

Liftcrane Boom Capacities

888 RINGER

Boom No. 67B, 36.6m Mast No. 49A
No Jib Installed
13.7m RINGER Attachment on Screw Jack Pedestals
632 810 kg Auxiliary Counterweight
360 Degree Rating

European Standards
14 m/s Maximum Wind

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with DIN 15018, ISO 4305 (1.25P + 0.1F), and include factors based on a 4.0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 14 650 kg or 29 300 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, etc. beneath boom point sheaves is considered part of main boom load. Reeved hoist line included in boom weight. 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 roller path level within a tolerance of 24 mm in 13.7m and properly supported. Refer to boom rigging **No. 177811** and Wire Rope Specification chart **No. 8077-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

Machine may be operated in winds up to 14 m/s provided crane operator judgment is used to allow for wind effect on

lifted load and other considerations noted on capacity chart are followed. A surface area of 1.2m²/t of rated load has been included in capacity determination. Wind will have a considerable effect on load. Loads with a surface area greater than 1.2m²/t of rated load must be compensated for accordingly by reducing load ratings, reducing operating speeds, or by a combination of both. Recommended stopping operation when wind is above 14 m/s and lowering boom to ground when wind is above 22 m/s.

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 13.7m RINGER attachment, 8 585 mm extendible crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 36.6m No. 49A mast, 16 part boom hoist reeving, boom support straps, and 632 810 kg auxiliary counterweight.

WARNING: Check amount of auxiliary counterweight on machine before using this chart.

Maximum Boom Length Lifted Unassisted

121.9m With Jib Backstay Straps Stowed On Boom

129.5m With Jib Backstay Straps Removed

Load block, hook, and weight ball on ground at start.

Deduct

Deduct 4 540 kg from capacities when jib backstay straps are stowed on boom.

