

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**4100W SERIES 2**

BOOM NO. 22C WITH OPEN THROAT TOP
146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
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 LIFT CRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 28,300 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF UPPER BOOM POINT, 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 CRAWLERS FULLY EXTENDED AND GANTRY UP. REFER TO BOOM RIGGING NO. 190693 AND WIRE ROPE SPECIFICATION CHART NO. 6592-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 26'6" EXTENDIBLE CRAWLERS, 48" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 1ST COUNTERWEIGHT = 41,900 LBS., 2ND COUNTERWEIGHT = 41,500 LBS., 3RD COUNTERWEIGHT = 39,000 LBS., TWO 12,000 LB. SIDE COUNTERWEIGHTS, AND TWO 30,000 LB. CARBODY COUNTERWEIGHTS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER END OF CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS				JIB LGTH.	JIB NO. 123
BOOM LGTH.	JIB NO. 123	BOOM LGTH.	JIB NO. 123				
260'	---	260'	---	ONE SHEAVE POINT 1,200 LBS.		30'	3,000 LBS.
250'	---	250'	---	TWO SHEAVE POINT 1,500 LBS.		40'	3,600 LBS.
240'	40'	240'	40'	TO COMPLY WITH B30.5 REQUIREMENTS, UPPER BOOM POINT CANNOT BE USED ON 260' BOOM.		50'	4,200 LBS.
230'	60'	230'	60'			60'	4,900 LBS.
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.						JIB DEDUCTS INCLUDE JIB ADAPTOR.	

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
70	16.5	79.7	75.9	460,000*
	17	79.3	75.8	400,000*
	18	78.5	75.6	380,100*
	19	77.6	75.4	363,000*
	20	76.8	75.2	347,300*
	22	75.1	74.7	319,600*
	24	73.4	74.1	293,400*
	26	71.7	73.5	266,100
	28	69.9	72.8	237,500
	30	68.2	72.0	214,300
	32	66.4	71.2	195,100
	34	64.6	70.3	178,900
	36	62.8	69.3	165,200
	38	60.9	68.2	153,300
	40	59.1	67.0	143,000
	45	54.1	63.7	122,100
	50	48.9	59.8	106,300
	55	43.2	55.0	93,900
	60	36.9	49.0	84,000
	65	29.4	41.3	75,800
	70	19.5	30.3	63,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
80	17	80.6	85.9	392,800*
	18	79.9	85.8	378,900*
	19	79.2	85.6	361,800*
	20	78.5	85.4	346,100*
	22	77.0	85.0	318,400*
	24	75.5	84.5	292,500*
	26	74.0	83.9	265,600*
	28	72.5	83.3	237,000
	30	71.0	82.7	213,800
	32	69.5	81.9	194,600
	34	68.0	81.2	178,500
	36	66.4	80.3	164,700
	38	64.8	79.4	152,800
	40	63.3	78.4	142,400
	45	59.2	75.7	121,500
	50	54.9	72.5	105,700
	55	50.4	68.6	93,300
	60	45.6	64.1	83,400
	65	40.3	58.8	75,200
	70	34.4	52.2	68,300
	75	27.4	43.9	62,500
