

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

LIFTING CAPACITIES: Lifting 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 and luffing jib length combinations thru 250 Ft. and New York City criteria of 1.4 factor applied to total machine moment for boom and luffing jib length combinations 260 Ft. on up. Capacities based on structural competence are denoted by an asterisk (*).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Weight of luffing jib and 2,825 Lbs. suspended beneath luffing jib point sheaves have been included in capacity determination. 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. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. 179420**, Wire Rope Specification chart **No. 7985-A** and Luffing Jib Raising Procedure chart **No. 7986-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. 7987-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, 7 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants, two 1-3/8 in. luffing jib backstays, 142,000 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

Luffing Jib Position During Operation	
Luffing Jib Length - Feet	Boom To Luffing Jib Angle
70	145 Degrees
80 - 90	150 Degrees
100 - 120	160 Degrees
130 - 170	168 Degrees

Consult Chart **No. 8066-A** for luffing jib capacities.



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142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

70 Ft. Luffing Jib, Attached at 145 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	283,600 *
15	81.8	76.6	274,000 *
16	81.0	76.5	264,500 *
17	80.2	76.3	247,900 *
18	79.3	76.1	232,900 *
19	78.5	75.9	219,500 *
20	77.7	75.6	207,300 *
22	76.0	75.1	186,000 *
24	74.3	74.5	168,000 *
26	72.6	73.9	152,700 *
28	70.8	73.2	139,500 *
30	69.1	72.4	127,900 *
32	67.3	71.5	117,700 *
34	65.5	70.6	107,700 *
36	63.6	69.6	97,500 *
38	61.8	68.5	88,700 *
40	59.9	67.3	81,000 *
45	54.9	64.0	65,400 *
50	49.7	59.9	53,700 *
55	43.9	55.0	44,500 *
60	37.5	48.9	37,100 *
80 Ft. BOOM			
15	82.9	86.8	248,700 *
16	82.1	86.6	240,700 *
17	81.4	86.4	232,900 *
18	80.7	86.3	225,800 *
19	80.0	86.1	219,100 *
20	79.2	85.9	207,900 *
22	77.8	85.4	186,600 *
24	76.3	84.9	168,700 *
26	74.8	84.4	153,300 *
28	73.3	83.8	140,100 *
30	71.8	83.1	128,500 *
32	70.3	82.3	118,400 *
34	68.7	81.6	109,000 *
36	67.2	80.7	98,700 *
38	65.6	79.8	89,800 *
40	64.0	78.8	82,100 *
45	59.9	76.0	66,500 *
50	55.6	72.7	54,600 *
55	51.1	68.8	45,300 *
60	46.2	64.2	37,900 *
65	40.9	58.8	31,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	230,800 *
17	82.4	96.6	223,800 *
18	81.7	96.4	217,100 *
19	81.1	96.2	210,600 *
20	80.4	96.1	204,600 *
22	79.1	95.7	186,900 *
24	77.8	95.2	169,000 *
26	76.5	94.7	153,700 *
28	75.2	94.2	140,500 *
30	73.9	93.6	128,900 *
32	72.5	93.0	118,800 *
34	71.2	92.3	109,700 *
36	69.8	91.5	99,500 *
38	68.5	90.7	90,600 *
40	67.1	89.9	82,800 *
45	63.6	87.5	67,200 *
50	59.9	84.7	55,300 *
55	56.1	81.4	46,000 *
60	52.1	77.7	38,500 *
65	47.9	73.3	32,400 *
70	43.4	68.2	27,200 *
75	38.4	62.3	22,900 *
100 Ft. BOOM			
18	82.6	106.5	196,900 *
19	82.0	106.4	191,300 *
20	81.4	106.2	185,900 *
22	80.2	105.9	175,900 *
24	79.1	105.5	166,600 *
26	77.9	105.0	152,700 *
28	76.7	104.5	139,900 *
30	75.5	104.0	129,000 *
32	74.4	103.4	118,900 *
34	73.2	102.8	109,900 *
36	71.9	102.2	100,100 *
38	70.7	101.5	91,200 *
40	69.5	100.7	83,400 *
45	66.4	98.6	67,700 *
50	63.2	96.1	55,800 *
55	59.9	93.3	46,400 *
60	56.5	90.1	38,900 *
65	53.0	86.4	32,700 *
70	49.2	82.3	27,500 *
75	45.3	77.5	23,200 *
80	41.0	72.0	19,400 *
85	36.3	65.5	16,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	187,300 *
20	82.2	116.3	181,700 *
22	81.1	116.0	171,400 *
24	80.1	115.7	161,900 *
26	79.0	115.3	153,100 *
28	78.0	114.8	140,400 *
30	76.9	114.4	128,900 *
32	75.8	113.8	118,800 *
34	74.7	113.3	109,800 *
36	73.6	112.7	100,200 *
38	72.5	112.0	91,300 *
40	71.4	111.4	83,500 *
45	68.7	109.5	67,800 *
50	65.8	107.3	55,900 *
55	62.9	104.8	46,600 *
60	59.9	102.0	39,100 *
65	56.8	98.8	32,900 *
70	53.6	95.2	27,700 *
75	50.3	91.2	23,400 *
80	46.8	86.6	19,600 *
85	43.0	81.5	16,300 *
90	39.0	75.6	13,500 *
120 Ft. BOOM			
20	82.9	126.4	170,400 *
22	81.9	126.2	161,700 *
24	80.9	125.8	153,700 *
26	79.9	125.5	146,200 *
28	79.0	125.1	138,000 *
30	78.0	124.6	126,800 *
32	77.0	124.2	117,100 *
34	76.0	123.6	108,700 *
36	75.0	123.1	100,700 *
38	74.0	122.5	91,800 *
40	73.0	121.9	84,000 *
45	70.5	120.2	68,200 *
50	68.0	118.2	56,300 *
55	65.3	116.0	47,000 *
60	62.7	113.5	39,400 *
65	59.9	110.6	33,200 *
70	57.1	107.5	28,100 *
75	54.2	104.0	23,700 *
80	51.2	100.0	19,900 *
85	48.0	95.7	16,600 *
90	44.6	90.8	13,700 *
95	41.1	85.2	11,200 *



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142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

70 Ft. Luffing Jib, Attached at 145 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	153,900 *
24	81.6	136.0	146,000 *
26	80.7	135.6	138,600 *
28	79.8	135.3	131,800 *
30	78.9	134.9	123,900 *
32	78.0	134.4	114,400 *
34	77.1	134.0	106,000 *
36	76.2	133.5	98,600 *
38	75.3	132.9	92,100 *
40	74.4	132.4	84,200 *
45	72.1	130.8	68,500 *
50	69.7	129.0	56,500 *
55	67.4	127.0	47,100 *
60	64.9	124.7	39,600 *
65	62.5	122.1	33,400 *
70	59.9	119.3	28,200 *
75	57.3	116.2	23,800 *
80	54.7	112.7	20,000 *
85	51.9	108.9	16,700 *
90	49.0	104.6	13,800 *
95	46.0	99.9	11,300 *
140 Ft. BOOM			
24	82.2	146.1	137,600 *
26	81.4	145.8	131,200 *
28	80.6	145.4	125,100 *
30	79.7	145.1	119,200 *
32	78.9	144.7	110,900 *
34	78.1	144.2	102,700 *
36	77.2	143.8	95,500 *
38	76.4	143.3	89,100 *
40	75.5	142.7	83,300 *
45	73.4	141.3	68,600 *
50	71.3	139.6	56,600 *
55	69.1	137.8	47,200 *
60	66.8	135.7	39,600 *
65	64.6	133.4	33,400 *
70	62.3	130.8	28,100 *
75	59.9	128.0	23,700 *
80	57.5	124.8	19,900 *
85	55.0	121.4	16,600 *
90	52.5	117.7	13,700 *
95	49.8	113.6	11,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	134,400 *
26	82.0	155.9	127,900 *
28	81.2	155.6	121,800 *
30	80.4	155.2	116,000 *
32	79.7	154.9	108,100 *
34	78.9	154.5	100,000 *
36	78.1	154.0	92,900 *
38	77.3	153.6	86,500 *
40	76.5	153.1	80,900 *
45	74.5	151.7	68,600 *
50	72.5	150.2	56,600 *
55	70.5	148.5	47,200 *
60	68.5	146.5	39,600 *
65	66.4	144.4	33,400 *
70	64.3	142.0	28,100 *
75	62.1	139.5	23,700 *
80	59.9	136.6	19,900 *
85	57.7	133.5	16,600 *
90	55.4	130.1	13,700 *
95	53.0	126.4	11,100 *
160 Ft. BOOM			
26	82.5	166.0	121,000 *
28	81.8	165.7	115,000 *
30	81.0	165.4	109,500 *
32	80.3	165.0	104,200 *
34	79.6	164.7	97,200 *
36	78.8	164.3	90,200 *
38	78.1	163.8	84,000 *
40	77.4	163.4	78,400 *
45	75.5	162.1	66,800 *
50	73.7	160.7	56,700 *
55	71.8	159.1	47,300 *
60	69.9	157.3	39,700 *
65	68.0	155.3	33,400 *
70	66.0	153.1	28,200 *
75	64.0	150.7	23,700 *
80	62.0	148.1	19,900 *
85	59.9	145.3	16,600 *
90	57.8	142.2	13,600 *
95	55.7	138.8	10,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	113,200 *
28	82.2	175.8	107,600 *
30	81.6	175.5	102,300 *
32	80.9	175.2	97,200 *
34	80.2	174.8	92,400 *
36	79.5	174.5	87,800 *
38	78.8	174.0	82,100 *
40	78.1	173.6	76,600 *
45	76.4	172.4	65,100 *
50	74.7	171.1	55,900 *
55	72.9	169.6	47,200 *
60	71.1	167.9	39,600 *
65	69.3	166.1	33,300 *
70	67.5	164.0	28,100 *
75	65.7	161.8	23,600 *
80	63.8	159.4	19,700 *
85	61.9	156.8	16,200 *
90	59.9	153.9	13,000 *
95	58.0	150.9	10,300 *