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
38.1m (125 Ft.) BOOM			
12.2	82.6	40.2	591 400 *
14.0	79.8	39.9	536 700 *
16.0	76.7	39.5	486 400 *
18.0	73.6	38.9	444 400 *
20.0	70.4	38.2	408 900 *
22.0	67.2	37.4	378 300 *
24.0	63.8	36.4	351 700 *
26.0	60.4	35.3	328 400 *
28.0	56.8	34.0	302 300 *
30.0	53.1	32.5	268 000 *
32.0	49.1	30.9	239 900 *
34.0	44.9	28.9	215 100 *
36.0	40.4	26.6	193 100 *
38.0	35.4	24.0	173 000 *
40.0	29.6	20.7	154 000 *
42.0	22.4	16.3	135 100 *
45.7m (150 Ft.) BOOM			
13.7	81.9	47.7	539 000 *
14.0	81.5	47.7	531 500 *
16.0	79.0	47.3	481 000 *
18.0	76.4	46.8	439 200 *
20.0	73.8	46.2	403 800 *
22.0	71.2	45.6	373 300 *
24.0	68.5	44.8	346 900 *
26.0	65.7	43.9	323 800 *
28.0	62.9	42.9	303 400 *
30.0	60.0	41.8	285 000 *
32.0	57.1	40.5	262 600 *
34.0	54.0	39.1	240 400 *
36.0	50.8	37.5	218 800 *
38.0	47.4	35.7	199 600 *
40.0	43.8	33.6	182 300 *
42.0	40.0	31.3	166 600 *
44.0	35.8	28.7	151 900 *
46.0	31.2	25.5	137 900 *
48.0	25.7	21.7	124 200 *
50.0	18.8	16.5	109 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
53.3m (175 Ft.) BOOM			
15.2	81.4	55.2	488 700 *
16.0	80.6	55.1	473 800 *
18.0	78.4	54.6	434 300 *
20.0	76.2	54.2	398 600 *
22.0	73.9	53.6	368 300 *
24.0	71.7	52.9	342 000 *
26.0	69.4	52.2	319 000 *
28.0	67.1	51.4	298 600 *
30.0	64.7	50.4	280 500 *
32.0	62.3	49.4	259 800 *
34.0	59.8	48.3	238 900 *
36.0	57.3	47.0	220 900 *
38.0	54.6	45.6	205 200 *
40.0	51.9	44.0	191 400 *
42.0	49.1	42.3	179 100 *
44.0	46.1	40.5	166 500 *
46.0	43.0	38.4	154 100 *
48.0	39.7	36.0	142 600 *
50.0	36.2	33.4	131 800 *
52.0	32.3	30.4	121 400 *
54.0	27.9	26.8	111 300 *
56.0	22.7	22.4	101 000 *
61.0m (200 Ft.) BOOM			
15.2	82.5	62.9	432 100 *
16.0	81.8	62.8	431 700 *
18.0	79.9	62.4	426 800 *
20.0	77.9	62.0	395 500 *
22.0	76.0	61.5	365 300 *
24.0	74.0	61.0	339 100 *
26.0	72.1	60.3	316 200 *
28.0	70.1	59.6	295 900 *
30.0	68.1	58.8	277 900 *
32.0	66.0	57.9	258 900 *
34.0	63.9	57.0	238 000 *
36.0	61.8	55.9	220 000 *
38.0	59.6	54.7	204 200 *
40.0	57.4	53.5	190 300 *
42.0	55.1	52.1	178 000 *
44.0	52.8	50.6	167 000 *
46.0	50.3	49.0	157 200 *
48.0	47.8	47.2	148 300 *
50.0	45.2	45.2	140 300 *
52.0	42.4	43.1	131 800 *
54.0	39.5	40.7	123 300 *
56.0	36.4	38.1	115 000 *
58.0	33.1	35.1	107 200 *
60.0	29.3	31.7	99 400 *
62.0	25.1	27.7	91 600 *
64.0	20.1	22.7	83 400 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
68.6m (225 Ft.) BOOM			
16.8	82.0	70.4	374 900 *
18.0	81.0	70.2	371 100 *
20.0	79.3	69.8	365 000 *
22.0	77.6	69.4	357 100 *
24.0	75.9	68.9	336 900 *
26.0	74.1	68.3	313 100 *
28.0	72.4	67.7	293 000 *
30.0	70.6	67.0	273 900 *
32.0	68.8	66.2	253 800 *
34.0	67.0	65.4	235 800 *
36.0	65.2	64.5	218 900 *
38.0	63.3	63.5	202 900 *
40.0	61.4	62.4	189 000 *
42.0	59.5	61.2	176 600 *
44.0	57.5	60.0	165 500 *
46.0	55.5	58.6	155 600 *
48.0	53.4	57.1	146 700 *
50.0	51.3	55.6	138 600 *
52.0	49.1	53.8	131 200 *
54.0	46.8	52.0	124 400 *
56.0	44.4	50.0	118 300 *
58.0	42.0	47.8	112 600 *
60.0	39.4	45.4	106 300 *
62.0	36.6	42.8	100 000 *
64.0	33.7	39.9	93 800 *
66.0	30.4	36.6	87 800 *
68.0	26.9	32.8	81 700 *
70.0	22.8	28.4	75 600 *



