



# Liftcrane Boom Capacities

**76,300 lb Crane Counterweight**  
**14,300 lb Carbody Counterweight**  
**Extended Position Crawlers**  
**360 Degree Rating**

**Meets  
ASME B30.5  
Requirements**

**10000B-1**

**LIFTING CAPACITIES:**

1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, and multiple machine lifts).
2. Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk \* in the charts.
3. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
4. Do not attempt to lift where no radius on load chart is listed as crane may tip or collapse.
5. Weight of hooks, hook blocks, slings and other lifting devices beneath boom and jib point sheaves are part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
6. Load radius is horizontal distance from axis of rotation to center of gravity of the freely suspended load. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of radius. In all cases, operating radius shall govern capacity.
7. Least stable position is over the side.
8. Boom point elevation is vertical distance from ground level to centerline of boom point shaft.
9. In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 700 lb.

10. When lifting over boom point with jib or upper boom point, rated loads for the boom must be reduced as shown below.

Jib length	Upper Boom Point	30 ft	40 ft	50 ft	60 ft	70 ft
Deduct (lb)	700	2,400	3,200	4,200	5,200	6,200

11. Lifting capacities listed apply only to the machine as originally manufactured and designed. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
12. Machine travel with load (pick and carry).
  - A. Travel with crane upperworks in-line with crawlers. Grade in any direction must not exceed 1 percent (0.5 degrees).
  - B. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom, jib and rigging.

**Hoist Reeving for Upper Boom Point**

No. of Parts of Line	1	2
Maximum Loads (lb)	25,000	50,000

# Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



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### OPERATING CONDITION:

- The machine must be reeved and set-up as stated in the Operator Manual. If this manual is missing, obtain replacement.
  - Boom backstops are required for all boom lengths.
  - Gantry must be fully raised position for all operation.
  - Crawlers must be fully extended and be locked in position.
  - The crane must be leveled to within 1% on a firm supporting surface.
  - Refer to operator manual for operating guidelines.
- The total load that can be lifted over a jib is limited by the rated jib loads.

- See Operator Manual Section 6 for Wire Rope Specifications.
- Machine equipped with 22 ft 3 in crawlers, 36 in treads, 10 parts of boom hoist reeving. 76,300 lb crane counterweight and 14,300 lb carbody counterweight.

#### Hoist Reeving for Main Boom Loads

No. of Parts of Line	1	2	3	4
Maximum Loads (lb)	25,000	50,000	75,000	100,000

No. of Parts of Line	5	6	7	8
Maximum Loads (lb)	125,000	150,000	175,000	200,000

Maximum Boom and Jib Lengths Lifted Unassisted	
Over End of Crawlers	
Boom Length	Jib Length
230 ft (a)	—
200 ft	70 ft
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 230 ft boom. Jibs can only be mounted on 90 ft to 200 ft booms.	

**Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.**



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## 10000B-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>60 ft Boom</b>			
13.5	81.4	66.4	200,000 *
14.0	80.9	66.3	200,000 *
15.0	79.9	66.1	190,000 *
16.0	78.9	65.9	177,000 *
17.0	78.0	65.7	163,000 *
18.0	77.0	65.5	150,000 *
19.0	76.0	65.2	142,100 *
20.0	75.0	64.9	135,000 *
22.0	73.0	64.3	122,700 *
24.0	71.0	63.7	111,700
26.0	69.0	62.9	99,200
28.0	66.9	62.0	89,200
30.0	64.8	61.1	80,900
32.0	62.6	60.1	73,800
34.0	60.4	59.0	68,100
36.0	58.2	57.7	63,000
38.0	55.9	56.4	58,600
40.0	53.5	54.9	54,600
45.0	47.2	50.7	46,700
50.0	40.2	45.3	40,700
55.0	31.9	38.2	36,100
<b>70 ft Boom</b>			
15.0	81.4	76.3	190,000 *
16.0	80.5	76.1	177,000 *
17.0	79.7	75.9	163,000 *
18.0	78.9	75.7	150,000 *
19.0	78.0	75.5	142,100 *
20.0	77.2	75.3	135,000 *
22.0	75.5	74.8	122,700 *
24.0	73.8	74.2	111,700
26.0	72.1	73.5	99,200
28.0	70.3	72.8	89,000
30.0	68.6	72.1	80,600
32.0	66.8	71.2	73,800
34.0	65.0	70.3	67,900
36.0	63.2	69.3	62,800
38.0	61.3	68.2	58,400
40.0	59.4	67.0	54,400
45.0	54.5	63.7	46,500
50.0	49.2	59.6	40,500
55.0	43.5	54.8	35,900
60.0	37.1	48.7	32,100

