

Liftcrane Boom Capacities

222 SERIES B 222EX SERIES B

New York City Code
Boom No. 222 With Open Throat Top
63,300 Lb. Crane Counterweight
14,000 Lb. Crawler Frame Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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 denoted by an asterisk (*). Retracted crawler capacities are not shown for boom positions which, without load, provide less than required ANSI B30.5 backward stability.

Upper boom point capacity for liftcrane service with single part whip line is 20,000 Lbs. 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.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. 193744** or **No. 910557** and Wire Rope Specification chart **No. 9071-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. Refer to operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle

range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9143-A**.

OPERATING RADIUS: 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: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 22 Ft. 4 in. extendible crawlers, 36 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants, 1st crane counterweight = 28,500 Lbs., 2nd crane counterweight = 10,000 Lbs., 3rd crane counterweight = 24,800 Lbs. and four 3,500 Lb. crawler frame counterweights.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 10
30 Ft.	1,700 Lbs.
40 Ft.	2,100 Lbs.
50 Ft.	2,600 Lbs.
60 Ft.	3,100 Lbs.

Maximum Boom and Jib Lengths Lifted Unassisted					
Over End of Crawlers		Over Side of Extended Crawlers		Over Side of Retracted Crawlers	
Boom Length	Jib No. 10	Boom Length	Jib No. 10	Boom Length	Jib No. 10
200 Ft.	---	200 Ft.	---	190 Ft.	---
190 Ft.	60 Ft.	190 Ft.	60 Ft.	180 Ft.	---
				170 Ft.	50 Ft.
				160 Ft.	60 Ft.
Load block, hook and weight ball on ground at start.					

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
40 Ft. BOOM				
10	80.7	44.9		200,000 *
11	79.2	44.7		200,000 *
12	77.8	44.5		185,300 *
13	76.3	44.2		171,100 *
14	74.8	44.0		158,800 *
15	73.3	43.7		148,200 *
16	71.8	43.3		139,000 *
17	70.3	43.0		130,800 *
18	68.8	42.6		121,600 *
19	67.2	42.2		114,100 *
20	65.6	41.7		106,500 *
22	62.4	40.7		94,700 *
24	59.1	39.6		84,000 *
26	55.7	38.3		75,100 *
28	52.1	36.8		67,600 *
30	48.4	35.1		61,200 *
32	44.4	33.2		55,900 *
34	40.1	30.9		50,200 *
36	35.4	28.3		44,900 *
38	30.0	25.1		39,900 *
40	23.5	21.1		35,400 *
50 Ft. BOOM				
11	81.4	54.8		197,200 *
12	80.2	54.7		185,200 *
13	79.1	54.5		170,900 *
14	77.9	54.3		158,700 *
15	76.7	54.0		148,100 *
16	75.5	53.8		138,200 *
17	74.4	53.5		127,900 *
18	73.2	53.2		119,100 *
19	72.0	52.9		112,300 *
20	70.7	52.5		105,400 *
22	68.3	51.8		94,600 *
24	65.8	50.9		84,200 *
26	63.2	49.9		75,000 *
28	60.6	48.9		67,500 *
30	58.0	47.6		61,300 *
32	55.2	46.3		56,200 *
34	52.3	44.8		51,800 *
36	49.4	43.2		48,000 *
38	46.3	41.3		44,700 *
40	43.0	39.3		41,800 *
45	33.6	32.8		35,400 *
50	20.9	23.0		27,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
60 Ft. BOOM				
12	81.9	64.8		173,800 *
13	80.9	64.6		169,900 *
14	79.9	64.5		155,900 *
15	79.0	64.3		142,600 *
16	78.0	64.1		132,600 *
17	77.0	63.8		122,900 *
18	76.0	63.6		115,700 *
19	75.0	63.3		108,300 *
20	74.1	63.0		101,800 *
22	72.1	62.4		91,800 *
24	70.0	61.7		82,800 *
26	68.0	60.9		74,800 *
28	65.9	60.1		67,300 *
30	63.8	59.1		61,200 *
32	61.6	58.1		56,000 *
34	59.4	56.9		51,600 *
36	57.2	55.7		47,800 *
38	54.9	54.3		44,500 *
40	52.5	52.8		41,600 *
45	46.1	48.5		35,800 *
50	39.0	43.0		31,200 *
55	30.6	35.7		27,200 *
60	19.0	24.7	18,300	21,400 *
70 Ft. BOOM				
14	81.4	74.6		149,900 *
15	80.6	74.5		138,400 *
16	79.7	74.3		127,500 *
17	78.9	74.1		118,700 *
18	78.1	73.9		111,400 *
19	77.2	73.6		104,400 *
20	76.4	73.4		98,900 *
22	74.7	72.9		88,700 *
24	73.0	72.3		80,100 *
26	71.3	71.6		74,000 *
28	69.5	70.9		67,200 *
30	67.8	70.1		61,000 *
32	66.0	69.2		55,900 *
34	64.2	68.3		51,500 *
36	62.3	67.3		47,700 *
38	60.5	66.2		44,400 *
40	58.6	65.0		41,500 *
45	53.6	61.6		35,600 *
50	48.3	57.5		31,100 *
55	42.5	52.5	20,300	27,500 *
60	36.0	46.3	18,200	24,600 *
65	28.3	38.3	16,400	21,700 *
70	17.6	26.3	14,900	17,800 *