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
76.2m (250 Ft.) BOOM			
16.8	82.8	78.1	327 100 *
18.0	81.9	77.9	324 200 *
20.0	80.4	77.6	319 500 *
22.0	78.8	77.2	314 700 *
24.0	77.3	76.7	309 900 *
26.0	75.8	76.2	304 700 *
28.0	74.2	75.7	279 100 *
30.0	72.6	75.0	257 700 *
32.0	71.0	74.4	239 300 *
34.0	69.4	73.6	223 100 *
36.0	67.8	72.8	208 800 *
38.0	66.2	71.9	196 000 *
40.0	64.5	71.0	184 500 *
42.0	62.8	70.0	173 900 *
44.0	61.1	68.9	164 200 *
46.0	59.4	67.7	154 300 *
48.0	57.6	66.5	145 300 *
50.0	55.8	65.1	137 200 *
52.0	53.9	63.7	129 700 *
54.0	52.0	62.1	122 900 *
56.0	50.1	60.5	116 700 *
58.0	48.1	58.7	110 900 *
60.0	46.0	56.8	105 600 *
62.0	43.8	54.7	100 700 *
64.0	41.6	52.5	96 200 *
66.0	39.2	50.1	91 600 *
68.0	36.8	47.5	86 600 *
70.0	34.1	44.6	81 800 *
72.0	31.3	41.4	77 000 *
74.0	28.2	37.9	72 200 *
76.0	24.8	33.7	67 300 *
78.0	20.8	28.8	62 300 *
83.8m (275 Ft.) BOOM			
18.3	82.4	85.6	286 300 *
20.0	81.3	85.3	283 100 *
22.0	79.9	84.9	279 400 *
24.0	78.5	84.5	275 600 *
26.0	77.1	84.1	271 600 *
28.0	75.7	83.6	261 400 *
30.0	74.2	83.0	240 300 *
32.0	72.8	82.4	223 500 *
34.0	71.4	81.7	208 800 *
36.0	69.9	81.0	195 800 *
38.0	68.5	80.2	184 300 *
40.0	67.0	79.4	173 800 *
42.0	65.5	78.5	164 300 *
44.0	64.0	77.5	155 700 *
46.0	62.4	76.5	147 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
83.8m (275 Ft.) BOOM			
48.0	60.8	75.4	140 300 *
50.0	59.3	74.2	133 400 *
52.0	57.6	72.9	127 000 *
54.0	56.0	71.6	120 800 *
56.0	54.3	70.2	114 500 *
58.0	52.6	68.7	108 700 *
60.0	50.9	67.1	103 400 *
62.0	49.1	65.3	98 500 *
64.0	47.2	63.5	93 900 *
66.0	45.3	61.6	89 700 *
68.0	43.3	59.5	85 700 *
70.0	41.3	57.2	82 100 *
72.0	39.1	54.8	78 400 *
74.0	36.9	52.2	74 400 *
76.0	34.5	49.4	70 600 *
78.0	32.0	46.3	66 700 *
80.0	29.2	42.8	62 900 *
82.0	26.2	38.9	59 100 *
84.0	22.9	34.4	55 100 *
86.0	19.0	29.0	50 900 *
91.4m (300 Ft.) BOOM			
19.8	82.1	93.0	248 700 *
20.0	82.0	93.0	248 400 *
22.0	80.7	92.7	245 500 *
24.0	79.5	92.3	242 600 *
26.0	78.2	91.9	239 500 *
28.0	76.9	91.4	236 400 *
30.0	75.6	90.9	227 100 *
32.0	74.3	90.4	210 100 *
34.0	73.0	89.8	196 500 *
36.0	71.7	89.1	184 400 *
38.0	70.3	88.4	173 800 *
40.0	69.0	87.6	164 100 *
42.0	67.6	86.8	155 400 *
44.0	66.3	85.9	147 500 *
46.0	64.9	85.0	140 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91.4m (300 Ft.) BOOM			
48.0	63.5	84.0	133 500 *
50.0	62.1	83.0	127 200 *
52.0	60.6	81.9	121 400 *
54.0	59.2	80.7	115 900 *
56.0	57.7	79.4	110 700 *
58.0	56.2	78.1	105 800 *
60.0	54.7	76.7	101 200 *
62.0	53.1	75.2	96 900 *
64.0	51.5	73.6	92 700 *
66.0	49.9	72.0	88 400 *
68.0	48.2	70.2	84 400 *
70.0	46.5	68.3	80 700 *
72.0	44.7	66.3	77 200 *
74.0	42.9	64.2	73 900 *
76.0	41.0	61.9	70 700 *
78.0	39.0	59.5	67 400 *
80.0	37.0	56.9	64 200 *
82.0	34.8	54.1	61 100 *
84.0	32.5	51.0	57 900 *
86.0	30.1	47.7	54 800 *
88.0	27.4	44.0	51 600 *
90.0	24.5	39.8	48 400 *
92.0	21.2	34.9	45 000 *
94.0	17.3	29.0	41 400 *

