

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES

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 LIFTCRANE 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	ONE SHEAVE POINT	1,200 LBS.	30'	3,000 LBS.
260'	---	260'	---	TWO SHEAVE POINT	1,500 LBS.	40'	3,600 LBS.
250'	---	250'	---	TO COMPLY WITH B30.5 REQUIREMENTS, UPPER BOOM POINT CANNOT BE USED ON 260' BOOM.		50'	4,200 LBS.
240'	40'	240'	40'			60'	4,900 LBS.
230'	60'	230'	60'			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	82.4	76.1	420,000*
	17	82.0	76.0	398,900*
	18	81.2	75.8	380,100*
	19	80.3	75.6	363,000*
	20	79.5	75.4	347,300*
	22	77.8	74.9	319,600*
	24	76.1	74.3	293,400*
	26	74.4	73.7	266,100
	28	72.7	73.0	237,500
	30	71.0	72.3	214,300
	32	69.2	71.4	195,100
	34	67.4	70.5	178,900
	36	65.6	69.5	165,200
	38	63.7	68.5	153,300
	40	61.8	67.3	143,000
	45	57.0	64.0	122,100
	50	51.8	60.1	106,300
	55	46.1	55.3	93,900
	60	39.8	49.4	84,000
	65	32.4	41.8	75,800
	70	22.7	31.1	63,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
80	17	83.0	86.2	315,400*
	18	82.3	86.0	309,400*
	19	81.6	85.8	303,600*
	20	80.8	85.6	298,200*
	22	79.4	85.2	288,000*
	24	77.9	84.7	278,700*
	26	76.4	84.2	265,600*
	28	74.9	83.6	237,000
	30	73.4	82.9	213,800
	32	71.9	82.2	194,600
	34	70.4	81.4	178,500
	36	68.8	80.6	164,700
	38	67.3	79.7	152,800
	40	65.7	78.7	142,400
	45	61.6	76.0	121,500
	50	57.4	72.7	105,700
	55	52.9	68.9	93,300
	60	48.1	64.5	83,400
	65	42.9	59.1	75,200
	70	37.0	52.6	68,300
	75	30.1	44.4	62,500
	80	21.0	32.7	53,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
90	19	82.5	96.0	276,700*
	20	81.9	95.8	271,500*
	22	80.6	95.4	261,800*
	24	79.3	95.0	252,900*
	26	78.0	94.5	244,800*
	28	76.7	94.0	236,600
	30	75.3	93.4	213,400
	32	74.0	92.8	194,200
	34	72.7	92.1	178,000
	36	71.3	91.4	164,200
	38	69.9	90.6	152,300
	40	68.6	89.7	142,000
	45	65.1	87.4	121,100
	50	61.4	84.6	105,200
	55	57.7	81.4	92,800
	60	53.7	77.8	82,900
	65	49.5	73.5	74,700
	70	45.1	68.5	67,800
	75	40.2	62.7	62,000
	80	34.7	55.6	57,000
	85	28.2	46.8	52,600
	90	19.7	34.3	45,900*