	80	18.2	32.0	53,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
90	18	81.1	95.9	355,400*
	19	80.4	95.7	346,900*
	20	79.8	95.6	336,900*
	22	78.5	95.2	317,400*
	24	77.2	94.8	291,700*
	26	75.9	94.3	264,800*
	28	74.5	93.7	236,600
	30	73.2	93.2	213,400
	32	71.9	92.5	194,200
	34	70.5	91.9	178,000
	36	69.2	91.1	164,200
	38	67.8	90.3	152,300
	40	66.4	89.5	142,000
	45	62.9	87.1	121,100
	50	59.3	84.4	105,200
	55	55.5	81.2	92,800
	60	51.5	77.5	82,900
	65	47.3	73.2	74,700
	70	42.8	68.2	67,800
	75	37.9	62.3	62,000
	80	32.4	55.2	57,000
	85	25.8	46.2	52,600
	90	17.1	33.5	45,900*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
100	19	81.4	105.9	332,900*
	20	80.8	105.7	327,100*
	22	79.6	105.4	316,200*
	24	78.5	105.0	290,800*
	26	77.3	104.6	263,900*
	28	76.1	104.1	236,200
	30	74.9	103.6	212,900
	32	73.7	103.0	193,700
	34	72.5	102.4	177,500
	36	71.3	101.7	163,700
110	38	70.1	101.0	151,800
	40	68.9	100.3	141,400
	45	65.8	98.2	120,500
	50	62.6	95.8	104,700
	55	59.3	93.0	92,300
	60	55.9	89.9	82,300
	65	52.4	86.2	74,100
	70	48.7	82.1	67,200
	75	44.8	77.4	61,400
	80	40.5	72.0	56,400
120	85	35.9	65.6	52,000
	90	30.7	58.0	48,200
	95	24.5	48.5	44,900
	100	16.3	35.0	39,300*
	22	80.6	115.5	291,600*
	24	79.5	115.2	282,900*
	26	78.5	114.8	263,200*
	28	77.4	114.4	235,800
	30	76.3	113.9	212,500
	32	75.3	113.4	193,300
130	34	74.2	112.8	177,100
	36	73.1	112.2	163,300
	38	72.0	111.6	151,400
	40	70.9	110.9	141,000
	45	68.1	109.1	120,100
	50	65.3	106.9	104,200
	55	62.4	104.5	91,800
	60	59.4	101.7	81,800
	65	56.3	98.5	73,600
	70	53.1	95.0	66,800
140	75	49.8	91.0	60,900
	80	46.3	86.5	55,900
	85	42.6	81.4	51,600
	90	38.6	75.6	47,800
	95	34.2	68.8	44,400
	100	29.2	60.7	41,400
	105	23.3	50.6	38,700
	110	15.5	36.4	33,900*
	22	81.4	125.6	285,000*
	24	80.4	125.3	271,700*
150	26	79.4	125.0	259,800*
	28	78.5	124.6	235,300
	30	77.5	124.2	212,100
	32	76.5	123.7	192,800
	34	75.5	123.2	176,600
	36	74.5	122.7	162,800
	38	73.5	122.1	150,900
	40	72.5	121.5	140,500
	45	70.0	119.8	119,500
	50	67.5	117.8	103,700
160	55	64.8	115.6	91,300
	60	62.2	113.1	81,300
	65	59.4	110.3	73,100
	70	56.6	107.2	66,200
	22	81.0	145.3	239,700*
	28	80.1	144.9	230,800*
	30	79.3	144.6	211,300
	32	78.5	144.2	192,100
	34	77.6	143.8	175,800
	36	76.8	143.3	162,000
170	38	75.9	142.8	150,100
	40	75.1	142.3	139,700
	45	73.0	140.9	118,700
	50	70.8	139.2	102,800
	55	68.6	137.4	90,400
	60	66.4	135.3	80,400
	65	64.2	133.0	72,200
	70	61.9	130.5	65,300
	75	59.5	127.7	59,500
	80	57.1	124.6	54,400
180	85	54.6	121.2	50,100
	90	52.1	117.5	46,200