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
99.1m (325 Ft.) BOOM			
19.8	82.7	100.7	212 900 *
20.0	82.6	100.7	212 900 *
22.0	81.4	100.4	212 900 *
24.0	80.3	100.1	212 900 *
26.0	79.1	99.7	212 800 *
28.0	77.9	99.3	211 100 *
30.0	76.7	98.8	208 200 *
32.0	75.5	98.3	196 500 *
34.0	74.3	97.7	183 700 *
36.0	73.1	97.1	172 500 *
38.0	71.9	96.5	162 500 *
40.0	70.7	95.8	153 500 *
42.0	69.4	95.0	145 400 *
44.0	68.2	94.2	138 000 *
46.0	66.9	93.4	131 300 *
48.0	65.7	92.5	125 100 *
50.0	64.4	91.5	119 300 *
52.0	63.1	90.5	114 000 *
54.0	61.8	89.5	108 900 *
56.0	60.5	88.4	104 200 *
58.0	59.1	87.2	99 800 *
60.0	57.8	85.9	95 600 *
62.0	56.4	84.6	91 600 *
64.0	55.0	83.2	87 800 *
66.0	53.5	81.7	84 200 *
68.0	52.1	80.2	80 800 *
70.0	50.6	78.6	77 500 *
72.0	49.0	76.8	74 300 *
74.0	47.5	75.0	71 200 *
76.0	45.9	73.1	68 200 *
78.0	44.2	71.1	65 300 *
80.0	42.5	68.9	62 500 *
82.0	40.8	66.7	59 800 *
84.0	39.0	64.2	57 100 *
86.0	37.1	61.6	54 400 *
88.0	35.1	58.8	51 800 *
90.0	33.0	55.8	49 300 *
92.0	30.8	52.5	46 700 *
94.0	28.4	48.9	44 100 *
96.0	25.8	44.9	41 500 *
98.0	22.9	40.4	38 800 *
100.0	19.7	35.2	35 900 *
102.0	15.8	28.8	32 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
106.7m (350 Ft.) BOOM			
21.3	82.4	108.2	177 300 *
22.0	82.1	108.1	177 300 *
24.0	81.0	107.8	177 300 *
26.0	79.9	107.4	177 300 *
28.0	78.8	107.1	177 300 *
30.0	77.7	106.6	177 300 *
32.0	76.6	106.1	177 300 *
34.0	75.5	105.6	174 800 *
36.0	74.4	105.1	163 100 *
38.0	73.2	104.5	153 700 *
40.0	72.1	103.8	145 200 *
42.0	71.0	103.2	137 600 *
44.0	69.8	102.4	130 600 *
46.0	68.7	101.7	124 300 *
48.0	67.5	100.8	118 500 *
50.0	66.4	100.0	113 100 *
52.0	65.2	99.0	108 000 *
54.0	64.0	98.1	103 400 *
56.0	62.8	97.0	99 100 *
58.0	61.5	96.0	94 900 *
60.0	60.3	94.8	91 000 *
62.0	59.1	93.7	87 400 *
64.0	57.8	92.4	83 900 *