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
OFFSET 4-1/2 DEGREES
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	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
100	20	82.7	105.9	258,300*	120	80	52.4	100.1	55,300	150	28	82.1	155.3	185,600*
	22	81.5	105.6	248,700*		85	49.2	95.8	51,000		30	81.3	154.9	179,600*
	24	80.4	105.2	240,100*		90	45.9	91.0	47,200		32	80.5	154.6	174,000*
	26	79.2	104.8	232,100*		95	42.4	85.6	43,800		34	79.7	154.2	168,800*
	28	78.0	104.3	224,800*		100	38.6	79.4	40,800		36	79.0	153.8	161,600*
	30	76.8	103.8	212,900		105	34.4	72.2	38,100		38	78.2	153.3	149,600
	32	75.7	103.2	193,700		110	29.7	63.7	35,700		40	77.4	152.8	139,200
	34	74.5	102.6	177,500		115	24.1	53.2	33,500		45	75.4	151.5	118,200
	36	73.3	102.0	163,700							50	73.4	150.0	102,400
	38	72.0	101.3	151,800							55	71.4	148.3	89,900
110	40	70.8	100.5	141,400	130	24	82.6	135.7	212,700*		60	69.4	146.4	79,900
	45	67.7	98.5	120,500		26	81.7	135.3	205,300*		65	67.3	144.3	71,700
	50	64.6	96.0	104,700		28	80.8	135.0	198,600*		70	65.2	141.9	64,800
	55	61.3	93.3	92,300		30	79.9	134.6	192,300*		75	63.0	139.4	59,000
	60	57.9	90.1	82,300		32	79.0	134.2	186,500*		80	60.9	136.6	53,900
	65	54.4	86.5	74,100		34	78.1	133.7	176,300		85	58.6	133.5	49,600
	70	50.7	82.4	67,200		36	77.2	133.2	162,500		90	56.3	130.2	45,700
	75	46.8	77.7	61,400		38	76.3	132.7	150,600		95	54.0	126.5	42,400
	80	42.6	72.3	56,400		40	75.4	132.1	140,200		100	51.5	122.5	39,400
	85	38.0	66.0	52,000		45	73.1	130.6	119,300		105	49.0	118.2	36,700
	90	32.8	58.5	48,200		50	70.8	128.8	103,400		110	46.4	113.4	34,200
	95	26.6	49.0	44,900		55	68.4	126.8	91,000		115	43.6	108.2	32,000
	100	18.6	35.8	39,300*		60	66.0	124.6	81,000		120	40.7	102.4	30,000
120	22	82.3	115.7	240,500*		65	63.5	122.0	72,800		125	37.6	96.0	28,200
	24	81.3	115.4	232,100*		70	61.0	119.2	65,900		130	34.2	88.8	26,500
	26	80.2	115.0	224,400*		75	58.4	116.2	60,000		135	30.5	80.5	25,000
	28	79.1	114.6	217,300*		80	55.7	112.7	55,000		140	26.4	70.8	23,500
	30	78.1	114.1	210,700*		85	53.0	109.0	50,700		145	21.4	58.8	22,200
	32	77.0	113.6	193,300		90	50.1	104.8	46,800	160	28	82.6	165.4	179,800*
	34	75.9	113.1	177,100		95	47.1	100.1	43,500		30	81.8	165.1	173,900*