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>80 ft Boom</b>			
16.5	81.4	86.2	171,000 *
17.0	81.0	86.1	163,000 *
18.0	80.3	85.9	150,000 *
19.0	79.6	85.7	142,100 *
20.0	78.8	85.5	135,000 *
22.0	77.4	85.1	122,400 *
24.0	75.9	84.6	111,500
26.0	74.4	84.0	98,900
28.0	72.9	83.4	88,800
30.0	71.4	82.7	80,400
32.0	69.9	82.0	73,400
34.0	68.3	81.2	67,400
36.0	66.8	80.4	62,300
38.0	65.2	79.5	57,900
40.0	63.6	78.5	54,200
45.0	59.5	75.7	46,200
50.0	55.2	72.4	40,100
55.0	50.7	68.5	35,400
60.0	45.8	64.0	31,700
65.0	40.5	58.5	28,600
70.0	34.6	51.9	26,000
<b>90 ft Boom</b>			
18.0	81.4	96.1	150,000 *
19.0	80.7	95.9	140,000 *
20.0	80.1	95.7	135,000 *
22.0	78.8	95.3	122,400 *
24.0	77.5	94.9	111,500
26.0	76.2	94.4	98,900
28.0	74.8	93.9	88,800
30.0	73.5	93.3	80,400
32.0	72.2	92.6	73,400
34.0	70.8	91.9	67,400
36.0	69.5	91.2	62,300
38.0	68.1	90.4	57,900
40.0	66.7	89.5	54,000
45.0	63.2	87.1	46,000
50.0	59.5	84.3	40,100
55.0	55.8	81.1	35,400
60.0	51.8	77.4	31,500
65.0	47.6	73.0	28,400
70.0	43.0	68.0	25,700
75.0	38.1	62.0	23,500
80.0	32.5	54.8	21,600

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>100 ft Boom</b>			
19.5	81.4	106.0	137,500 *
20.0	81.1	105.9	135,000 *
22.0	79.9	105.5	122,200 *
24.0	78.8	105.1	111,300
26.0	77.6	104.7	98,700
28.0	76.4	104.2	88,600
30.0	75.2	103.7	80,200
32.0	74.0	103.1	73,100
34.0	72.8	102.5	67,200
36.0	71.6	101.8	62,100
38.0	70.4	101.1	57,700
40.0	69.2	100.4	53,700
45.0	66.1	98.3	45,800
50.0	62.9	95.8	39,900
55.0	59.6	93.0	35,000
60.0	56.2	89.8	31,300
65.0	52.6	86.2	27,900
70.0	48.9	82.0	25,300
75.0	45.0	77.2	23,100
80.0	40.7	71.8	21,100
85.0	36.0	65.3	19,600
90.0	30.8	57.6	18,000

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### 10000B-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>110 ft Boom</b>			
20.9	81.4	115.9	128,600 *
22.0	80.8	115.7	122,000 *
24.0	79.8	115.3	111,300
26.0	78.7	114.9	98,500
28.0	77.7	114.5	88,400
30.0	76.6	114.0	80,000
32.0	75.5	113.5	72,900
34.0	74.4	112.9	67,000
36.0	73.3	112.3	61,900
38.0	72.3	111.7	57,500
40.0	71.2	111.0	53,500
45.0	68.4	109.1	45,600
50.0	65.5	107.0	39,600
55.0	62.6	104.5	34,800
60.0	59.6	101.7	31,000
65.0	56.5	98.5	27,700
70.0	53.3	94.9	25,100
75.0	50.0	90.9	22,900
80.0	46.5	86.4	20,900
85.0	42.7	81.2	19,100
90.0	38.7	75.3	17,800
95.0	34.3	68.4	16,500
<b>120 ft Boom</b>			
22.4	81.4	125.7	121,000 *
24.0	80.6	125.5	111,100
26.0	79.7	125.1	98,500
28.0	78.7	124.7	88,400
30.0	77.7	124.3	80,000
32.0	76.7	123.8	72,900
34.0	75.8	123.3	67,000
36.0	74.8	122.8	61,900
38.0	73.8	122.2	57,500
40.0	72.8	121.6	53,500
45.0	70.3	119.9	45,600
50.0	67.7	117.9	39,400
55.0	65.1	115.7	34,800
60.0	62.4	113.1	30,800
65.0	59.7	110.3	27,700

