,500*
	55	80.9	304.1	115,700*
	60	80.0	303.2	111,300*
	65	79.0	302.2	107,400*
	70	78.0	301.2	103,800*
	75	77.0	300.1	100,400*
	80	76.1	298.9	97,400*
	85	75.1	297.6	93,300*
	90	74.1	296.2	86,000*
	95	73.1	294.7	79,500*
	100	72.1	293.1	73,800*
	105	71.1	291.4	68,700*
	110	70.1	289.6	64,100*
	115	69.0	287.7	59,900*
	120	68.0	285.7	56,100*
	125	67.0	283.6	52,700*
	130	65.9	281.4	49,500*
	135	64.9	279.1	46,600*
	140	63.8	276.7	44,000*
	145	62.8	274.1	41,500*
	150	61.7	271.5	39,200*
	155	60.6	268.7	37,100*
	160	59.5	265.8	35,100*
	165	58.4	262.7	33,200*
	170	57.2	259.5	31,500*
	175	56.1	256.2	29,800*
	180	54.9	252.7	28,300*
	185	53.7	249.1	26,800*
	190	52.5	245.3	25,500*
	195	51.3	241.4	24,200*
	200	50.1	237.3	22,600*
	205	48.8	232.9	21,000*
	210	47.5	228.4	19,400*
	215	46.2	223.7	18,000*
	220	44.9	218.8	16,600*
	225	43.5	213.6	15,300*
	230	42.1	208.1	14,000*
	235	40.6	202.4	12,800*
	240	39.1	196.4	11,600*
	245	37.6	190.0	10,500*
	250	36.0	183.2	9,400*
	255	34.3	176.1	8,300*
	260	32.6	168.4	7,300*
	265	30.7	160.3	6,300*
	270	28.8	151.4	5,400*
	275	26.7	141.8	4,400*
310	46	82.9	315.5	108,000*
	48	82.5	315.2	107,500*
	50	82.2	314.9	105,900*
	55	81.2	314.2	101,600*
	60	80.3	313.4	97,800*
	65	79.4	312.4	94,300*
	70	78.4	311.4	91,200*
	75	77.5	310.3	88,300*
	80	76.5	309.2	85,600*
	85	75.6	307.9	83,100*
	90	74.6	306.5	80,800*
	95	73.7	305.1	78,600*
	100	72.7	303.6	73,200*
	105	71.7	301.9	68,000*
	110	70.7	300.2	63,400*
	115	69.8	298.4	59,300*
	120	68.8	296.5	55,500*
	125	67.8	294.5	52,100*
	130	66.8	292.3	48,900*
	135	65.8	290.1	46,000*
	140	64.7	287.8	43,300*
	145	63.7	285.3	40,900*
	150	62.7	282.8	38,600*
	155	61.6	280.1	36,400*
	160	60.6	277.3	34,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
310	165	59.5	274.4	32,600*
	170	58.4	271.4	30,800*
	175	57.3	268.2	29,200*
	180	56.2	264.9	27,600*
	185	55.1	261.5	26,200*
	190	53.9	257.9	24,800*
	195	52.8	254.1	23,500*
	200	51.6	250.2	21,900*
	205	50.4	246.1	20,300*
	210	49.2	241.9	18,700*
	215	48.0	237.4	17,300*
	220	46.7	232.8	15,900*
	225	45.4	227.9	14,500*
	230	44.1	222.8	13,300*
	235	42.8	217.5	12,000*
	240	41.4	211.9	10,900*
	245	39.9	206.0	9,800*
	250	38.5	199.9	8,700*
	255	37.0	193.3	7,600*
	260	35.4	186.4	6,600*
	265	33.7	179.1	5,700*
	270	32.0	171.3	4,700*
320	48	82.8	325.3	99,700*
	50	82.4	325.0	98,100*
	55	81.5	324.3	94,500*
	60	80.6	323.5	90,500*
	65	79.7	322.6	86,900*
	70	78.8	321.6	83,600*
	75	77.9	320.6	80,700*
	80	77.0	319.5	77,900*
	85	76.0	318.2	75,300*
	90	75.1	316.9	72,900*
	95	74.2	315.5	70,700*
	100	73.2	314.0	68,600*
	105	72.3	312.5	66,600*
	110	71.4	310.8	63,000*
	115	70.4	309.1	58,800*
	120	69.5	307.2	55,000*
	125	68.5	305.3	51,600*
	130	67.5	303.2	48,400*
	135	66.6	301.1	45,500*
	140	65.6	298.8	42,900*
	145	64.6	296.5	40,400*
	150	63.6	294.0	38,100*
	155	62.6	291.5	35,900*
	160	61.6	288.8	34,000*
	165	60.5	286.0	32,100*
	170	59.5	283.1	30,300*
	175	58.5	280.1	28,700*
	180	57.4	276.9	27,200*
	185	56.3	273.6	25,700*
	190	55.2	270.2	24,300*
	195	54.1	266.6	22,600*
	200	53.0	262.9	20,900*
	205	51.9	259.0	19,300*
	210	50.7	255.0	17,800*
	215	49.6	250.8	16,300*
	220	48.4	246.4	14,900*
	225	47.2	241.8	13,600*
	230	45.9	237.0	12,300*
	235	44.7	232.0	11,100*
	240	43.4	226.8	10,000*
	245	42.0	221.4	8,900*
	250	40.7	215.6	7,800*
	255	39.3	209.6	6,800*
	260	37.8	203.3	5,800*
	265	36.3	196.6	4,900*
	270	34.8	189.6	4,000*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
330	48	83.0	335.4	92,000*
	50	82.6	335.1	90,200*
	55	81.8	334.4	86,100*
	60	80.9	333.6	82,400*
	65	80.0	332.8	79,100*
	70	79.1	331.8	76,100*
	75	78.2	330.8	73,300*
	80	77.4	329.7	70,800*
	85	76.5	328.5	68,400*
	90	75.6	327.3	66,200*
	95	74.7	325.9	64,200*
	100	73.8	324.5	62,200*
	105	72.9	323.0	60,400*
	110	71.9	321.4	58,600*
	115	71.0	319.7	57,000*
	120	70.1	317.9	54,600*
	125	69.2	316.0	51,100*
	130	68.2	314.0	48,000*
	135	67.3	312.0	45,100*
	140	66.4	309.8	42,400*
	145	65.4	307.5	39,900*
	150	64.4	305.2	37,600*
	155	63.5	302.7	35,500*
	160	62.5	300.1	33,500*
	165	61.5	297.5	31,600*
	170	60.5	294.7	29,900*
	175	59.5	291.7	28,300*
	180	58.5	288.7	26,700*
	185	57.5	285.6	25,300*
	190	56.4	282.3	23,900*
	195	55.4	278.9	22,600*
	200	54.3	275.3	21,400*
	205	53.2	271.6	19,900*
	210	52.2	267.8	18,400*
	215	51.0	263.8	16,900*
	220	49.9	259.6	15,500*
	225	48.8	255.3	14,200*
	230	47.6	250.8	13,000*
	235	46.4	246.1	11,800*
	240	45.2	241.2	10,600*
	245	43.9	236.1	9,500*
	250	42.7	230.7	8,400*
	255	41.4	225.1	7,400*
	260	40.0	219.3	6,500*
	265	38.7	213.1	5,500*
	270	37.2	206.7	4,600*