

**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**4600
SERIES-3****BOOM NO. 27 WITH OPEN THROAT TOP
113,500 LB. COUNTERWEIGHT**

LIFTING CAPACITIES: 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 shown by shaded areas.

Upper boom point capacity for liftcrane service with single part whip line or combination of two single part lines is 40,000 lbs. In all cases, upper boom point capacities cannot exceed those listed for the main boom capacity.

Capacities are shown in pounds. Weight of upper boom point, jib (see chart A), all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom and jib point sheaves is to be 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.

OPERATING CONDITIONS: Machine to operate in a level position on a firm surface. Refer to rigging No. 50973, load line specification chart No. 6444-A, and power plant and counterweight arrangement chart No. 6655-A.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions and physical machine depreciation.

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 15" to boom point radius for radius of sheave when using single part hoist line.

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: Boom point elevation, in feet, is the vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 26'-1" crawlers, 60" treads, 30' heavy duty mast, Vicon independent boom hoist with 16 part reeving, 12 part mast hoist reeving, four 1-3/8" boom pendants and 113,500 lb. counterweight.

HOIST REEVEING FOR MAIN LOAD BLOCK						
No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	40,000	80,000	120,000	160,000	200,000	240,000
No. Parts of Line	7	8	9	10	11	12
Max. Load — Lbs.	280,000	320,000	360,000	400,000	440,000	480,000

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1-1/4" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 79.9 Ton. (Approx. Weight Per Ft. in Lbs. 2.89)	
WHIP LINE: 1-1/4" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 79.9 Ton. Maximum Load — 40,000 lbs. Per Line (Approx. Weight Per Ft. in Lbs. 2.89)	

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF CRAWLERS			
Boom Lgth.	Jib No. 122A	Boom Lgth.	Jib No. 122A	Jib Length	Jib No. 122A
260'	—	230'	—	40'	6,300 Lb.
250'	—	220'	—	50'	7,200 Lb.
240'	—	210'	40'		
230'	50'	200'	50'		

