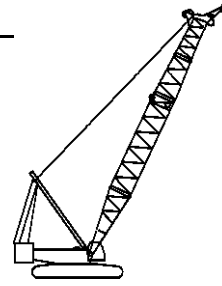


Liftcrane Boom Capacities

Boom No. 58WA with Heavy Lift Top
166 920 kg Crane Counterweight
54 430 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing



Manitowoc

16000
SERIES 4



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 over end of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

Standard upper boom point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 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, hoist lines, etc., beneath boom 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. Drive and idler tumblers must be properly blocked so that centerline of tumblers becomes tipping fulcrum. Swing is limited to that sector shown on Operating Range Diagram **No. 8707-A**. Refer to boom rigging **No. 81020381** Wire Rope Specification chart **No. 9237-A**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-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 Operator's Manual for operating guidelines.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



BOOM ANGLE: Boom angle in degrees (°) 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 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 166 920 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

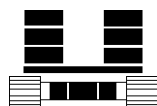
WITH OR WITHOUT BOOM CATWALKS
Maximum Boom Length Lifted Unassisted
Over End of Blocked Crawlers
Boom Length (a) 90,0 m
Load block, hook, and weight ball on ground until combined weights are within capacity of chart. (a) Upper boom point cannot be attached.

Third Line Deduct
Deduct 200 kg from capacities when boom is equipped for three line operation.

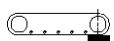
Explanation of Symbols



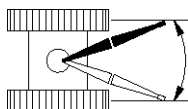
Boom No. 58WA with Heavy Lift Top



Crane Counterweight
+
Carbody Counterweight



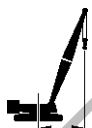
Rating Over End
of Blocked Crawlers



Limited Swing Area



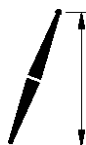
Boom Length



Operating Radius
(see page 1)



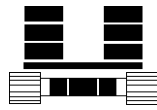
Boom Angle
(see page 1)



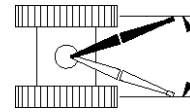
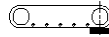
Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



166 920 kg
+
54 430 kg

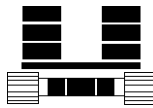


30,0 m			
m	°	m	kg
6,4	82,9	32,3	400 000 *
7,0	81,7	32,2	381 300 *
8,0	79,8	32,0	332 200 *
9,0	77,8	31,8	296 300 *
10,0	75,8	31,5	266 400 *
11,0	73,8	31,2	239 000 *
12,0	71,8	30,8	214 600 *
14,0	67,7	30,0	176 900 *
16,0	63,4	29,0	149 500 *
18,0	59,0	27,8	128 800 *
20,0	54,3	26,3	112 400 *
22,0	49,2	24,6	99 000 *
24,0	43,8	22,6	87 900 *
26,0	37,6	20,1	78 400 *
28,0	30,4	16,8	70 100 *
30,0	20,7	12,2	62 400 *

33,0 m			
m	°	m	kg
6,7	83,0	35,3	372 400 *
7,0	82,5	35,2	367 200 *
8,0	80,7	35,0	331 800 *
9,0	78,9	34,8	295 800 *
10,0	77,2	34,6	266 000 *
11,0	75,4	34,3	237 500 *
12,0	73,5	34,0	213 000 *
14,0	69,8	33,2	175 600 *
16,0	66,0	32,3	148 400 *
18,0	62,1	31,3	127 900 *
20,0	58,0	30,0	111 600 *
22,0	53,7	28,6	98 500 *
24,0	49,1	26,9	87 600 *
26,0	44,2	24,8	78 300 *
28,0	38,7	22,4	70 300 *
30,0	32,5	19,4	63 300 *
32,0	24,7	15,4	56 800 *

