

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SERIES 2

NEW YORK CITY CODE

BOOM NO. 44 WITH LONG REACH TOP

207,000 LB. CRANE COUNTERWEIGHT

60,000 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 FOR BOOM LENGTHS THRU 250' AND NEW YORK CITY CRITERIA OF 1.4 FACTOR APPLIED TO TOTAL MACHINE MOMENT FOR BOOM LENGTHS 260' ON UP. 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.

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. 172842, WIRE ROPE SPECIFICATION CHART NO. 7581-B 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 AND LOWERING BOOM AND JIB TO APPROXIMATELY 70 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE TO PREVENT JIB BEING BLOWN OVER BACKWARDS. LOWER BOOM AND JIB TO GROUND WHEN WIND IS ABOVE 50 MPH.

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, AND TWO 30,000 LB. CARBODY COUNTERWEIGHTS.

WIND LIMITS DURING OPERATION			MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT SIDE OR REAR OF CRAWLERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET	JIB LENGTH FEET	BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
30	190 - 210	---	330'	---	40'	6,400 LBS.
25	220 - 250	---	320'	---	60'	8,200 LBS.
20	260 - 330	---	310'	---	80'	10,300 LBS.
25	190 - 210	40 - 80	300'	---	100'	12,800 LBS.
20	220 - 280	40 - 60	290'	---	120'	15,300 LBS.
20	220 - 250	80	280'	60'		
25	190 - 200	100 - 120	270'	120'		
20	210 - 250	100 - 120	LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. UPPER BOOM POINT CANNOT BE USED ON 330' BOOM.			
15	260 - 270	80 - 120				

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 POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	32	82.7	196.3	210,000*	190	95	62.6	176.1	75,800
	34	82.1	196.0	210,000*		100	60.9	173.4	70,600
	36	81.5	195.7	210,000*		105	59.2	170.5	66,000
	38	80.8	195.4	210,000*		110	57.4	167.3	61,800
	40	80.2	195.0	210,000*		115	55.6	164.0	58,100
	42	79.6	194.7	210,000*		120	53.7	160.4	54,600
	44	79.0	194.3	210,000*		125	51.8	156.5	51,500
	46	78.4	193.9	205,700		130	49.8	152.4	48,700
	48	77.8	193.4	193,600		135	47.8	148.0	46,100
	50	77.2	193.0	182,800		140	45.8	143.2	43,600
	55	75.6	191.7	160,000		145	43.6	138.1	41,400
	60	74.0	190.3	141,900		150	41.3	132.5	39,300
	65	72.5	188.8	127,200		155	39.0	126.5	37,400
	70	70.9	187.1	114,900		160	36.5	120.0	35,600
	75	69.3	185.2	104,700		165	33.9	112.8	33,900
	80	67.6	183.2	95,900		170	31.0	104.8	32,300
	85	66.0	181.0	88,300		175	27.9	95.8	30,800
	90	64.3	178.7	81,600					

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207,000 LB. CRANE COUNTERWEIGHT