Load block, hook and weight ball on ground at start

DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED	
One Sheave Point	1,200 Lb.
Two Sheave Point	1,500 Lb.
Integral Point	1,600 Lb.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
18	81.5	86.9	480,000		20	81.2	96.7	420,700		21	81.5	106.7	385,700		23	81.2	116.5	330,000	
19	80.8	86.8	462,500		21	80.5	96.6	386,100		22	80.9	106.5	356,200		24	80.7	116.3	307,900	
20	80.0	86.6	421,400		22	79.9	96.4	356,600		23	80.3	106.4	330,800		25	80.1	116.2	288,500	
21	79.3	86.4	386,900		23	79.2	96.2	331,200		24	79.7	106.2	308,700		26	79.6	116.0	271,200	
22	78.6	86.2	357,400		24	78.6	96.0	309,100		25	79.1	106.0	289,200		27	79.1	115.8	255,900	
23	77.9	86.0	332,000		25	77.9	95.8	289,700		26	78.6	105.8	272,000		28	78.6	115.6	242,100	
24	77.1	85.8	309,900		26	77.3	95.6	272,500		27	78.0	105.6	256,700		29	78.0	115.4	229,600	
25	76.4	85.6	290,500		27	76.6	95.4	257,100		28	77.4	105.4	242,900		30	77.5	115.2	218,400	
26	75.6	85.3	273,300		28	76.0	95.1	243,400		29	76.8	105.2	230,500		32	76.4	114.7	198,700	
27	74.9	85.0	258,000		29	75.3	94.9	230,900		30	76.2	104.9	219,200		34	75.3	114.2	182,100	
28	74.2	84.8	244,200		30	74.6	94.6	219,700		32	75.0	104.4	199,500		36	74.3	113.7	167,900	
29	73.4	84.5	231,800		32	73.3	94.0	200,000		34	73.8	103.9	182,900		38	73.2	113.1	155,600	
30	72.7	84.2	220,500		34	72.0	93.4	183,400		36	72.6	103.2	168,700		40	72.1	112.5	144,900	
32	71.2	83.5	200,800		36	70.6	92.7	169,200		38	71.4	102.6	156,500		45	69.3	110.7	123,300	
34	69.6	82.8	184,300		38	69.3	92.0	157,000		40	70.2	101.9	145,800		50	66.5	108.7	106,900	
36	68.1	82.0	170,100		40	67.9	91.2	146,300		45	67.1	100.0	124,200		55	63.6	106.4	94,000	
38	66.6	81.2	157,900		45	64.4	89.0	124,700		50	64.0	97.7	107,800		60	60.7	103.7	83,600	
40	65.0	80.3	147,200		50	60.9	86.4	108,300		55	60.8	95.1	94,900		65	57.7	100.7	75,100	
45	61.0	77.7	125,600		55	57.1	83.4	95,400		60	57.4	92.1	84,500		70	54.5	97.4	67,900	
50	56.8	74.7	109,200		60	53.3	79.9	85,000		65	54.0	88.7	76,000		75	51.3	93.6	61,800	
55	52.4	71.2	96,300		65	49.2	75.9	76,500		70	50.3	84.8	68,800		80	47.8	89.3	56,600	
60	47.7	67.0	85,900		70	44.8	71.2	69,300		75	46.5	80.3	62,700		85	44.2	84.5	52,100	
65	42.7	62.0	77,400		75	40.1	65.8	63,300		80	42.4	75.2	57,500		90	40.3	79.0	48,100	
70	37.1	56.0	70,200		80	34.9	59.3	58,000		85	38.0	69.3	53,000		95	36.1	72.7	44,500	
75	30.6	48.6	64,200		85	28.8	53.2	53,500		90	33.0	62.3	49,000		100	31.5	65.2	41,400	
80	22.6	38.6	58,900		90	21.3	40.5	49,500		95	27.3	53.7	45,400		105	26.0	56.1	38,600	
										100	20.2	42.4	42,300		110	19.3	44.1	36,000	

Capacities continued
on reverse side.



SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
24	81.5	126.3	307,800		29	81.2	156.1	227,500		34	81.1	185.6	178,300		36	81.4	205.6	163,000	
25	81.0	126.3	288,400		30	80.9	155.9	216,200		36	80.5	185.3	164,100		36	80.8	205.3	150,700	
26	80.5	126.2	271,200		32	80.1	155.6	196,500		38	79.8	185.0	151,800		40	80.3	204.9	140,000	
27	80.0	126.0	255,800		34	79.3	155.2	179,900		40	79.2	184.6	141,100		45	78.8	204.0	118,300	
28	79.5	125.8	242,000		36	78.5	154.8	165,700		45	77.5	183.6	119,400		50	77.3	202.9	101,900	
29	79.0	125.6	229,600		38	77.7	154.4	153,400		50	75.9	182.4	103,000		55	75.9	201.7	88,900	
30	78.5	125.4	218,300		40	77.0	153.9	142,700		55	74.3	181.1	90,100		60	74.4	200.4	78,500	
32	77.6	125.0	198,600		45	75.0	152.7	121,000		60	72.6	179.6	79,700		65	72.9	199.0	70,000	
34	76.6	124.5	182,000		50	73.0	151.3	104,600		65	70.9	177.9	71,100		70	71.4	197.3	62,800	
36	75.6	124.0	167,800		55	71.0	149.6	91,700		70	69.2	176.1	63,900		75	69.9	195.6	56,700	
38	74.6	123.5	155,600		60	69.0	147.8	81,300		75	67.5	174.1	57,800		80	68.3	193.7	51,500	
40	73.6	122.9	144,800		65	66.9	145.8	72,700		80	65.8	172.0	52,600		85	66.8	191.6	46,900	
45	71.1	121.3	123,200		70	64.8	143.5	65,600		85	64.0	169.6	48,000		90	65.2	189.4	42,900	
50	68.6	119.5	106,800		75	62.7	141.1	59,500		90	62.2	167.1	44,000		95	63.6	187.0	39,400	
55	66.0	117.4	93,900		80	60.5	138.4	54,200		95	60.4	164.4	40,500		100	62.0	184.4	36,200	
60	63.3	115.0	83,500		85	58.3	135.4	49,700		100	58.6	161.4	37,400		105	60.4	181.7	33,400	
65	60.6	112.4	75,000		90	56.0	132.2	45,700		105	56.7	158.2	34,500		110	58.7	178.7	30,800	
70	57.9	109.4	67,800		95	53.7	128.7	42,200		110	54.8	154.8	32,000		115	57.0	175.6	28,500	
75	55.0	106.1	61,700		100	51.3	124.8	39,000		115	52.8	151.2	29,700		120	55.3	172.2	26,400	
80	52.0	102.4	56,500		105	48.8	120.6	36,200		120	50.8	147.2	27,600		125	53.5	168.7	24,500	
85	48.9	98.3	52,000		110	46.2	116.1	33,700		125	48.7	143.0	25,700		130	51.7	164.9	22,800	
90	45.7	93.7	48,000		115	43.5	111.0	31,400		130	46.5	138.4	23,900		135	49.9	160.8	21,100	
95	42.2	88.5	44,500		120	40.6	105.5	29,300		135	44.3	133.5	22,300		140	48.0	156.4	19,600	
100	38.6	82.6	41,300		125	37.6	99.3	27,300		140	42.0	128.2	20,800		145	46.0	151.8	18,200	
105	34.6	75.9	38,500		130	34.4	92.5	25,600		145	39.5	122.4	19,400		150	44.0	146.8	17,000	
110	30.1	68.0	36,000		135	30.8	84.6	24,000		150	37.0	116.0	18,100		155	41.9	141.4	15,800	
115	24.9	58.4	33,700		140	26.8	75.5	22,500		155	34.2	109.0	16,900		160	39.7	135.6	14,600	
120	18.4	45.8	31,600		145	22.2	64.6	21,100		160	31.3	101.3	15,800		165	37.4	129.3	13,600	
26	81.2	136.3	270,400		150	16.5	50.4	19,800		165	28.1	92.5	14,700		170	35.0	122.5	12,600	
27	80.8	136.1	255,100		30	81.4	166.0	216,000		170	24.5	82.4	13,800		175	32.4	115.0	11,700	
28	80.3	136.0	241,300		32	80.7	165.7	196,300		175	20.3	70.2	12,800		180	29.6	106.7	10,800	
29	79.9	135.8	228,800		34	80.0	165.4	179,600		180	15.0	54.5	12,000		185	26.6	97.3	10,000	
30	79.4	135.6	217,500		36	79.3	165.0	165,400		36	81.0	195.4	163,400		190	23.2	86.6	9,200	
32	78.5	135.2	197,800		38	78.5	164.6	153,200		38	80.4	195.1	151,100		195	19.2	73.7	8,500	
34	77.6	134.8	181,200		40	77.8	164.2	142,400		40	79.7	194.8	140,300		38	81.3	215.4	150,000	