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

80 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	282,100 *
15	81.8	76.6	272,500 *
16	81.0	76.5	261,800 *
17	80.2	76.3	245,200 *
18	79.3	76.1	230,300 *
19	78.5	75.9	216,800 *
20	77.7	75.6	204,600 *
22	76.0	75.1	183,300 *
24	74.3	74.5	165,400 *
26	72.6	73.9	150,000 *
28	70.8	73.2	136,800 *
30	69.1	72.4	125,200 *
32	67.3	71.5	115,000 *
34	65.5	70.6	105,200 *
36	63.6	69.6	95,000 *
38	61.8	68.5	86,200 *
40	59.9	67.3	78,500 *
45	54.9	64.0	63,100 *
50	49.7	59.9	51,300 *
55	43.9	55.0	42,200 *
60	37.5	48.9	34,800 *
80 Ft. BOOM			
15	82.9	86.8	247,300 *
16	82.1	86.6	239,300 *
17	81.4	86.4	231,500 *
18	80.7	86.3	224,400 *
19	80.0	86.1	217,600 *
20	79.2	85.9	205,400 *
22	77.8	85.4	184,100 *
24	76.3	84.9	166,200 *
26	74.8	84.4	150,800 *
28	73.3	83.8	137,600 *
30	71.8	83.1	126,000 *
32	70.3	82.3	115,900 *
34	68.7	81.6	106,600 *
36	67.2	80.7	96,400 *
38	65.6	79.8	87,500 *
40	64.0	78.8	79,800 *
45	59.9	76.0	64,300 *
50	55.6	72.7	52,500 *
55	51.1	68.8	43,200 *
60	46.2	64.2	35,800 *
65	40.9	58.8	29,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	229,500 *
17	82.4	96.6	222,500 *
18	81.7	96.4	215,800 *
19	81.1	96.2	209,200 *
20	80.4	96.1	203,200 *
22	79.1	95.7	184,500 *
24	77.8	95.2	166,600 *
26	76.5	94.7	151,300 *
28	75.2	94.2	138,100 *
30	73.9	93.6	126,600 *
32	72.5	93.0	116,400 *
34	71.2	92.3	107,400 *
36	69.8	91.5	97,300 *
38	68.5	90.7	88,400 *
40	67.1	89.9	80,700 *
45	63.6	87.5	65,100 *
50	59.9	84.7	53,300 *
55	56.1	81.4	44,000 *
60	52.1	77.7	36,600 *
65	47.9	73.3	30,400 *
70	43.4	68.2	25,300 *
75	38.4	62.3	21,000 *
100 Ft. BOOM			
18	82.6	106.5	195,700 *
19	82.0	106.4	190,000 *
20	81.4	106.2	184,700 *
22	80.2	105.9	174,600 *
24	79.1	105.5	165,300 *
26	77.9	105.0	150,200 *
28	76.7	104.5	137,400 *
30	75.5	104.0	126,500 *
32	74.4	103.4	116,600 *
34	73.2	102.8	107,600 *
36	71.9	102.2	98,100 *
38	70.7	101.5	89,200 *
40	69.5	100.7	81,400 *
45	66.4	98.6	65,700 *
50	63.2	96.1	53,800 *
55	59.9	93.3	44,500 *
60	56.5	90.1	37,000 *
65	53.0	86.4	30,900 *
70	49.2	82.3	25,700 *
75	45.3	77.5	21,400 *
80	41.0	72.0	17,600 *
85	36.3	65.5	14,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	186,100 *
20	82.2	116.3	180,500 *
22	81.1	116.0	170,200 *
24	80.1	115.7	160,600 *
26	79.0	115.3	151,400 *
28	78.0	114.8	138,300 *
30	76.9	114.4	126,800 *
32	75.8	113.8	116,600 *
34	74.7	113.3	107,600 *
36	73.6	112.7	98,300 *
38	72.5	112.0	89,400 *
40	71.4	111.4	81,600 *
45	68.7	109.5	66,000 *
50	65.8	107.3	54,100 *
55	62.9	104.8	44,800 *
60	59.9	102.0	37,300 *
65	56.8	98.8	31,200 *
70	53.6	95.2	26,000 *
75	50.3	91.2	21,700 *
80	46.8	86.6	17,900 *
85	43.0	81.5	14,600 *
90	39.0	75.6	11,800 *
120 Ft. BOOM			
20	82.9	126.4	169,300 *
22	81.9	126.2	160,600 *
24	80.9	125.8	152,500 *
26	79.9	125.5	144,800 *
28	79.0	125.1	135,700 *
30	78.0	124.6	124,500 *
32	77.0	124.2	114,800 *
34	76.0	123.6	106,400 *
36	75.0	123.1	98,900 *
38	74.0	122.5	89,900 *
40	73.0	121.9	82,200 *
45	70.5	120.2	66,500 *
50	68.0	118.2	54,600 *
55	65.3	116.0	45,300 *
60	62.7	113.5	37,700 *
65	59.9	110.6	31,600 *
70	57.1	107.5	26,400 *
75	54.2	104.0	22,000 *
80	51.2	100.0	18,300 *
85	48.0	95.7	15,000 *
90	44.6	90.8	12,100 *

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360 Degree Rating

80 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	152,800 *
24	81.6	136.0	144,900 *
26	80.7	135.6	137,500 *
28	79.8	135.3	130,500 *
30	78.9	134.9	121,700 *
32	78.0	134.4	112,100 *
34	77.1	134.0	103,800 *
36	76.2	133.5	96,500 *
38	75.3	132.9	89,900 *
40	74.4	132.4	82,500 *
45	72.1	130.8	66,700 *
50	69.7	129.0	54,800 *
55	67.4	127.0	45,500 *
60	64.9	124.7	38,000 *
65	62.5	122.1	31,800 *
70	59.9	119.3	26,600 *
75	57.3	116.2	22,200 *
80	54.7	112.7	18,400 *
85	51.9	108.9	15,200 *
90	49.0	104.6	12,300 *
140 Ft. BOOM			
24	82.2	146.1	136,500 *
26	81.4	145.8	130,100 *
28	80.6	145.4	124,100 *
30	79.7	145.1	118,200 *
32	78.9	144.7	108,800 *
34	78.1	144.2	100,600 *
36	77.2	143.8	93,400 *
38	76.4	143.3	87,000 *
40	75.5	142.7	81,300 *
45	73.4	141.3	66,900 *
50	71.3	139.6	55,000 *
55	69.1	137.8	45,600 *
60	66.8	135.7	38,000 *
65	64.6	133.4	31,800 *
70	62.3	130.8	26,600 *
75	59.9	128.0	22,200 *
80	57.5	124.8	18,400 *
85	55.0	121.4	15,100 *
90	52.5	117.7	12,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	131,300 *
26	82.0	155.9	124,900 *
28	81.2	155.6	118,900 *
30	80.4	155.2	113,200 *
32	79.7	154.9	106,000 *
34	78.9	154.5	97,900 *
36	78.1	154.0	90,800 *
38	77.3	153.6	84,500 *
40	76.5	153.1	78,900 *
45	74.5	151.7	67,000 *
50	72.5	150.2	55,100 *
55	70.5	148.5	45,700 *
60	68.5	146.5	38,100 *
65	66.4	144.4	31,900 *
70	64.3	142.0	26,700 *
75	62.1	139.5	22,200 *
80	59.9	136.6	18,400 *
85	57.7	133.5	15,100 *
90	55.4	130.1	12,200 *
160 Ft. BOOM			
26	82.5	166.0	120,000 *
28	81.8	165.7	114,000 *
30	81.0	165.4	108,400 *
32	80.3	165.0	103,100 *
34	79.6	164.7	95,100 *
36	78.8	164.3	88,200 *
38	78.1	163.8	82,000 *
40	77.4	163.4	76,500 *
45	75.5	162.1	64,900 *
50	73.7	160.7	55,200 *
55	71.8	159.1	45,800 *
60	69.9	157.3	38,200 *
65	68.0	155.3	31,900 *
70	66.0	153.1	26,700 *
75	64.0	150.7	22,300 *
80	62.0	148.1	18,500 *
85	59.9	145.3	15,200 *
90	57.8	142.2	12,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	112,300 *
28	82.2	175.8	106,600 *
30	81.6	175.5	101,300 *
32	80.9	175.2	96,200 *
34	80.2	174.8	91,400 *
36	79.5	174.5	86,300 *
38	78.8	174.0	80,200 *
40	78.1	173.6	74,700 *
45	76.4	172.4	63,200 *
50	74.7	171.1	54,100 *
55	72.9	169.6	45,700 *
60	71.1	167.9	38,100 *
65	69.3	166.1	31,900 *
70	67.5	164.0	26,700 *
75	65.7	161.8	22,200 *
80	63.8	159.4	18,400 *
85	61.9	156.8	15,000 *
90	59.9	153.9	11,900 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