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>120 ft Boom</b>			
70.0	56.8	107.2	25,100
75.0	53.9	103.7	22,700
80.0	50.9	99.8	20,700
85.0	47.7	95.4	19,100
90.0	44.4	90.5	17,600
95.0	40.8	85.0	16,300
100.0	37.0	78.7	15,200
105.0	32.8	71.4	14,100
<b>130 ft Boom</b>			
23.9	81.4	135.6	100,000 *
24.0	81.4	135.6	100,000 *
26.0	80.5	135.3	98,300
28.0	79.6	134.9	88,100
30.0	78.7	134.5	79,800
32.0	77.8	134.1	72,700
34.0	76.9	133.6	66,700
36.0	76.0	133.1	61,700
38.0	75.1	132.6	57,300
40.0	74.1	132.0	53,300
45.0	71.8	130.5	45,400
50.0	69.5	128.7	39,400
55.0	67.1	126.6	34,600
60.0	64.7	124.4	30,600
65.0	62.2	121.8	27,500
70.0	59.7	119.0	24,900
75.0	57.1	115.9	22,400
80.0	54.4	112.4	20,500
85.0	51.6	108.6	18,900
90.0	48.8	104.4	17,400
95.0	45.7	99.7	16,000
100.0	42.5	94.5	14,700
105.0	39.1	88.6	13,800
110.0	35.5	81.9	13,000
115.0	31.4	74.2	12,100

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>140 ft Boom</b>			
25.4	81.4	145.5	100,000 *
26.0	81.2	145.4	98,100
28.0	80.3	145.1	87,900
30.0	79.5	144.7	79,500
32.0	78.7	144.3	72,500
34.0	77.8	143.9	66,500
36.0	77.0	143.4	61,500
38.0	76.1	142.9	57,000
40.0	75.3	142.4	53,100
45.0	73.2	141.0	45,100
50.0	71.0	139.3	39,000
55.0	68.8	137.4	34,300
60.0	66.6	135.4	30,400
65.0	64.4	133.0	27,100
70.0	62.1	130.5	24,400
75.0	59.7	127.7	22,200
80.0	57.3	124.5	20,200
85.0	54.8	121.1	18,500
90.0	52.3	117.4	16,900
95.0	49.6	113.3	15,600
100.0	46.9	108.8	14,500
105.0	44.0	103.8	13,400
110.0	40.9	98.2	12,500
115.0	37.7	92.0	11,600
120.0	34.1	85.0	11,000
125.0	30.3	77.0	10,300



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## 10000B-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>150 ft Boom</b>			
26.9	81.4	155.4	92,800
28.0	81.0	155.2	87,700
30.0	80.2	154.9	79,300
32.0	79.4	154.5	72,300
34.0	78.7	154.1	66,300
36.0	77.9	153.7	61,000
38.0	77.1	153.2	56,600
40.0	76.3	152.7	52,600
45.0	74.3	151.4	44,700
50.0	72.3	149.9	38,800
55.0	70.3	148.1	33,900
60.0	68.3	146.2	29,900
65.0	66.2	144.1	26,800
70.0	64.1	141.7	24,200
75.0	61.9	139.1	21,800
80.0	59.7	136.3	19,800
85.0	57.5	133.2	18,000
90.0	55.2	129.8	16,700
95.0	52.8	126.2	15,400
100.0	50.4	122.2	14,100
105.0	47.8	117.8	13,200
110.0	45.2	113.0	12,100
115.0	42.4	107.7	11,200
120.0	39.5	101.8	10,500
125.0	36.3	95.3	9,900
130.0	32.9	88.0	9,200
<b>160 ft Boom</b>			
28.4	81.4	165.3	75,000 *
30.0	80.8	165.0	75,000 *
32.0	80.1	164.7	72,300
34.0	79.4	164.3	66,300
36.0	78.6	163.9	61,200
38.0	77.9	163.5	56,800
40.0	77.2	163.0	52,900
45.0	75.3	161.8	44,900
50.0	73.5	160.3	38,800
55.0	71.6	158.7	33,900
60.0	69.7	157.0	30,200
65.0	67.8	155.0	26,800
70.0	65.8	152.8	24,200
75.0	63.8	150.4	21,800
80.0	61.8	147.8	19,800