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
80 Ft. BOOM				
15	81.8	84.6		133,500 *
16	81.0	84.4		122,900 *
17	80.3	84.3		115,200 *
18	79.6	84.1		107,400 *
19	78.8	83.9		100,600 *
20	78.1	83.7		95,800 *
22	76.6	83.2		85,500 *
24	75.2	82.7		78,400 *
26	73.7	82.1		71,400 *
28	72.2	81.5		65,600 *
30	70.7	80.8		60,600 *
32	69.1	80.1		55,700
34	67.6	79.3		51,300
36	66.0	78.4		47,500
38	64.4	77.5		44,200
40	62.8	76.5		41,300
45	58.7	73.7		35,400
50	54.4	70.3	22,700	30,900
55	49.9	66.4	20,100	27,300
60	45.0	61.8	17,900	24,400
65	39.6	56.2	16,100	22,000
70	33.6	49.4	14,600	19,900
75	26.4	40.7	13,400	18,000 *
80	16.4	27.7	12,300	14,500 *
90 Ft. BOOM				
17	81.4	94.4		111,700 *
18	80.7	94.2		104,000 *
19	80.1	94.1		98,700 *
20	79.5	93.9		92,700 *
22	78.2	93.5		82,700 *
24	76.8	93.0		75,900 *
26	75.5	92.5		69,200 *
28	74.2	92.0		63,500 *
30	72.9	91.4		59,200 *
32	71.5	90.7		55,600
34	70.2	90.0		51,100
36	68.8	89.3		47,300
38	67.5	88.4		44,000
40	66.1	87.6		41,100
45	62.5	85.1	25,800	35,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
90 Ft. BOOM				
50	58.9	82.3	22,500	30,700
55	55.1	79.0	19,900	27,100
60	51.1	75.2	17,800	24,200
65	46.8	70.9	16,000	21,800
70	42.3	65.7	14,500	19,800
75	37.3	59.7	13,200	18,100
80	31.6	52.3	12,100	16,600
85	24.8	42.9	11,100	14,800 *
90	15.5	29.1	10,300	12,000 *
100 Ft. BOOM				
18	81.7	104.4		101,100 *
19	81.1	104.2		95,900 *
20	80.5	104.0		90,100 *
22	79.4	103.7		80,300 *
24	78.2	103.3		73,700 *
26	77.0	102.8		67,100 *
28	75.8	102.3		61,600 *
30	74.6	101.8		58,100 *
32	73.5	101.2		53,900 *
34	72.3	100.6		50,300 *
36	71.0	99.9		47,100 *
38	69.8	99.2		43,900
40	68.6	98.4	29,700	41,000
45	65.5	96.3	25,600	35,100
50	62.3	93.8	22,400	30,600
55	59.0	91.0	19,700	27,000
60	55.6	87.7	17,600	24,000
65	52.0	84.1	15,800	21,600
70	48.3	79.8	14,400	19,700
75	44.3	75.0	13,100	18,000
80	40.0	69.5	12,000	16,500
85	35.3	62.9	11,000	15,200
90	29.9	55.1	10,100	14,000
95	23.5	45.0	9,400	12,200 *
100	14.7	30.4	8,700	10,000 *