	95	49.5	113.4	42,900
	100	46.7	108.9	39,900
	105	43.8	104.0	37,200
	110	40.8	98.5	34,700
	115	37.5	92.3	32,500
	120	34.0	85.4	30,500
	125	30.2	77.4	28,700
	130	25.8	68.0	27,000
190	135	20.7	56.4	25,500
	28	81.4	165.2	208,500*
	30	80.6	164.9	203,500*
	32	79.9	164.5	191,100
	34	79.2	164.2	174,900
	36	78.5	163.8	161,000
	38	77.7	163.4	149,100
	40	77.0	162.9	138,700
	45	75.2	161.7	117,700
	50	73.3	160.3	101,800
200	55	71.4	158.7	89,300
	60	69.5	156.9	79,300
	65	67.6	154.9	71,100
	70	65.6	152.8	64,200
	75	63.7	150.4	58,400
	80	61.6	147.8	53,300
	85	59.6	145.0	49,000
	90	57.5	141.9	45,100
	95	55.3	138.6	41,800
	100	53.1	135.0	38,700
210	105	50.9	131.1	36,000
	110	48.5	126.9	33,600
	115	46.1	122.2	31,400
	120	43.5	117.2	29,400
	125	40.9	111.7	27,600
	130	38.0	105.6	25,900
	135	35.0	98.9	24,300
	140	31.8	91.3	22,900
	145	28.2	82.6	21,600
	150	24.1	72.5	20,400
220	155	19.3	59.9	19,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
120	75	53.7	103.7	60,400
	80	50.7	99.9	55,300
	85	47.5	95.5	51,000
	90	44.2	90.7	47,200
	95	40.7	85.2	43,800
	100	36.9	79.0	40,800
	105	32.7	71.8	38,100
	110	28.0	63.3	35,700
	115	22.3	52.6	33,500
	24	81.2	135.5	260,000*
130	26	80.3	135.1	248,600*
	28	79.4	134.8	234,700*
	30	78.5	134.4	211,800
	32	77.6	134.0	192,500
	34	76.7	133.5	176,300
	36	75.7	133.0	162,500
	38	74.8	132.5	150,600
	40	73.9	131.9	140,200
	45	71.6	130.4	119,300
	50	69.3	128.6	103,400
140	55	66.9	126.6	91,000
	60	64.5	124.3	81,000
	65	62.0	121.8	72,800
	70	59.5	119.0	65,900
	75	56.9	115.9	60,000
	80	54.2	112.5	55,000
	85	51.5	108.7	50,700
	90	48.6	104.5	46,800
	95	45.6	99.8	43,500
	100	42.4	94.7	40,500
150	105	39.0	88.9	37,800
	110	35.4	82.3	35,300
	115	31.4	74.7	33,100
	120	26.8	65.7	31,100
	125	21.4	54.5	29,300
	26	81.0	145.3	239,700*
	28	80.1	144.9	230,800*
	30	79.3	144.6	211,300
	32	78.5	144.2	192,100
	34	77.6	143.8	175,800
160	36	76.8	143.3	162,000
	38	75.9	142.8	150,100
	40	75.1	142.3	139,700
	45	73.0	140.9	118,700
	50	70.8	139.2	102,800
	55	68.6	137.4	90,400
	60	66.4	135.3	80,400
	65	64.2	133.0	72,200
	70	61.9	130.5	65,300
	75	59.5	127.7	59,500
170	80	57.1	124.6	54,400
	85	54.6	121.2	50,100
	90	52.1	117.5	46,200
	95	49.5	113.4	42,900
	100	46.7	108.9	39,900
	105	43.8	104.0	37,200
	110	40.8	98.5	34,700
	115	37.5	92.3	32,500
	120	34.0	85.4	30,500
	125	30.2	77.4	28,700
180	130	25.8	68.0	27,000
	135	20.7	56.4	25,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
150	28	80.8	155.1	218,600*
	30	80.0	154.7	210,300*
	32	79.2	154.4	191,600
	34	78.5	154.0	175,400