36,0 m			
m	°	m	kg
7,3	82,6	38,2	351 500 *
8,0	81,5	38,1	332 100 *
9,0	79,9	37,9	295 600 *
10,0	78,3	37,7	265 700 *
11,0	76,6	37,4	236 200 *
12,0	75,0	37,1	211 800 *
14,0	71,6	36,5	174 600 *
16,0	68,2	35,7	147 700 *
18,0	64,6	34,7	127 200 *
20,0	61,0	33,6	111 200 *
22,0	57,2	32,3	98 100 *
24,0	53,3	30,8	87 300 *
26,0	49,1	29,1	78 300 *
28,0	44,6	27,1	70 400 *
30,0	39,6	24,7	63 600 *
32,0	34,1	21,9	57 600 *
34,0	27,5	18,2	52 000 *
36,0	18,7	13,1	46 800 *

58WA



166 920 kg
+
54 430 kg

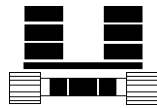


360°

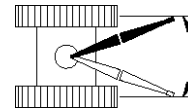
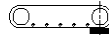
39,0 m			
			
m	°	m	kg
7,9	82,3	41,2	334 200 *
8,0	82,2	41,2	331 300 *
9,0	80,7	41,0	295 200 *
10,0	79,2	40,8	264 900 *
11,0	77,7	40,5	234 700 *
12,0	76,1	40,2	210 400 *
14,0	73,1	39,6	173 400 *
16,0	69,9	38,9	146 500 *
18,0	66,7	38,0	126 200 *
20,0	63,5	37,0	110 300 *
22,0	60,1	35,9	97 300 *
24,0	56,5	34,6	86 600 *
26,0	52,9	33,1	77 600 *
28,0	49,0	31,3	69 900 *
30,0	44,8	29,3	63 200 *
32,0	40,4	27,0	57 300 *
34,0	35,4	24,3	52 100 *
36,0	29,6	20,9	47 300 *
38,0	22,5	16,5	42 800 *

42,0 m			
			
m	°	m	kg
7,9	82,8	44,2	321 900 *
8,0	82,7	44,2	320 500 *
9,0	81,3	44,0	296 000 *
10,0	80,0	43,8	264 000 *
11,0	78,6	43,6	233 500 *
12,0	77,2	43,4	209 300 *
14,0	74,3	42,8	172 500 *
16,0	71,4	42,1	145 800 *
18,0	68,5	41,3	125 600 *
20,0	65,5	40,4	109 700 *
22,0	62,4	39,4	96 800 *
24,0	59,3	38,2	86 200 *
26,0	56,0	36,8	77 300 *
28,0	52,5	35,3	69 700 *
30,0	48,9	33,6	63 100 *
32,0	45,1	31,6	57 300 *
34,0	41,0	29,3	52 200 *
36,0	36,5	26,7	47 500 *
38,0	31,4	23,5	43 300 *
40,0	25,3	19,6	39 400 *

45,0 m			
			
m	°	m	kg
8,5	82,5	47,1	286 300 *
9,0	81,9	47,1	281 800 *
10,0	80,6	46,9	263 500 *
11,0	79,3	46,7	232 200 *
12,0	78,0	46,5	208 000 *
14,0	75,4	45,9	171 300 *
16,0	72,7	45,3	144 700 *
18,0	70,0	44,6	124 600 *
20,0	67,3	43,7	108 800 *
22,0	64,4	42,8	95 900 *
24,0	61,5	41,7	85 400 *
26,0	58,6	40,5	76 500 *
28,0	55,5	39,1	69 000 *
30,0	52,2	37,5	62 500 *
32,0	48,9	35,8	56 800 *
34,0	45,3	33,8	51 700 *
36,0	41,5	31,6	47 200 *
38,0	37,4	29,0	43 100 *
40,0	32,8	26,0	39 300 *
42,0	27,4	22,4	35 900 *
44,0	20,8	17,6	32 600 *



