

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623831

Luminaire Tested: **IFLD-L-SA7A-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623831
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

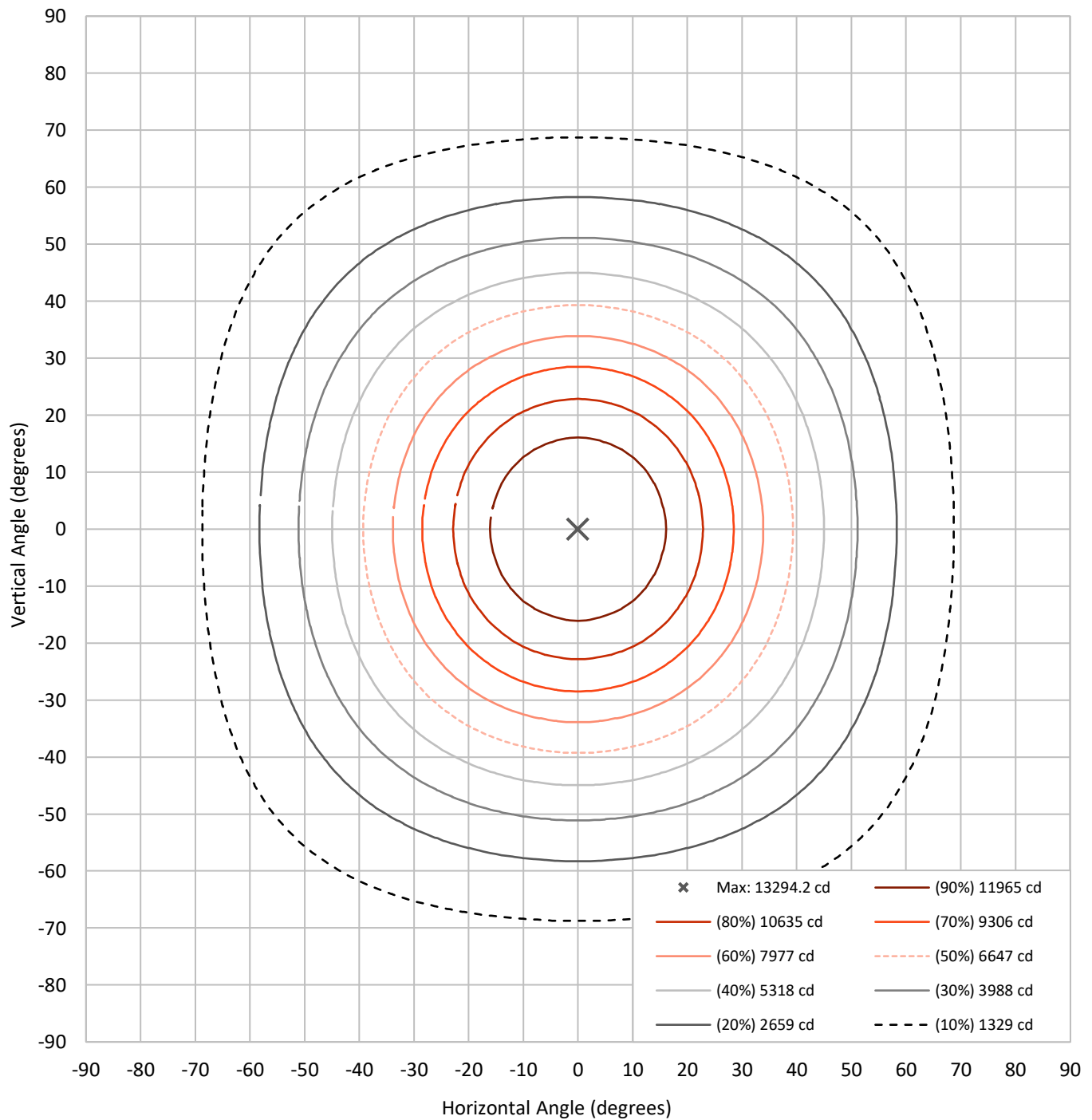
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23936.5 lumens	Max Intensity:	13294.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	110.