	36	74.8	112.5	163,300		100	43.9	95.0	40,500		32	81.1	164.7	168,400*
	38	73.7	111.8	151,400		105	40.6	89.2	37,800		34	80.4	164.4	163,300*
	40	72.6	111.2	141,000		110	36.9	82.6	35,300		36	79.7	164.0	158,600*
	45	69.9	109.3	120,100		115	33.0	75.1	33,100		38	78.9	163.6	149,100
	50	67.0	107.2	104,200		120	28.5	66.2	31,100		40	78.2	163.1	138,700
	55	64.1	104.7	91,800		125	23.1	55.1	29,300		45	76.3	161.9	117,700
	60	61.2	101.9	81,800	140	26	82.3	145.5	198,400*		50	74.5	160.5	101,800
	65	58.1	98.8	73,600		28	81.5	145.1	191,800*		55	72.6	158.9	89,300
	70	54.9	95.3	66,800		30	80.7	144.8	185,600*		60	70.7	157.1	79,300
	75	51.6	91.3	60,900		32	79.8	144.4	179,900*		65	68.8	155.1	71,100
	80	48.1	86.8	55,900		34	79.0	144.0	174,700*		70	66.8	153.0	64,200
	85	44.4	81.7	51,600		36	78.1	143.5	162,000		75	64.9	150.6	58,400
	90	40.4	75.9	47,800		38	77.3	143.0	150,100		80	62.9	148.0	53,300
	95	36.1	69.2	44,400		40	76.5	142.5	139,700		85	60.8	145.2	49,000
	100	31.1	61.1	41,400		45	74.3	141.1	118,700		90	58.7	142.2	45,100
	105	25.3	51.1	38,700		50	72.2	139.4	102,800		95	56.6	138.9	41,800
	110	17.6	37.2	33,900*		55	70.0	137.6	90,400		100	54.4	135.3	38,700
130	22	83.0	125.9	228,700*		60	67.8	135.5	80,400		105	52.1	131.4	36,000
	24	82.0	125.5	220,500*		65	65.6	133.2	72,200		110	49.7	127.1	33,600
	26	81.0	125.2	213,000*		70	63.3	130.7	65,300		115	47.3	122.5	31,400
	28	80.0	124.8	206,100*		75	60.9	127.9	59,500		120	44.8	117.5	29,400
	30	79.1	124.4	199,700*		80	58.5	124.8	54,400		125	42.1	112.0	27,600
	32	78.1	123.9	192,800		85	56.1	121.4	50,100		130	39.3	105.9	25,900
	34	77.1	123.4	176,600		90	53.5	117.7	46,200		135	36.3	99.2	24,300
	36	76.1	122.9	162,800		95	50.9	113.7	42,900		140	33.1	91.7	22,900
	38	75.1	122.3	150,900		100	48.1	109.2	39,900		145	29.5	83.1	21,600
	40	74.1	121.7	140,500		105	45.3	104.2	37,200		150	25.5	72.9	20,400
	45	71.6	120.0	119,500		110	42.2	98.8	34,700		155	20.7	60.5	19,200*
	50	69.1	118.1	103,700		115	39.0	92.7	32,500					
	55	66.5	115.9	91,300		120	35.5	85.8	30,500					
	60	63.8	113.4	81,300		125	31.7	77.8	28,700					
	65	61.1	110.6	73,100		130	27.4	68.5	27,000					
	70	58.3	107.5	66,200		135	22.2	57.0	25,500					
	75	55.4	104.0	60,400										