166 920 kg
+
54 430 kg

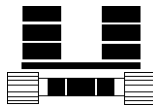


48,0 m			
m	°	m	kg
8,5	83,0	50,2	274 200 *
9,0	82,4	50,1	269 500 *
10,0	81,2	49,9	257 400 *
11,0	80,0	49,7	231 100 *
12,0	78,8	49,5	207 100 *
14,0	76,3	49,0	170 400 *
16,0	73,8	48,5	143 900 *
18,0	71,3	47,8	123 800 *
20,0	68,8	47,0	108 100 *
22,0	66,2	46,1	95 400 *
24,0	63,5	45,1	84 800 *
26,0	60,7	44,0	76 100 *
28,0	57,9	42,7	68 500 *
30,0	55,0	41,3	62 000 *
32,0	52,0	39,8	56 400 *
34,0	48,8	38,0	51 400 *
36,0	45,5	36,1	46 900 *
38,0	42,0	33,9	42 900 *
40,0	38,1	31,4	39 300 *
42,0	33,9	28,5	35 900 *
44,0	29,2	25,1	32 800 *
46,0	23,5	20,8	29 900 *

51,0 m			
m	°	m	kg
9,1	82,7	53,1	255 800 *
10,0	81,8	53,0	247 900 *
11,0	80,6	52,8	229 900 *
12,0	79,5	52,6	205 800 *
14,0	77,2	52,1	169 300 *
16,0	74,8	51,6	142 900 *
18,0	72,5	51,0	122 900 *
20,0	70,1	50,2	107 200 *
22,0	67,6	49,4	94 500 *
24,0	65,2	48,5	84 000 *
26,0	62,6	47,4	75 200 *
28,0	60,0	46,3	67 800 *
30,0	57,4	45,0	61 300 *
32,0	54,6	43,6	55 700 *
34,0	51,8	42,0	50 700 *
36,0	48,8	40,3	46 300 *
38,0	45,7	38,3	42 400 *
40,0	42,4	36,2	38 800 *
42,0	38,8	33,7	35 500 *
44,0	34,9	30,9	32 500 *
46,0	30,6	27,6	29 700 *
48,0	25,7	23,7	27 000 *
50,0	19,5	18,6	24 500 *

54,0 m			
m	°	m	kg
9,8	82,5	56,0	239 700 *
10,0	82,2	56,0	237 700 *
11,0	81,1	55,8	229 300 *
12,0	80,1	55,7	205 100 *
14,0	77,9	55,2	168 700 *
16,0	75,7	54,7	142 300 *
18,0	73,5	54,1	122 300 *
20,0	71,2	53,4	106 700 *
22,0	69,0	52,7	94 000 *
24,0	66,7	51,8	83 600 *
26,0	64,3	50,8	74 900 *
28,0	61,9	49,8	67 400 *
30,0	59,4	48,6	61 000 *
32,0	56,9	47,3	55 400 *
34,0	54,3	45,8	50 500 *
36,0	51,6	44,2	46 100 *
38,0	48,8	42,5	42 200 *
40,0	45,8	40,6	38 600 *
42,0	42,7	38,4	35 400 *
44,0	39,4	36,0	32 500 *
46,0	35,8	33,3	29 700 *
48,0	31,9	30,2	27 200 *
50,0	27,4	26,5	24 800 *
52,0	22,1	21,9	22 600 *

58WA



166 920 kg
+
54 430 kg

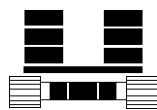


360°

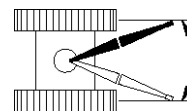
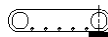
57,0 m			
			
m	°	m	kg
9,8	82,9	59,1	227 800 *
10,0	82,6	59,0	226 500 *
11,0	81,6	58,9	219 800 *
12,0	80,6	58,7	204 900 *
14,0	78,5	58,3	167 600 *
16,0	76,5	57,8	141 300 *
18,0	74,4	57,2	121 400 *
20,0	72,3	56,6	105 800 *
22,0	70,1	55,9	93 100 *
24,0	68,0	55,1	82 700 *
26,0	65,8	54,2	74 100 *
28,0	63,5	53,2	66 600 *
30,0	61,2	52,1	60 300 *
32,0	58,9	50,8	54 700 *
34,0	56,5	49,5	49 800 *
36,0	54,0	48,1	45 400 *
38,0	51,4	46,5	41 500 *
40,0	48,7	44,7	38 000 *
42,0	45,9	42,8	34 800 *
44,0	43,0	40,7	31 900 *
46,0	39,9	38,3	29 300 *
48,0	36,6	35,7	26 800 *
50,0	32,9	32,7	24 500 *
52,0	28,9	29,2	22 300 *
54,0	24,2	25,0	20 200 *
56,0	18,3	19,5	18 200 *

