

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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 for boom lengths thru 250 Ft. and New York City criteria of 1.4 factor applied to total machine moment for boom lengths 260 Ft. on up. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. with two part whip line. 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. Refer to boom rigging **No. 178288** and Wire Rope Specification chart **No. 7940-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. 7957-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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants, 142,000 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 134
30 Ft.	3,900 Lbs.
40 Ft.	4,700 Lbs.
50 Ft.	5,600 Lbs.
60 Ft.	6,600 Lbs.
70 Ft.	7,600 Lbs.
80 Ft.	8,700 Lbs.

Upper Boom Point Deduct

Deduct 1,000 Lbs. from capacities when upper boom point is attached.

Auxiliary Drum Deduct

Deduct 1,700 Lbs. from capacities when boom butt is equipped with auxiliary drum.

Wire Rope Guide Deduct (For Third Line)

Deduct 500 Lbs. from boom capacities when boom top wire rope guide (No. 192312) for third line is attached.



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Maximum Boom and Jib Lengths Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 270 Ft.	---	(a) 260 Ft.	---	230 Ft.	---
(a) 260 Ft.	---	250 Ft.	---	220 Ft.	---
250 Ft.	---	240 Ft.	---	210 Ft.	50 Ft.
240 Ft.	30 Ft.	230 Ft.	50 Ft.	200 Ft.	70 Ft.
230 Ft.	50 Ft.	220 Ft.	70 Ft.	190 Ft.	80 Ft.
220 Ft.	80 Ft.	210 Ft.	80 Ft.		
Load block, hook and weight ball on ground at start. (a) Upper boom point and boom top wire rope guide (No. 192312) for third line cannot be used on 260 Ft. and 270 Ft. booms. Auxiliary drum in boom butt and wire rope guide in 10 Ft. insert cannot be used on 270 Ft. boom.					

Consult jib chart for jib capacities. Upper boom point and boom top wire rope guide (No. 192312) for third line cannot be used when jib is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
60 Ft. BOOM			
13	82.4	66.8	352,800 *
14	81.4	66.7	337,800 *
15	80.5	66.5	316,700 *
16	79.5	66.3	298,000 *
17	78.5	66.1	281,300 *
18	77.5	65.8	266,300 *
19	76.5	65.6	252,800 *
20	75.6	65.3	240,600 *
22	73.6	64.7	219,200 *
24	71.5	64.0	201,200 *
26	69.5	63.2	185,800 *
28	67.4	62.4	172,500 *
30	65.3	61.4	160,900 *
32	63.2	60.4	147,500
34	61.0	59.3	135,000
36	58.7	58.0	124,400
38	56.4	56.7	115,100
40	54.1	55.2	107,100
45	47.8	50.9	90,800
50	40.7	45.5	78,400
55	32.4	38.4	68,600
60	21.2	27.8	60,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	309,900 *
15	81.8	76.6	303,000 *
16	81.0	76.5	294,100 *
17	80.2	76.3	281,300 *
18	79.3	76.1	266,300 *
19	78.5	75.9	252,800 *
20	77.7	75.6	240,600 *
22	76.0	75.1	219,200 *
24	74.3	74.5	201,200 *
26	72.6	73.9	185,700 *
28	70.8	73.2	172,500 *
30	69.1	72.4	160,900 *
32	67.3	71.5	148,100
34	65.5	70.6	135,600
36	63.6	69.6	124,900
38	61.8	68.5	115,600
40	59.9	67.3	107,600
45	54.9	64.0	91,300
50	49.7	59.9	78,900
55	43.9	55.0	69,100
60	37.5	48.9	61,300
65	29.9	41.0	54,700
70	19.5	29.5	49,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
15	82.9	86.8	275,500 *
16	82.1	86.6	267,600 *
17	81.4	86.4	259,900 *
18	80.7	86.3	252,900 *
19	80.0	86.1	246,200 *
20	79.2	85.9	239,900 *
22	77.8	85.4	219,000 *
24	76.3	84.9	201,000 *
26	74.8	84.4	185,600 *
28	73.3	83.8	172,300 *
30	71.8	83.1	160,700 *
32	70.3	82.3	148,500
34	68.7	81.6	135,900
36	67.2	80.7	125,200
38	65.6	79.8	115,900
40	64.0	78.8	107,800
45	59.9	76.0	91,500
50	55.6	72.7	79,100
55	51.1	68.8	69,300
60	46.2	64.2	61,500
65	40.9	58.8	55,000
70	34.9	52.1	49,500
75	27.8	43.5	44,900
80	18.2	31.0	40,800