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10357.1 lumens	Field Lumens:	16959.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	217.6		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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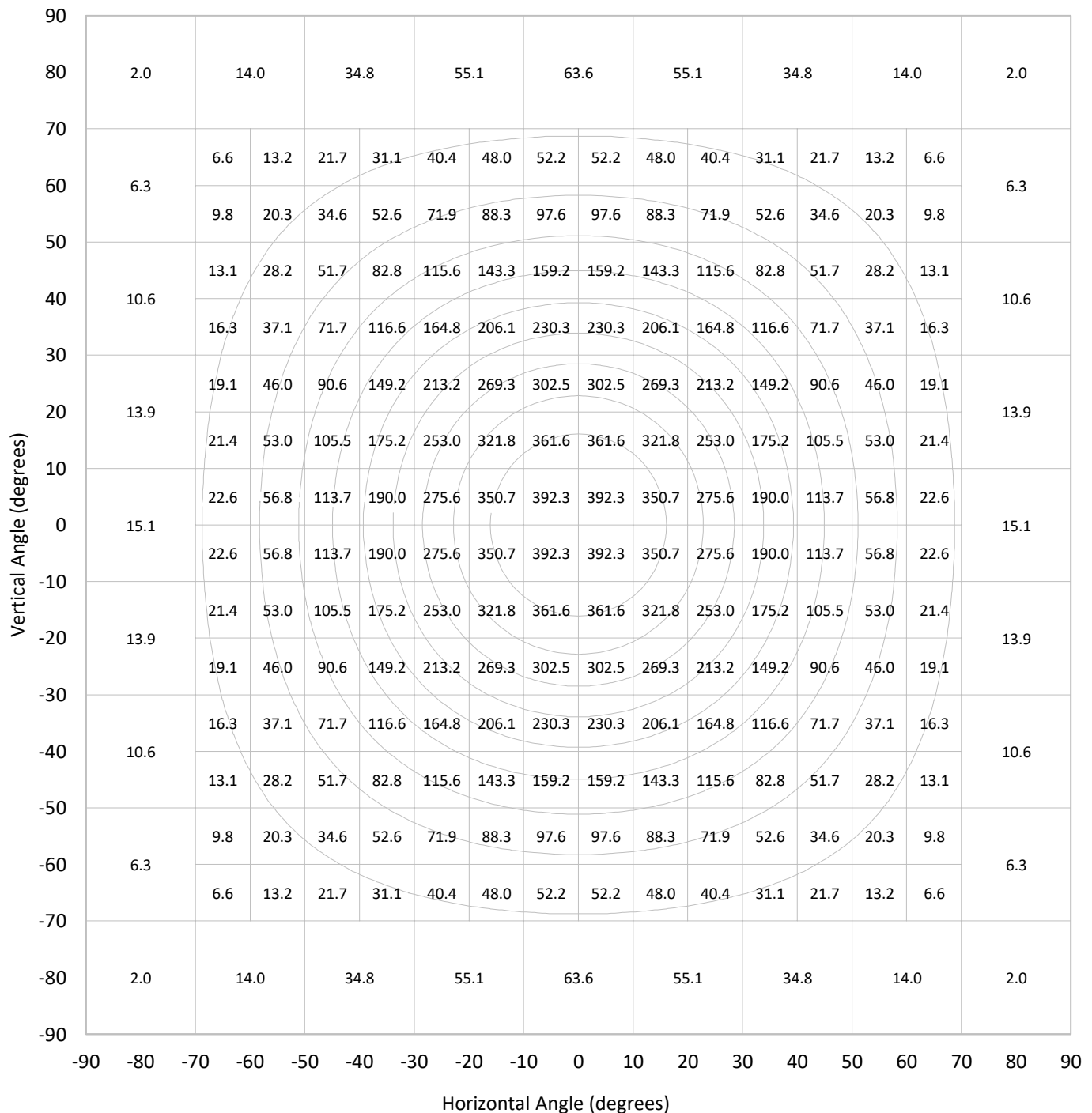
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Iso-Candela Plot