60,0 m			
			
m	°	m	kg
10,4	82,6	62,0	215 000 *
11,0	82,0	61,9	210 800 *
12,0	81,1	61,8	202 000 *
14,0	79,1	61,4	166 800 *
16,0	77,2	60,9	140 500 *
18,0	75,2	60,4	120 700 *
20,0	73,2	59,8	105 100 *
22,0	71,2	59,1	92 500 *
24,0	69,1	58,3	82 100 *
26,0	67,0	57,5	73 500 *
28,0	64,9	56,5	66 000 *
30,0	62,8	55,5	59 700 *
32,0	60,6	54,4	54 200 *
34,0	58,4	53,1	49 300 *
36,0	56,1	51,8	44 900 *
38,0	53,7	50,3	41 000 *
40,0	51,2	48,7	37 600 *
42,0	48,7	47,0	34 400 *
44,0	46,1	45,1	31 600 *
46,0	43,3	43,0	28 900 *
48,0	40,4	40,6	26 500 *
50,0	37,2	38,0	24 200 *
52,0	33,9	35,1	22 100 *
54,0	30,1	31,8	20 100 *
56,0	25,9	27,8	18 200 *
58,0	20,9	23,0	16 300 *

63,0 m			
			
m	°	m	kg
10,4	83,0	65,1	205 700 *
11,0	82,4	65,0	201 800 *
12,0	81,5	64,8	195 900 *
14,0	79,6	64,4	166 100 *
16,0	77,8	64,0	139 600 *
18,0	75,9	63,5	119 700 *
20,0	74,0	62,9	104 200 *
22,0	72,1	62,3	91 600 *
24,0	70,2	61,5	81 300 *
26,0	68,2	60,7	72 600 *
28,0	66,2	59,8	65 200 *
30,0	64,2	58,9	58 900 *
32,0	62,1	57,8	53 400 *
34,0	60,0	56,7	48 500 *
36,0	57,9	55,4	44 200 *
38,0	55,7	54,0	40 400 *
40,0	53,4	52,6	36 900 *
42,0	51,1	51,0	33 700 *
44,0	48,7	49,2	30 900 *
46,0	46,2	47,3	28 300 *
48,0	43,5	45,2	25 900 *
50,0	40,8	42,9	23 600 *
52,0	37,8	40,4	21 500 *
54,0	34,7	37,5	19 600 *
56,0	31,2	34,3	17 800 *
58,0	27,4	30,6	16 000 *
60,0	22,9	26,1	14 300 *
62,0	17,4	20,4	12 600 *



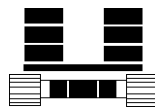
166 920 kg
+
54 430 kg



66,0 m			
m	°	m	kg
11,0	82,8	68,0	193 600 *
12,0	81,9	67,8	188 000 *
14,0	80,1	67,5	165 900 *
16,0	78,3	67,1	139 000 *
18,0	76,6	66,6	119 200 *
20,0	74,8	66,0	103 700 *
22,0	72,9	65,4	91 100 *
24,0	71,1	64,7	80 800 *
26,0	69,3	64,0	72 200 *
28,0	67,4	63,1	64 800 *
30,0	65,5	62,2	58 500 *
32,0	63,5	61,2	53 000 *
34,0	61,5	60,1	48 100 *
36,0	59,5	59,0	43 800 *
38,0	57,5	57,7	40 000 *
40,0	55,4	56,3	36 500 *
42,0	53,2	54,8	33 400 *
44,0	51,0	53,2	30 600 *
46,0	48,7	51,5	28 000 *
48,0	46,3	49,5	25 600 *
50,0	43,8	47,5	23 400 *
52,0	41,1	45,2	21 300 *
54,0	38,4	42,7	19 400 *
56,0	35,4	40,0	17 600 *
58,0	32,2	36,8	15 900 *
60,0	28,7	33,3	14 300 *
62,0	24,6	29,1	12 700 *
64,0	19,9	24,0	11 300 *