90 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	279,700 *
15	81.8	76.6	270,200 *
16	81.0	76.5	257,200 *
17	80.2	76.3	240,700 *
18	79.3	76.1	225,900 *
19	78.5	75.9	212,500 *
20	77.7	75.6	200,500 *
22	76.0	75.1	179,400 *
24	74.3	74.5	161,600 *
26	72.6	73.9	146,400 *
28	70.8	73.2	133,300 *
30	69.1	72.4	121,800 *
32	67.3	71.5	111,700 *
34	65.5	70.6	102,000 *
36	63.6	69.6	91,900 *
38	61.8	68.5	83,300 *
40	59.9	67.3	75,700 *
45	54.9	64.0	60,500 *
50	49.7	59.9	48,900 *
55	43.9	55.0	39,900 *
60	37.5	48.9	32,700 *
80 Ft. BOOM			
15	82.9	86.8	245,200 *
16	82.1	86.6	236,900 *
17	81.4	86.4	229,400 *
18	80.7	86.3	222,300 *
19	80.0	86.1	213,400 *
20	79.2	85.9	201,400 *
22	77.8	85.4	180,300 *
24	76.3	84.9	162,500 *
26	74.8	84.4	147,300 *
28	73.3	83.8	134,200 *
30	71.8	83.1	122,700 *
32	70.3	82.3	112,700 *
34	68.7	81.6	103,600 *
36	67.2	80.7	93,500 *
38	65.6	79.8	84,700 *
40	64.0	78.8	77,100 *
45	59.9	76.0	61,800 *
50	55.6	72.7	50,100 *
55	51.1	68.8	41,000 *
60	46.2	64.2	33,700 *
65	40.9	58.8	27,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,500 *
17	82.4	96.6	220,500 *
18	81.7	96.4	213,600 *
19	81.1	96.2	207,300 *
20	80.4	96.1	201,400 *
22	79.1	95.7	180,700 *
24	77.8	95.2	163,000 *
26	76.5	94.7	147,900 *
28	75.2	94.2	134,800 *
30	73.9	93.6	123,400 *
32	72.5	93.0	113,300 *
34	71.2	92.3	104,400 *
36	69.8	91.5	94,400 *
38	68.5	90.7	85,700 *
40	67.1	89.9	78,100 *
45	63.6	87.5	62,700 *
50	59.9	84.7	51,000 *
55	56.1	81.4	41,900 *
60	52.1	77.7	34,600 *
65	47.9	73.3	28,500 *
70	43.4	68.2	23,500 *
75	38.4	62.3	19,200 *
100 Ft. BOOM			
18	82.6	106.5	193,900 *
19	82.0	106.4	188,200 *
20	81.4	106.2	182,900 *
22	80.2	105.9	172,700 *
24	79.1	105.5	161,200 *
26	77.9	105.0	146,300 *
28	76.7	104.5	133,700 *
30	75.5	104.0	123,000 *
32	74.4	103.4	113,600 *
34	73.2	102.8	104,700 *
36	71.9	102.2	95,300 *
38	70.7	101.5	86,500 *
40	69.5	100.7	78,800 *
45	66.4	98.6	63,400 *
50	63.2	96.1	51,700 *
55	59.9	93.3	42,500 *
60	56.5	90.1	35,100 *
65	53.0	86.4	29,000 *
70	49.2	82.3	24,000 *
75	45.3	77.5	19,700 *
80	41.0	72.0	16,000 *
85	36.3	65.5	12,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	184,400 *
20	82.2	116.3	178,900 *
22	81.1	116.0	168,500 *
24	80.1	115.7	158,900 *
26	79.0	115.3	148,100 *
28	78.0	114.8	135,100 *
30	76.9	114.4	123,700 *
32	75.8	113.8	113,700 *
34	74.7	113.3	104,800 *
36	73.6	112.7	95,600 *
38	72.5	112.0	86,800 *
40	71.4	111.4	79,100 *
45	68.7	109.5	63,700 *
50	65.8	107.3	52,000 *
55	62.9	104.8	42,800 *
60	59.9	102.0	35,400 *
65	56.8	98.8	29,400 *
70	53.6	95.2	24,300 *
75	50.3	91.2	20,000 *
80	46.8	86.6	16,300 *
85	43.0	81.5	13,100 *
90	39.0	75.6	10,300 *
120 Ft. BOOM			
20	82.9	126.4	167,800 *
22	81.9	126.2	159,100 *
24	80.9	125.8	151,000 *
26	79.9	125.5	143,500 *
28	79.0	125.1	132,100 *
30	78.0	124.6	121,100 *
32	77.0	124.2	111,600 *
34	76.0	123.6	103,300 *
36	75.0	123.1	96,000 *
38	74.0	122.5	87,400 *
40	73.0	121.9	79,700 *
45	70.5	120.2	64,200 *
50	68.0	118.2	52,500 *
55	65.3	116.0	43,300 *
60	62.7	113.5	35,900 *
65	59.9	110.6	29,800 *
70	57.1	107.5	24,700 *
75	54.2	104.0	20,400 *
80	51.2	100.0	16,700 *
85	48.0	95.7	13,500 *
90	44.6	90.8	10,700 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

90 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	151,400 *
24	81.6	136.0	143,500 *
26	80.7	135.6	136,100 *
28	79.8	135.3	129,200 *
30	78.9	134.9	118,300 *
32	78.0	134.4	108,900 *
34	77.1	134.0	100,700 *
36	76.2	133.5	93,500 *
38	75.3	132.9	87,100 *
40	74.4	132.4	80,100 *
45	72.1	130.8	64,600 *
50	69.7	129.0	52,800 *
55	67.4	127.0	43,600 *
60	64.9	124.7	36,200 *
65	62.5	122.1	30,100 *
70	59.9	119.3	24,900 *
75	57.3	116.2	20,600 *
80	54.7	112.7	16,900 *
85	51.9	108.9	13,700 *
90	49.0	104.6	10,800 *
140 Ft. BOOM			
24	82.2	146.1	135,200 *
26	81.4	145.8	128,800 *
28	80.6	145.4	122,700 *
30	79.7	145.1	114,900 *
32	78.9	144.7	105,600 *
34	78.1	144.2	97,600 *
36	77.2	143.8	90,500 *
38	76.4	143.3	84,200 *
40	75.5	142.7	78,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
45	73.4	141.3	64,800 *
50	71.3	139.6	53,000 *
55	69.1	137.8	43,700 *
60	66.8	135.7	36,300 *
65	64.6	133.4	30,100 *
70	62.3	130.8	25,000 *
75	59.9	128.0	20,600 *
80	57.5	124.8	16,900 *
85	55.0	121.4	13,700 *
90	52.5	117.7	10,800 *
150 Ft. BOOM			
24	82.8	156.2	130,000 *
26	82.0	155.9	123,600 *
28	81.2	155.6	117,600 *
30	80.4	155.2	111,900 *
32	79.7	154.9	102,800 *
34	78.9	154.5	94,900 *
36	78.1	154.0	87,900 *
38	77.3	153.6	81,700 *
40	76.5	153.1	76,200 *
45	74.5	151.7	64,600 *
50	72.5	150.2	53,100 *
55	70.5	148.5	43,800 *
60	68.5	146.5	36,300 *
65	66.4	144.4	30,200 *
70	64.3	142.0	25,100 *
75	62.1	139.5	20,700 *
80	59.9	136.6	17,000 *
85	57.7	133.5	13,700 *
90	55.4	130.1	10,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
26	82.5	166.0	118,700 *
28	81.8	165.7	112,800 *
30	81.0	165.4	107,200 *
32	80.3	165.0	100,000 *
34	79.6	164.7	92,200 *
36	78.8	164.3	85,300 *
38	78.1	163.8	79,300 *
40	77.4	163.4	73,800 *
45	75.5	162.1	62,500 *
50	73.7	160.7	53,300 *
55	71.8	159.1	44,000 *
60	69.9	157.3	36,500 *
65	68.0	155.3	30,300 *
70	66.0	153.1	25,200 *
75	64.0	150.7	20,800 *
80	62.0	148.1	17,000 *
85	59.9	145.3	13,800 *
90	57.8	142.2	10,900 *
170 Ft. BOOM			
26	82.9	176.1	111,100 *
28	82.2	175.8	105,400 *
30	81.6	175.5	100,100 *
32	80.9	175.2	95,100 *
34	80.2	174.8	89,100 *
36	79.5	174.5	79,300 *
38	78.8	174.0	70,900 *
40	78.1	173.6	63,600 *
45	76.4	172.4	48,800 *
50	74.7	171.1	37,500 *
55	72.9	169.6	28,800 *
60	71.1	167.9	21,700 *
65	69.3	166.1	15,900 *
70	67.5	164.0	11,000 *



Liftcrane Boom Capacities With Luffing Jib Attached

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777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

100 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	281,500 *
15	81.8	76.6	271,800 *
16	81.0	76.5	259,800 *
17	80.2	76.3	243,000 *
18	79.3	76.1	227,900 *
19	78.5	75.9	214,300 *
20	77.7	75.6	201,900 *
22	76.0	75.1	180,400 *
24	74.3	74.5	162,200 *
26	72.6	73.9	146,700 *
28	70.8	73.2	133,300 *
30	69.1	72.4	121,600 *
32	67.3	71.5	111,300 *
34	65.5	70.6	101,600 *
36	63.6	69.6	91,300 *
38	61.8	68.5	82,500 *
40	59.9	67.3	74,800 *
45	54.9	64.0	59,200 *
50	49.7	59.9	47,400 *
55	43.9	55.0	38,200 *
60	37.5	48.9	30,700 *
80 Ft. BOOM			
15	82.9	86.8	246,700 *
16	82.1	86.6	238,300 *
17	81.4	86.4	230,700 *
18	80.7	86.3	223,500 *
19	80.0	86.1	215,400 *
20	79.2	85.9	203,100 *
22	77.8	85.4	181,600 *
24	76.3	84.9	163,400 *
26	74.8	84.4	147,900 *
28	73.3	83.8	134,500 *
30	71.8	83.1	122,800 *
32	70.3	82.3	112,500 *
34	68.7	81.6	103,400 *
36	67.2	80.7	93,200 *
38	65.6	79.8	84,300 *
40	64.0	78.8	76,500 *
45	59.9	76.0	60,900 *
50	55.6	72.7	49,000 *
55	51.1	68.8	39,700 *
60	46.2	64.2	32,200 *
65	40.9	58.8	26,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	228,900 *
17	82.4	96.6	221,800 *
18	81.7	96.4	215,000 *
19	81.1	96.2	208,400 *
20	80.4	96.1	202,300 *
22	79.1	95.7	182,200 *
24	77.8	95.2	164,200 *
26	76.5	94.7	148,700 *
28	75.2	94.2	135,400 *
30	73.9	93.6	123,700 *
32	72.5	93.0	113,400 *
34	71.2	92.3	104,300 *
36	69.8	91.5	94,400 *
38	68.5	90.7	85,500 *
40	67.1	89.9	77,700 *
45	63.6	87.5	62,100 *
50	59.9	84.7	50,200 *
55	56.1	81.4	40,900 *
60	52.1	77.7	33,400 *
65	47.9	73.3	27,200 *
70	43.4	68.2	22,000 *
75	38.4	62.3	17,600 *
100 Ft. BOOM			
18	82.6	106.5	194,900 *
19	82.0	106.4	189,300 *
20	81.4	106.2	183,800 *
22	80.2	105.9	173,500 *
24	79.1	105.5	162,900 *
26	77.9	105.0	147,600 *
28	76.7	104.5	134,700 *
30	75.5	104.0	123,600 *
32	74.4	103.4	113,900 *
34	73.2	102.8	104,800 *
36	71.9	102.2	95,500 *
38	70.7	101.5	86,500 *
40	69.5	100.7	78,700 *
45	66.4	98.6	63,000 *
50	63.2	96.1	51,000 *
55	59.9	93.3	41,700 *
60	56.5	90.1	34,100 *
65	53.0	86.4	27,900 *
70	49.2	82.3	22,700 *
75	45.3	77.5	18,300 *
80	41.0	72.0	14,500 *
85	36.3	65.5	11,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	185,400 *
20	82.2	116.3	179,800 *
22	81.1	116.0	169,300 *
24	80.1	115.7	159,500 *
26	79.0	115.3	149,300 *
28	78.0	114.8	136,000 *
30	76.9	114.4	124,400 *
32	75.8	113.8	114,100 *
34	74.7	113.3	105,100 *
36	73.6	112.7	95,900 *
38	72.5	112.0	87,000 *
40	71.4	111.4	79,200 *
45	68.7	109.5	63,400 *
50	65.8	107.3	51,500 *
55	62.9	104.8	42,200 *
60	59.9	102.0	34,600 *
65	56.8	98.8	28,400 *
70	53.6	95.2	23,200 *
75	50.3	91.2	18,800 *
80	46.8	86.6	15,100 *
85	43.0	81.5	11,800 *
120 Ft. BOOM			
20	82.9	126.4	168,600 *
22	81.9	126.2	159,800 *
24	80.9	125.8	151,600 *
26	79.9	125.5	143,900 *
28	79.0	125.1	133,400 *
30	78.0	124.6	122,100 *
32	77.0	124.2	112,300 *
34	76.0	123.6	103,800 *
36	75.0	123.1	96,300 *
38	74.0	122.5	87,700 *
40	73.0	121.9	79,900 *
45	70.5	120.2	64,100 *
50	68.0	118.2	52,200 *
55	65.3	116.0	42,800 *
60	62.7	113.5	35,200 *
65	59.9	110.6	29,000 *
70	57.1	107.5	23,800 *
75	54.2	104.0	19,400 *
80	51.2	100.0	15,600 *
85	48.0	95.7	12,300 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