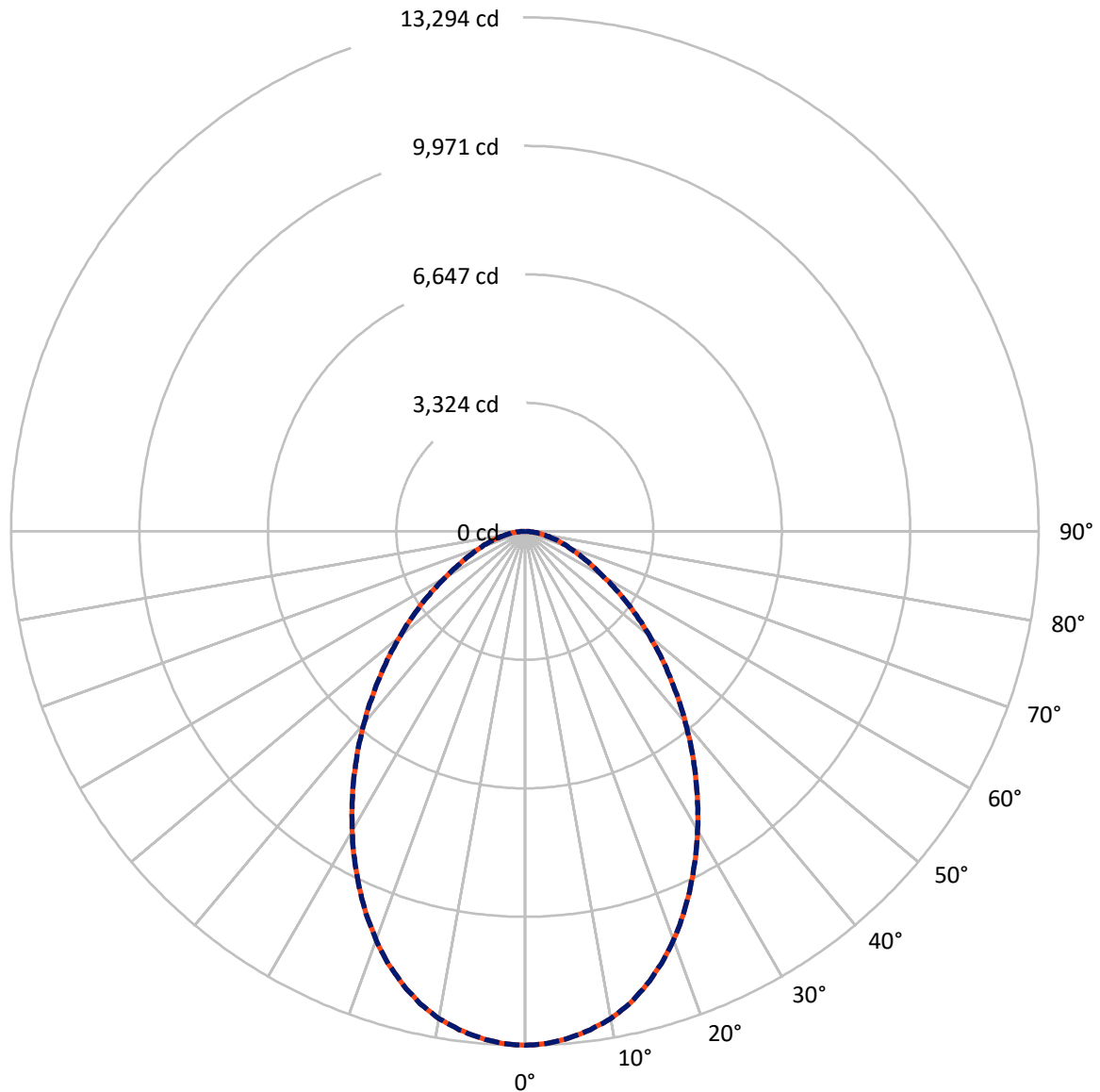
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Lumen Table