69,0 m			
m	°	m	kg
11,6	82,6	70,9	182 200 *
12,0	82,2	70,9	180 100 *
14,0	80,6	70,5	165 500 *
16,0	78,9	70,2	138 100 *
18,0	77,2	69,7	118 300 *
20,0	75,4	69,2	102 800 *
22,0	73,7	68,6	90 300 *
24,0	72,0	67,9	80 000 *
26,0	70,2	67,2	71 300 *
28,0	68,4	66,4	64 000 *
30,0	66,6	65,5	57 700 *
32,0	64,8	64,6	52 200 *
34,0	62,9	63,6	47 300 *
36,0	61,0	62,5	43 100 *
38,0	59,1	61,2	39 300 *
40,0	57,1	60,0	35 800 *
42,0	55,1	58,6	32 700 *
44,0	53,0	57,1	29 900 *
46,0	50,8	55,4	27 300 *
48,0	48,6	53,7	24 900 *
50,0	46,3	51,8	22 800 *
52,0	44,0	49,7	20 700 *
54,0	41,5	47,5	18 800 *
56,0	38,8	45,0	17 100 *
58,0	36,1	42,3	15 400 *
60,0	33,0	39,3	13 800 *
62,0	29,8	35,9	12 300 *
64,0	26,1	32,0	10 900 *
66,0	21,9	27,3	9 500 *

72,0 m			
m	°	m	kg
11,6	82,9	74,0	178 700 *
12,0	82,6	73,9	177 400 *
14,0	81,0	73,6	164 300 *
16,0	79,3	73,2	136 900 *
18,0	77,7	72,8	117 100 *
20,0	76,1	72,3	101 600 *
22,0	74,4	71,7	89 200 *
24,0	72,7	71,1	78 900 *
26,0	71,1	70,4	70 300 *
28,0	69,4	69,6	63 000 *
30,0	67,6	68,8	56 700 *
32,0	65,9	67,9	51 200 *
34,0	64,1	66,9	46 400 *
36,0	62,3	65,9	42 200 *
38,0	60,5	64,8	38 400 *
40,0	58,6	63,5	34 900 *
42,0	56,7	62,2	31 800 *
44,0	54,8	60,8	29 100 *
46,0	52,8	59,3	26 500 *
48,0	50,7	57,7	24 100 *
50,0	48,6	55,9	21 900 *
52,0	46,4	54,0	20 000 *
54,0	44,2	52,0	18 100 *
56,0	41,8	49,8	16 300 *
58,0	39,3	47,3	14 700 *
60,0	36,6	44,7	13 200 *
62,0	33,8	41,8	11 700 *
64,0	30,7	38,5	10 300 *
66,0	27,4	34,7	9 000 *
68,0	23,5	30,4	7 700 *
70,0	19,0	25,0	6 500 *