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44,000 Lb. Carbody Counterweight

360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	256,700 *
17	82.4	96.6	249,700 *
18	81.7	96.4	243,100 *
19	81.1	96.2	236,800 *
20	80.4	96.1	230,700 *
22	79.1	95.7	218,800 *
24	77.8	95.2	200,800 *
26	76.5	94.7	185,400 *
28	75.2	94.2	172,100 *
30	73.9	93.6	160,500 *
32	72.5	93.0	148,500
34	71.2	92.3	135,900
36	69.8	91.5	125,200
38	68.5	90.7	115,900
40	67.1	89.9	107,800
45	63.6	87.5	91,500
50	59.9	84.7	79,100
55	56.1	81.4	69,400
60	52.1	77.7	61,600
65	47.9	73.3	55,100
70	43.4	68.2	49,700
75	38.4	62.3	45,100
80	32.8	55.0	41,100
85	26.1	45.8	37,600
90	17.1	32.5	34,400
100 Ft. BOOM			
18	82.6	106.5	221,400 *
19	82.0	106.4	215,900 *
20	81.4	106.2	210,700 *
22	80.2	105.9	200,800 *
24	79.1	105.5	191,700 *
26	77.9	105.0	183,300 *
28	76.7	104.5	171,800 *
30	75.5	104.0	160,200 *
32	74.4	103.4	148,600
34	73.2	102.8	136,000
36	71.9	102.2	125,200
38	70.7	101.5	115,900
40	69.5	100.7	107,800
45	66.4	98.6	91,500
50	63.2	96.1	79,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
55	59.9	93.3	69,300
60	56.5	90.1	61,500
65	53.0	86.4	55,000
70	49.2	82.3	49,600
75	45.3	77.5	45,000
80	41.0	72.0	41,000
85	36.3	65.5	37,500
90	31.0	57.8	34,500
95	24.7	48.0	31,700
100	16.1	33.9	29,200
110 Ft. BOOM			
19	82.7	116.5	211,100 *
20	82.2	116.3	205,700 *
22	81.1	116.0	195,600 *
24	80.1	115.7	186,300 *
26	79.0	115.3	177,600 *
28	78.0	114.8	167,700 *
30	76.9	114.4	156,600 *
32	75.8	113.8	147,100 *
34	74.7	113.3	136,000
36	73.6	112.7	125,300
38	72.5	112.0	116,000
40	71.4	111.4	107,900
45	68.7	109.5	91,500
50	65.8	107.3	79,100
55	62.9	104.8	69,300
60	59.9	102.0	61,500
65	56.8	98.8	55,000
70	53.6	95.2	49,600
75	50.3	91.2	45,000
80	46.8	86.6	41,000
85	43.0	81.5	37,600
90	39.0	75.6	34,500
95	34.5	68.7	31,800
100	29.5	60.4	29,400
105	23.5	50.0	27,200
110	15.3	35.2	25,200
120 Ft. BOOM			
20	82.9	126.4	192,200 *
22	81.9	126.2	183,700 *
24	80.9	125.8	175,900 *
26	79.9	125.5	168,600 *
28	79.0	125.1	161,800 *
30	78.0	124.6	152,200 *
32	77.0	124.2	142,800 *
34	76.0	123.6	134,700 *
36	75.0	123.1	125,400
38	74.0	122.5	116,000
40	73.0	121.9	107,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
45	70.5	120.2	91,500
50	68.0	118.2	79,100
55	65.3	116.0	69,300
60	62.7	113.5	61,500
65	59.9	110.6	55,000
70	57.1	107.5	49,600
75	54.2	104.0	45,000
80	51.2	100.0	41,000
85	48.0	95.7	37,600
90	44.6	90.8	34,500
95	41.1	85.2	31,800
100	37.2	78.9	29,400
105	33.0	71.6	27,300
110	28.2	62.9	25,300
115	22.5	52.0	23,500
130 Ft. BOOM			
22	82.5	136.3	176,100 *
24	81.6	136.0	168,300 *
26	80.7	135.6	161,100 *
28	79.8	135.3	154,400 *
30	78.9	134.9	148,100 *
32	78.0	134.4	139,100 *
34	77.1	134.0	131,100 *
36	76.2	133.5	124,000 *
38	75.3	132.9	116,000
40	74.4	132.4	107,800
45	72.1	130.8	91,400
50	69.7	129.0	79,000
55	67.4	127.0	69,200
60	64.9	124.7	61,400
65	62.5	122.1	54,900
70	59.9	119.3	49,500
75	57.3	116.2	44,900
80	54.7	112.7	40,900
85	51.9	108.9	37,400
90	49.0	104.6	34,400
95	46.0	99.9	31,700
100	42.8	94.7	29,300
105	39.4	88.8	27,200
110	35.7	82.1	25,200
115	31.6	74.4	23,400
120	27.0	65.3	21,800
125	21.5	53.8	20,300