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110 Ft. BOOM				
19	81.9	114.3		93,500 *
20	81.4	114.2		87,800 *
22	80.3	113.8		78,800 *
24	79.3	113.5		71,700 *
26	78.2	113.1		65,200 *
28	77.1	112.6		59,800 *
30	76.1	112.1		56,400 *
32	75.0	111.6		52,300 *
34	73.9	111.0		48,800 *
36	72.8	110.4		45,700 *
38	71.7	109.8	31,500	43,000 *
40	70.6	109.1	29,500	40,500 *
45	67.8	107.2	25,400	35,000
50	65.0	105.0	22,200	30,400
55	62.1	102.5	19,500	26,800
60	59.1	99.6	17,400	23,900
65	56.0	96.4	15,600	21,400
70	52.8	92.8	14,200	19,500
75	49.4	88.8	12,900	17,800
80	45.9	84.2	11,800	16,300
85	42.1	79.0	10,800	15,000
90	38.1	73.0	9,900	13,800
95	33.6	66.0	9,200	12,800
100	28.5	57.6	8,500	11,700 *
105	22.4	47.1	7,900	10,100 *
110	14.0	31.7	7,300	8,300 *
120 Ft. BOOM				
22	81.1	124.0		77,500 *
24	80.2	123.6		69,700 *
26	79.2	123.3		63,300 *
28	78.2	122.9		59,000 *
30	77.3	122.4		54,700 *
32	76.3	121.9		50,700 *
34	75.3	121.4	36,200	47,200 *
36	74.3	120.9	33,600	44,200 *
38	73.3	120.3	31,300	41,500 *
40	72.3	119.7	29,200	39,300 *
45	69.8	117.9	25,200	34,700
50	67.2	115.9	21,900	30,200
55	64.6	113.7	19,300	26,600
60	61.9	111.1	17,100	23,600
65	59.2	108.3	15,400	21,200
70	56.3	105.1	14,000	19,300
75	53.4	101.6	12,700	17,600
80	50.4	97.6	11,600	16,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
120 Ft. BOOM				
85	47.2	93.2	10,600	14,800
90	43.8	88.3	9,700	13,600
95	40.2	82.7	8,900	12,600
100	36.4	76.3	8,200	11,700
105	32.1	68.9	7,600	10,800 *
110	27.3	60.1	7,000	9,600 *
115	21.4	49.0	6,500	8,300 *
120	13.4	32.8	6,100	6,700 *
130 Ft. BOOM				
22	81.8	134.1		75,700 *
24	80.9	133.8		68,000 *
26	80.0	133.4		61,800 *
28	79.1	133.1		57,800 *
30	78.2	132.7		53,300 *
32	77.3	132.2	38,900	49,300 *
34	76.4	131.7	35,900	45,900 *
36	75.5	131.2	33,300	43,000 *
38	74.6	130.7	31,000	40,300 *
40	73.7	130.1	29,200	39,200 *
45	71.4	128.5	25,000	34,100 *
50	69.0	126.7	21,700	30,000
55	66.7	124.7	19,100	26,400
60	64.2	122.4	16,900	23,400
65	61.8	119.8	15,100	21,000
70	59.2	117.0	13,800	19,100
75	56.6	113.8	12,500	17,400
80	53.9	110.3	11,300	15,900
85	51.1	106.5	10,400	14,600
90	48.3	102.2	9,500	13,400
95	45.2	97.5	8,700	12,400
100	42.0	92.2	8,000	11,500
105	38.6	86.3	7,400	10,700
110	34.9	79.5	6,800	9,900 *
115	30.8	71.7	6,300	8,900 *
120	26.2	62.5	5,900	7,900 *
125	20.6	50.8	5,400	6,800 *
130	12.8	34.0	5,100	5,400 *

