

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22E WITH LIGHT TAPERED TOP

81 240 kg CRANE COUNTERWEIGHT

19 960 kg CARBODY COUNTERWEIGHT

8 585 mm CRAWLERS EXTENDED

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD OVER FRONT OF MACHINE WITH CRAWLERS EXTENDED AND BLOCKED. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 13 380 kg. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP, CRAWLERS FULLY EXTENDED, AND FRONT TUMBLER PROPERLY BLOCKED SO THAT CENTERLINE OF IDLER TUMBLER BECOMES TIPPING FULCRUM. DRIVE MOTORS MUST BE TO REAR OF MACHINE. SWING IS LIMITED TO THAT SECTOR SHOWN ON OPERATING RANGE DIAGRAM NO. 7770-A. REFER TO BOOM RIGGING NO. 176931 AND WIRE ROPE SPECIFICATION CHART NO. 7774-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.

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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 8 585 mm EXTENDIBLE CRAWLERS, 1 219 mm TREADS, 3 124 mm RETRACTABLE GANTRY, 9 144 mm MAST, 20 PART BOOM HOIST REEVING, FOUR 35 mm BOOM PENDANTS, AND 81 240 kg CRANE COUNTERWEIGHT AND 19 960 kg CARBODY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS	
BOOM LENGTH	JIB NO. 123
(a) 94.5m	---
91.4m	9.1m
88.4m	18.3m
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 94.5m BOOM.	

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
JIB LENGTH	JIB NO. 123
9.1m	1 130 kg
12.2m	1 410 kg
15.2m	1 680 kg
18.3m	2 000 kg

CONSULT JIB CHART FOR JIB CAPACITIES. UPPER BOOM POINT CANNOT BE USED WHEN JIB IS ATTACHED.

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
3 3 - 5	1 1 - 0	7.3	80.1	35.5	120 400*
		8.0	78.9	35.4	119 900*
		9.0	77.1	35.1	110 700*
		10.0	75.4	34.9	99 400*
		11.0	73.6	34.6	90 300*
		12.0	71.8	34.3	82 600*
		13.0	70.0	34.0	76 200*
		14.0	68.2	33.6	70 500*
		15.0	66.3	33.2	65 600*
		16.0	64.4	32.7	61 100
		18.0	60.6	31.7	52 400
		20.0	56.6	30.4	45 400
		22.0	52.4	29.0	39 900
		24.0	47.9	27.3	35 500
		26.0	43.1	25.4	31 900
		28.0	37.8	23.0	28 900
		30.0	31.9	20.2	26 300
		32.0	24.6	16.4	24 100

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
3 6 - 6	1 2 - 0	7.3	80.9	38.6	120 400*
		8.0	79.8	38.5	119 800*
		9.0	78.2	38.3	110 400*
		10.0	76.6	38.0	99 000*
		11.0	75.0	37.8	89 900*
		12.0	73.4	37.5	82 300*
		13.0	71.7	37.2	75 800*
		14.0	70.1	36.8	70 200*
		15.0	68.4	36.5	65 300*
		16.0	66.7	36.0	60 900
		18.0	63.2	35.1	52 300
		20.0	59.7	34.0	45 200
		22.0	56.0	32.8	39 700
		24.0	52.1	31.3	35 300
		26.0	48.0	29.6	31 700
		28.0	43.6	27.7	28 700
		30.0	38.9	25.4	26 100
		32.0	33.6	22.7	23 900
		34.0	27.4	19.3	22 000
		36.0	19.5	14.7	19 900