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	157,900 *
26	81.4	145.8	151,800 *
28	80.6	145.4	146,000 *
30	79.7	145.1	140,600 *
32	78.9	144.7	135,400 *
34	78.1	144.2	127,500 *
36	77.2	143.8	120,500 *
38	76.4	143.3	114,300 *
40	75.5	142.7	107,700
45	73.4	141.3	91,300
50	71.3	139.6	78,800
55	69.1	137.8	69,000
60	66.8	135.7	61,100
65	64.6	133.4	54,600
70	62.3	130.8	49,200
75	59.9	128.0	44,600
80	57.5	124.8	40,600
85	55.0	121.4	37,200
90	52.5	117.7	34,100
95	49.8	113.6	31,400
100	47.1	109.0	29,000
105	44.2	104.0	26,900
110	41.1	98.5	25,000
115	37.9	92.3	23,200
120	34.3	85.2	21,600
125	30.4	77.2	20,100
130	26.0	67.6	18,700
135	20.7	55.6	17,400
150 Ft. BOOM			
24	82.8	156.2	152,500 *
26	82.0	155.9	146,300 *
28	81.2	155.6	140,500 *
30	80.4	155.2	135,000 *
32	79.7	154.9	129,900 *
34	78.9	154.5	124,200 *
36	78.1	154.0	117,300 *
38	77.3	153.6	111,300 *
40	76.5	153.1	105,800 *
45	74.5	151.7	91,100
50	72.5	150.2	78,600
55	70.5	148.5	68,800
60	68.5	146.5	60,900
65	66.4	144.4	54,400
70	64.3	142.0	49,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
75	62.1	139.5	44,400
80	59.9	136.6	40,400
85	57.7	133.5	37,000
90	55.4	130.1	33,900
95	53.0	126.4	31,200
100	50.6	122.4	28,800
105	48.0	118.0	26,700
110	45.4	113.2	24,800
115	42.6	107.9	23,000
120	39.7	102.1	21,400
125	36.5	95.6	19,900
130	33.1	88.2	18,600
135	29.4	79.8	17,300
140	25.1	69.8	16,100
145	20.0	57.4	15,000
160 Ft. BOOM			
26	82.5	166.0	139,000 *
28	81.8	165.7	133,400 *
30	81.0	165.4	128,100 *
32	80.3	165.0	123,100 *
34	79.6	164.7	118,400 *
36	78.8	164.3	114,000 *
38	78.1	163.8	108,500 *
40	77.4	163.4	103,200 *
45	75.5	162.1	91,000
50	73.7	160.7	78,500
55	71.8	159.1	68,700
60	69.9	157.3	60,800
65	68.0	155.3	54,300
70	66.0	153.1	48,900
75	64.0	150.7	44,200
80	62.0	148.1	40,300
85	59.9	145.3	36,800
90	57.8	142.2	33,800
95	55.7	138.8	31,100
100	53.5	135.2	28,700
105	51.2	131.3	26,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
110	48.8	127.0	24,600
115	46.4	122.3	22,800
120	43.8	117.3	21,200
125	41.2	111.7	19,800
130	38.3	105.6	18,400
135	35.3	98.7	17,200
140	32.0	91.1	16,000
145	28.4	82.3	14,900
150	24.3	71.9	13,900
155	19.3	59.1	12,900
170 Ft. BOOM			
26	82.9	176.1	133,600 *
28	82.2	175.8	128,200 *
30	81.6	175.5	123,000 *
32	80.9	175.2	118,100 *
34	80.2	174.8	113,400 *
36	79.5	174.5	109,100 *
38	78.8	174.0	105,000 *
40	78.1	173.6	100,500 *
45	76.4	172.4	89,400 *
50	74.7	171.1	78,300
55	72.9	169.6	68,500
60	71.1	167.9	60,600
65	69.3	166.1	54,100
70	67.5	164.0	48,600
75	65.7	161.8	44,000
80	63.8	159.4	40,000
85	61.9	156.8	36,600
90	59.9	153.9	33,500
95	58.0	150.9	30,800
100	55.9	147.5	28,400
105	53.9	144.0	26,300
110	51.7	140.1	24,400
115	49.5	135.9	22,600
120	47.3	131.4	21,000
125	44.9	126.5	19,500
130	42.5	121.2	18,200
135	39.9	115.3	16,900
140	37.1	108.9	15,800
145	34.2	101.8	14,700
150	31.0	93.8	13,700
155	27.5	84.7	12,800
160	23.5	74.0	11,900
165	18.7	60.7	11,000