100 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	152,100 *
24	81.6	136.0	144,100 *
26	80.7	135.6	136,700 *
28	79.8	135.3	129,700 *
30	78.9	134.9	119,400 *
32	78.0	134.4	109,800 *
34	77.1	134.0	101,400 *
36	76.2	133.5	94,000 *
38	75.3	132.9	87,400 *
40	74.4	132.4	80,400 *
45	72.1	130.8	64,600 *
50	69.7	129.0	52,600 *
55	67.4	127.0	43,200 *
60	64.9	124.7	35,600 *
65	62.5	122.1	29,400 *
70	59.9	119.3	24,200 *
75	57.3	116.2	19,700 *
80	54.7	112.7	15,900 *
85	51.9	108.9	12,600 *
140 Ft. BOOM			
24	82.2	146.1	135,700 *
26	81.4	145.8	129,300 *
28	80.6	145.4	123,200 *
30	79.7	145.1	116,100 *
32	78.9	144.7	106,600 *
34	78.1	144.2	98,300 *
36	77.2	143.8	91,000 *
38	76.4	143.3	84,600 *
40	75.5	142.7	78,800 *
45	73.4	141.3	64,900 *
50	71.3	139.6	52,800 *
55	69.1	137.8	43,400 *
60	66.8	135.7	35,800 *
65	64.6	133.4	29,500 *
70	62.3	130.8	24,300 *
75	59.9	128.0	19,900 *
80	57.5	124.8	16,000 *
85	55.0	121.4	12,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	130,500 *
26	82.0	155.9	124,100 *
28	81.2	155.6	118,100 *
30	80.4	155.2	112,200 *
32	79.7	154.9	103,900 *
34	78.9	154.5	95,700 *
36	78.1	154.0	88,600 *
38	77.3	153.6	82,200 *
40	76.5	153.1	76,600 *
45	74.5	151.7	64,600 *
50	72.5	150.2	53,000 *
55	70.5	148.5	43,600 *
60	68.5	146.5	36,000 *
65	66.4	144.4	29,700 *
70	64.3	142.0	24,500 *
75	62.1	139.5	20,000 *
80	59.9	136.6	16,200 *
85	57.7	133.5	12,900 *
160 Ft. BOOM			
26	82.5	166.0	119,200 *
28	81.8	165.7	113,200 *
30	81.0	165.4	107,600 *
32	80.3	165.0	101,100 *
34	79.6	164.7	90,300 *
36	78.8	164.3	80,300 *
38	78.1	163.8	71,700 *
40	77.4	163.4	64,200 *
45	75.5	162.1	49,000 *
50	73.7	160.7	37,600 *
55	71.8	159.1	28,600 *
60	69.9	157.3	21,300 *
65	68.0	155.3	15,400 *
70	66.0	153.1	10,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	111,500 *
28	82.2	175.8	105,800 *
30	81.6	175.5	100,500 *
32	80.9	175.2	95,400 *
34	80.2	174.8	90,500 *
36	79.5	174.5	80,500 *
38	78.8	174.0	71,800 *
40	78.1	173.6	64,300 *
45	76.4	172.4	49,100 *
50	74.7	171.1	37,600 *
55	72.9	169.6	28,600 *
60	71.1	167.9	21,300 *
65	69.3	166.1	15,400 *
70	67.5	164.0	10,400 *

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

110 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	279,500 *
15	81.8	76.6	269,800 *
16	81.0	76.5	256,700 *
17	80.2	76.3	239,900 *
18	79.3	76.1	224,900 *
19	78.5	75.9	211,400 *
20	77.7	75.6	199,100 *
22	76.0	75.1	177,700 *
24	74.3	74.5	159,600 *
26	72.6	73.9	144,200 *
28	70.8	73.2	130,800 *
30	69.1	72.4	119,200 *
32	67.3	71.5	108,900 *
34	65.5	70.6	99,200 *
36	63.6	69.6	89,100 *
38	61.8	68.5	80,300 *
40	59.9	67.3	72,700 *
45	54.9	64.0	57,300 *
50	49.7	59.9	45,600 *
55	43.9	55.0	36,500 *
60	37.5	48.9	29,100 *
80 Ft. BOOM			
15	82.9	86.8	244,900 *
16	82.1	86.6	236,500 *
17	81.4	86.4	228,900 *
18	80.7	86.3	221,700 *
19	80.0	86.1	212,600 *
20	79.2	85.9	200,300 *
22	77.8	85.4	178,900 *
24	76.3	84.9	160,900 *
26	74.8	84.4	145,500 *
28	73.3	83.8	132,200 *
30	71.8	83.1	120,600 *
32	70.3	82.3	110,300 *
34	68.7	81.6	101,200 *
36	67.2	80.7	91,100 *
38	65.6	79.8	82,200 *
40	64.0	78.8	74,600 *
45	59.9	76.0	59,100 *
50	55.6	72.7	47,300 *
55	51.1	68.8	38,100 *
60	46.2	64.2	30,700 *
65	40.9	58.8	24,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,200 *
17	82.4	96.6	220,100 *
18	81.7	96.4	213,100 *
19	81.1	96.2	206,700 *
20	80.4	96.1	200,700 *
22	79.1	95.7	179,700 *
24	77.8	95.2	161,700 *
26	76.5	94.7	146,400 *
28	75.2	94.2	133,100 *
30	73.9	93.6	121,500 *
32	72.5	93.0	111,300 *
34	71.2	92.3	102,200 *
36	69.8	91.5	92,400 *
38	68.5	90.7	83,600 *
40	67.1	89.9	75,900 *
45	63.6	87.5	60,300 *
50	59.9	84.7	48,600 *
55	56.1	81.4	39,300 *
60	52.1	77.7	31,900 *
65	47.9	73.3	25,800 *
70	43.4	68.2	20,700 *
75	38.4	62.3	16,400 *
100 Ft. BOOM			
18	82.6	106.5	193,400 *
19	82.0	106.4	187,700 *
20	81.4	106.2	182,300 *
22	80.2	105.9	172,000 *
24	79.1	105.5	160,100 *
26	77.9	105.0	144,900 *
28	76.7	104.5	132,100 *
30	75.5	104.0	121,200 *
32	74.4	103.4	111,800 *
34	73.2	102.8	102,800 *
36	71.9	102.2	93,600 *
38	70.7	101.5	84,700 *
40	69.5	100.7	76,900 *
45	66.4	98.6	61,300 *
50	63.2	96.1	49,500 *
55	59.9	93.3	40,200 *
60	56.5	90.1	32,700 *
65	53.0	86.4	26,600 *
70	49.2	82.3	21,500 *
75	45.3	77.5	17,100 *
80	41.0	72.0	13,300 *
85	36.3	65.5	10,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	183,900 *
20	82.2	116.3	178,400 *
22	81.1	116.0	167,900 *
24	80.1	115.7	158,200 *
26	79.0	115.3	147,100 *
28	78.0	114.8	133,900 *
30	76.9	114.4	122,300 *
32	75.8	113.8	112,100 *
34	74.7	113.3	103,100 *
36	73.6	112.7	94,100 *
38	72.5	112.0	85,200 *
40	71.4	111.4	77,500 *
45	68.7	109.5	61,800 *
50	65.8	107.3	50,000 *
55	62.9	104.8	40,700 *
60	59.9	102.0	33,300 *
65	56.8	98.8	27,100 *
70	53.6	95.2	22,000 *
75	50.3	91.2	17,700 *
80	46.8	86.6	13,900 *
85	43.0	81.5	10,700 *
120 Ft. BOOM			
20	82.9	126.4	167,300 *
22	81.9	126.2	158,500 *
24	80.9	125.8	150,300 *
26	79.9	125.5	142,700 *
28	79.0	125.1	131,000 *
30	78.0	124.6	119,800 *
32	77.0	124.2	110,100 *
34	76.0	123.6	101,700 *
36	75.0	123.1	94,300 *
38	74.0	122.5	86,000 *
40	73.0	121.9	78,200 *
45	70.5	120.2	62,600 *
50	68.0	118.2	50,700 *
55	65.3	116.0	41,400 *
60	62.7	113.5	33,900 *
65	59.9	110.6	27,800 *
70	57.1	107.5	22,600 *
75	54.2	104.0	18,300 *
80	51.2	100.0	14,500 *
85	48.0	95.7	11,300 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

110 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	150,800 *
24	81.6	136.0	142,900 *
26	80.7	135.6	135,400 *
28	79.8	135.3	128,300 *
30	78.9	134.9	117,200 *
32	78.0	134.4	107,700 *
34	77.1	134.0	99,300 *
36	76.2	133.5	92,000 *
38	75.3	132.9	85,400 *
40	74.4	132.4	78,800
45	72.1	130.8	63,100
50	69.7	129.0	51,200
55	67.4	127.0	41,900
60	64.9	124.7	34,300
65	62.5	122.1	28,200
70	59.9	119.3	23,000
75	57.3	116.2	18,600
80	54.7	112.7	14,900
85	51.9	108.9	11,600
140 Ft. BOOM			
24	82.2	146.1	134,600 *
26	81.4	145.8	128,200 *
28	80.6	145.4	122,000 *
30	79.7	145.1	113,900 *
32	78.9	144.7	104,500 *
34	78.1	144.2	96,300 *
36	77.2	143.8	89,100 *
38	76.4	143.3	82,700 *
40	75.5	142.7	77,000 *
45	73.4	141.3	63,400
50	71.3	139.6	51,500
55	69.1	137.8	42,100
60	66.8	135.7	34,600
65	64.6	133.4	28,400
70	62.3	130.8	23,200
75	59.9	128.0	18,800
80	57.5	124.8	15,000
85	55.0	121.4	11,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	129,400 *
26	82.0	155.9	123,000 *
28	81.2	155.6	117,000 *
30	80.4	155.2	111,100 *
32	79.7	154.9	99,200
34	78.9	154.5	87,700
36	78.1	154.0	77,800
38	77.3	153.6	69,300
40	76.5	153.1	61,900
45	74.5	151.7	46,900
50	72.5	150.2	35,600
55	70.5	148.5	26,700
60	68.5	146.5	19,600
65	66.4	144.4	13,700
160 Ft. BOOM			
26	82.5	166.0	118,100 *
28	81.8	165.7	112,100 *
30	81.0	165.4	106,500 *
32	80.3	165.0	99,100 *
34	79.6	164.7	88,100
36	78.8	164.3	78,200
38	78.1	163.8	69,700
40	77.4	163.4	62,200
45	75.5	162.1	47,200
50	73.7	160.7	35,900
55	71.8	159.1	27,000
60	69.9	157.3	19,800
65	68.0	155.3	13,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	110,500 *
28	82.2	175.8	104,800 *
30	81.6	175.5	99,400 *
32	80.9	175.2	94,400 *
34	80.2	174.8	88,300
36	79.5	174.5	78,400
38	78.8	174.0	69,800
40	78.1	173.6	62,400
45	76.4	172.4	47,400
50	74.7	171.1	36,000
55	72.9	169.6	27,100
60	71.1	167.9	19,900
65	69.3	166.1	14,000