60,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	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*
	44	79.6	204.5	210,000*
	46	79.0	204.1	205,100
	48	78.4	203.7	193,000
	50	77.8	203.2	182,200
	55	76.3	202.0	159,400
	60	74.9	200.7	141,300
	65	73.4	199.3	126,500
	70	71.9	197.7	114,300
	75	70.3	195.9	104,000
	80	68.8	194.0	95,200
	85	67.3	192.0	87,600
	90	65.7	189.7	81,000
	95	64.1	187.4	75,100
	100	62.5	184.8	69,900
210	105	60.9	182.1	65,300
	110	59.2	179.1	61,100
	115	57.5	176.0	57,400
	120	55.8	172.7	53,900
	125	54.0	169.1	50,800
	130	52.2	165.3	48,000
	135	50.4	161.3	45,400
	140	48.5	156.9	42,900
	145	46.5	152.3	40,700
	150	44.5	147.3	38,600
	155	42.4	142.0	36,700
	160	40.2	136.2	34,900
	165	38.0	130.0	33,200
	170	35.5	123.2	31,600
	175	33.0	115.8	30,100
	180	30.2	107.5	28,700
	185	27.2	98.2	27,400
	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	204,900
	48	79.0	213.9	192,800
	50	78.4	213.5	181,900
	55	77.0	212.3	159,100
	60	75.6	211.1	141,000
	65	74.2	209.7	126,300
	70	72.8	208.2	114,100
	75	71.3	206.5	103,800
	80	69.9	204.7	95,000
	85	68.4	202.8	87,400
	90	66.9	200.7	80,700
	95	65.4	198.4	74,900
	100	63.9	196.0	69,700
	105	62.4	193.5	65,100
	110	60.8	190.7	60,900
	115	59.2	187.8	57,100
	120	57.6	184.7	53,700
	125	56.0	181.4	50,600
	130	54.3	177.9	47,700
	135	52.6	174.1	45,100
	140	50.9	170.1	42,700
	145	49.1	165.9	40,500
	150	47.2	161.3	38,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
210	155	45.4	156.5	36,500
	160	43.4	151.3	34,700
	165	41.3	145.8	33,000
	170	39.2	139.8	31,400
	175	37.0	133.3	29,900
	180	34.6	126.3	28,500
	185	32.1	118.6	27,200
	190	29.4	110.1	25,900
	195	26.5	100.6	24,800
	36	82.6	226.0	210,000*
220	38	82.1	225.7	210,000*
	40	81.6	225.4	210,000*
	42	81.1	225.1	210,000*
	44	80.5	224.8	208,900*
	46	80.0	224.4	204,300
	48	79.5	224.1	192,200
	50	78.9	223.7	181,400
	55	77.6	222.6	158,500
	60	76.3	221.4	140,400
	65	74.9	220.1	125,700
	70	73.6	218.6	113,400
	75	72.2	217.1	103,100
	80	70.8	215.4	94,300
	85	69.4	213.5	86,700
	90	68.0	211.5	80,100
	95	66.6	209.4	74,200
	100	65.2	207.2	69,000
	105	63.7	204.7	64,400
	110	62.3	202.1	60,200
	115	60.8	199.4	56,500
	120	59.3	196.5	53,000
	125	57.7	193.4	49,900
	130	56.2	190.1	47,100
	135	54.6	186.6	44,400
	140	53.0	182.9	42,000
	145	51.3	178.9	39,800
	150	49.6	174.8	37,700
	155	47.9	170.3	35,800
	160	46.1	165.6	34,000
	165	44.2	160.6	32,300
	170	42.3	155.2	30,700
	175	40.3	149.5	29,200
	180	38.3	143.3	27,800
	185	36.1	136.6	26,500
	190	33.8	129.4	25,300
	195	31.4	121.4	24,100
	200	28.8	112.7	23,000
	205	25.9	102.9	21,900
230	36	83.0	236.1	196,300*
	38	82.5	235.8	194,300*
	40	81.9	235.6	192,400*
	42	81.4	235.3	190,500*
	44	80.9	234.9	188,800*
	46	80.4	234.6	187,000*
	48	79.9	234.2	185,400*
	50	79.4	233.9	180,800
	55	78.1	232.8	158,000
	60	76.9	231.7	139,900
	65	75.6	230.4	125,100
	70	74.3	229.1	112,900
	75	73.0	227.6	102,600
	80	71.7	225.9	93,800
	85	70.4	224.2	86,100
	90	69.0	222.3	79,500
	95	67.7	220.3	73,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
230	100	66.3	218.1	68,400
	105	65.0	215.8	63,800
	110	63.6	213.4	59,600
	115	62.2	210.8	55,900
	120	60.8	208.1	52,400
	125	59.3	205.1	49,300
	130	57.8	202.0	46,500
	135	56.4	198.8	43,800
	140	54.8	195.3	41,400
	145	53.3	191.6	39,200
240	150	51.7	187.8	37,100
	155	50.1	183.6	35,200
	160	48.5	179.3	33,400
	165	46.8	174.7	31,700
	170	45.0	169.8	30,100
	175	43.2	164.6	28,600
	180	41.4	159.0	27,200
	185	39.4	153.1	25,900
	190	37.4	146.7	24,700
	195	35.3	139.8	23,500
240	200	33.0	132.3	22,400
	205	30.7	124.2	21,300
	210	28.1	115.2	20,300
	215	25.3	105.1	19,300
	38	82.8	245.9	188,100*
	40	82.3	245.7	186,300*
	42	81.8	245.4	184,600*
	44	81.3	245.1	183,000*
	46	80.8	244.7	181,400*
	48	80.4	244.4	179,900*
	50	79.9	244.0	178,000*
	55	78.6	243.1	157,400
	60	77.4	242.0	139,300
	65	76.2	240.8	124,500
	70	75.0	239.5	112,200
	75	73.7	238.0	101,900
	80	72.5	236.5	93,100
	85	71.2	234.8	85,500
	90	69.9	233.0	78,800
	95	68.7	231.1	73,000
	100	67.4	229.0	67,800
	105	66.1	226.9	63,100
	110	64.8	224.5	58,900
	115	63.4	222.1	55,200
	120	62.1	219.5	51,800
	125	60.7	216.7	48,600
	130	59.3	213.8	45,800
	135	57.9	210.7	43,100
	140	56.5	207.5	40,700
	145	55.1	204.0	38,500
	150	53.6	200.4	36,400
	155	52.1	196.5	34,500
	160	50.5	192.5	32,700
	165	49.0	188.2	31,000
	170	47.4	183.7	29,400
	175	45.7	178.9	27,900
	180	44.0	173.8	26,500
	185	42.3	168.4	25,200
	190	40.4	162.7	23,900
	195	38.6	156.6	22,800
	200	36.6	150.0	21,700
	205	34.5	142.9	20,600
	210	32.3	135.2	19,600
	215	30.0	126.9	18,600
	220	27.5	117.6	17,700