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180 Ft. BOOM			
28	82.7	185.9	122,000 *
30	82.0	185.6	117,400 *
32	81.4	185.3	113,000 *
34	80.7	185.0	108,800 *
36	80.1	184.6	104,700 *
38	79.5	184.2	100,600 *
40	78.8	183.8	96,800 *
45	77.2	182.7	87,100 *
50	75.5	181.5	78,000
55	73.9	180.1	68,200
60	72.2	178.5	60,300
65	70.5	176.8	53,800
70	68.8	174.9	48,300
75	67.1	172.8	43,700
80	65.4	170.5	39,700
85	63.6	168.1	36,200
90	61.8	165.4	33,200
95	60.0	162.6	30,500
100	58.1	159.5	28,100
105	56.2	156.2	25,900
110	54.2	152.7	24,000
115	52.2	148.9	22,300
120	50.2	144.8	20,600
125	48.1	140.4	19,200
130	45.9	135.6	17,800
135	43.6	130.5	16,600
140	41.2	124.9	15,400
145	38.7	118.8	14,400
150	36.0	112.2	13,400
155	33.2	104.8	12,400
160	30.1	96.5	11,600
165	26.7	87.1	10,700
170	22.8	76.0	9,900
175	18.2	62.3	9,200
190 Ft. BOOM			
30	82.5	195.7	116,600 *
32	81.9	195.4	113,200 *
34	81.2	195.1	109,900 *
36	80.6	194.8	106,500 *
38	80.0	194.4	101,200 *
40	79.4	194.0	96,000 *
45	77.9	193.0	85,200 *
50	76.3	191.8	76,500 *
55	74.8	190.5	67,700
60	73.2	189.0	59,800
65	71.6	187.4	53,300
70	70.0	185.6	47,800
75	68.4	183.6	43,200
80	66.7	181.5	39,200
85	65.1	179.2	35,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
90	63.4	176.8	32,700
95	61.7	174.1	30,000
100	60.0	171.3	27,600
105	58.2	168.2	25,400
110	56.4	164.9	23,500
115	54.5	161.4	21,700
120	52.7	157.7	20,100
125	50.7	153.7	18,700
130	48.7	149.4	17,300
135	46.7	144.7	16,100
140	44.6	139.8	14,900
145	42.3	134.4	13,800
150	40.0	128.6	12,800
155	37.6	122.3	11,900
160	35.0	115.3	11,000
165	32.3	107.7	10,200
170	29.3	99.1	9,400
175	26.0	89.4	8,700
180	22.2	77.9	8,000
185	17.7	63.8	7,300
200 Ft. BOOM			
30	82.8	205.8	109,700 *
32	82.3	205.5	106,300 *
34	81.7	205.2	103,000 *
36	81.1	204.9	99,900 *
38	80.5	204.6	96,900 *
40	79.9	204.2	93,400 *
45	78.5	203.2	82,700 *
50	77.0	202.1	74,300 *
55	75.5	200.8	67,400 *
60	74.0	199.4	59,600
65	72.5	197.9	53,100
70	71.0	196.2	47,600
75	69.5	194.4	42,900
80	68.0	192.4	39,000
85	66.4	190.2	35,500
90	64.8	187.9	32,400
95	63.2	185.4	29,700
100	61.6	182.8	27,300
105	60.0	179.9	25,200
110	58.3	176.9	23,200
115	56.6	173.6	21,500
120	54.8	170.2	19,900
125	53.0	166.5	18,400
130	51.2	162.5	17,100
135	49.3	158.3	15,800
140	47.4	153.8	14,700
145	45.4	148.9	13,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. BOOM			
150	43.4	143.7	12,600
155	41.2	138.2	11,700
160	39.0	132.1	10,800
165	36.6	125.6	10,000
170	34.1	118.4	9,200
175	31.4	110.5	8,500
180	28.5	101.7	7,800
185	25.3	91.6	7,200
190	21.6	79.8	6,500
195	17.2	65.3	5,900
210 Ft. BOOM			
32	82.6	215.6	105,700 *
34	82.1	215.4	102,700 *
36	81.5	215.1	98,200 *
38	81.0	214.7	94,300 *
40	80.4	214.4	89,700 *
45	79.0	213.4	80,100 *
50	77.6	212.4	72,500 *
55	76.2	211.2	65,800 *
60	74.8	209.8	59,300
65	73.4	208.4	52,800
70	72.0	206.8	47,300
75	70.5	205.0	42,700
80	69.1	203.2	38,700
85	67.6	201.1	35,200
90	66.1	198.9	32,200
95	64.6	196.6	29,500
100	63.1	194.1	27,100
105	61.5	191.4	24,900
110	60.0	188.6	23,000
115	58.4	185.5	21,200
120	56.7	182.3	19,600
125	55.1	178.9	18,200
130	53.4	175.2	16,800
135	51.7	171.3	15,600
140	49.9	167.2	14,400
145	48.1	162.8	13,400
150	46.2	158.0	12,400
155	44.3	153.0	11,400
160	42.3	147.6	10,600
165	40.2	141.8	9,800
170	38.0	135.6	9,000
175	35.7	128.8	8,300
180	33.2	121.4	7,600
185	30.6	113.2	7,000
190	27.8	104.1	6,300
195	24.7	93.8	5,800
200	21.1	81.7	5,200
205	16.8	66.7	4,600