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES

146,400 LB. CRANE COUNTERWEIGHT

60,000 LB. CARBODY COUNTERWEIGHT

26'6" CRAWLERS EXTENDED

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
170	30	82.3	175.2	169,000*
	32	81.6	174.9	163,600*
	34	81.0	174.5	158,700*
	36	80.3	174.2	154,000*
	38	79.6	173.8	148,800
	40	78.9	173.4	138,400
	45	77.2	172.2	117,400
	50	75.4	170.9	101,500
	55	73.7	169.4	89,100
	60	71.9	167.7	79,000
	65	70.1	165.9	70,800
	70	68.3	163.9	63,900
	75	66.4	161.7	58,100
	80	64.6	159.3	53,000
	85	62.7	156.7	48,700
	90	60.8	153.9	44,900
180	95	58.8	150.8	41,500
	100	56.8	147.5	38,500
	105	54.7	144.0	35,800
	110	52.6	140.2	33,300
	115	50.4	136.0	31,100
	120	48.1	131.6	29,100
	125	45.8	126.7	27,300
	130	43.3	121.4	25,600
	135	40.8	115.7	24,100
	140	38.1	109.3	22,600
	145	35.2	102.3	21,300
	150	32.0	94.5	20,100
	155	28.6	85.5	18,900
	160	24.7	75.1	17,800
	165	20.0	62.2	16,400*
	32	82.1	185.0	158,700*
	34	81.5	184.7	154,000*
	36	80.8	184.3	149,500*
	38	80.2	184.0	145,200*
	40	79.5	183.6	137,900
	45	77.9	182.5	116,900
	50	76.3	181.2	101,000
	55	74.6	179.8	88,500
	60	72.9	178.3	78,500
	65	71.3	176.6	70,300
	70	69.6	174.7	63,400
	75	67.8	172.6	57,500
	80	66.1	170.4	52,500
	85	64.3	168.0	48,100
	90	62.5	165.4	44,300
	95	60.7	162.5	40,900
	100	58.9	159.5	37,900
	105	57.0	156.2	35,200
	110	55.0	152.7	32,700
	115	53.0	149.0	30,500
	120	51.0	144.9	28,500
	125	48.9	140.5	26,700
	130	46.7	135.8	25,000
	135	44.4	130.7	23,500
	140	42.0	125.2	22,000
	145	39.6	119.2	20,700
	150	36.9	112.6	19,500
	155	34.1	105.3	18,300
	160	31.1	97.2	17,200
	165	27.7	87.9	16,200
	170	23.9	77.1	15,300
	175	19.4	63.8	13,500*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
190	32	82.5	195.1	153,100*
	34	81.9	194.8	148,800*
	36	81.3	194.5	144,800*
	38	80.7	194.1	140,800*
	40	80.1	193.8	137,000*
	45	78.5	192.7	116,400
	50	77.0	191.6	100,500
	55	75.4	190.2	88,000
	60	73.9	188.8	78,000
	65	72.3	187.2	69,700
	70	70.7	185.4	62,800
	75	69.1	183.5	57,000
	80	67.4	181.4	52,000
	85	65.8	179.1	47,600
	90	64.1	176.6	43,800
	95	62.4	174.0	40,400
200	100	60.7	171.2	37,400
	105	58.9	168.2	34,700
	110	57.1	164.9	32,200
	115	55.3	161.5	30,000
	120	53.4	157.7	28,000
	125	51.5	153.7	26,200
	130	49.5	149.5	24,500
	135	47.5	144.9	22,900
	140	45.3	140.0	21,500
	145	43.1	134.7	20,200
	150	40.8	128.9	18,900
	155	38.4	122.6	17,800
	160	35.9	115.8	16,700
	165	33.2	108.3	15,700
	170	30.2	99.8	14,800
	175	27.0	90.3	13,900
210	180	23.3	79.1	13,100
	185	18.9	65.4	11,000*
	34	82.3	204.9	143,100*
	36	81.7	204.6	139,500*
	38	81.2	204.3	136,000*
	40	80.6	203.9	132,500*
	45	79.1	203.0	115,900
	50	77.7	201.8	100,000
	55	76.2	200.6	87,500
	60	74.7	199.2	77,400
	65	73.2	197.7	69,200
	70	71.7	196.0	62,300
	75	70.2	194.2	56,400
	80	68.6	192.2	51,400
	85	67.1	190.1	47,000
	90	65.5	187.8	43,200
	95	63.9	185.3	39,800
	100	62.3	182.7	36,800
	105	60.6	179.9	34,100
	110	59.0	176.8	31,600
	115	57.3	173.6	29,400
	120	55.5	170.2	27,400
	125	53.8	166.5	25,600
	130	51.9	162.6	23,900
	135	50.1	158.4	22,300
	140	48.1	153.9	20,900
	145	46.2	149.1	19,600
	150	44.1	144.0	18,300
	155	42.0	138.4	17,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	160	39.7	132.5	16,100
	165	37.4	126.0	15,100
	170	34.9	118.9	14,200
	175	32.3	111.1	13,300
	180	29.4	102.4	12,400
	185	26.2	92.5	11,700
	190	22.6	81.0	10,900
	195	18.4	67.0	8,500*
	36	82.1	214.7	134,200*
	38	81.6	214.4	131,000*
	40	81.0	214.1	127,900*
	45	79.6	213.2	115,500
	50	78.3	212.1	99,600
	55	76.9	210.9	87,100
	60	75.4	209.6	77,100
	65	74.0	208.2	68,800
	70	72.6	206.6	61,900
	75	71.2	204.8	56,100
	80	69.7	203.0	51,000
	85	68.2	201.0	46,700*
	90	66.7	198.8	42,800
	95	65.2	196.5	39,400
	100	63.7	194.0	36,400
210	105	62.2	191.3	33,700
	110	60.6	188.5	31,300
	115	59.0	185.5	29,100
	120	57.4	182.3	27,100
	125	55.7	178.9	25,200
	130	54.1	175.2	23,500
	135	52.3	171.4	22,000
	140	50.6	167.3	20,600
	145	48.8	162.9	19,200
	150	46.9	158.2	18,000
	155	45.0	153.2	16,800
	160	43.0	147.9	15,800
	165	40.9	142.1	14,800
	170	38.7	135.9	13,800
	175	36.5	129.2	12,900
	180	34.0	121.9	12,100
	185	31.5	113.9	11,300
	190	28.7	104.9	10,600
	195	25.6	94.8	9,900
	200	22.1	82.9	8,800*
	205	17.9	68.5	6,500*