	36	77.7	153.6	161,600
	38	76.9	153.1	149,600
	40	76.1	152.6	139,200
	45	74.1	151.3	118,200
	50	72.1	149.8	102,400
	55	70.1	148.1	89,900
	60	68.1	146.2	79,900
	65	66.0	144.0	71,700
	70	63.9	141.7	64,800
	75	61.7	139.1	59,000
	80	59.6	136.3	53,900
	85	57.3	133.3	49,600
	90	55.0	129.9	45,700
	95	52.7	126.2	42,400
	100	50.2	122.3	39,400
	105	47.7	117.9	36,700
160	110	45.0	113.1	34,200
	115	42.3	107.9	32,000
	120	39.3	102.1	30,000
	125	36.2	95.7	28,200
	130	32.9	88.4	26,500
	135	29.2	80.1	25,000
	140	25.0	70.3	23,500
	145	19.9	58.2	22,200
160	28	81.4	165.2	208,500*
	30	80.6	164.9	203,500*
	32	79.9	164.5	191,100
	34	79.2	164.2	174,900
	36	78.5	163.8	161,000
	38	77.7	163.4	149,100
	40	77.0	162.9	138,700
	45	75.2	161.7	117,700
	50	73.3	160.3	101,800
	55	71.4	158.7	89,300
	60	69.5	156.9	79,300
	65	67.6	154.9	71,100
	70	65.6	152.8	64,200
	75	63.7	150.4	58,400
	80	61.6	147.8	53,300
	85	59.6	145.0	49,000
	90	57.5	141.9	45,100
	95	55.3	138.6	41,800
	100	53.1	135.0	38,700
	105	50.9	131.1	36,000
170	110	48.5	126.9	33,600
	115	46.1	122.2	31,400
	120	43.5	117.2	29,400
	125	40.9	111.7	27,600
	130	38.0	105.6	25,900
	135	35.0	98.9	24,300
	140	31.8	91.3	22,900
	145	28.2	82.6	21,600
	150	24.1	72.5	20,400
	155	19.3	59.9	19,200*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
170	30	81.2	175.0	192,600*
	32	80.5	174.7	188,400*
	34	79.8	174.3	174,600
	36	79.2	174.0	160,800
	38	78.5	173.6	148,800
	40	77.8	173.1	138,400
	45	76.0	172.0	117,400
	50	74.3	170.7	101,500
	55	72.5	169.2	89,100
	60	70.8	167.5	79,000
	65	69.0	165.7	70,800
	70	67.2	163.7	63,900
	75	65.3	161.5	58,100
	80	63.4	159.1	53,000
	85	61.5	156.5	48,700
	90	59.6	153.6	44,900
	95	57.6	150.6	41,500
	100	55.6	147.3	38,500
	105	53.6	143.7	35,800
	110	51.4	139.9	33,300
180	115	49.2	135.8	31,100
	120	47.0	131.3	29,100
	125	44.6	126.4	27,300
	130	42.2	121.1	25,600
	135	39.6	115.4	24,100
	140	36.9	109.0	22,600
	145	34.0	102.0	21,300
	150	30.8	94.1	20,100
	155	27.3	85.1	18,900
	160	23.4	74.6	17,800
	165	18.7	61.6	16,400*
	32	81.1	184.8	180,000*
	34	80.4	184.5	174,100*
	36	79.8	184.1	160,300
	38	79.1	183.8	148,300
	40	78.5	183.4	137,900
	45	76.8	182.3	116,900
	50	75.2	181.0	101,000
	55	73.5	179.6	88,500
	60	71.9	178.1	78,500
	65	70.2	176.4	70,300
200	70	68.5	174.5	63,400
	75	66.8	172.4	57,500
	80	65.0	170.2	52,500
	85	63.3	167.8	48,100
	90	61.5	165.1	44,300
	95	59.6	162.3	40,900
	100	57.8	159.3	37,900
	105	55.9	156.0	35,200
	110	53.9	152.5	32,700
	115	51.9	148.7	30,500
	120	49.9	144.6	28,500