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
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777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

120 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	276,600 *
15	81.8	76.6	266,900 *
16	81.0	76.5	251,900 *
17	80.2	76.3	235,300 *
18	79.3	76.1	220,300 *
19	78.5	75.9	206,900 *
20	77.7	75.6	194,700 *
22	76.0	75.1	173,400 *
24	74.3	74.5	155,400 *
26	72.6	73.9	140,100 *
28	70.8	73.2	126,900 *
30	69.1	72.4	115,300 *
32	67.3	71.5	105,100 *
34	65.5	70.6	95,600 *
36	63.6	69.6	85,500 *
38	61.8	68.5	76,900 *
40	59.9	67.3	69,400 *
45	54.9	64.0	54,100 *
50	49.7	59.9	42,600 *
55	43.9	55.0	33,600 *
60	37.5	48.9	26,400 *
80 Ft. BOOM			
15	82.9	86.8	242,200 *
16	82.1	86.6	233,900 *
17	81.4	86.4	226,300 *
18	80.7	86.3	219,100 *
19	80.0	86.1	208,300 *
20	79.2	85.9	196,100 *
22	77.8	85.4	174,800 *
24	76.3	84.9	156,900 *
26	74.8	84.4	141,600 *
28	73.3	83.8	128,400 *
30	71.8	83.1	116,900 *
32	70.3	82.3	106,700 *
34	68.7	81.6	97,700 *
36	67.2	80.7	87,700 *
38	65.6	79.8	79,000 *
40	64.0	78.8	71,400 *
45	59.9	76.0	56,100 *
50	55.6	72.7	44,500 *
55	51.1	68.8	35,400 *
60	46.2	64.2	28,100 *
65	40.9	58.8	22,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	224,700 *
17	82.4	96.6	217,600 *
18	81.7	96.4	210,600 *
19	81.1	96.2	204,300 *
20	80.4	96.1	196,900 *
22	79.1	95.7	175,800 *
24	77.8	95.2	157,900 *
26	76.5	94.7	142,600 *
28	75.2	94.2	129,400 *
30	73.9	93.6	117,900 *
32	72.5	93.0	107,800 *
34	71.2	92.3	98,800 *
36	69.8	91.5	89,200 *
38	68.5	90.7	80,500 *
40	67.1	89.9	72,800 *
45	63.6	87.5	57,500 *
50	59.9	84.7	45,900 *
55	56.1	81.4	36,700 *
60	52.1	77.7	29,400 *
65	47.9	73.3	23,400 *
70	43.4	68.2	18,400 *
75	38.4	62.3	14,100 *
100 Ft. BOOM			
18	82.6	106.5	191,100 *
19	82.0	106.4	185,400 *
20	81.4	106.2	180,000 *
22	80.2	105.9	169,700 *
24	79.1	105.5	155,700 *
26	77.9	105.0	140,700 *
28	76.7	104.5	128,100 *
30	75.5	104.0	117,400 *
32	74.4	103.4	108,000 *
34	73.2	102.8	99,500 *
36	71.9	102.2	90,500 *
38	70.7	101.5	81,700 *
40	69.5	100.7	74,000 *
45	66.4	98.6	58,600 *
50	63.2	96.1	46,900 *
55	59.9	93.3	37,700 *
60	56.5	90.1	30,300 *
65	53.0	86.4	24,300 *
70	49.2	82.3	19,200 *
75	45.3	77.5	14,900 *
80	41.0	72.0	11,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	181,800 *
20	82.2	116.3	176,200 *
22	81.1	116.0	165,700 *
24	80.1	115.7	156,100 *
26	79.0	115.3	143,500 *
28	78.0	114.8	130,300 *
30	76.9	114.4	119,000 *
32	75.8	113.8	108,900 *
34	74.7	113.3	99,900 *
36	73.6	112.7	91,100 *
38	72.5	112.0	82,300 *
40	71.4	111.4	74,600 *
45	68.7	109.5	59,200 *
50	65.8	107.3	47,500 *
55	62.9	104.8	38,400 *
60	59.9	102.0	31,000 *
65	56.8	98.8	24,900 *
70	53.6	95.2	19,900 *
75	50.3	91.2	15,600 *
80	46.8	86.6	11,900 *
120 Ft. BOOM			
20	82.9	126.4	165,300 *
22	81.9	126.2	156,500 *
24	80.9	125.8	148,400 *
26	79.9	125.5	140,100 *
28	79.0	125.1	127,100 *
30	78.0	124.6	116,100 *
32	77.0	124.2	106,600 *
34	76.0	123.6	98,200 *
36	75.0	123.1	90,900 *
38	74.0	122.5	83,200 *
40	73.0	121.9	75,500 *
45	70.5	120.2	60,000 *
50	68.0	118.2	48,300 *
55	65.3	116.0	39,100 *
60	62.7	113.5	31,700 *
65	59.9	110.6	25,600 *
70	57.1	107.5	20,500 *
75	54.2	104.0	16,200 *
80	51.2	100.0	12,500 *

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

120 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	149,000 *
24	81.6	136.0	141,000 *
26	80.7	135.6	133,600 *
28	79.8	135.3	124,500 *
30	78.9	134.9	113,600 *
32	78.0	134.4	104,200 *
34	77.1	134.0	95,900 *
36	76.2	133.5	88,700 *
38	75.3	132.9	82,200 *
40	74.4	132.4	76,100
45	72.1	130.8	60,600
50	69.7	129.0	48,800
55	67.4	127.0	39,600
60	64.9	124.7	32,200
65	62.5	122.1	26,100
70	59.9	119.3	21,000
75	57.3	116.2	16,600
80	54.7	112.7	12,900
140 Ft. BOOM			
24	82.2	146.1	132,800 *
26	81.4	145.8	126,400 *
28	80.6	145.4	120,200 *
30	79.7	145.1	108,500
32	78.9	144.7	94,900
34	78.1	144.2	83,600
36	77.2	143.8	73,900
38	76.4	143.3	65,500
40	75.5	142.7	58,200
45	73.4	141.3	43,500
50	71.3	139.6	32,400
55	69.1	137.8	23,600
60	66.8	135.7	16,600
65	64.6	133.4	10,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	127,700 *
26	82.0	155.9	121,300 *
28	81.2	155.6	115,200 *
30	80.4	155.2	107,600 *
32	79.7	154.9	95,400
34	78.9	154.5	84,000
36	78.1	154.0	74,300
38	77.3	153.6	65,900
40	76.5	153.1	58,600
45	74.5	151.7	43,800
50	72.5	150.2	32,700
55	70.5	148.5	23,900
60	68.5	146.5	16,900
65	66.4	144.4	11,100
160 Ft. BOOM			
26	82.5	166.0	116,400 *
28	81.8	165.7	110,400 *
30	81.0	165.4	104,700 *
32	80.3	165.0	95,800 *
34	79.6	164.7	84,500
36	78.8	164.3	74,700
38	78.1	163.8	66,300
40	77.4	163.4	59,000
45	75.5	162.1	44,200
50	73.7	160.7	33,000
55	71.8	159.1	24,200
60	69.9	157.3	17,200
65	68.0	155.3	11,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	108,900 *
28	82.2	175.8	103,200 *
30	81.6	175.5	97,800 *
32	80.9	175.2	92,800 *
34	80.2	174.8	84,700
36	79.5	174.5	75,000
38	78.8	174.0	66,500
40	78.1	173.6	59,200
45	76.4	172.4	44,400
50	74.7	171.1	33,200
55	72.9	169.6	24,400
60	71.1	167.9	17,300
65	69.3	166.1	11,500