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code
Boom No. 78

142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. BOOM			
32	83.0	225.7	105,100 *
34	82.4	225.5	102,400 *
36	81.9	225.2	96,600 *
38	81.4	224.9	91,500 *
40	80.9	224.5	86,900 *
45	79.5	223.6	77,500 *
50	78.2	222.6	70,000 *
55	76.9	221.5	63,700 *
60	75.5	220.2	58,100 *
65	74.2	218.8	52,500
70	72.8	217.3	47,000
75	71.4	215.6	42,400
80	70.1	213.9	38,400
85	68.7	211.9	34,900
90	67.3	209.9	31,800
95	65.8	207.7	29,100
100	64.4	205.3	26,700
105	62.9	202.8	24,600
110	61.5	200.1	22,600
115	60.0	197.2	20,900
120	58.4	194.2	19,300
125	56.9	191.0	17,800
130	55.3	187.6	16,400
135	53.7	184.0	15,200
140	52.1	180.1	14,000
145	50.4	176.0	13,000
150	48.7	171.7	12,000
155	46.9	167.1	11,100
160	45.1	162.2	10,200
165	43.2	157.0	9,400
170	41.2	151.4	8,600
175	39.2	145.4	7,900
180	37.1	138.9	7,200
185	34.8	131.9	6,600
190	32.4	124.3	6,000
195	29.9	115.9	5,400
200	27.1	106.5	4,800
205	24.1	95.9	4,300
230 Ft. BOOM			
34	82.8	235.6	97,100 *
36	82.3	235.3	94,300 *
38	81.8	235.0	89,300 *
40	81.3	234.7	84,700 *
45	80.0	233.8	75,400 *
50	78.7	232.8	68,000 *
55	77.5	231.7	61,900 *
60	76.2	230.5	56,400 *
65	74.9	229.2	51,700 *
70	73.6	227.8	46,700
75	72.3	226.2	42,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
230 Ft. BOOM			
80	71.0	224.5	38,100
85	69.6	222.7	34,600
90	68.3	220.7	31,500
95	67.0	218.6	28,800
100	65.6	216.4	26,400
105	64.2	214.0	24,200
110	62.8	211.4	22,300
115	61.4	208.8	20,500
120	60.0	205.9	18,900
125	58.5	202.9	17,500
130	57.0	199.7	16,100
135	55.5	196.3	14,900
140	54.0	192.7	13,700
145	52.4	188.9	12,600
150	50.8	184.9	11,600
155	49.2	180.6	10,700
160	47.5	176.1	9,900
165	45.8	171.3	9,000
170	44.0	166.3	8,300
175	42.2	160.8	7,600
180	40.3	155.1	6,900
185	38.3	148.9	6,200
190	36.2	142.2	5,600
195	34.0	135.0	5,100
200	31.7	127.1	4,500
205	29.2	118.5	4,000
240 Ft. BOOM			
36	82.6	245.4	88,500 *
38	82.1	245.1	87,100 *
40	81.6	244.8	82,600 *
45	80.4	244.0	73,200 *
50	79.2	243.0	65,900 *
55	78.0	242.0	60,000 *
60	76.8	240.8	55,000 *
65	75.5	239.6	50,400 *
70	74.3	238.2	46,400 *
75	73.0	236.7	41,800
80	71.8	235.1	37,700
85	70.5	233.3	34,300
90	69.3	231.5	31,200
95	68.0	229.5	28,500
100	66.7	227.3	26,100
105	65.4	225.1	23,900
110	64.0	222.7	22,000