	125	47.8	140.3	26,700
	130	45.6	135.6	25,000
	135	43.3	130.5	23,500
	140	40.9	124.9	22,000
	145	38.4	118.9	20,700
	150	35.8	112.3	19,500
	155	33.0	105.0	18,300
	160	29.9	96.8	17,200
	165	26.6	87.5	16,200
210	170	22.7	76.6	15,300
	175	18.2	63.2	13,500*
	32	81.5	194.9	171,000*
	34	80.9	194.6	166,100*
	36	80.3	194.3	159,800
	38	79.7	193.9	147,900
	40	79.1	193.6	137,400
	45	77.5	192.5	116,400
	50	76.0	191.4	100,500
	55	74.4	190.0	88,000
	60	72.9	188.6	78,000
	65	71.3	186.9	69,700
	70	69.7	185.2	62,800
	75	68.1	183.2	57,000
	80	66.4	181.1	52,000
	85	64.8	178.9	47,600
	90	63.1	176.4	43,800
	95	61.4	173.8	40,400
	100	59.7	171.0	37,400
	105	57.9	167.9	34,700
200	110	56.1	164.7	32,200
	115	54.3	161.2	30,000
	120	52.4	157.5	28,000
	125	50.4	153.5	26,200
	130	48.5	149.2	24,500
	135	46.4	144.6	22,900
	140	44.3	139.7	21,500
	145	42.1	134.4	20,200
	150	39.8	128.6	18,900
	155	37.4	122.3	17,800
	160	34.8	115.5	16,700
	165	32.1	107.9	15,700
	170	29.1	99.4	14,800
	175	25.8	89.8	13,900
	180	22.1	78.6	13,100
	185	17.7	64.8	11,000*
	34	81.4	204.7	157,200*
	36	80.8	204.4	153,500*
	38	80.2	204.1	147,400
	40	79.6	203.7	136,900
	45	78.2	202.8	115,900
	50	76.7	201.6	100,000
	55	75.2	200.4	87,500
	60	73.7	199.0	77,400
	65	72.2	197.5	69,200
	70	70.7	195.8	62,300
200	75	69.2	194.0	56,400
	80	67.7	192.0	51,400
	85	66.1	189.9	47,000
	90	64.5	187.6	43,200
	95	62.9	185.1	39,800
	100	61.3	182.5	36,800
	105	59.7	179.6	34,100
	110	58.0	176.6	31,600
	115	56.3	173.4	29,400
	120	54.5	169.9	27,400
	125	52.8	166.3	25,600
	130	50.9	162.3	23,900
	135	49.1	158.1	22,300
	140	47.2	153.6	20,900
	145	45.2	148.8	19,600
	150	43.1	143.7	18,300
	155	41.0	138.2	17,200
	160	38.7	132.2	16,100
	165	36.4	125.7	15,100
	170	33.9	118.6	14,200
	175	31.2	110.7	13,300
200	180	28.4	102.0	12,400
	185	25.2	92.1	11,700
	190	21.6	80.5	10,900
	195	17.3	66.3	8,500*
	36	81.2	214.6	146,000*
	38	80.7	214.2	143,300*
	40	80.1	213.9	136,600
	45	78.7	213.0	115,500
	50	77.3	211.9	99,600
	55	75.9	210.7	87,100
	60	74.5	209.4	77,100
	65	73.1	208.0	68,800
	70	71.7	206.4	61,900
	75	70.2	204.6	56,100
	80	68.8	202.8	51,000
	85	67.3	200.8	46,700
	90	65.8	198.6	42,800
	95	64.3	196.3	39,400
	100	62.8	193.8	36,400
	105	61.3	191.1	33,700
	110	59.7	188.3	31,300
	115	58.1	185.3	29,100
	120	56.5	182.1	27,100
	125	54.8	178.6	25,200
	130	53.1	175.0	23,500
	135	51.4	171.1	22,000
	140	49.6	167.0	20,600
	145	47.8	162.6	19,200
	150	46.0	157.9	18,000
	155	44.0	152.9	16,800
	160	42.0	147.6	15,800
	165	39.9	141.8	14,800
	170	37.8	135.6	13,800