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

130 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	280,300 *
15	81.8	76.6	270,400 *
16	81.0	76.5	257,400 *
17	80.2	76.3	240,300 *
18	79.3	76.1	224,900 *
19	78.5	75.9	211,100 *
20	77.7	75.6	198,500 *
22	76.0	75.1	176,600 *
24	74.3	74.5	158,100 *
26	72.6	73.9	142,300 *
28	70.8	73.2	128,700 *
30	69.1	72.4	116,800 *
32	67.3	71.5	106,300 *
34	65.5	70.6	96,600 *
36	63.6	69.6	86,300 *
38	61.8	68.5	77,400 *
40	59.9	67.3	69,600 *
45	54.9	64.0	53,900 *
50	49.7	59.9	42,000 *
55	43.9	55.0	32,700 *
60	37.5	48.9	25,100 *
80 Ft. BOOM			
15	82.9	86.8	245,500 *
16	82.1	86.6	237,000 *
17	81.4	86.4	229,200 *
18	80.7	86.3	221,900 *
19	80.0	86.1	212,700 *
20	79.2	85.9	200,200 *
22	77.8	85.4	178,300 *
24	76.3	84.9	159,900 *
26	74.8	84.4	144,100 *
28	73.3	83.8	130,500 *
30	71.8	83.1	118,600 *
32	70.3	82.3	108,200 *
34	68.7	81.6	98,900 *
36	67.2	80.7	88,800 *
38	65.6	79.8	79,900 *
40	64.0	78.8	72,100 *
45	59.9	76.0	56,300 *
50	55.6	72.7	44,300 *
55	51.1	68.8	34,900 *
60	46.2	64.2	27,300 *
65	40.9	58.8	21,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,700 *
17	82.4	96.6	220,500 *
18	81.7	96.4	213,600 *
19	81.1	96.2	206,900 *
20	80.4	96.1	200,800 *
22	79.1	95.7	179,500 *
24	77.8	95.2	161,100 *
26	76.5	94.7	145,400 *
28	75.2	94.2	131,800 *
30	73.9	93.6	120,000 *
32	72.5	93.0	109,500 *
34	71.2	92.3	100,300 *
36	69.8	91.5	90,600 *
38	68.5	90.7	81,600 *
40	67.1	89.9	73,800 *
45	63.6	87.5	58,000 *
50	59.9	84.7	46,000 *
55	56.1	81.4	36,600 *
60	52.1	77.7	29,000 *
65	47.9	73.3	22,700 *
70	43.4	68.2	17,500 *
75	38.4	62.3	13,100 *
100 Ft. BOOM			
18	82.6	106.5	193,700 *
19	82.0	106.4	188,000 *
20	81.4	106.2	182,400 *
22	80.2	105.9	171,900 *
24	79.1	105.5	159,900 *
26	77.9	105.0	144,300 *
28	76.7	104.5	131,200 *
30	75.5	104.0	120,000 *
32	74.4	103.4	110,300 *
34	73.2	102.8	101,200 *
36	71.9	102.2	92,100 *
38	70.7	101.5	83,100 *
40	69.5	100.7	75,200 *
45	66.4	98.6	59,300 *
50	63.2	96.1	47,200 *
55	59.9	93.3	37,800 *
60	56.5	90.1	30,200 *
65	53.0	86.4	23,900 *
70	49.2	82.3	18,600 *
75	45.3	77.5	14,200 *
80	41.0	72.0	10,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	184,200 *
20	82.2	116.3	178,500 *
22	81.1	116.0	167,900 *
24	80.1	115.7	158,000 *
26	79.0	115.3	146,600 *
28	78.0	114.8	133,100 *
30	76.9	114.4	121,300 *
32	75.8	113.8	110,900 *
34	74.7	113.3	101,700 *
36	73.6	112.7	92,900 *
38	72.5	112.0	83,800 *
40	71.4	111.4	76,000 *
45	68.7	109.5	60,100 *
50	65.8	107.3	48,000 *
55	62.9	104.8	38,600 *
60	59.9	102.0	31,000 *
65	56.8	98.8	24,700 *
70	53.6	95.2	19,500 *
75	50.3	91.2	15,000 *
80	46.8	86.6	11,200 *
120 Ft. BOOM			
20	82.9	126.4	167,400 *
22	81.9	126.2	158,500 *
24	80.9	125.8	150,200 *
26	79.9	125.5	142,500 *
28	79.0	125.1	130,500 *
30	78.0	124.6	119,100 *
32	77.0	124.2	109,200 *
34	76.0	123.6	100,500 *
36	75.0	123.1	92,900 *
38	74.0	122.5	84,900 *
40	73.0	121.9	77,000 *
45	70.5	120.2	61,000 *
50	68.0	118.2	49,000 *
55	65.3	116.0	39,500 *
60	62.7	113.5	31,900 *
65	59.9	110.6	25,600 *
70	57.1	107.5	20,400 *
75	54.2	104.0	15,900 *
80	51.2	100.0	12,100 *

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

130 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	150,900 *
24	81.6	136.0	142,800 *
26	80.7	135.6	135,300 *
28	79.8	135.3	128,100 *
30	78.9	134.9	111,500
32	78.0	134.4	97,600
34	77.1	134.0	85,900
36	76.2	133.5	75,900
38	75.3	132.9	67,200
40	74.4	132.4	59,700
45	72.1	130.8	44,500
50	69.7	129.0	33,000
55	67.4	127.0	23,900
60	64.9	124.7	16,700
65	62.5	122.1	10,700
140 Ft. BOOM			
24	82.2	146.1	134,500 *
26	81.4	145.8	128,000 *
28	80.6	145.4	121,800 *
30	79.7	145.1	112,400
32	78.9	144.7	98,400
34	78.1	144.2	86,600
36	77.2	143.8	76,600
38	76.4	143.3	67,900
40	75.5	142.7	60,300
45	73.4	141.3	45,100
50	71.3	139.6	33,500
55	69.1	137.8	24,400
60	66.8	135.7	17,100
65	64.6	133.4	11,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	129,400 *
26	82.0	155.9	122,900 *
28	81.2	155.6	116,800 *
30	80.4	155.2	110,900 *
32	79.7	154.9	99,000
34	78.9	154.5	87,200
36	78.1	154.0	77,100
38	77.3	153.6	68,400
40	76.5	153.1	60,800
45	74.5	151.7	45,500
50	72.5	150.2	33,900
55	70.5	148.5	24,800
60	68.5	146.5	17,500
65	66.4	144.4	11,500
160 Ft. BOOM			
26	82.5	166.0	118,000 *
28	81.8	165.7	111,900 *
30	81.0	165.4	106,200 *
32	80.3	165.0	98,800 *
34	79.6	164.7	87,700
36	78.8	164.3	77,600
38	78.1	163.8	68,900
40	77.4	163.4	61,300
45	75.5	162.1	46,000
50	73.7	160.7	34,300
55	71.8	159.1	25,200
60	69.9	157.3	17,900
65	68.0	155.3	11,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	110,400 *
28	82.2	175.8	104,600 *
30	81.6	175.5	99,200 *
32	80.9	175.2	94,100 *
34	80.2	174.8	88,100
36	79.5	174.5	78,000
38	78.8	174.0	69,200
40	78.1	173.6	61,600
45	76.4	172.4	46,200
50	74.7	171.1	34,600
55	72.9	169.6	25,400
60	71.1	167.9	18,100
65	69.3	166.1	12,000



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

140 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	277,900 *
15	81.8	76.6	267,900 *
16	81.0	76.5	253,400 *
17	80.2	76.3	236,300 *
18	79.3	76.1	221,000 *
19	78.5	75.9	207,200 *
20	77.7	75.6	194,700 *
22	76.0	75.1	172,800 *
24	74.3	74.5	154,400 *
26	72.6	73.9	138,600 *
28	70.8	73.2	125,000 *
30	69.1	72.4	113,200 *
32	67.3	71.5	102,700 *
34	65.5	70.6	93,200 *
36	63.6	69.6	82,900 *
38	61.8	68.5	74,100 *
40	59.9	67.3	66,400 *
45	54.9	64.0	50,800 *
50	49.7	59.9	39,000 *
55	43.9	55.0	29,800 *
60	37.5	48.9	22,300 *
80 Ft. BOOM			
15	82.9	86.8	243,300 *
16	82.1	86.6	234,800 *
17	81.4	86.4	227,000 *
18	80.7	86.3	219,700 *
19	80.0	86.1	209,000 *
20	79.2	85.9	196,500 *
22	77.8	85.4	174,700 *
24	76.3	84.9	156,400 *
26	74.8	84.4	140,700 *
28	73.3	83.8	127,100 *
30	71.8	83.1	115,200 *
32	70.3	82.3	104,800 *
34	68.7	81.6	95,500 *
36	67.2	80.7	85,700 *
38	65.6	79.8	76,800 *
40	64.0	78.8	69,000 *
45	59.9	76.0	53,400 *
50	55.6	72.7	41,500 *
55	51.1	68.8	32,200 *
60	46.2	64.2	24,700 *
65	40.9	58.8	18,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	225,600 *
17	82.4	96.6	218,400 *
18	81.7	96.4	211,300 *
19	81.1	96.2	204,800 *
20	80.4	96.1	197,700 *
22	79.1	95.7	176,000 *
24	77.8	95.2	157,700 *
26	76.5	94.7	142,100 *
28	75.2	94.2	128,500 *
30	73.9	93.6	116,700 *
32	72.5	93.0	106,300 *
34	71.2	92.3	97,100 *
36	69.8	91.5	87,600 *
38	68.5	90.7	78,700 *
40	67.1	89.9	70,900 *
45	63.6	87.5	55,200 *
50	59.9	84.7	43,400 *
55	56.1	81.4	34,000 *
60	52.1	77.7	26,500 *
65	47.9	73.3	20,300 *
70	43.4	68.2	15,200 *
75	38.4	62.3	10,800 *
100 Ft. BOOM			
18	82.6	106.5	191,800 *
19	82.0	106.4	186,000 *
20	81.4	106.2	180,500 *
22	80.2	105.9	170,000 *
24	79.1	105.5	156,100 *
26	77.9	105.0	140,600 *
28	76.7	104.5	127,600 *
30	75.5	104.0	116,500 *
32	74.4	103.4	106,900 *
34	73.2	102.8	98,200 *
36	71.9	102.2	89,300 *
38	70.7	101.5	80,300 *
40	69.5	100.7	72,500 *
45	66.4	98.6	56,700 *
50	63.2	96.1	44,700 *
55	59.9	93.3	35,400 *
60	56.5	90.1	27,800 *
65	53.0	86.4	21,600 *
70	49.2	82.3	16,400 *
75	45.3	77.5	12,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	182,400 *
20	82.2	116.3	176,700 *
22	81.1	116.0	166,100 *
24	80.1	115.7	156,200 *
26	79.0	115.3	143,500 *
28	78.0	114.8	130,100 *
30	76.9	114.4	118,300 *
32	75.8	113.8	108,000 *
34	74.7	113.3	98,800 *
36	73.6	112.7	90,200 *
38	72.5	112.0	81,200 *
40	71.4	111.4	73,400 *
45	68.7	109.5	57,600 *
50	65.8	107.3	45,700 *
55	62.9	104.8	36,300 *
60	59.9	102.0	28,800 *
65	56.8	98.8	22,500 *
70	53.6	95.2	17,400 *
75	50.3	91.2	12,900 *
120 Ft. BOOM			
20	82.9	126.4	165,700 *
22	81.9	126.2	156,800 *
24	80.9	125.8	148,500 *
26	79.9	125.5	140,500 *
28	79.0	125.1	123,500 *
30	78.0	124.6	106,900 *
32	77.0	124.2	93,100 *
34	76.0	123.6	81,500 *
36	75.0	123.1	71,700 *
38	74.0	122.5	63,100 *
40	73.0	121.9	55,700 *
45	70.5	120.2	40,600 *
50	68.0	118.2	29,200 *
55	65.3	116.0	20,300 *
60	62.7	113.5	13,100 *