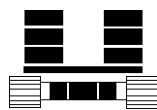
166 920 kg
+
54 430 kg



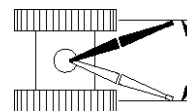
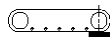
75,0 m			
m	°	m	kg
12,2	82,7	76,9	171 200 *
14,0	81,3	76,6	163 400 *
16,0	79,8	76,3	135 700 *
18,0	78,2	75,8	116 000 *
20,0	76,6	75,4	100 600 *
22,0	75,1	74,8	88 200 *
24,0	73,5	74,2	77 900 *
26,0	71,8	73,6	69 300 *
28,0	70,2	72,8	62 100 *
30,0	68,6	72,1	55 800 *
32,0	66,9	71,2	50 400 *
34,0	65,2	70,3	45 500 *
36,0	63,5	69,3	41 300 *
38,0	61,8	68,2	37 500 *
40,0	60,0	67,1	34 100 *
42,0	58,2	65,8	31 000 *
44,0	56,4	64,5	28 200 *
46,0	54,5	63,1	25 700 *
48,0	52,6	61,5	23 400 *
50,0	50,6	59,9	21 200 *
52,0	48,6	58,2	19 200 *
54,0	46,5	56,3	17 400 *
56,0	44,3	54,2	15 600 *
58,0	42,0	52,0	14 000 *
60,0	39,7	49,7	12 500 *
62,0	37,2	47,0	11 100 *
64,0	34,5	44,2	9 700 *
66,0	31,6	41,0	8 400 *
68,0	28,5	37,4	7 200 *
70,0	25,0	33,3	6 000 *
72,0	20,9	28,4	4 800 *

78,0 m			
m	°	m	kg
12,2	83,0	79,9	162 600 *
14,0	81,7	79,7	156 200 *
16,0	80,2	79,3	135 900 *
18,0	78,7	78,9	115 300 *
20,0	77,2	78,5	99 900 *
22,0	75,6	77,9	87 500 *
24,0	74,1	77,4	77 300 *
26,0	72,6	76,7	68 800 *
28,0	71,0	76,1	61 500 *
30,0	69,5	75,3	55 200 *
32,0	67,9	74,5	49 800 *
34,0	66,3	73,6	45 000 *
36,0	64,6	72,7	40 800 *
38,0	63,0	71,6	37 000 *
40,0	61,3	70,5	33 600 *
42,0	59,6	69,4	30 500 *
44,0	57,9	68,1	27 700 *
46,0	56,1	66,8	25 200 *
48,0	54,3	65,3	22 900 *
50,0	52,4	63,8	20 700 *
52,0	50,5	62,2	18 800 *
54,0	48,6	60,4	16 900 *
56,0	46,6	58,5	15 200 *
58,0	44,5	56,5	13 600 *
60,0	42,3	54,3	12 100 *
62,0	40,0	52,0	10 700 *
64,0	37,6	49,4	9 400 *
66,0	35,1	46,6	8 100 *
68,0	32,4	43,5	6 900 *
70,0	29,5	40,0	5 800 *
72,0	26,2	36,1	4 600 *
74,0	22,6	31,5	3 600 *

81,0 m			
m	°	m	kg
13,7	82,2	82,8	150 300 *
14,0	82,0	82,7	148 900 *
16,0	80,5	82,4	135 700 *
18,0	79,1	82,0	114 300 *
20,0	77,6	81,5	99 000 *
22,0	76,2	81,1	86 600 *
24,0	74,7	80,5	76 400 *
26,0	73,2	79,9	67 900 *
28,0	71,8	79,2	60 600 *
30,0	70,2	78,5	54 300 *
32,0	68,7	77,7	48 900 *
34,0	67,2	76,9	44 100 *
36,0	65,6	76,0	39 900 *
38,0	64,1	75,0	36 200 *
40,0	62,5	74,0	32 800 *
42,0	60,9	72,8	29 700 *
44,0	59,2	71,7	27 000 *
46,0	57,5	70,4	24 400 *
48,0	55,8	69,0	22 100 *
50,0	54,1	67,6	20 000 *
52,0	52,3	66,0	18 000 *
54,0	50,5	64,4	16 200 *
56,0	48,6	62,6	14 500 *
58,0	46,6	60,8	12 900 *
60,0	44,6	58,7	11 400 *
62,0	42,5	56,6	10 000 *
64,0	40,4	54,2	8 700 *
66,0	38,1	51,7	7 500 *
68,0	35,7	49,0	6 300 *
70,0	33,1	46,0	5 100 *
72,0	30,4	42,6	4 100 *