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS	BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
3 9 · 6	1 3 0	7.9	80.7	41.6	120 400*	4 8 · 8	1 6 0	9.1	81.0	50.6	99 200*
		8.0	80.6	41.6	119 800*			10.0	80.0	50.5	96 100*
		9.0	79.1	41.4	110 000*			11.0	78.8	50.3	88 600*
		10.0	77.6	41.2	98 600*			12.0	77.6	50.1	80 900*
		11.0	76.2	40.9	89 600*			13.0	76.4	49.9	74 400*
		12.0	74.7	40.7	81 900*			14.0	75.2	49.6	68 800*
		13.0	73.2	40.4	75 400*			15.0	74.0	49.3	63 900*
		14.0	71.6	40.1	69 800*			16.0	72.7	49.0	59 600*
		15.0	70.1	39.7	64 900*			18.0	70.3	48.4	51 700
		16.0	68.6	39.3	60 500			20.0	67.7	47.6	44 500
		18.0	65.4	38.5	52 200			22.0	65.2	46.7	39 000
		20.0	62.2	37.5	45 000			24.0	62.6	45.7	34 600
		22.0	58.9	36.4	39 600			26.0	59.9	44.6	31 000
		24.0	55.4	35.1	35 200			28.0	57.1	43.4	28 000
		26.0	51.9	33.6	31 500			30.0	54.3	42.1	25 400
		28.0	48.1	31.9	28 500			32.0	51.3	40.5	23 200
		30.0	44.1	30.0	26 000			34.0	48.2	38.8	21 300
4 2 · 7	1 4 0	32.0	39.7	27.8	23 800	5 1 · 8	1 7 0	36.0	45.0	37.0	19 600
		34.0	35.0	25.2	21 800			38.0	41.6	34.8	18 100
		36.0	29.5	22.0	20 100			40.0	37.9	32.4	16 800
		38.0	23.0	17.9	18 600			42.0	33.9	29.7	15 600
		8.5	80.5	44.6	114 100*			44.0	29.4	26.4	14 500
		9.0	79.9	44.5	109 100*			46.0	24.2	22.5	13 500
		10.0	78.5	44.3	98 400*			9.8	80.9	53.6	91 500*
		11.0	77.2	44.1	89 300*			10.0	80.6	53.6	90 800*
		12.0	75.8	43.8	81 600*			11.0	79.5	53.4	88 200*
		13.0	74.4	43.6	75 100*			12.0	78.3	53.2	80 700*
		14.0	73.0	43.3	69 500*			13.0	77.2	53.0	74 200*
		15.0	71.6	42.9	64 600*			14.0	76.1	52.8	68 600*
		16.0	70.2	42.6	60 300			15.0	74.9	52.5	63 700*
		18.0	67.3	41.8	52 100			16.0	73.8	52.2	59 400*
		20.0	64.3	40.9	44 900			18.0	71.5	51.6	51 500
		22.0	61.3	39.9	39 400			20.0	69.1	50.9	44 400
		24.0	58.2	38.7	35 000			22.0	66.7	50.1	38 900
4 5 · 7	1 5 0	26.0	55.0	37.4	31 400			24.0	64.3	49.1	34 500
		28.0	51.7	35.9	28 400			26.0	61.8	48.1	30 900
		30.0	48.1	34.2	25 800			28.0	59.3	47.0	27 900
		32.0	44.4	32.3	23 600			30.0	56.7	45.7	25 300
		34.0	40.4	30.1	21 700			32.0	54.0	44.4	23 100
		36.0	36.1	27.6	20 000			34.0	51.2	42.8	21 200
		38.0	31.3	24.6	18 500			36.0	48.3	41.1	19 500
		40.0	25.6	20.9	17 200			38.0	45.3	39.3	18 000
		42.0	18.5	16.0	15 600			40.0	42.1	37.2	16 700
		9.1	80.4	47.5	103 100*			42.0	38.6	34.8	15 500
		10.0	79.3	47.4	98 500*			44.0	34.9	32.1	14 400
		11.0	78.0	47.2	88 900*			46.0	30.9	29.0	13 500
		12.0	76.8	47.0	81 200*			48.0	26.2	25.4	12 600
		13.0	75.5	46.7	74 800*			50.0	20.7	20.8	11 500
		14.0	74.2	46.4	69 100*						
		15.0	72.9	46.1	64 300*						
		16.0	71.5	45.8	59 900*						
		18.0	68.9	45.1	51 800						
		20.0	66.2	44.3	44 700						
		22.0	63.4	43.3	39 200						
		24.0	60.6	42.3	34 800						
		26.0	57.6	41.1	31 200						
		28.0	54.6	39.7	28 200						
		30.0	51.5	38.2	25 600						
		32.0	48.2	36.5	23 400						
		34.0	44.7	34.6	21 500						
		36.0	41.1	32.5	19 800						
		38.0	37.1	30.0	18 300						
		40.0	32.7	27.2	17 000						
		42.0	27.7	23.7	15 800						
		44.0	21.7	19.4	14 600						