66.0	56.5	91.1	80 500 *
68.0	55.2	89.7	77 400 *
70.0	53.9	88.3	74 300 *
72.0	52.5	86.7	71 400 *
74.0	51.2	85.1	68 600 *
76.0	49.8	83.5	65 800 *
78.0	48.3	81.7	63 200 *
80.0	46.9	79.9	60 600 *
82.0	45.4	77.9	58 200 *
84.0	43.8	75.8	55 800 *
86.0	42.2	73.7	53 400 *
88.0	40.6	71.4	51 100 *
90.0	38.9	68.9	48 800 *
92.0	37.1	66.3	46 600 *
94.0	35.3	63.5	44 300 *
96.0	33.4	60.6	42 100 *
98.0	31.3	57.4	39 900 *
100.0	29.2	53.9	37 700 *
102.0	26.9	50.0	35 500 *
104.0	24.3	45.8	33 200 *
106.0	21.5	40.9	30 800 *
108.0	18.3	35.3	28 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
114.3m (375 Ft.) BOOM			
21.3	82.9	115.9	148 800 *
22.0	82.6	115.8	148 800 *
24.0	81.6	115.5	148 800 *
26.0	80.6	115.2	148 800 *
28.0	79.5	114.8	148 800 *
30.0	78.5	114.4	148 800 *
32.0	77.5	114.0	148 800 *
34.0	76.5	113.5	148 800 *
36.0	75.4	113.0	148 800 *
38.0	74.4	112.4	143 900 *
40.0	73.3	111.8	135 900 *
42.0	72.3	111.2	128 700 *
44.0	71.2	110.5	122 100 *
46.0	70.2	109.8	116 100 *
48.0	69.1	109.1	110 600 *
50.0	68.0	108.3	105 500 *
52.0	66.9	107.4	100 800 *
54.0	65.8	106.5	96 400 *
56.0	64.7	105.6	92 300 *
58.0	63.6	104.6	88 500 *
60.0	62.5	103.6	84 900 *
62.0	61.3	102.5	81 400 *
64.0	60.2	101.3	78 200 *
66.0	59.0	100.1	75 100 *
68.0	57.8	98.9	72 200 *
70.0	56.6	97.6	69 400 *
72.0	55.4	96.2	66 700 *
74.0	54.2	94.8	64 100 *
76.0	52.9	93.3	61 600 *
78.0	51.7	91.7	59 200 *
80.0	50.4	90.1	56 900 *
82.0	49.0	88.4	54 700 *
84.0	47.7	86.5	52 500 *
86.0	46.3	84.7	50 300 *
88.0	44.9	82.7	48 300 *
90.0	43.4	80.6	46 300 *
92.0	42.0	78.4	44 300 *
94.0	40.4	76.1	42 300 *
96.0	38.8	73.6	40 400 *
98.0	37.2	71.0	38 600 *
100.0	35.5	68.3	36 700 *
102.0	33.7	65.3	34 800 *
104.0	31.8	62.2	33 000 *
106.0	29.9	58.8	31 100 *
108.0	27.7	55.1	29 300 *
110.0	25.5	51.0	27 400 *
112.0	23.0	46.5	25 400 *
114.0	20.2	41.3	23 300 *