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

140 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	149,300 *
24	81.6	136.0	141,200 *
26	80.7	135.6	133,600 *
28	79.8	135.3	124,600
30	78.9	134.9	108,000
32	78.0	134.4	94,200
34	77.1	134.0	82,500
36	76.2	133.5	72,600
38	75.3	132.9	64,100
40	74.4	132.4	56,600
45	72.1	130.8	41,500
50	69.7	129.0	30,100
55	67.4	127.0	21,200
60	64.9	124.7	13,900
140 Ft. BOOM			
24	82.2	146.1	133,000 *
26	81.4	145.8	126,500 *
28	80.6	145.4	120,100 *
30	79.7	145.1	108,900
32	78.9	144.7	95,100
34	78.1	144.2	83,400
36	77.2	143.8	73,400
38	76.4	143.3	64,800
40	75.5	142.7	57,300
45	73.4	141.3	42,200
50	71.3	139.6	30,700
55	69.1	137.8	21,700
60	66.8	135.7	14,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	127,900 *
26	82.0	155.9	121,400 *
28	81.2	155.6	115,200 *
30	80.4	155.2	107,900 *
32	79.7	154.9	95,700
34	78.9	154.5	84,000
36	78.1	154.0	74,000
38	77.3	153.6	65,400
40	76.5	153.1	57,900
45	74.5	151.7	42,700
50	72.5	150.2	31,200
55	70.5	148.5	22,200
60	68.5	146.5	14,900
160 Ft. BOOM			
26	82.5	166.0	116,500 *
28	81.8	165.7	110,500 *
30	81.0	165.4	104,700 *
32	80.3	165.0	95,900 *
34	79.6	164.7	84,600
36	78.8	164.3	74,600
38	78.1	163.8	66,000
40	77.4	163.4	58,400
45	75.5	162.1	43,200
50	73.7	160.7	31,700
55	71.8	159.1	22,700
60	69.9	157.3	15,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	108,900 *
28	82.2	175.8	103,200 *
30	81.6	175.5	97,800 *
32	80.9	175.2	92,700 *
34	80.2	174.8	85,000
36	79.5	174.5	75,000
38	78.8	174.0	66,300
40	78.1	173.6	58,800
45	76.4	172.4	43,500
50	74.7	171.1	32,000
55	72.9	169.6	22,900
60	71.1	167.9	15,600



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

150 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	276,000 *
15	81.8	76.6	266,100 *
16	81.0	76.5	250,400 *
17	80.2	76.3	233,400 *
18	79.3	76.1	218,200 *
19	78.5	75.9	204,400 *
20	77.7	75.6	191,900 *
22	76.0	75.1	170,100 *
24	74.3	74.5	151,800 *
26	72.6	73.9	136,100 *
28	70.8	73.2	122,500 *
30	69.1	72.4	110,700 *
32	67.3	71.5	100,200 *
34	65.5	70.6	90,700
36	63.6	69.6	80,500
38	61.8	68.5	71,800
40	59.9	67.3	64,100
45	54.9	64.0	48,700
50	49.7	59.9	37,000
55	43.9	55.0	27,800
60	37.5	48.9	20,500
80 Ft. BOOM			
15	82.9	86.8	241,700 *
16	82.1	86.6	233,100 *
17	81.4	86.4	225,400 *
18	80.7	86.3	218,000 *
19	80.0	86.1	206,400 *
20	79.2	85.9	193,900 *
22	77.8	85.4	172,200 *
24	76.3	84.9	153,900 *
26	74.8	84.4	138,300 *
28	73.3	83.8	124,700 *
30	71.8	83.1	112,900 *
32	70.3	82.3	102,500 *
34	68.7	81.6	93,300 *
36	67.2	80.7	83,500
38	65.6	79.8	74,600
40	64.0	78.8	66,900
45	59.9	76.0	51,400
50	55.6	72.7	39,600
55	51.1	68.8	30,400
60	46.2	64.2	23,000
65	40.9	58.8	16,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	224,100 *
17	82.4	96.6	216,900 *
18	81.7	96.4	209,800 *
19	81.1	96.2	203,300 *
20	80.4	96.1	195,200 *
22	79.1	95.7	173,600 *
24	77.8	95.2	155,400 *
26	76.5	94.7	139,800 *
28	75.2	94.2	126,300 *
30	73.9	93.6	114,500 *
32	72.5	93.0	104,200 *
34	71.2	92.3	95,000 *
36	69.8	91.5	85,600
38	68.5	90.7	76,700
40	67.1	89.9	69,000
45	63.6	87.5	53,400
50	59.9	84.7	41,600
55	56.1	81.4	32,300
60	52.1	77.7	24,900
65	47.9	73.3	18,800
70	43.4	68.2	13,600
100 Ft. BOOM			
18	82.6	106.5	190,400 *
19	82.0	106.4	184,600 *
20	81.4	106.2	179,100 *
22	80.2	105.9	168,600 *
24	79.1	105.5	153,400 *
26	77.9	105.0	138,100 *
28	76.7	104.5	125,200 *
30	75.5	104.0	114,100 *
32	74.4	103.4	104,600 *
34	73.2	102.8	96,200 *
36	71.9	102.2	87,300
38	70.7	101.5	78,400
40	69.5	100.7	70,600
45	66.4	98.6	55,000
50	63.2	96.1	43,100
55	59.9	93.3	33,800
60	56.5	90.1	26,300
65	53.0	86.4	20,100
70	49.2	82.3	15,000
75	45.3	77.5	10,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	181,100 *
20	82.2	116.3	175,400 *
22	81.1	116.0	164,800 *
24	80.1	115.7	154,900 *
26	79.0	115.3	139,400
28	78.0	114.8	119,200
30	76.9	114.4	102,700
32	75.8	113.8	89,100
34	74.7	113.3	77,700
36	73.6	112.7	67,900
38	72.5	112.0	59,400
40	71.4	111.4	52,100
45	68.7	109.5	37,200
50	65.8	107.3	26,000
55	62.9	104.8	17,200
60	59.9	102.0	10,100
120 Ft. BOOM			
20	82.9	126.4	164,500 *
22	81.9	126.2	155,600 *
24	80.9	125.8	147,300 *
26	79.9	125.5	138,100 *
28	79.0	125.1	120,800
30	78.0	124.6	104,300
32	77.0	124.2	90,600
34	76.0	123.6	79,200
36	75.0	123.1	69,300
38	74.0	122.5	60,900
40	73.0	121.9	53,500
45	70.5	120.2	38,600
50	68.0	118.2	27,300
55	65.3	116.0	18,500
60	62.7	113.5	11,400

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

150 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	148,100 *
24	81.6	136.0	140,100 *
26	80.7	135.6	132,500 *
28	79.8	135.3	122,000
30	78.9	134.9	105,500
32	78.0	134.4	91,800
34	77.1	134.0	80,200
36	76.2	133.5	70,400
38	75.3	132.9	61,900
40	74.4	132.4	54,500
45	72.1	130.8	39,600
50	69.7	129.0	28,300
55	67.4	127.0	19,400
60	64.9	124.7	12,200
140 Ft. BOOM			
24	82.2	146.1	131,900 *
26	81.4	145.8	125,400 *
28	80.6	145.4	119,200 *
30	79.7	145.1	106,500
32	78.9	144.7	92,700
34	78.1	144.2	81,200
36	77.2	143.8	71,300
38	76.4	143.3	62,800
40	75.5	142.7	55,300
45	73.4	141.3	40,300
50	71.3	139.6	28,900
55	69.1	137.8	20,000
60	66.8	135.7	12,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	126,800 *
26	82.0	155.9	120,300 *
28	81.2	155.6	114,200 *
30	80.4	155.2	105,800 *
32	79.7	154.9	93,500
34	78.9	154.5	81,900
36	78.1	154.0	71,900
38	77.3	153.6	63,400
40	76.5	153.1	55,900
45	74.5	151.7	40,900
50	72.5	150.2	29,500
55	70.5	148.5	20,600
60	68.5	146.5	13,400
160 Ft. BOOM			
26	82.5	166.0	115,500 *
28	81.8	165.7	109,500 *
30	81.0	165.4	103,200 *
32	80.3	165.0	94,000 *
34	79.6	164.7	82,500
36	78.8	164.3	72,600
38	78.1	163.8	64,000
40	77.4	163.4	56,600
45	75.5	162.1	41,500
50	73.7	160.7	30,000
55	71.8	159.1	21,100
60	69.9	157.3	13,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	108,000 *
28	82.2	175.8	102,300 *
30	81.6	175.5	96,800 *
32	80.9	175.2	91,700 *
34	80.2	174.8	83,000
36	79.5	174.5	73,000
38	78.8	174.0	64,400
40	78.1	173.6	56,900
45	76.4	172.4	41,800
50	74.7	171.1	30,400
55	72.9	169.6	21,400
60	71.1	167.9	14,200



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code
Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

160 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	273,400 *
15	81.8	76.6	263,500 *
16	81.0	76.5	246,200 *
17	80.2	76.3	229,300 *
18	79.3	76.1	214,000 *
19	78.5	75.9	200,300 *
20	77.7	75.6	187,900 *
22	76.0	75.1	166,100 *
24	74.3	74.5	147,800 *
26	72.6	73.9	132,200 *
28	70.8	73.2	118,700 *
30	69.1	72.4	106,900 *
32	67.3	71.5	96,500 *
34	65.5	70.6	87,000 *
36	63.6	69.6	77,000 *
38	61.8	68.5	68,300 *
40	59.9	67.3	60,700 *
45	54.9	64.0	45,400 *
50	49.7	59.9	33,900 *
55	43.9	55.0	24,800 *
60	37.5	48.9	17,500 *
80 Ft. BOOM			
15	82.9	86.8	239,300 *
16	82.1	86.6	230,800 *
17	81.4	86.4	223,000 *
18	80.7	86.3	215,600 *
19	80.0	86.1	202,500 *
20	79.2	85.9	190,100 *
22	77.8	85.4	168,400 *
24	76.3	84.9	150,200 *
26	74.8	84.4	134,600 *
28	73.3	83.8	121,100 *
30	71.8	83.1	109,400 *
32	70.3	82.3	99,000 *
34	68.7	81.6	89,800 *
36	67.2	80.7	80,200 *
38	65.6	79.8	71,400 *
40	64.0	78.8	63,800 *
45	59.9	76.0	48,400 *
50	55.6	72.7	36,700 *
55	51.1	68.8	27,600 *
60	46.2	64.2	20,200 *
65	40.9	58.8	14,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	221,900 *
17	82.4	96.6	214,600 *
18	81.7	96.4	207,500 *
19	81.1	96.2	201,100 *
20	80.4	96.1	191,600 *
22	79.1	95.7	170,000 *
24	77.8	95.2	151,800 *
26	76.5	94.7	136,300 *
28	75.2	94.2	122,900 *
30	73.9	93.6	111,200 *
32	72.5	93.0	100,800 *
34	71.2	92.3	91,700 *
36	69.8	91.5	82,400 *
38	68.5	90.7	73,600 *
40	67.1	89.9	66,000 *
45	63.6	87.5	50,600 *
50	59.9	84.7	38,900 *
55	56.1	81.4	29,700 *
60	52.1	77.7	22,300 *
65	47.9	73.3	16,200 *
70	43.4	68.2	11,200 *
100 Ft. BOOM			
18	82.6	106.5	188,300 *
19	82.0	106.4	182,500 *
20	81.4	106.2	177,000 *
22	80.2	105.9	166,500 *
24	79.1	105.5	149,400 *
26	77.9	105.0	133,700 *
28	76.7	104.5	113,600 *
30	75.5	104.0	97,400 *
32	74.4	103.4	83,900 *
34	73.2	102.8	72,500 *
36	71.9	102.2	62,800 *
38	70.7	101.5	54,500 *
40	69.5	100.7	47,200 *
45	66.4	98.6	32,500 *
50	63.2	96.1	21,300 *
55	59.9	93.3	12,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	179,100 *
20	82.2	116.3	173,400 *
22	81.1	116.0	162,800 *
24	80.1	115.7	153,000 *
26	79.0	115.3	135,000 *
28	78.0	114.8	115,000 *
30	76.9	114.4	98,700 *
32	75.8	113.8	85,200 *
34	74.7	113.3	73,900 *
36	73.6	112.7	64,200 *
38	72.5	112.0	55,900 *
40	71.4	111.4	48,600 *
45	68.7	109.5	33,900 *
50	65.8	107.3	22,700 *
55	62.9	104.8	14,000 *
120 Ft. BOOM			
20	82.9	126.4	162,700 *
22	81.9	126.2	153,800 *
24	80.9	125.8	145,500 *
26	79.9	125.5	134,500 *
28	79.0	125.1	116,800 *
30	78.0	124.6	100,400 *
32	77.0	124.2	86,900 *
34	76.0	123.6	75,500 *
36	75.0	123.1	65,800 *
38	74.0	122.5	57,400 *
40	73.0	121.9	50,100 *
45	70.5	120.2	35,400 *
50	68.0	118.2	24,200 *
55	65.3	116.0	15,400 *