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5 4 9	1 8 0	10.4	80.7	56.6	86 000*	6 1 0	2 0 0	40.0	50.9	49.7	16 100
		11.0	80.1	56.5	84 500*			42.0	48.4	48.0	14 900
		12.0	79.0	56.3	80 600*			44.0	45.8	46.2	13 800
		13.0	77.9	56.1	73 900*			46.0	43.1	44.1	12 900
		14.0	76.9	55.9	68 300*			48.0	40.3	41.9	12 000
		15.0	75.8	55.6	63 400*			50.0	37.3	39.4	11 200
		16.0	74.7	55.4	59 100*			52.0	34.1	36.6	10 400
		18.0	72.5	54.8	51 300			54.0	30.6	33.5	9 800
		20.0	70.3	54.1	44 300			56.0	26.7	29.8	9 100
		22.0	68.1	53.4	38 800			58.0	22.1	25.4	8 100*
		24.0	65.8	52.5	34 300	6 4 0	2 1 0	11.6	81.0	65.7	70 200*
		26.0	63.5	51.6	30 700			12.0	80.6	65.6	69 500*
		28.0	61.1	50.5	27 700			13.0	79.7	65.4	67 700*
		30.0	58.7	49.4	25 100			14.0	78.8	65.2	66 000*
		32.0	56.3	48.1	22 900			15.0	77.8	65.0	62 600*
		34.0	53.7	46.7	21 000			16.0	76.9	64.8	58 100*
		36.0	51.1	45.1	19 300			18.0	75.1	64.3	50 700
		38.0	48.3	43.4	17 800			20.0	73.2	63.7	43 800
		40.0	45.5	41.6	16 500			22.0	71.3	63.1	38 300
		42.0	42.5	39.5	15 300			24.0	69.4	62.4	33 800
		44.0	39.3	37.2	14 200			26.0	67.5	61.6	30 200
		46.0	35.8	34.6	13 300			28.0	65.6	60.7	27 100
		48.0	32.1	31.6	12 400			30.0	63.6	59.8	24 600
		50.0	27.9	28.2	11 600			32.0	61.6	58.7	22 400
		52.0	23.1	24.0	10 800*			34.0	59.5	57.6	20 400
5 7 9	1 9 0	11.0	80.6	59.6	78 600*	6 7 1	2 2 0	36.0	57.4	56.4	18 700
		12.0	79.6	59.4	76 500*			38.0	55.3	55.1	17 300
		13.0	78.6	59.2	73 800*			40.0	53.1	53.6	15 900
		14.0	77.6	59.0	67 900*			42.0	50.8	52.0	14 700
		15.0	76.5	58.8	63 000*			44.0	48.4	50.3	13 700
		16.0	75.5	58.5	58 700*			46.0	46.0	48.5	12 700
		18.0	73.5	58.0	51 100			48.0	43.4	46.5	11 800
		20.0	71.4	57.3	44 100			50.0	40.8	44.3	11 000
		22.0	69.3	56.6	38 600			52.0	37.9	41.8	10 300
		24.0	67.2	55.8	34 100			54.0	34.9	39.1	9 600
		26.0	65.0	54.9	30 500			56.0	31.7	36.1	8 900
		28.0	62.8	54.0	27 500			58.0	28.1	32.6	8 400
		30.0	60.5	52.9	24 900			60.0	24.0	28.5	7 500*
		32.0	58.2	51.7	22 700			62.0	19.1	23.4	6 400*
		34.0	55.9	50.4	20 800			12.2	80.8	68.7	64 900*
		36.0	53.5	49.0	19 100			13.0	80.1	68.5	63 600*
		38.0	51.0	47.4	17 600			14.0	79.3	68.3	62 100*
		40.0	48.4	45.7	16 300			15.0	78.4	68.1	60 500*
		42.0	45.7	43.9	15 100			16.0	77.5	67.9	58 000*
		44.0	42.8	41.8	14 000			18.0	75.8	67.5	50 500
		46.0	39.8	39.5	13 100			20.0	74.0	66.9	43 600
		48.0	36.6	37.0	12 200			22.0	72.2	66.3	38 000
		50.0	33.2	34.1	11 400			24.0	70.4	65.6	33 600
		52.0	29.4	30.8	10 600			26.0	68.6	64.9	30 000
		54.0	25.0	27.0	9 800			28.0	66.7	64.1	26 900
		56.0	19.8	22.1	8 700*			30.0	64.9	63.2	24 400
6 1 0	2 0 0	11.6	80.5	62.6	73 700*			32.0	63.0	62.2	22 100
		12.0	80.1	62.5	72 900*			34.0	61.0	61.1	20 200
		13.0	79.1	62.3	71 100*			36.0	59.1	60.0	18 500
		14.0	78.2	62.1	67 600*			38.0	57.0	58.7	17 100
		15.0	77.2	61.9	62 700*			40.0	55.0	57.4	15 700
		16.0	76.3	61.7	58 400*			42.0	52.9	55.9	14 600
		18.0	74.3	61.2	50 900			44.0	50.7	54.3	13 500
		20.0	72.4	60.6	43 900			46.0	48.5	52.6	12 500
		22.0	70.4	59.9	38 400			48.0	46.1	50.8	11 600
		24.0	68.4	59.1	33 900			50.0	43.7	48.8	10 800
		26.0	66.3	58.3	30 300			52.0	41.2	46.6	10 100
		28.0	64.3	57.4	27 300			54.0	38.5	44.2	9 400
		30.0	62.2	56.4	24 700			56.0	35.7	41.6	8 800
		32.0	60.0	55.3	22 500			58.0	32.6	38.6	8 200
		34.0	57.8	54.0	20 600			60.0	29.3	35.3	7 600
		36.0	55.6	52.7	18 900			62.0	25.6	31.4	6 900*
		38.0	53.2	51.3	17 400			64.0	21.3	26.8	5 900*