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES

146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT

26'6" CRAWLERS EXTENDED

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
220	38	82.0	224.6	125,700*	230	175	42.8	161.1	11,800	250	125	61.8	226.0	23,200
	40	81.4	224.2	122,800*		180	40.9	155.4	11,000		130	60.5	223.1	21,500
	45	80.1	223.3	115,000		185	39.0	149.2	10,200		135	59.2	220.2	20,000
	50	78.8	222.3	99,100		190	36.9	142.6	9,400		140	57.8	217.0	18,500
	55	77.5	221.2	86,600		195	34.7	135.5	8,700		145	56.4	213.7	17,200
	60	76.1	220.0	76,600		200	32.4	127.7	8,100		150	55.1	210.2	16,000
	65	74.8	218.6	68,300		205	30.0	119.2	7,400		155	53.6	206.5	14,800
	70	73.4	217.1	61,400		210	27.3	109.7	6,800*		160	52.2	202.6	13,700
	75	72.0	215.4	55,500		215	24.4	99.0	6,100*		165	50.7	198.5	12,700
	80	70.7	213.7	50,500		220	21.0	86.6	4,400*		170	49.2	194.2	11,800
	85	69.3	211.8	46,100	240	40	82.2	244.5	111,700*		175	47.6	189.6	10,900
	90	67.9	209.7	42,300		45	81.0	243.7	106,300*		180	46.0	184.8	10,100
	95	66.4	207.5	38,900		50	79.7	242.7	98,100		185	44.4	179.7	9,300
	100	65.0	205.2	35,800		55	78.5	241.7	85,600		190	42.7	174.3	8,500
	105	63.6	202.7	33,100		60	77.3	240.6	75,600		195	41.0	168.6	7,800*
	110	62.1	200.0	30,700		65	76.1	239.3	67,300		200	39.2	162.5	7,000*
	115	60.6	197.2	28,500		70	74.8	237.9	60,400		205	37.3	156.0	6,200*
	120	59.1	194.2	26,500		75	73.6	236.5	54,500		210	35.3	149.0	5,500*
	125	57.5	191.0	24,600		80	72.3	234.9	49,500		215	33.3	141.4	4,800*
	130	55.9	187.6	23,000		85	71.1	233.1	45,100		220	31.1	133.3	4,100*
	135	54.3	184.0	21,400		90	69.8	231.3	41,200	260	45	81.7	263.9	96,500*
	140	52.7	180.2	20,000		95	68.5	229.3	37,800		50	80.5	263.1	92,300*
	145	51.0	176.1	18,600		100	67.2	227.2	34,800		55	79.4	262.1	84,700
	150	49.3	171.8	17,400		105	65.9	224.9	32,100		60	78.3	261.1	74,700
	155	47.6	167.3	16,300		110	64.6	222.5	29,700		65	77.2	259.9	66,400
	160	45.7	162.4	15,200		115	63.3	220.0	27,400		70	76.0	258.7	59,500
	165	43.9	157.2	14,200		120	61.9	217.3	25,400		75	74.9	257.3	53,600
	170	41.9	151.7	13,200		125	60.5	214.5	23,600		80	73.7	255.8	48,500
	175	39.9	145.7	12,300		130	59.1	211.5	21,900		85	72.6	254.3	44,100
	180	37.8	139.3	11,500		135	57.7	208.3	20,300		90	71.4	252.6	40,300