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
121.9m (400 Ft.) BOOM			
22.9	82.7	123.4	126 000 *
24.0	82.1	123.2	126 000 *
26.0	81.2	122.9	126 000 *
28.0	80.2	122.6	126 000 *
30.0	79.3	122.2	126 000 *
32.0	78.3	121.8	126 000 *
34.0	77.3	121.3	126 000 *
36.0	76.4	120.9	126 000 *
38.0	75.4	120.3	126 000 *
40.0	74.4	119.8	125 200 *
42.0	73.4	119.2	120 500 *
44.0	72.4	118.6	113 800 *
46.0	71.5	117.9	108 100 *
48.0	70.5	117.2	102 800 *
50.0	69.5	116.4	98 000 *
52.0	68.4	115.7	93 500 *
54.0	67.4	114.8	89 400 *
56.0	66.4	114.0	85 500 *
58.0	65.4	113.1	81 800 *
60.0	64.3	112.1	78 400 *
62.0	63.3	111.1	75 200 *
64.0	62.2	110.1	72 200 *
66.0	61.2	109.0	69 300 *
68.0	60.1	107.8	66 600 *
70.0	59.0	106.6	63 900 *
72.0	57.9	105.4	61 500 *
74.0	56.7	104.1	59 000 *
76.0	55.6	102.7	56 700 *
78.0	54.5	101.3	54 500 *
80.0	53.3	99.8	52 400 *
82.0	52.1	98.3	50 300 *
84.0	50.9	96.7	48 400 *
86.0	49.7	95.0	46 400 *
88.0	48.4	93.2	44 500 *
90.0	47.1	91.4	42 700 *
92.0	45.8	89.4	40 900 *
94.0	44.5	87.4	39 100 *
96.0	43.1	85.3	37 500 *
98.0	41.7	83.1	35 800 *
100.0	40.3	80.8	34 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
121.9m (400 Ft.) BOOM			
102.0	38.8	78.3	32 500 *
104.0	37.3	75.7	30 900 *
106.0	35.7	73.0	29 400 *
108.0	34.0	70.1	27 800 *
110.0	32.3	66.9	26 200 *
112.0	30.4	63.6	24 600 *
114.0	28.5	60.0	23 000 *
116.0	26.4	56.1	21 400 *
118.0	24.2	51.8	19 800 *
120.0	21.8	47.0	18 100 *
122.0	19.0	41.5	16 200 *
129.5m (425 Ft.) BOOM			
24.4	82.4	130.9	105 500 *
26.0	81.7	130.6	105 500 *
28.0	80.8	130.3	105 500 *
30.0	79.9	130.0	105 500 *
32.0	79.0	129.6	105 500 *
34.0	78.1	129.1	105 500 *
36.0	77.2	128.7	105 500 *
38.0	76.3	128.2	105 500 *
40.0	75.4	127.7	105 500 *
42.0	74.4	127.1	105 500 *
44.0	73.5	126.5	104 300 *
46.0	72.6	125.9	100 800 *
48.0	71.7	125.3	95 700 *
50.0	70.7	124.6	91 000 *
52.0	69.8	123.8	86 700 *
54.0	68.8	123.1	82 800 *
56.0	67.9	122.3	79 100 *
58.0	66.9	121.4	75 600 *
60.0	65.9	120.5	72 400 *
62.0	65.0	119.6	69 400 *
64.0	64.0	118.6	66 500 *
66.0	63.0	117.6	63 700 *
68.0	62.0	116.6	61 200 *
70.0	61.0	115.5	58 700 *
72.0	60.0	114.3	56 400 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
129.5m (425 Ft.) BOOM			
74.0	58.9	113.1	54 100 *
76.0	57.9	111.9	52 000 *
78.0	56.8	110.6	49 900 *
80.0	55.8	109.2	47 900 *
82.0	54.7	107.8	46 000 *
84.0	53.6	106.3	44 100 *
86.0	52.5	104.8	42 400 *
88.0	51.4	103.2	40 600 *
90.0	50.2	101.6	38 900 *
92.0	49.0	99.9	37 300 *
94.0	47.8	98.1	35 700 *
96.0	46.6	96.2	34 200 *
98.0	45.4	94.2	32 600 *
100.0	44.1	92.2	31 200 *
102.0	42.8	90.1	29 700 *
104.0	41.5	87.8	28 100 *
106.0	40.2	85.5	25 900 *
108.0	38.7	83.0	23 800 *
110.0	37.3	80.4	21 800 *
112.0	35.8	77.7	19 700 *
114.0	34.2	74.8	17 700 *
116.0	32.6	71.7	15 700 *
118.0	30.9	68.4	13 700 *
120.0	29.1	64.9	11 700 *
122.0	27.2	61.1	16 100 *
124.0	25.2	57.0	14 600 *
126.0	23.0	52.5	13 200 *
128.0	20.6	47.4	11 700 *