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7 0 :1	2 3 0	12.8	80.7	71.7	59 700*	7 6 :2	2 5 0	13.4	81.0	77.7	49 500*
		13.0	80.6	71.6	59 600*			14.0	80.6	77.6	49 400*
		14.0	79.7	71.4	58 700*			15.0	79.8	77.5	49 100*
		15.0	78.9	71.3	57 300*			16.0	79.0	77.3	48 700*
		16.0	78.1	71.1	55 800*			18.0	77.5	76.9	47 200*
		18.0	76.4	70.6	50 500*			20.0	76.0	76.4	43 200
		20.0	74.7	70.1	43 400			22.0	74.4	75.9	37 500
		22.0	73.0	69.5	37 800			24.0	72.8	75.3	33 100
		24.0	71.3	68.9	33 400			26.0	71.3	74.6	29 500
		26.0	69.6	68.2	29 800			28.0	69.7	73.9	26 400
		28.0	67.8	67.4	26 700			30.0	68.1	73.1	23 800
		30.0	66.0	66.5	24 100			32.0	66.4	72.3	21 600
		32.0	64.2	65.6	21 900			34.0	64.8	71.4	19 700
		34.0	62.4	64.6	20 000			36.0	63.1	70.4	18 000
		36.0	60.5	63.5	18 300			38.0	61.4	69.4	16 500
		38.0	58.6	62.3	16 800			40.0	59.7	68.2	15 200
		40.0	56.7	61.1	15 500			42.0	57.9	67.0	14 000
		42.0	54.7	59.7	14 300			44.0	56.1	65.7	12 900
		44.0	52.7	58.2	13 200			46.0	54.3	64.3	11 900
		46.0	50.6	56.6	12 300			48.0	52.4	62.8	11 100
		48.0	48.5	54.9	11 400			50.0	50.5	61.3	10 200
		50.0	46.3	53.1	10 600			52.0	48.5	59.5	9 500
		52.0	43.9	51.1	9 800			54.0	46.5	57.7	8 800
		54.0	41.5	48.9	9 200			56.0	44.4	55.7	8 200
		56.0	39.0	46.6	8 500			58.0	42.2	53.6	7 600
7 3 :2	2 4 0	58.0	36.3	44.0	8 000	7 9 :2	2 6 0	60.0	39.9	51.3	7 100
		60.0	33.5	41.1	7 400			62.0	37.5	48.8	6 500
		62.0	30.4	37.9	6 900			64.0	34.9	46.1	6 100
		64.0	27.0	34.3	6 100*			66.0	32.2	43.1	5 600
		66.0	23.1	30.0	5 200*			68.0	29.3	39.7	4 900*
		68.0	18.5	24.7	4 400*			70.0	26.0	35.9	4 200*
		13.4	80.6	74.6	54 400*			72.0	22.3	31.4	3 400*
		14.0	80.2	74.5	54 300*			74.0	18.0	26.0	2 700*
		15.0	79.4	74.4	53 900*			14.0	80.9	80.7	45 300*
		16.0	78.6	74.2	53 100*			15.0	80.2	80.6	45 000*
		18.0	77.0	73.7	49 700*			16.0	79.5	80.4	44 700*
		20.0	75.4	73.2	43 200			18.0	78.0	80.0	44 100*
		22.0	73.7	72.7	37 700			20.0	76.5	79.5	42 300
		24.0	72.1	72.1	33 200			22.0	75.0	79.0	37 400
		26.0	70.5	71.4	29 600			24.0	73.5	78.5	32 900
		28.0	68.8	70.7	26 500			26.0	72.0	77.8	29 200
		30.0	67.1	69.8	23 900			28.0	70.5	77.2	26 200
		32.0	65.4	69.0	21 700			30.0	68.9	76.4	23 600
		34.0	63.6	68.0	19 800			32.0	67.4	75.6	21 400
		36.0	61.9	67.0	18 100			34.0	65.8	74.7	19 500
		38.0	60.1	65.9	16 600			36.0	64.2	73.8	17 800
		40.0	58.3	64.7	15 300			38.0	62.6	72.8	16 300
		42.0	56.4	63.4	14 100			40.0	61.0	71.7	15 000
		44.0	54.5	62.0	13 000			42.0	59.3	70.6	13 700
		46.0	52.6	60.5	12 100			44.0	57.6	69.4	12 700
		48.0	50.6	59.0	11 200			46.0	55.9	68.1	11 700
		50.0	48.5	57.2	10 400			48.0	54.1	66.6	10 800
		52.0	46.4	55.4	9 600			50.0	52.3	65.2	10 000
		54.0	44.2	53.4	8 900			52.0	50.4	63.6	9 300
		56.0	41.9	51.3	8 300			54.0	48.5	61.8	8 600
		58.0	39.5	49.0	7 700			56.0	46.6	60.0	8 000
		60.0	36.9	46.4	7 200			58.0	44.5	58.1	7 400
		62.0	34.2	43.6	6 700			60.0	42.4	55.9	6 800
		64.0	31.3	40.5	6 200			62.0	40.3	53.7	6 300
		66.0	28.2	37.0	5 400*			64.0	38.0	51.2	5 800
		68.0	24.7	33.0	4 700*			66.0	35.6	48.5	5 400
		70.0	20.6	28.2	3 900*			68.0	33.0	45.6	4 900
								70.0	30.2	42.4	4 200*
								72.0	27.2	38.7	3 600*
								74.0	23.9	34.5	2 900*
								76.0	20.0	29.5	2 200*