36	76.7	134.3	167,000		45	76.0	163.0	120,800		45	78.2	193.8	118,700		40	80.7	215.1	139,300	
38	75.8	133.8	154,800		50	74.1	161.7	104,300		50	76.7	192.7	102,200		45	79.3	214.2	117,600	
40	74.9	133.3	144,000		55	72.2	160.2	91,400		55	75.1	191.4	89,300		50	78.0	213.2	101,100	
45	72.6	131.9	122,400		60	70.3	158.5	81,000		60	73.5	190.0	78,900		55	76.6	212.0	88,200	
50	70.3	130.2	106,000		65	68.4	156.6	72,500		65	72.0	188.5	70,300		60	75.1	210.8	77,800	
55	67.9	128.3	93,100		70	66.5	154.5	65,300		70	70.4	186.8	63,100		65	73.7	209.4	69,200	
60	65.5	126.1	82,700		75	64.5	152.2	59,200		75	68.8	184.9	57,000		70	72.3	207.9	62,000	
65	63.1	123.7	74,100		80	62.5	149.7	54,000		80	67.1	182.9	51,800		75	70.9	206.2	55,900	
70	60.6	121.1	67,000		85	60.5	147.0	49,500		85	65.5	180.7	47,200		80	69.4	204.4	50,700	
75	58.0	118.1	60,900		90	58.4	144.1	45,500		90	63.8	178.3	43,200		85	68.0	202.4	46,100	
80	55.4	114.8	55,700		95	56.3	140.9	41,900		95	62.1	175.8	39,700		90	66.5	200.3	42,100	
85	52.7	111.2	51,100		100	54.1	137.4	38,800		100	60.4	173.0	36,600		95	65.0	198.1	38,600	
90	49.8	107.2	47,100		105	51.9	133.6	36,000		105	58.7	170.1	33,700		100	63.5	195.7	35,400	
95	46.9	102.7	43,600		110	49.5	129.5	33,400		110	56.9	166.9	31,200		105	61.9	193.1	32,600	
100	43.8	97.8	40,500		115	47.1	125.1	31,100		115	55.1	163.5	28,900		110	60.4	190.3	30,100	
105	40.5	92.3	37,600		120	44.6	120.2	29,000		120	53.2	159.9	26,800		115	58.8	187.4	27,800	
110	37.0	86.0	35,100		125	42.0	114.9	27,100		125	51.3	156.1	24,900		120	57.2	184.3	25,700	
115	33.2	78.9	32,800		130	39.3	109.1	25,300		130	49.3	151.9	23,100		125	55.5	180.9	23,700	
120	28.9	70.6	30,700		135	36.4	102.7	23,700		135	47.3	147.5	21,500		130	53.9	177.4	22,000	
125	23.9	60.5	28,800		140	33.2	95.5	22,200		140	45.2	142.7	20,000		135	52.2	173.6	20,400	
130	17.7	47.4	27,000		145	29.8	87.3	20,800		145	43.1	137.5	18,600		140	50.4	169.6	18,900	
27	81.4	146.2	254,500		150	26.0	77.9	19,500		150	40.8	131.9	17,300		145	48.6	165.4	17,500	
28	81.0	146.1	240,700		155	21.5	66.5	18,300		155	38.4	125.9	16,100		150	46.8	160.8	16,200	
29	80.6	145.9	228,300		160	16.0	51.8	17,200		160	35.9	119.3	15,000		155	44.9	156.0	15,000	
30	80.2	145.8	217,000		32	81.3	175.8	195,500		165	33.3	112.1	13,900		160	42.9	150.8	13,800	
32	79.4	145.4	197,300		34	80.6	175.5	178,900		170	30.4	104.0	12,900		165	40.9	145.2	12,800	
34	78.5	145.0	180,700		36	79.9	175.2	164,700		175	27.3	95.0	12,000		170	38.7	139.2	11,800	
36	77.7	144.6	166,500		38	79.2	174.8	152,400		180	23.8	84.5	11,100		175	36.5	132.7	10,900	
38	76.9	144.1	154,200		40	78.5	174.4	141,700		185	19.7	72.0	10,300		180	34.1	125.6	10,000	
40	76.0	143.7	143,500		45	76.8	173.3	120,000		45	75.1	172.1	103,600		185	31.6	117.9	9,200	
45	73.9	142.3	121,800		50	75.1	172.1	103,600		55	73.3	170.6	90,700		190	28.9	109.3	8,400	
50	71.8	140.8	105,400		60	71.5	169.1	80,300		60	71.5	169.1	80,300		195	25.9	99.7	7,700	
55	69.6	139.0	92,500		65	69.8	167.3	71,700		65	69.8	167.3	71,700		200	22.6	88.6	7,000	
60	67.4	137.0	82,100		70	67.9	165.4	64,500		70	67.9	165.4	64,500		205	18.8	75.4	6,300	
65	65.2	134.8	73,600		75	66.1	163.2	58,400		75	66.1	163.2	58,400						
70	62.9	132.4	66,400		80	64.3	160.9	53,200		80	64.3								