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	40	82.6	255.8	178,800*
	42	82.1	255.5	177,200*
	44	81.7	255.2	175,700*
	46	81.2	254.9	174,300*
	48	80.7	254.5	172,900*
	50	80.3	254.2	170,100*
	55	79.1	253.3	157,100
	60	77.9	252.2	138,900
	65	76.8	251.1	124,200
	70	75.6	249.8	111,900
	75	74.4	248.4	101,600
	80	73.2	247.0	92,800
	85	72.0	245.4	85,200
	90	70.8	243.7	78,500
	95	69.6	241.8	72,600
	100	68.3	239.9	67,400
	105	67.1	237.8	62,800
	110	65.8	235.6	58,600
	115	64.6	233.2	54,900
	120	63.3	230.8	51,400
	125	62.0	228.1	48,300
	130	60.7	225.4	45,500
	135	59.4	222.5	42,800
	140	58.0	219.4	40,400
	145	56.7	216.1	38,200
	150	55.3	212.7	36,100
	155	53.9	209.1	34,200
	160	52.4	205.3	32,300
	165	51.0	201.3	30,700
	170	49.5	197.1	29,100
	175	47.9	192.7	27,600
	180	46.3	188.0	26,200
	185	44.7	183.0	24,900
	190	43.1	177.8	23,600
	195	41.4	172.2	22,500
	200	39.6	166.3	21,300
	205	37.7	160.0	20,300
	210	35.8	153.2	19,300
	215	33.8	146.0	18,300
	220	31.6	138.1	17,400
	225	29.4	129.5	16,500
	230	26.9	120.0	15,700
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	141,600
	60	78.4	262.4	124,300
	65	77.3	261.3	110,200
	70	76.1	260.1	98,500
	75	75.0	258.8	88,600
	80	73.9	257.4	80,200
	85	72.7	255.9	72,900
	90	71.6	254.2	66,600
	95	70.4	252.5	61,000
	100	69.2	250.6	56,000
	105	68.0	248.6	51,600
	110	66.8	246.5	47,600
	115	65.6	244.3	44,000
	120	64.4	241.9	40,800
	125	63.2	239.4	37,800
	130	61.9	236.8	35,000
	135	60.7	234.0	32,500
	140	59.4	231.1	30,200
	145	58.1	228.0	28,100
	150	56.8	224.8	26,100
	155	55.5	221.4	24,200
	160	54.1	217.9	22,500
	165	52.7	214.1	20,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
260	170	51.3	210.2	19,400
	175	49.9	206.0	18,000
	180	48.4	201.7	16,600
	185	46.9	197.1	15,400
	190	45.4	192.2	14,200
	195	43.8	187.1	13,100
	200	42.2	181.7	12,000
	205	40.5	175.9	11,000
	210	38.8	169.8	10,000
	215	37.0	163.3	9,100
	220	35.1	156.4	8,300
	225	33.1	148.9	7,400
270	230	31.0	140.9	6,600
	235	28.8	132.1	5,900
	240	26.4	122.4	5,200
	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	140,800
	60	78.8	272.7	123,500
	65	77.8	271.6	109,400
	70	76.7	270.4	97,700
	75	75.6	269.2	87,800
	80	74.5	267.8	79,400
	85	73.4	266.3	72,100
	90	72.3	264.8	65,800
	95	71.1	263.1	60,200
	100	70.0	261.3	55,200
	105	68.9	259.4	50,800
	110	67.7	257.4	46,800
	115	66.6	255.2	43,200