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFT CRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22E WITH LIGHT TAPERED TOP

81 240 kg CRANE COUNTERWEIGHT

19 960 kg CARBODY COUNTERWEIGHT

8 585 mm CRAWLERS EXTENDED

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS	BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
8 2 · 3	2 7 0	14.6	80.8	83.7	41 400*	8 8 · 4	2 9 0	16.8	80.1	89.5	34 100*
		15.0	80.6	83.6	41 300*			18.0	79.3	89.3	33 800*
		16.0	79.9	83.5	41 000*			20.0	77.9	88.9	33 100*
		18.0	78.5	83.1	40 400*			22.0	76.6	88.4	31 800*
		20.0	77.0	82.7	39 800*			24.0	75.3	87.9	30 600*
		22.0	75.6	82.2	37 500			26.0	73.9	87.4	28 700
		24.0	74.2	81.6	32 700			28.0	72.6	86.8	25 600
		26.0	72.7	81.0	29 100			30.0	71.2	86.1	23 000
		28.0	71.2	80.4	26 000			32.0	69.8	85.4	20 800
		30.0	69.8	79.7	23 400			34.0	68.4	84.7	18 800
		32.0	68.3	78.9	21 200			36.0	67.0	83.9	17 100
		34.0	66.8	78.1	19 200			38.0	65.6	83.0	15 700
		36.0	65.2	77.2	17 500			40.0	64.2	82.0	14 300
		38.0	63.7	76.2	16 000			42.0	62.7	81.0	13 100
		40.0	62.1	75.2	14 700			44.0	61.3	80.0	12 100
		42.0	60.5	74.1	13 500			46.0	59.8	78.8	11 100
		44.0	58.9	72.9	12 400			48.0	58.3	77.6	10 200
		46.0	57.3	71.7	11 500			50.0	56.7	76.4	9 400
		48.0	55.6	70.4	10 600			52.0	55.2	75.0	8 600
		50.0	53.9	69.0	9 800			54.0	53.6	73.6	7 900
		52.0	52.2	67.5	9 000			56.0	52.0	72.1	7 300
		54.0	50.4	65.9	8 300			58.0	50.3	70.5	6 700
		56.0	48.6	64.1	7 700			60.0	48.6	68.7	6 200
		58.0	46.7	62.3	7 100			62.0	46.8	66.9	5 700
		60.0	44.7	60.4	6 600			64.0	45.0	65.0	5 200
		62.0	42.7	58.3	6 100			66.0	43.2	62.9	4 700
		64.0	40.6	56.0	5 600			68.0	41.2	60.7	4 300
		66.0	38.4	53.6	5 200			70.0	39.2	58.4	4 000
		68.0	36.1	51.0	4 700			72.0	37.1	55.8	3 500*
		70.0	33.7	48.1	4 200			74.0	34.9	53.1	2 900*
		72.0	31.1	45.0	3 500*			76.0	32.6	50.1	2 400*
		74.0	28.3	41.4	2 900*	9 1 · 4	3 0 0	16.8	80.4	92.6	31 400*
8 5 · 3	2 8 0	15.2	80.8	86.7	37 500*			18.0	79.6	92.4	31 100*
		16.0	80.2	86.6	37 300*			20.0	78.3	92.0	30 100*
		18.0	78.9	86.2	36 800*			22.0	77.1	91.6	28 900*