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140 Ft. BOOM				
24	81.6	143.9		65,400 *
26	80.8	143.6		60,400 *
28	79.9	143.2		56,500 *
30	79.1	142.9	42,200	52,000 *
32	78.3	142.5	38,700	48,100 *
34	77.4	142.0	35,700	44,700 *
36	76.6	141.6	33,100	41,800 *
38	75.7	141.1	30,800	39,200 *
40	74.9	140.5	29,000	38,100 *
45	72.8	139.1	24,800	33,100 *
50	70.6	137.4	21,500	29,100 *
55	68.4	135.5	18,900	26,000 *
60	66.2	133.4	16,700	23,200 *
65	63.9	131.1	14,900	20,800 *
70	61.6	128.5	13,600	18,900 *
75	59.3	125.6	12,300	17,200 *
80	56.9	122.5	11,200	15,700 *
85	54.4	119.1	10,200	14,400 *
90	51.8	115.3	9,300	13,200 *
95	49.2	111.1	8,500	12,200 *
100	46.4	106.6	7,800	11,300 *
105	43.5	101.5	7,200	10,500 *
110	40.4	95.9	6,700	9,800 *
115	37.1	89.7	6,100	9,000 *
120	33.6	82.6	5,700	8,100 *
125	29.7	74.4	5,200	7,300 *
130	25.2	64.7	4,900	6,400 *
135	19.8	52.6	4,500	5,400 *
140	12.4	35.1	4,200	4,300 *
150 Ft. BOOM				
26	81.4	153.7		55,600 *
28	80.6	153.4	46,100	55,300 *
30	79.8	153.0	42,000	50,800 *
32	79.1	152.7	38,500	46,900 *
34	78.3	152.3	35,500	43,600 *
36	77.5	151.8	32,900	40,700 *
38	76.7	151.4	30,600	39,100 *
40	75.9	150.9	28,800	37,100 *
45	73.9	149.5	24,600	32,100 *
50	71.9	148.0	21,300	28,200 *
55	69.9	146.2	18,700	25,100 *
60	67.9	144.3	16,500	22,500 *
65	65.8	142.1	14,700	20,400 *
70	63.7	139.7	13,400	18,700 *
75	61.5	137.1	12,100	17,000 *
80	59.3	134.3	11,000	15,500 *
85	57.1	131.2	10,000	14,200 *
90	54.8	127.8	9,100	13,000 *
95	52.4	124.1	8,300	12,000 *
100	49.9	120.0	7,600	11,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
150 Ft. BOOM				
105	47.4	115.6	7,000	10,300 *
110	44.7	110.8	6,400	9,600 *
115	41.9	105.4	5,900	8,900 *
120	39.0	99.5	5,500	8,100 *
125	35.8	93.0	5,000	7,300 *
130	32.4	85.5	4,700	6,600 *
135	28.6	77.0	4,300	5,800 *
140	24.3	66.9	4,000	5,100 *
145	19.1	54.3	3,700	4,300 *
150	11.9	36.1	3,300 *	3,300 *
160 Ft. BOOM				
26	81.9	163.8	47,900 *	47,900 *
28	81.2	163.5	45,800	47,500 *
30	80.5	163.2	41,800	46,700 *
32	79.7	162.8	38,300	45,700 *
34	79.0	162.5	35,300	42,400 *
36	78.3	162.1	32,700	39,600 *
38	77.6	161.6	30,600	38,300 *
40	76.8	161.2	28,600	36,000 *
45	75.0	159.9	24,300	31,100 *
50	73.1	158.5	21,000	27,200 *
55	71.2	156.8	18,400	24,200 *
60	69.3	155.0	16,300	21,600 *
65	67.4	153.0	14,500	19,500 *
70	65.4	150.8	13,200	18,500 *
75	63.5	148.4	11,900	16,800 *
80	61.4	145.8	10,700	15,300 *
85	59.4	142.9	9,700	14,000 *
90	57.3	139.8	8,900	12,800 *
95	55.1	136.5	8,100	11,800 *
100	52.9	132.8	7,400	10,900 *
105	50.6	128.9	6,800	10,100 *
110	48.2	124.6	6,200	9,200 *
115	45.8	119.9	5,700	8,500 *
120	43.2	114.8	5,200	7,700 *
125	40.5	109.2	4,800	7,000 *
130	37.7	103.0	4,400	6,400 *
135	34.6	96.1	4,000	5,700 *
140	31.3	88.4	3,700	5,100 *
145	27.7	79.5	3,400	4,500 *
150	23.5	69.0	3,100	3,800 *
155	18.5	55.9		3,100 *



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
170 Ft. BOOM				
28	81.7	173.6	40,400 *	40,400 *
30	81.0	173.3	39,700 *	39,700 *
32	80.4	173.0	38,300	39,300 *
34	79.7	172.6	35,300	38,700 *
36	79.0	172.3	32,700	38,200 *
38	78.3	171.9	30,400	37,400 *
40	77.6	171.4	28,300	35,000 *
45	75.9	170.2	24,100	30,200 *
50	74.1	168.9	20,800	26,400 *
55	72.4	167.4	18,200	23,400 *
60	70.6	165.7	16,000	20,900 *
65	68.8	163.8	14,300	19,400 *
70	67.0	161.8	12,900	18,000 *
75	65.1	159.5	11,600	16,300 *
80	63.3	157.1	10,500	14,900 *
85	61.3	154.5	9,500	13,600 *
90	59.4	151.6	8,600	12,400 *
95	57.4	148.5	7,900	11,400 *
100	55.4	145.2	7,200	10,500 *
105	53.3	141.6	6,600	9,600 *
110	51.2	137.7	6,000	8,800 *
115	49.0	133.5	5,500	8,100 *
120	46.7	128.9	5,000	7,400 *
125	44.3	124.0	4,600	6,800 *
130	41.9	118.7	4,200	6,100 *
135	39.3	112.8	3,800	5,600 *
140	36.5	106.3	3,500	5,000 *
145	33.6	99.2	3,200	4,500 *
150	30.4	91.1		3,900 *
155	26.9	81.9		3,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
180 Ft. BOOM				
30	81.5	183.4	34,500 *	34,500 *
32	80.9	183.1	33,900 *	33,900 *
34	80.3	182.8	33,300 *	33,300 *
36	79.6	182.4	32,500	32,900 *
38	79.0	182.1	30,200	32,400 *
40	78.3	181.6	28,100	32,000 *
45	76.7	180.5	23,900	29,400 *
50	75.0	179.3	20,600	25,600 *
55	73.4	177.8	18,000	22,700 *
60	71.7	176.3	15,800	20,200 *
65	70.0	174.5	14,300	19,300 *
70	68.3	172.6	12,700	17,300 *
75	66.6	170.5	11,500	15,700 *
80	64.8	168.2	10,300	14,300 *
85	63.1	165.8	9,300	13,000 *
90	61.3	163.1	8,500	11,900 *
95	59.4	160.3	7,700	10,900 *
100	57.6	157.2	7,000	10,000 *
105	55.7	153.9	6,400	9,100 *
110	53.7	150.3	5,800	8,400 *
115	51.7	146.5	5,300	7,700 *
120	49.6	142.4	4,800	7,000 *
125	47.5	138.0	4,400	6,400 *
130	45.3	133.2	4,000	5,800 *
135	43.0	128.0	3,600	5,300 *
140	40.6	122.4	3,300	4,800 *
145	38.1	116.3	3,000	4,300 *
150	35.5	109.6		3,800 *
155	32.6	102.1		3,300 *