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>160 ft Boom</b>			
85.0	59.7	145.0	18,200
90.0	57.6	141.9	16,700
95.0	55.5	138.6	15,400
100.0	53.3	134.9	14,100
105.0	51.0	131.0	13,200
110.0	48.6	126.7	12,100
115.0	46.2	122.1	11,200
120.0	43.7	117.0	10,500
125.0	41.0	111.5	9,700
130.0	38.1	105.3	9,200
135.0	35.1	98.5	8,500
140.0	31.8	90.9	7,900
<b>170 ft Boom</b>			
29.9	81.4	175.2	75,000 *
30.0	81.4	175.2	75,000 *
32.0	80.7	174.8	72,000
34.0	80.0	174.5	66,100
36.0	79.3	174.1	60,800
38.0	78.6	173.7	56,400
40.0	77.9	173.3	52,400
45.0	76.2	172.1	44,500
50.0	74.5	170.8	38,500
55.0	72.7	169.3	33,700
60.0	70.9	167.6	29,700
65.0	69.1	165.7	26,400
70.0	67.3	163.7	23,800
75.0	65.5	161.5	21,600
80.0	63.6	159.1	19,600
85.0	61.7	156.5	17,800
90.0	59.8	153.6	16,300
95.0	57.8	150.6	14,900
100.0	55.8	147.3	13,800
105.0	53.7	143.7	12,700
110.0	51.6	139.8	11,600
115.0	49.4	135.6	11,000
120.0	47.1	131.1	10,100
125.0	44.7	126.2	9,400
130.0	42.3	120.9	8,800
135.0	39.7	115.1	8,100
140.0	37.0	108.7	7,400
145.0	34.0	101.6	7,000
150.0	30.9	93.6	6,600

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>180 ft Boom</b>			
31.4	81.4	185.1	73,400
32.0	81.2	185.0	71,800
34.0	80.6	184.6	65,900
36.0	79.9	184.3	60,600
38.0	79.3	183.9	56,200
40.0	78.6	183.5	52,200
45.0	77.0	182.4	44,300
50.0	75.4	181.1	38,100
55.0	73.7	179.7	33,200
60.0	72.0	178.2	29,500
65.0	70.3	176.4	26,200
70.0	68.6	174.5	23,500
75.0	66.9	172.5	21,100
80.0	65.2	170.2	19,100
85.0	63.4	167.8	17,600
90.0	61.6	165.1	16,000
95.0	59.8	162.3	14,700
100.0	57.9	159.2	13,400
105.0	56.0	155.9	12,300
110.0	54.1	152.4	11,400
115.0	52.1	148.6	10,500
120.0	50.0	144.5	9,900
125.0	47.9	140.1	9,000
130.0	45.7	135.4	8,300
135.0	43.4	130.3	7,700
140.0	41.0	124.7	7,200
145.0	38.5	118.6	6,600
150.0	35.9	112.0	6,100
155.0	33.0	104.6	5,700
160.0	30.0	96.3	5,200

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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>190 ft Boom</b>			
32.9	81.4	194.9	66,300 *
34.0	81.1	194.8	65,400
36.0	80.5	194.4	60,400
38.0	79.8	194.1	55,900
40.0	79.2	193.7	52,000
45.0	77.7	192.7	44,000
50.0	76.1	191.5	37,900
55.0	74.6	190.1	33,000
60.0	73.0	188.7	29,100
65.0	71.4	187.0	26,000
70.0	69.8	185.2	23,100
75.0	68.2	183.3	20,900
80.0	66.6	181.2	18,900
85.0	64.9	178.9	17,100
90.0	63.2	176.4	15,600
95.0	61.5	173.8	14,300
100.0	59.8	171.0	13,200
105.0	58.0	167.9	12,100
110.0	56.2	164.6	11,000
115.0	54.4	161.1	10,100
120.0	52.5	157.4	9,400
125.0	50.6	153.4	8,800
130.0	48.6	149.1	7,900
135.0	46.5	144.5	7,200
140.0	44.4	139.5	6,800
145.0	42.2	134.1	6,100
150.0	39.9	128.3	5,700
155.0	37.4	122.0	5,200
160.0	34.9	115.1	4,800
165.0	32.1	107.5	4,400