166 920 kg
+
54 430 kg



84,0 m			
m	°	m	kg
13,7	82,5	85,8	145 200 *
14,0	82,3	85,8	144 500 *
16,0	80,9	85,4	134 600 *
18,0	79,5	85,1	113 600 *
20,0	78,1	84,6	98 200 *
22,0	76,7	84,2	85 800 *
24,0	75,3	83,6	75 600 *
26,0	73,9	83,0	67 100 *
28,0	72,4	82,4	59 800 *
30,0	71,0	81,7	53 600 *
32,0	69,5	81,0	48 200 *
34,0	68,1	80,2	43 500 *
36,0	66,6	79,3	39 200 *
38,0	65,1	78,3	35 500 *
40,0	63,5	77,3	32 100 *
42,0	62,0	76,3	29 100 *
44,0	60,4	75,2	26 300 *
46,0	58,8	73,9	23 800 *
48,0	57,2	72,7	21 500 *
50,0	55,6	71,3	19 300 *
52,0	53,9	69,8	17 400 *
54,0	52,1	68,3	15 600 *
56,0	50,4	66,6	13 900 *
58,0	48,6	64,9	12 300 *
60,0	46,7	63,0	10 800 *
62,0	44,8	61,0	9 400 *
64,0	42,8	58,8	8 200 *
66,0	40,7	56,5	6 900 *
68,0	38,5	54,0	5 800 *
70,0	36,2	51,3	4 600 *

87,0 m			
m	°	m	kg
13,7	82,7	88,8	138 300 *
14,0	82,5	88,8	137 500 *
16,0	81,2	88,5	130 000 *
18,0	79,9	88,1	113 100 *
20,0	78,5	87,7	97 300 *
22,0	77,2	87,2	84 900 *
24,0	75,8	86,7	74 800 *
26,0	74,4	86,2	66 200 *
28,0	73,1	85,6	59 000 *
30,0	71,7	84,9	52 800 *
32,0	70,3	84,2	47 400 *
34,0	68,9	83,4	42 600 *
36,0	67,4	82,6	38 400 *
38,0	66,0	81,7	34 700 *
40,0	64,5	80,7	31 300 *
42,0	63,0	79,7	28 300 *
44,0	61,5	78,6	25 500 *
46,0	60,0	77,4	23 000 *
48,0	58,5	76,2	20 700 *
50,0	56,9	74,9	18 600 *
52,0	55,3	73,5	16 600 *
54,0	53,7	72,1	14 800 *
56,0	52,0	70,5	13 200 *
58,0	50,3	68,9	11 600 *
60,0	48,5	67,1	10 100 *
62,0	46,7	65,2	8 700 *
64,0	44,9	63,2	7 400 *
66,0	43,0	61,1	6 200 *
68,0	41,0	58,8	5 100 *
70,0	38,9	56,3	4 000 *

90,0 m			
m	°	m	kg
13,7	83,0	91,8	127 900 *
14,0	82,8	91,8	127 600 *
16,0	81,5	91,5	124 900 *
18,0	80,2	91,2	113 100 *
20,0	78,9	90,8	96 700 *
22,0	77,6	90,3	84 300 *
24,0	76,3	89,8	74 200 *
26,0	75,0	89,3	65 700 *
28,0	73,6	88,7	58 400 *
30,0	72,3	88,1	52 200 *
32,0	71,0	87,4	46 800 *
34,0	69,6	86,6	42 100 *
36,0	68,2	85,8	37 900 *
38,0	66,8	85,0	34 100 *
40,0	65,4	84,0	30 800 *
42,0	64,0	83,1	27 800 *
44,0	62,6	82,0	25 000 *
46,0	61,1	80,9	22 500 *
48,0	59,7	79,8	20 200 *
50,0	58,2	78,5	18 100 *
52,0	56,6	77,2	16 200 *
54,0	55,1	75,8	14 400 *
56,0	53,5	74,3	12 700 *
58,0	51,9	72,8	11 100 *
60,0	50,2	71,1	9 700 *
62,0	48,5	69,3	8 300 *
64,0	46,8	67,5	7 000 *
66,0	45,0	65,5	5 800 *
68,0	43,1	63,3	4 600 *
70,0	41,2	61,1	3 500 *