	120	65.4	253.0	39,900
	125	64.2	250.6	37,000
	130	63.1	248.1	34,200
	135	61.9	245.5	31,700
	140	60.6	242.7	29,400
	145	59.4	239.8	27,300
	150	58.2	236.7	25,300
	155	56.9	233.5	23,400
	160	55.6	230.1	21,700
	165	54.3	226.6	20,100
	170	53.0	222.9	18,600
	175	51.7	219.0	17,200
	180	50.3	214.9	15,800
	185	48.9	210.6	14,600
	190	47.5	206.1	13,400
	195	46.0	201.3	12,300
	200	44.5	196.3	11,200
	205	43.0	191.0	10,200
	210	41.4	185.5	9,200
	215	39.7	179.6	8,300
	220	38.0	173.3	7,400
	225	36.3	166.6	6,600
	230	34.4	159.5	5,800
	235	32.5	151.8	5,100
	240	30.4	143.6	4,300
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	122,600
	65	78.2	281.8	108,500
	70	77.2	280.7	96,800
	75	76.1	279.5	86,900
	80	75.0	278.2	78,500
	85	74.0	276.8	71,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
280	90	72.9	275.3	64,900
	95	71.8	273.7	59,300
	100	70.8	271.9	54,300
	105	69.7	270.1	49,900
	110	68.6	268.2	45,900
	115	67.5	266.1	42,300
	120	66.4	264.0	39,000
	125	65.2	261.7	36,000
	130	64.1	259.3	33,300
	135	62.9	256.8	30,800
	140	61.8	254.1	28,500
	145	60.6	251.4	26,300
290	150	59.4	248.4	24,300
	155	58.2	245.4	22,500
	160	57.0	242.2	20,800
	165	55.8	238.8	19,100
	170	54.5	235.3	17,600
	175	53.3	231.6	16,200
	180	52.0	227.8	14,900
	185	50.7	223.7	13,600
	190	49.3	219.5	12,400
	195	47.9	215.1	11,300
	200	46.5	210.4	10,200
	205	45.1	205.5	9,200
	210	43.6	200.3	8,300
	215	42.1	194.9	7,400
	220	40.6	189.2	6,500
	225	39.0	183.1	5,700
	230	37.3	176.7	4,900
	235	35.6	169.8	4,100
290	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	122,100
	65	78.6	292.0	108,000
	70	77.6	291.0	96,300
	75	76.6	289.8	86,400
	80	75.6	288.5	78,000
	85	74.6	287.2	70,700
	90	73.5	285.7	64,400
	95	72.5	284.2	58,800
	100	71.4	282.5	53,800
	105	70.4	280.8	49,400
	110	69.3	278.9	45,400
	115	68.3	276.9	41,800
	120	67.2	274.9	38,500
	125	66.1	272.7	35,500
	130	65.1	270.4	32,800
	135	64.0	268.0	30,300
	140	62.8	265.5	28,000
	145	61.7	262.8	25,800
	150	60.6	260.0	23,800
	155	59.5	257.1	22,000
	160	58.3	254.1	20,300
	165	57.1	250.9	18,600
	170	55.9	247.5	17,100
	175	54.7	244.0	15,700
	180	53.5	240.4	14,400
	185	52.3	236.6	13,100
	190	51.0	232.6	11,900
	195	49.7	228.4	10,800
	200	48.4	224.0	9,700
	205	47.1	219.4	8,700
	210	45.7	214.6	7,800
	215	44.3	209.6	6,900
	220	42.8	204.3	6,000
	225	41.4	198.7	5,200
	230	39.8	192.8	4,400