	175	35.5	128.9	12,900
	180	33.1	121.6	12,100
	185	30.5	113.5	11,300
	190	27.7	104.5	10,600
	195	24.6	94.3	9,900
	200	21.0	82.4	8,800*
	205	16.8	67.8	6,500*

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**4100W SERIES 2**

BOOM NO. 22C WITH OPEN THROAT TOP
146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
220	38	81.1	224.4	135,900*
	40	80.6	224.0	133,400*
	45	79.3	223.2	115,000
	50	77.9	222.1	99,100
	55	76.6	221.0	86,600
	60	75.3	219.8	76,600
	65	73.9	218.4	68,300
	70	72.5	216.9	61,400
	75	71.2	215.2	55,500
	80	69.8	213.5	50,500
	85	68.4	211.6	46,100
	90	67.0	209.5	42,300
	95	65.6	207.3	38,900
	100	64.1	205.0	35,800
	105	62.7	202.5	33,100
	110	61.2	199.8	30,700
	115	59.7	196.9	28,500
	120	58.2	193.9	26,500
	125	56.6	190.7	24,600
	130	55.1	187.3	23,000
230	135	53.5	183.8	21,400
	140	51.8	179.9	20,000
	145	50.1	175.9	18,600
	150	48.4	171.6	17,400
	155	46.7	167.0	16,300
	160	44.8	162.1	15,200
	165	43.0	156.9	14,200
	170	41.0	151.4	13,200
	175	39.0	145.4	12,300
	180	36.9	139.0	11,500
	185	34.6	132.1	10,700
	190	32.3	124.5	10,000
	195	29.8	116.2	9,300
	200	27.0	106.9	8,600
	205	24.0	96.4	8,000
	210	20.6	84.2	6,500*
	215	16.4	69.3	4,400*
240	38	81.5	234.5	132,900*
	40	81.0	234.2	125,200*
	45	79.7	233.3	114,500
	50	78.5	232.4	98,600
	55	77.2	231.3	86,100
	60	75.9	230.1	76,100
	65	74.6	228.8	67,800
	70	73.3	227.3	60,900
	75	72.0	225.8	55,000
	80	70.7	224.1	50,000
	85	69.4	222.3	45,600
	90	68.0	220.3	41,700
	95	66.7	218.2	38,400
	100	65.3	216.0	35,300
	105	64.0	213.6	32,600
	110	62.6	211.1	30,200
	115	61.1	208.4	28,000
	120	59.7	205.6	26,000
	125	58.3	202.6	24,100
	130	56.8	199.4	22,400
250	135	55.3	196.1	20,900
	140	53.8	192.5	19,400
	145	52.2	188.7	18,100
	150	50.6	184.7	16,900
	155	49.0	180.5	15,700
	160	47.3	176.0	14,700
	165	45.6	171.3	13,600
	170	43.8	166.2	12,700
	45	80.6	253.6	106,600*
	50	79.4	252.7	97,800
	55	78.2	251.7	85,200
	60	77.1	250.7	75,200
	65	75.9	249.4	66,900
	70	74.7	248.1	60,000
	75	73.5	246.7	54,100
	80	72.3	245.2	49,100
	85	71.1	243.5	44,700
	90	69.9	241.7	40,800
	95	68.7	239.9	37,400
	100	67.4	237.8	34,400
	105	66.2	235.7	31,700
	110	64.9	233.4	29,300
	115	63.6	231.0	27,100
	120	62.4	228.5	25,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
230	175	42.0	160.8	11,800
	180	40.1	155.1	11,000
	185	38.1	148.9	10,200
	190	36.0	142.3	9,400
	195	33.9	135.1	8,700
	200	31.6	127.4	8,100
	205	29.1	118.8	7,400
	210	26.4	109.3	6,800*
	215	23.5	98.5	6,100*
	220	20.1	86.0	4,400*
240	40	81.4	244.3	123,400*