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE CAPACITIES — 4600 SERIES-3
BOOM NO. 27 WITH OPEN THROAT TOP, CONT'D.****SEE CONDITIONS ON FRONT PAGE**

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
220	40	81.2	225.2	138,700	240	45	80.7	244.6	115,800	260	45	81.4	264.9	114,500
	45	79.8	224.3	117,000		50	79.5	243.8	99,400		50	80.3	264.1	98,000
	50	78.5	223.4	100,500		55	78.3	242.8	86,400		55	79.2	263.2	85,100
	55	77.2	222.3	87,600		60	77.0	241.7	76,000		60	78.1	262.2	74,600
	60	75.8	221.1	77,200		65	75.8	240.5	67,400		65	76.9	261.1	66,100
	65	74.5	219.8	68,600		70	74.6	239.2	60,200		70	75.8	259.8	58,900
	70	73.1	218.3	61,400		75	73.3	237.7	54,100		75	74.6	258.5	52,800
	75	71.8	216.8	55,300		80	72.1	236.2	48,900		80	73.5	257.1	47,500
	80	70.4	215.0	50,100		85	70.8	234.5	44,300		85	72.3	255.6	42,900
	85	69.0	213.2	45,500		90	69.6	232.7	40,300		90	71.2	253.9	38,900
220	90	67.6	211.2	41,500	240	95	68.3	230.8	36,800	260	95	70.0	252.2	35,400
	95	66.2	209.1	38,000		100	67.0	228.7	33,600		100	68.8	250.3	32,200
	100	64.8	206.8	34,800		105	65.7	226.5	30,800		105	67.7	248.3	29,400
	105	63.3	204.4	32,000		110	64.4	224.2	28,300		110	66.5	246.2	26,900
	110	61.8	201.8	29,400		115	63.0	221.7	25,900		115	65.3	243.9	24,600
	115	60.4	199.0	27,100		120	61.7	219.1	23,800		120	64.0	241.6	22,400
	120	58.8	196.1	25,000		125	60.3	216.3	21,900		125	62.8	239.1	20,500
	125	57.3	192.9	23,100		130	58.9	213.4	20,200		130	61.6	236.4	18,800
	130	55.7	189.6	21,300		135	57.5	210.3	18,500		135	60.3	233.6	17,100
	135	54.2	186.1	19,700		140	56.1	207.0	17,000		140	59.0	230.7	15,600
220	140	52.5	182.4	18,200	240	145	54.7	203.6	15,600	260	145	57.7	227.6	14,200
	145	50.9	178.5	16,800		150	53.2	199.9	14,400		150	56.4	224.4	12,900
	150	49.2	174.3	15,500		155	51.7	196.1	13,100		155	55.1	221.0	11,700
	155	47.4	169.8	14,300		160	50.1	192.0	12,000		160	53.7	217.4	10,600
	160	45.6	165.1	13,200		165	48.6	187.7	11,000		165	52.3	213.6	9,600
	165	43.8	160.0	12,200		170	46.9	183.2	10,000		170	50.9	209.7	8,600
	170	41.9	154.6	11,200		175	45.3	178.4	9,100		175	49.5	205.5	7,600
	175	39.9	148.9	10,200		180	43.6	173.3	8,200		180	48.0	201.1	6,800
	180	37.8	142.6	9,400		185	41.8	167.9	7,400		185	46.5	196.5	5,900
	185	35.6	135.9	8,500		190	40.0	162.1	6,600		190	45.0	191.7	5,200
220	190	33.3	128.7	7,800	240	195	38.1	155.9	5,800	260	195	43.4	186.5	4,400
	195	30.9	120.7	7,000		200	36.1	149.3	5,100					
	200	28.2	111.9	6,300		205	34.1	142.2	4,500					