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SERIES 2

NEW YORK CITY CODE

BOOM NO. 44 WITH LONG REACH TOP

207,000 LB. CRANE COUNTERWEIGHT

60,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

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	107,100
	70	78.0	301.2	95,400
	75	77.0	300.1	85,500
	80	76.1	298.9	77,100
	85	75.1	297.6	69,800
	90	74.1	296.2	63,400
	95	73.1	294.7	57,800
	100	72.1	293.1	52,800
	105	71.1	291.4	48,400
	110	70.1	289.6	44,400
	115	69.0	287.7	40,800
	120	68.0	285.7	37,500
	125	67.0	283.6	34,500
	130	65.9	281.4	31,800
	135	64.9	279.1	29,300
	140	63.8	276.7	26,900
	145	62.8	274.1	24,800
	150	61.7	271.5	22,800
	155	60.6	268.7	20,900
	160	59.5	265.8	19,200
310	165	58.4	262.7	17,600
	170	57.2	259.5	16,100
	175	56.1	256.2	14,700
	180	54.9	252.7	13,300
	185	53.7	249.1	12,100
	190	52.5	245.3	10,900
	195	51.3	241.4	9,800
	200	50.1	237.3	8,700
	205	48.8	232.9	7,700
	210	47.5	228.4	6,700
	215	46.2	223.7	5,800
	220	44.9	218.8	4,900
	225	43.5	213.6	4,100
	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	84,700
	80	76.5	309.2	76,200
	85	75.6	307.9	68,900
	90	74.6	306.5	62,500
	95	73.7	305.1	56,900
	100	72.7	303.6	52,000
	105	71.7	301.9	47,500
	110	70.7	300.2	43,500
	115	69.8	298.4	39,900
	120	68.8	296.5	36,600
	125	67.8	294.5	33,600
	130	66.8	292.3	30,900
	135	65.8	290.1	28,400
	140	64.7	287.8	26,100
	145	63.7	285.3	23,900
	150	62.7	282.8	21,900
	155	61.6	280.1	20,100
	160	60.6	277.3	18,300
	165	59.5	274.4	16,700
	170	58.4	271.4	15,200
	175	57.3	268.2	13,800
	180	56.2	264.9	12,400
	185	55.1	261.5	11,200
	190	53.9	257.9	10,000
	195	52.8	254.1	8,900
	200	51.6	250.2	7,800
	205	50.4	246.1	6,800
	210	49.2	241.9	5,800
	215	48.0	237.4	4,900
	220	46.7	232.8	4,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
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	75,600
	85	76.0	318.2	68,300
	90	75.1	316.9	61,900
	95	74.2	315.5	56,300
	100	73.2	314.0	51,300
	105	72.3	312.5	46,900
	110	71.4	310.8	42,900
	115	70.4	309.1	39,300
	120	69.5	307.2	36,000
	125	68.5	305.3	33,000
	130	67.5	303.2	30,300
	135	66.6	301.1	27,700
	140	65.6	298.8	25,400
	145	64.6	296.5	23,300
	150	63.6	294.0	21,300
	155	62.6	291.5	19,400
	160	61.6	288.8	17,700
	165	60.5	286.0	16,100
	170	59.5	283.1	14,600
	175	58.5	280.1	13,100
	180	57.4	276.9	11,800
	185	56.3	273.6	10,500
	190	55.2	270.2	9,300
330	195	54.1	266.6	8,200
	200	53.0	262.9	7,100
	205	51.9	259.0	6,100
	210	50.7	255.0	5,200
	215	49.6	250.8	4,300
	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	63,000
	95	74.7	325.9	57,400
	100	73.8	324.5	52,400
	105	72.9	323.0	48,000
	110	71.9	321.4	44,000
	115	71.0	319.7	40,400
	120	70.1	317.9	37,100
	125	69.2	316.0	34,100
	130	68.2	314.0	31,400
	135	67.3	312.0	28,900
	140	66.4	309.8	26,500
	145	65.4	307.5	24,400
	150	64.4	305.2	22,400
	155	63.5	302.7	20,500
	160	62.5	300.1	18,800
	165	61.5	297.5	17,200
	170	60.5	294.7	15,700
	175	59.5	291.7	14,300
	180	58.5	288.7	12,900
	185	57.5	285.6	11,700
	190	56.4	282.3	10,500
	195	55.4	278.9	9,300
	200	54.3	275.3	8,300
	205	53.2	271.6	7,300
	210	52.2	267.8	6,300
	215	51.0	263.8	5,400
	220	49.9	259.6	4,500