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>200 ft Boom</b>			
34.4	81.4	204.8	50,000 *
36.0	80.9	204.6	50,000 *
38.0	80.4	204.2	50,000 *
40.0	79.8	203.9	50,000 *
45.0	78.3	202.9	44,000
50.0	76.8	201.8	37,900
55.0	75.4	200.5	33,000
60.0	73.9	199.1	29,300
65.0	72.4	197.6	26,000
70.0	70.9	195.9	23,300
75.0	69.3	194.0	20,900
80.0	67.8	192.1	18,900
85.0	66.2	189.9	17,100
90.0	64.7	187.6	15,600
95.0	63.1	185.1	14,300
100.0	61.4	182.5	13,200
105.0	59.8	179.6	12,100
110.0	58.1	176.6	11,200
115.0	56.4	173.3	10,300
120.0	54.7	169.9	9,400
125.0	52.9	166.2	8,800
130.0	51.1	162.2	7,900
135.0	49.2	158.0	7,200
140.0	47.3	153.5	6,800
145.0	45.3	148.7	6,100
150.0	43.2	143.5	5,700
155.0	41.1	137.9	5,000
160.0	38.8	131.9	4,600
165.0	36.5	125.3	4,100
170.0	34.0	118.2	3,900
175.0	31.3	110.3	3,500

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>210 ft Boom</b>			
35.9	81.4	214.7	50,000 *
36.0	81.4	214.7	50,000 *
38.0	80.8	214.4	50,000 *
40.0	80.3	214.0	50,000 *
45.0	78.9	213.1	43,800
50.0	77.5	212.0	37,600
55.0	76.1	210.8	32,800
60.0	74.7	209.5	28,800
65.0	73.2	208.0	25,700
70.0	71.8	206.4	22,900
75.0	70.4	204.7	20,700
80.0	68.9	202.8	18,700
85.0	67.4	200.8	16,900
90.0	66.0	198.6	15,400
95.0	64.4	196.3	14,100
100.0	62.9	193.8	12,700
105.0	61.4	191.1	11,900
110.0	59.8	188.3	10,800
115.0	58.2	185.2	9,900
120.0	56.6	182.0	9,000
125.0	54.9	178.6	8,300
130.0	53.2	174.9	7,700
135.0	51.5	171.0	6,800
140.0	49.7	166.9	6,300
145.0	47.9	162.5	5,700
150.0	46.1	157.8	5,200
155.0	44.1	152.8	4,600
160.0	42.1	147.4	4,100
165.0	40.0	141.6	3,700
170.0	37.8	135.3	3,500



# Liftcrane Boom Capacities

76,300 lb Crane Counterweight  
 14,300 lb Carbody Counterweight  
 Extended Position Crawlers  
 360 Degree Rating

Meets  
 ASME B30.5  
 Requirements



**10000B-1**

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>220 ft Boom</b>			
37.4	81.4	224.6	48,200 *
38.0	81.2	224.5	47,800 *
40.0	80.7	224.2	46,700 *
45.0	79.4	223.3	43,400
50.0	78.1	222.3	37,400
55.0	76.7	221.1	32,600
60.0	75.4	219.9	28,600
65.0	74.0	218.5	25,300
70.0	72.7	217.0	22,700
75.0	71.3	215.3	20,200
80.0	69.9	213.5	18,200
85.0	68.5	211.6	16,700
90.0	67.1	209.5	15,200
95.0	65.7	207.3	13,800
100.0	64.2	205.0	12,500
105.0	62.8	202.5	11,400
110.0	61.3	199.8	10,500
115.0	59.8	196.9	9,700
120.0	58.3	193.9	8,800
125.0	56.7	190.7	7,900
130.0	55.2	187.3	7,200
135.0	53.6	183.7	6,600
140.0	51.9	179.8	5,900
145.0	50.2	175.8	5,200
150.0	48.5	171.4	4,800
155.0	46.8	166.8	4,400
160.0	44.9	162.0	3,900
165.0	43.0	156.7	3,500

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>230 ft Boom</b>			
38.9	81.4	234.5	43,200 *
40.0	81.1	234.3	42,700 *
45.0	79.9	233.5	40,100 *
50.0	78.6	232.5	37,000
55.0	77.3	231.4	32,100
60.0	76.0	230.2	28,400
65.0	74.7	228.9	25,100
70.0	73.4	227.4	22,200
75.0	72.1	225.9	20,000
80.0	70.8	224.2	18,000
85.0	69.5	222.3	16,300
90.0	68.2	220.4	14,700
95.0	66.8	218.3	13,400
100.0	65.4	216.0	12,300
105.0	64.1	213.7	11,200
110.0	62.7	211.1	10,100
115.0	61.3	208.4	9,200
120.0	59.8	205.6	8,300
125.0	58.4	202.6	7,400
130.0	56.9	199.4	6,800
135.0	55.4	196.0	6,100
140.0	53.9	192.4	5,500
145.0	52.3	188.6	4,800
150.0	50.7	184.6	4,400
155.0	49.1	180.4	3,900
160.0	47.4	175.9	3,500

For Sale Only