		20.0	77.5	85.8	36 200*			24.0	75.8	91.1	27 800*
		22.0	76.1	85.3	35 000*			26.0	74.5	90.6	26 800*
		24.0	74.7	84.8	32 500			28.0	73.2	90.0	25 600
		26.0	73.3	84.2	28 800			30.0	71.9	89.4	22 800
		28.0	71.9	83.6	25 800			32.0	70.5	88.7	20 500
		30.0	70.5	82.9	23 200			34.0	69.2	87.9	18 600
		32.0	69.1	82.2	21 000			36.0	67.8	87.2	16 900
		34.0	67.6	81.4	19 000			38.0	66.5	86.3	15 400
		36.0	66.2	80.5	17 300			40.0	65.1	85.4	14 100
		38.0	64.7	79.6	15 800			42.0	63.7	84.5	12 900
		40.0	63.2	78.6	14 500			44.0	62.3	83.4	11 800
		42.0	61.7	77.6	13 300			46.0	60.9	82.4	10 800
		44.0	60.2	76.5	12 200			48.0	59.5	81.2	10 000
		46.0	58.6	75.3	11 200			50.0	58.0	80.0	9 200
		48.0	57.0	74.0	10 400			52.0	56.5	78.7	8 400
		50.0	55.4	72.7	9 600			54.0	55.0	77.3	7 800
		52.0	53.7	71.3	8 800			56.0	53.4	75.9	7 100
		54.0	52.1	69.8	8 100			58.0	51.9	74.4	6 500
		56.0	50.3	68.2	7 500			60.0	50.2	72.8	6 000
		58.0	48.6	66.4	6 900			62.0	48.6	71.0	5 500
		60.0	46.8	64.6	6 400			64.0	46.9	69.2	5 000
		62.0	44.9	62.7	5 900			66.0	45.2	67.3	4 600
		64.0	42.9	60.6	5 400			68.0	43.4	65.2	4 100
		66.0	40.9	58.4	4 900			70.0	41.5	63.1	3 700
		68.0	38.8	56.0	4 500			72.0	39.6	60.7	3 200*
		70.0	36.6	53.4	4 100			74.0	37.6	58.2	2 600*
		72.0	34.3	50.6	3 500*			76.0	35.5	55.5	2 100*
		74.0	31.9	47.5	2 900*						
		76.0	29.2	44.1	2 300*						

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9 4 · 5	3 1 0	16.8	80.7	95.7	28 800*
		18.0	80.0	95.5	28 300*
		20.0	78.7	95.1	27 200*
		22.0	77.5	94.7	26 100*
		24.0	76.2	94.2	25 100*
		26.0	75.0	93.7	24 200*
		28.0	73.7	93.2	23 300*
		30.0	72.5	92.6	22 300
		32.0	71.2	91.9	20 400
		34.0	69.9	91.2	18 400
		36.0	68.6	90.4	16 700
		38.0	67.3	89.6	15 200
		40.0	66.0	88.8	13 900
		42.0	64.6	87.8	12 700
		44.0	63.3	86.9	11 600
		46.0	61.9	85.8	10 600
		48.0	60.5	84.7	9 700
		50.0	59.1	83.6	8 900
		52.0	57.7	82.3	8 200
		54.0	56.3	81.0	7 500
		56.0	54.8	79.7	6 900
		58.0	53.3	78.2	6 300
		60.0	51.8	76.7	5 700
		62.0	50.2	75.1	5 200
		64.0	48.6	73.3	4 800
		66.0	47.0	71.5	4 300*
		68.0	45.3	69.6	3 600*
		70.0	43.6	67.6	2 900*
		72.0	41.8	65.4	2 300*