115	62.7	220.1	20,200
120	61.3	217.4	18,600
125	60.0	214.6	17,100
130	58.6	211.5	15,800
135	57.2	208.4	14,600
140	55.7	205.0	13,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 Ft. BOOM			
145	54.3	201.4	12,300
150	52.8	197.7	11,300
155	51.2	193.7	10,400
160	49.7	189.5	9,600
165	48.1	185.1	8,700
170	46.5	180.4	8,000
175	44.8	175.5	7,300
180	43.0	170.2	6,600
185	41.2	164.6	6,000
190	39.4	158.6	5,300
195	37.4	152.3	4,800
200	35.4	145.4	4,200
250 Ft. BOOM			
38	82.4	255.2	85,000 *
40	82.0	254.9	80,500 *
45	80.8	254.1	71,200 *
50	79.6	253.2	64,000 *
55	78.5	252.2	58,100 *
60	77.3	251.1	53,300 *
65	76.1	249.9	48,800 *
70	74.9	248.6	44,900 *
75	73.7	247.1	41,400
80	72.5	245.6	37,400
85	71.3	243.9	33,900
90	70.1	242.1	30,900
95	68.9	240.2	28,200
100	67.7	238.2	25,800
105	66.4	236.1	23,600
110	65.1	233.8	21,700
115	63.9	231.3	19,900
120	62.6	228.8	18,300
125	61.3	226.1	16,800
130	60.0	223.2	15,500
135	58.6	220.2	14,200
140	57.3	217.0	13,100
145	55.9	213.7	12,000
150	54.5	210.2	11,000
155	53.1	206.5	10,100
160	51.6	202.5	9,200
165	50.1	198.4	8,400
170	48.6	194.1	7,600
175	47.0	189.5	6,900
180	45.5	184.6	6,200
185	43.8	179.5	5,600
190	42.1	174.1	5,000
195	40.4	168.3	4,400

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. BOOM			
40	82.3	265.0	77,200 *
45	81.2	264.3	68,800 *
50	80.0	263.4	61,600 *
55	78.9	262.4	55,900 *
60	77.8	261.4	49,900
65	76.7	260.2	43,500
70	75.5	258.9	38,200
75	74.4	257.6	33,700
80	73.2	256.1	29,900
85	72.1	254.5	26,500
90	70.9	252.8	23,500
95	69.7	251.0	20,900
100	68.6	249.0	18,600
105	67.4	247.0	16,500
110	66.2	244.8	14,600
115	65.0	242.5	12,900
120	63.7	240.0	11,400
125	62.5	237.4	10,000
130	61.2	234.7	8,700
135	60.0	231.9	7,500
140	58.7	228.9	6,300
145	57.4	225.7	5,300
150	56.1	222.4	4,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
270 Ft. BOOM			
45	81.5	274.4	66,700 *
50	80.4	273.5	59,600 *
55	79.3	272.6	54,000 *
60	78.3	271.6	49,300 *
65	77.2	270.5	43,000
70	76.1	269.3	37,700
75	75.0	267.9	33,200
80	73.9	266.5	29,300
85	72.8	265.0	25,900
90	71.7	263.4	23,000
95	70.5	261.6	20,400
100	69.4	259.8	18,100
105	68.3	257.8	16,000
110	67.1	255.7	14,100
115	65.9	253.5	12,400
120	64.8	251.2	10,800
125	63.6	248.7	9,400
130	62.4	246.1	8,100
135	61.2	243.4	6,900
140	60.0	240.5	5,800
145	58.7	237.5	4,700