	45	80.2	243.5	112,600*
	50	78.9	242.6	98,100
	55	77.7	241.5	85,600
	60	76.5	240.4	75,600
	65	75.3	239.1	67,300
	70	74.0	237.8	60,400
	75	72.8	236.3	54,500
	80	71.5	234.7	49,500
	85	70.3	232.9	45,100
250	90	69.0	231.1	41,200
	95	67.7	229.1	37,800
	100	66.4	227.0	34,800
	105	65.1	224.7	32,100
	110	63.8	222.3	29,700
	115	62.5	219.8	27,400
	120	61.1	217.1	25,400
	125	59.7	214.3	23,600
	130	58.3	211.3	21,900
	135	56.9	208.1	20,300
260	140	55.5	204.8	18,900
	145	54.0	201.2	17,600
	150	52.5	197.5	16,300
	155	51.0	193.6	15,200
	160	49.5	189.4	14,100
	165	47.9	185.0	13,100
	170	46.2	180.3	12,200
	175	44.6	175.4	11,300
	180	42.8	170.2	10,400
	185	41.0	164.6	9,600
270	190	39.2	158.7	8,900
	195	37.3	152.3	8,200
	200	35.2	145.5	7,500*
	205	33.1	138.2	6,700*
	210	30.9	130.1	6,000*
	215	28.5	121.4	5,300*
	220	25.8	111.6	4,700*
	225	23.0	100.6	4,000*
280	45	80.6	253.6	106,600*
	50	79.4	252.7	97,800
	55	78.2	251.7	85,200
	60	77.1	250.7	75,200
	65	75.9	249.4	66,900
	70	74.7	248.1	60,000
	75	73.5	246.7	54,100
	80	72.3	245.2	49,100
	85	71.1	243.5	44,700
	90	69.9	241.7	40,800
290	95	68.7	239.9	37,400
	100	67.4	237.8	34,400
	105	66.2	235.7	31,700
	110	64.9	233.4	29,300
	115	63.6	231.0	27,100
	120	62.4	228.5	25,000
	125	61.1	225.8	23,000
	130	59.7	222.9	21,500
	135	58.4	219.9	20,000
	140	57.0	216.8	18,500
300	145	55.7	213.4	17,200
	150	54.3	209.9	16,000
	155	52.8	206.3	14,800
	160	51.4	202.4	13,700
	165	49.9	198.3	12,700
	170	48.4	193.9	11,800
	175	46.8	189.4	10,900
	180	45.3	184.6	10,100
	185	43.6	179.5	9,300
	190	41.9	174.1	8,500
310	195	40.2	168.3	7,800*
	200	38.4	162.2	7,000*
	205	36.5	155.7	6,200*
	210	34.5	148.7	5,500*
	215	32.4	141.1	4,800*
	220	30.2	132.9	4,100*
	45	80.9	263.8	104,800*
	50	79.8	262.9	95,700*
	55	78.7	262.0	84,700
	60	77.6	260.9	74,700
320	65	76.4	259.7	66,400
	70	75.3	258.5	59,500
	75	74.2	257.1	53,600
	80	73.0	255.6	48,500
	85	71.8	254.1	44,100
	90	70.7	252.4	40,300
	95	69.5	250.6	36,900
	100	68.3	248.6	33,900
	105	67.1	246.6	31,100
	110	65.9	244.4	28,700
330	115	64.7	242.1	26,500
	120	63.5	239.7	24,500
	125	62.3	237.1	22,600
	130	61.0	234.4	20,900
	135	59.7	231.6	19,400
	140	58.5	228.6	17,900
	145	57.2	225.5	16,600
	150	55.8	222.1	15,400
	155	54.5	218.7	14,200
	160	53.1	215.0	13,100
340	165	51.7	211.2	12,100
	170	50.3	207.1	11,200
	175	48.9	202.9	10,300
	180	47.4	198.4	9,500
	185	45.9	193.7	8,700
	190	44.3	188.7	7,900*
	195	42.7	183.4	7,000*
	200	41.1	177.8	6,200*
	205	39.4	171.9	5,400*
	210	37.6	165.6	4,700*
350	215	35.8	158.9	4,000*