	205	25.3	102.0	5,700										
	210	22.1	90.6	5,000										
	215	18.3	77.0	4,400										
	40	81.5	235.3	138,000		45	81.1	254.8	115,100					
	45	80.3	234.5	116,200		50	79.9	253.9	98,600					
	50	79.0	233.6	99,800		55	78.7	253.0	85,700					
	55	77.7	232.6	86,800		60	77.6	251.9	75,300					
230	60	76.5	231.4	76,400	250	65	76.4	250.8	66,700	260	70	75.2	249.5	59,500
	65	75.2	230.2	67,800		70	74.0	248.1	53,400		75	74.0	248.1	53,400
	70	73.9	228.8	60,600		75	72.8	246.7	48,100		80	72.8	246.7	48,100
	75	72.6	227.3	54,500		80	71.6	245.0	43,600		85	71.6	245.0	43,600
	80	71.3	225.6	49,300		85	70.4	243.3	39,600		90	70.4	243.3	39,600
	85	70.0	223.9	44,700		90	69.2	241.5	36,000		95	69.2	241.5	36,000
	90	68.6	222.0	40,700		100	68.0	239.5	32,900		100	68.0	239.5	32,900
	95	67.3	220.0	37,200		105	66.7	237.4	30,000		105	66.7	237.4	30,000
	100	65.9	217.8	34,000		110	65.5	235.2	27,500		110	65.5	235.2	27,500
	105	64.6	215.5	31,200		115	64.2	232.9	25,200		115	64.2	232.9	25,200
230	110	63.2	213.0	28,700		120	62.9	230.4	23,100		120	62.9	230.4	23,100
	115	61.8	210.4	26,300		125	61.6	227.8	21,200		125	61.6	227.8	21,200
	120	60.3	207.7	24,200		130	60.3	225.0	19,400		130	60.3	225.0	19,400
	125	58.9	204.7	22,300		135	59.0	222.0	17,800		135	59.0	222.0	17,800
	130	57.4	201.6	20,600		140	57.6	219.0	16,300		140	57.6	219.0	16,300
	135	55.9	198.3	18,900		145	56.3	215.7	14,900		145	56.3	215.7	14,900
	140	54.4	194.9	17,400		150	54.9	212.3	13,600		150	54.9	212.3	13,600
	145	52.9	191.2	16,000		155	53.5	208.7	12,400		155	53.5	208.7	12,400
	150	51.3	187.3	14,700		160	52.0	204.9	11,300		160	52.0	204.9	11,300
	155	49.7	183.2	13,500		165	50.6	200.9	10,200		165	50.6	200.9	10,200
230	160	48.0	178.8	12,400		170	49.1	196.6	9,200		170	49.1	196.6	9,200
	165	46.3	174.2	11,400		175	47.5	192.2	8,300		175	47.5	192.2	8,300
	170	44.6	169.2	10,400		180	45.9	187.5	7,400		180	45.9	187.5	7,400
	175	42.8	164.0	9,500		185	44.3	182.5	6,600		185	44.3	182.5	6,600
	180	40.9	158.4	8,600		190	42.7	177.2	5,800		190	42.7	177.2	5,800
	185	39.0	152.4	7,800		195	40.9	171.6	5,100		195	40.9	171.6	5,100
	190	36.9	146.0	7,000		200	39.2	165.7	4,400		200	39.2	165.7	4,400
	195	34.8	139.1	6,200										
	200	32.6	131.6	5,500										
	205	30.2	123.4	4,900										
	210	27.6	114.3	4,200										

Combined From Charts:

No. 6722-A 2-20-84

No. 6721-A 2-20-84

No. 6444-A 2-20-84

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