230	185	35.6	132.4	10,700		140	56.3	205.0	18,900		95	70.3	250.8	36,900
	190	33.2	124.9	10,000		145	54.8	201.5	17,600		100	69.1	248.8	33,900
	195	30.7	116.6	9,300		150	53.3	197.7	16,300		105	67.9	246.8	31,100
	200	28.0	107.3	8,600		155	51.8	193.8	15,200		110	66.7	244.6	28,700
	205	25.0	96.9	8,000		160	50.3	189.6	14,100		115	65.5	242.3	26,500
	210	21.5	84.8	6,500*		165	48.7	185.2	13,100		120	64.2	239.9	24,500
	215	17.5	70.0	4,400*		170	47.1	180.6	12,200		125	63.0	237.3	22,600
	38	82.3	234.7	119,600*		175	45.4	175.7	11,300		130	61.8	234.6	20,900
	40	81.8	234.4	117,100*		180	43.7	170.5	10,400		135	60.5	231.8	19,400
	45	80.6	233.5	111,200*		185	41.9	164.9	9,600		140	59.2	228.8	17,900
	50	79.3	232.6	98,600		190	40.0	159.0	8,900		145	57.9	225.7	16,600
	55	78.0	231.5	86,100		195	38.1	152.6	8,200		150	56.6	222.4	15,400
	60	76.7	230.3	76,100		200	36.1	145.8	7,500*		155	55.2	218.9	14,200
	65	75.4	229.0	67,800		205	34.0	138.5	6,700*		160	53.9	215.2	13,100
	70	74.2	227.5	60,900		210	31.7	130.5	6,000*		165	52.5	211.4	12,100
	75	72.9	226.0	55,000		215	29.3	121.8	5,300*		170	51.1	207.4	11,200
	80	71.5	224.3	50,000		220	26.7	112.1	4,700*		175	49.6	203.1	10,300
	85	70.2	222.5	45,600		225	23.8	101.1	4,000*		180	48.2	198.6	9,500
	90	68.9	220.5	41,700	250	45	81.3	253.8	101,500*		185	46.6	193.9	8,700
	95	67.5	218.4	38,400		50	80.2	252.9	96,900*		190	45.1	188.9	7,900*
	100	66.2	216.2	35,300		55	79.0	251.9	85,200		195	43.5	183.7	7,000*
	105	64.8	213.9	32,600		60	77.8	250.8	75,200		200	41.8	178.1	6,200*
	110	63.4	211.3	30,200		65	76.6	249.6	66,900		205	40.1	172.2	5,400*
	115	62.0	208.7	28,000		70	75.5	248.3	60,000		210	38.4	165.9	4,700*
	120	60.6	205.8	26,000		75	74.3	246.9	54,100		215	36.5	159.2	4,000*
	125	59.1	202.8	24,100		80	73.1	245.4	49,100					
	130	57.6	199.6	22,400		85	71.9	243.7	44,700					
	135	56.1	196.3	20,900		90	70.6	241.9	40,800					
	140	54.6	192.7	19,400		95	69.4	240.1	37,400					
	145	53.0	189.0	18,100		100	68.2	238.0	34,400					
	150	51.5	185.0	16,900		105	66.9	235.9	31,700					
	155	49.8	180.7	15,700		110	65.7	233.6	29,300					
	160	48.2	176.3	14,700		115	64.4	231.2	27,100					
	165	46.4	171.5	13,600		120	63.1	228.7	25,000					
	170	44.7	166.5	12,700										