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

160 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	146,400 *
24	81.6	136.0	138,300 *
26	80.7	135.6	130,600 *
28	79.8	135.3	118,100
30	78.9	134.9	101,700
32	78.0	134.4	88,100
34	77.1	134.0	76,700
36	76.2	133.5	67,000
38	75.3	132.9	58,600
40	74.4	132.4	51,200
45	72.1	130.8	36,500
50	69.7	129.0	25,300
55	67.4	127.0	16,500
140 Ft. BOOM			
24	82.2	146.1	130,300 *
26	81.4	145.8	123,700 *
28	80.6	145.4	116,000 *
30	79.7	145.1	102,900
32	78.9	144.7	89,200
34	78.1	144.2	77,800
36	77.2	143.8	68,000
38	76.4	143.3	59,500
40	75.5	142.7	52,100
45	73.4	141.3	37,300
50	71.3	139.6	26,000
55	69.1	137.8	17,200
60	66.8	135.7	10,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	125,200 *
26	82.0	155.9	118,700 *
28	81.2	155.6	112,500 *
30	80.4	155.2	102,700 *
32	79.7	154.9	90,000
34	78.9	154.5	78,500
36	78.1	154.0	68,700
38	77.3	153.6	60,200
40	76.5	153.1	52,900
45	74.5	151.7	37,900
50	72.5	150.2	26,700
55	70.5	148.5	17,800
60	68.5	146.5	10,700
160 Ft. BOOM			
26	82.5	166.0	113,900 *
28	81.8	165.7	107,900 *
30	81.0	165.4	100,100 *
32	80.3	165.0	90,800
34	79.6	164.7	79,300
36	78.8	164.3	69,400
38	78.1	163.8	60,900
40	77.4	163.4	53,500
45	75.5	162.1	38,600
50	73.7	160.7	27,300
55	71.8	159.1	18,400
60	69.9	157.3	11,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	106,500 *
28	82.2	175.8	100,700 *
30	81.6	175.5	95,300 *
32	80.9	175.2	89,400 *
34	80.2	174.8	79,800
36	79.5	174.5	69,900
38	78.8	174.0	61,400
40	78.1	173.6	54,000
45	76.4	172.4	39,000
50	74.7	171.1	27,700
55	72.9	169.6	18,800
60	71.1	167.9	11,600



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

170 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	271,400 *
15	81.8	76.6	261,200 *
16	81.0	76.5	242,200 *
17	80.2	76.3	225,300 *
18	79.3	76.1	210,200 *
19	78.5	75.9	196,500 *
20	77.7	75.6	184,100 *
22	76.0	75.1	162,400 *
24	74.3	74.5	144,200 *
26	72.6	73.9	128,600 *
28	70.8	73.2	115,200 *
30	69.1	72.4	103,400 *
32	67.3	71.5	93,100 *
34	65.5	70.6	83,700 *
36	63.6	69.6	73,700 *
38	61.8	68.5	65,100 *
40	59.9	67.3	57,600 *
45	54.9	64.0	42,500 *
50	49.7	59.9	31,000 *
55	43.9	55.0	22,000 *
60	37.5	48.9	14,800 *
80 Ft. BOOM			
15	82.9	86.8	237,400 *
16	82.1	86.6	228,900 *
17	81.4	86.4	221,100 *
18	80.7	86.3	212,500 *
19	80.0	86.1	198,900 *
20	79.2	85.9	186,500 *
22	77.8	85.4	165,000 *
24	76.3	84.9	146,800 *
26	74.8	84.4	131,200 *
28	73.3	83.8	117,800 *
30	71.8	83.1	106,100 *
32	70.3	82.3	95,800 *
34	68.7	81.6	86,600 *
36	67.2	80.7	77,100 *
38	65.6	79.8	68,400 *
40	64.0	78.8	60,900 *
45	59.9	76.0	45,600 *
50	55.6	72.7	34,100 *
55	51.1	68.8	25,000 *
60	46.2	64.2	17,700 *
65	40.9	58.8	11,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	220,200 *
17	82.4	96.6	212,900 *
18	81.7	96.4	205,800 *
19	81.1	96.2	199,400 *
20	80.4	96.1	188,100 *
22	79.1	95.7	166,700 *
24	77.8	95.2	148,600 *
26	76.5	94.7	126,600 *
28	75.2	94.2	106,800 *
30	73.9	93.6	90,800 *
32	72.5	93.0	77,600 *
34	71.2	92.3	66,400 *
36	69.8	91.5	56,900 *
38	68.5	90.7	48,700 *
40	67.1	89.9	41,500 *
45	63.6	87.5	27,000 *
50	59.9	84.7	16,100 *
100 Ft. BOOM			
18	82.6	106.5	186,700 *
19	82.0	106.4	180,900 *
20	81.4	106.2	175,400 *
22	80.2	105.9	163,900 *
24	79.1	105.5	145,700 *
26	77.9	105.0	129,500 *
28	76.7	104.5	109,600 *
30	75.5	104.0	93,500 *
32	74.4	103.4	80,100 *
34	73.2	102.8	68,900 *
36	71.9	102.2	59,300 *
38	70.7	101.5	51,100 *
40	69.5	100.7	43,800 *
45	66.4	98.6	29,300 *
50	63.2	96.1	18,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	177,600 *
20	82.2	116.3	171,900 *
22	81.1	116.0	161,300 *
24	80.1	115.7	149,900 *
26	79.0	115.3	131,000 *
28	78.0	114.8	111,100 *
30	76.9	114.4	95,000 *
32	75.8	113.8	81,700 *
34	74.7	113.3	70,500 *
36	73.6	112.7	60,900 *
38	72.5	112.0	52,600 *
40	71.4	111.4	45,400 *
45	68.7	109.5	30,900 *
50	65.8	107.3	19,800 *
55	62.9	104.8	11,200 *
120 Ft. BOOM			
20	82.9	126.4	161,400 *
22	81.9	126.2	152,400 *
24	80.9	125.8	144,100 *
26	79.9	125.5	131,200 *
28	79.0	125.1	113,000 *
30	78.0	124.6	96,900 *
32	77.0	124.2	83,500 *
34	76.0	123.6	72,200 *
36	75.0	123.1	62,600 *
38	74.0	122.5	54,300 *
40	73.0	121.9	47,100 *
45	70.5	120.2	32,500 *
50	68.0	118.2	21,400 *
55	65.3	116.0	12,800 *

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

New York City Code

Boom No. 78, Luffing Jib No. 139

142,000 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

170 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	145,100 *
24	81.6	136.0	137,000 *
26	80.7	135.6	129,000 *
28	79.8	135.3	114,500
30	78.9	134.9	98,200
32	78.0	134.4	84,800
34	77.1	134.0	73,500
36	76.2	133.5	63,900
38	75.3	132.9	55,600
40	74.4	132.4	48,300
45	72.1	130.8	33,700
50	69.7	129.0	22,600
55	67.4	127.0	13,900
140 Ft. BOOM			
24	82.2	146.1	129,100 *
26	81.4	145.8	122,500 *
28	80.6	145.4	113,000 *
30	79.7	145.1	99,500
32	78.9	144.7	86,000
34	78.1	144.2	74,600
36	77.2	143.8	64,900
38	76.4	143.3	56,600
40	75.5	142.7	49,300
45	73.4	141.3	34,600
50	71.3	139.6	23,400
55	69.1	137.8	14,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	124,000 *
26	82.0	155.9	117,500 *
28	81.2	155.6	110,500 *
30	80.4	155.2	99,800 *
32	79.7	154.9	86,900
34	78.9	154.5	75,500
36	78.1	154.0	65,800
38	77.3	153.6	57,400
40	76.5	153.1	50,100
45	74.5	151.7	35,300
50	72.5	150.2	24,200
55	70.5	148.5	15,400
160 Ft. BOOM			
26	82.5	166.0	112,800 *
28	81.8	165.7	106,700 *
30	81.0	165.4	97,300 *
32	80.3	165.0	87,700
34	79.6	164.7	76,300
36	78.8	164.3	66,600
38	78.1	163.8	58,200
40	77.4	163.4	50,800
45	75.5	162.1	36,000
50	73.7	160.7	24,800
55	71.8	159.1	16,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	105,400 *
28	82.2	175.8	99,600 *
30	81.6	175.5	94,200 *
32	80.9	175.2	86,800 *
34	80.2	174.8	76,900
36	79.5	174.5	67,100
38	78.8	174.0	58,700
40	78.1	173.6	51,400
45	76.4	172.4	36,500
50	74.7	171.1	25,300
55	72.9	169.6	16,500