Liftcrane Boom Capacities

New York City Code

Boom No. 222 With Open Throat Top

63,300 Lb. Crane Counterweight

14,000 Lb. Crawler Frame Counterweight

360 Degree Rating

 Meets
ANSI B30.5
Requirements

222 SERIES B 222EX SERIES B

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
190 Ft. BOOM				
30	82.0	193.6	29,900 *	29,900 *
32	81.4	193.3	29,300 *	29,300 *
34	80.8	192.9	28,800 *	28,800 *
36	80.2	192.6	28,300 *	28,300 *
38	79.5	192.2	28,300 *	28,300 *
40	78.9	191.9	27,200 *	27,200 *
45	77.4	190.8	23,700	26,100 *
50	75.8	189.6	20,400	24,900 *
55	74.3	188.3	17,800	21,900 *
60	72.7	186.8	15,600	19,500 *
65	71.1	185.1	14,100	18,600 *
70	69.5	183.3	12,500	16,700 *
75	67.9	181.4	11,200	15,100 *
80	66.3	179.2	10,100	13,700 *
85	64.6	176.9	9,100	12,400 *
90	62.9	174.5	8,200	11,300 *
95	61.2	171.8	7,500	10,300 *
100	59.5	168.9	6,800	9,500 *
105	57.7	165.9	6,100	8,600 *
110	55.9	162.6	5,600	7,900 *
115	54.1	159.1	5,100	7,200 *
120	52.2	155.3	4,600	6,600 *
125	50.2	151.3	4,200	6,000 *
130	48.2	146.9	3,800	5,500 *
135	46.2	142.3	3,400	4,900 *
140	44.0	137.3	3,100	4,400 *
145	41.8	131.9		4,000 *
150	39.5	126.0		3,500 *
155	37.1	119.7		3,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
200 Ft. BOOM				
32	81.8	203.4	24,900 *	24,900 *
34	81.2	203.1	24,900 *	24,900 *
36	80.7	202.7	24,100 *	24,100 *
38	80.1	202.4	24,100 *	24,100 *
40	79.5	202.0	23,300 *	23,300 *
45	78.0	201.0	22,300 *	22,300 *
50	76.6	199.9	20,200	21,500 *
55	75.1	198.6	17,500	20,800 *
60	73.6	197.2	15,400	19,300 *
65	72.1	195.7	13,800	17,800 *
70	70.6	194.0	12,300	15,900 *
75	69.1	192.1	11,000	14,300 *
80	67.5	190.1	9,900	12,900 *
85	66.0	188.0	8,900	11,700 *
90	64.4	185.6	8,000	10,600 *
95	62.8	183.1	7,200	9,700 *
100	61.1	180.5	6,500	8,800 *
105	59.5	177.6	5,900	8,000 *
110	57.8	174.5	5,300	7,300 *
115	56.1	171.3	4,800	6,600 *
120	54.4	167.8	4,300	6,000 *
125	52.6	164.1	3,900	5,500 *
130	50.7	160.1	3,500	4,900 *
135	48.9	155.9	3,200	4,400 *
140	46.9	151.3		4,000 *
145	44.9	146.5		3,500 *
150	42.9	141.3		3,100 *