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Luminous Intensity Polar Plot

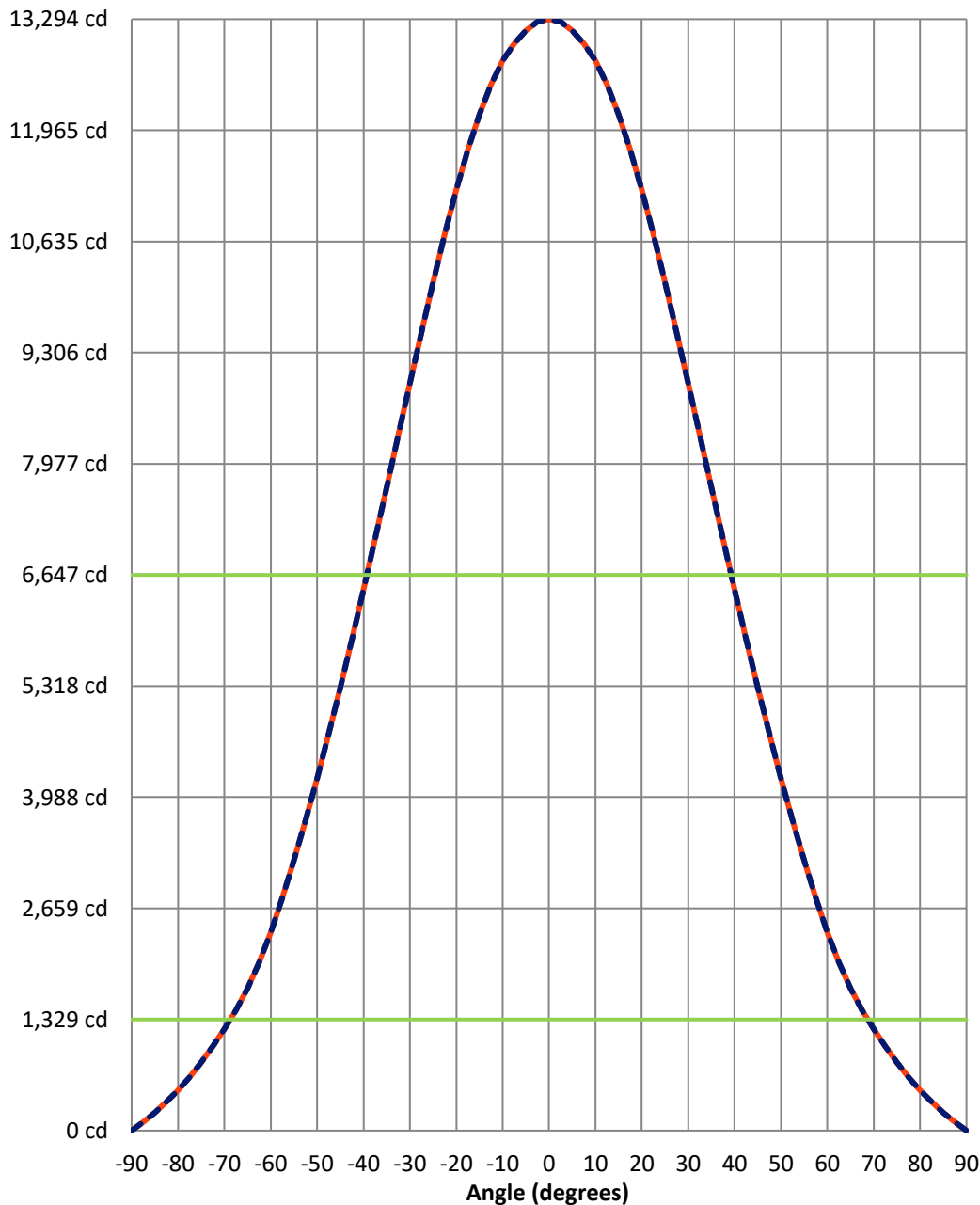


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10357.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16959.4
Efficiency: 70.9%

Spill:

Lumens: 6977.1
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	97.3	97.3	94.8	92.3
85°	214.6	214.6	214.6	214.6	214.6	209.6	207.1	204.6	202.1	197.2	194.7
82.5°	344.4	344.4	344.4	344.4	339.4	334.4	331.9	326.9	321.9	314.4	307.0
80°	481.7	481.7	481.7	481.7	474.2	469.2	461.7	456.7	449.2	439.2	429.2
77.5°	638.9	638.9	638.9	631.4	626.4	618.9	611.4	601.4	591.5	579.0	564.0
75°	816.1	816.1	816.1	806.1	798.6	791.1	778.6	766.2	751.2	733.7	713.7
72.5°	1008.2	1008.2	1008.2	995.8	988.3	975.8	960.8	943.3	925.9	903.4	878.5
70°	1215.4	1215.4	1215.4	1200.4	1187.9	1175.4	1155.5	1135.5	1110.6	1085.6	1055.6
67.5°	1440.0	1440.0	1440.0	1422.5	1407.5	1390.1	1367.6	1342.6	1312.7	1277.8	1242.8
65°	1702.0	1702.0	1692.0	1677.1	1659.6	1634.6	1607.2	1572.2	1534.8	1489.9	1442.5
62.5°	2011.5	2011.5	1996.5	1979.0	1956.6	1924.1	1886.7	1841.8	1789.4	1732.0	1674.6
60°	2370.8	2370.8	2353.4	2330.9	2298.5	2258.5	2208.6	2151.2	2086.3	2014.0	1944.1
57.5°	2785.1	2785.1	2762.7	2732.7	2692.8	2642.9	2580.5	2508.1	2425.7	2335.9	2248.6
55°	3234.3	3234.3	3206.9	3171.9	3124.5	3064.6	2989.8	2904.9	2805.1	2702.8	2590.5
52.5°	3711.0	3711.0	3678.5	3638.6	3583.7	3513.8	3429.0	3329.2	3214.4	3094.6	2962.3
50°	4212.6	4212.6	4175.2	4130.3	4067.9	3985.5	3888.2	3773.4	3646.1	3506.4	3354.1
47.5°	4749.2	4749.2	4706.7	4654.3	4579.5	4484.6	4369.8	4237.6	4092.8	3935.6	3763.4
45°	5300.7	5300.7	5253.3	5193.4	5111.0	5003.7	4876.4	4749.2	4564.5	4382.3	4182.7
42.5°	5874.7	5874.7	5819.8	5752.4	5657.6	5540.3	5395.5	5230.8	5048.6	4844.0	4626.9
40°	6471.2	6471.2	6408.8	6331.4	6226.6	6091.8	5929.6	5744.9	5540.3	5313.2	5073.6
37.5°	7080.1	7080.1	7010.2	6925.4	6808.1	6658.3	6476.1	6271.5	6041.9	5789.8	5525.3
35°	7694.0	7694.0	7616.6	7524.3	7394.5	7229.8	7032.7	6805.6	6551.0	6276.5	5979.5
32.5°	8320.4	8320.4	8235.6	8130.7	7983.5	7801.3	7584.2	7337.1	7080.1	6760.6	6436.2
30°	8939.3	8939.3	8847.0	8732.2	8575.0	8375.3	8138.2	7866.2	7564.2	7237.3	6887.9
27.5°	9548.3	9523.3	9445.9	9323.6	9151.4	8939.3	8682.3	8387.8	8060.9	7701.5	7327.1
25°	10147.2	10119.8	10034.9	9900.1	9715.5	9483.4	9206.4	8891.9	8540.0	8160.7	7751.4
22.5°	10721.2	10691.2	10601.4	10456.7	10259.5	10007.4	9710.5	9373.6	8999.2	8592.4	8160.7
20°	11252.8	11220.3	11128.0	10975.7	10771.1	10504.1	10189.6	9827.8	9428.5	8999.2	8540.0
17.5°	11731.9	11699.5	11602.2	11444.9	11252.8	10955.8	10631.4	10249.5	9827.8	9373.6	8891.9
15°	12153.7	12118.7	12018.9	11861.7	11642.1	11362.6	11020.7	10631.4	10189.6	9710.5	9206.4
12.5°	12513.1	12478.1	12375.8	12218.6	11991.5	11712.0	11362.6	10955.8	10504.1	10007.4	9483.4
10°	12797.6	12762.6	12665.3	12515.5	12281.0	11991.5	11642.1	11252.8	10771.1	10259.5	9715.5
7.5°	13002.2	12969.8	12879.9	12730.2	12515.5	12218.6	11861.7	11444.9	10975.7	10456.7	9900.1
5°	13156.9	13119.5	13029.6	12879.9	12665.3	12375.8	12018.9	11602.2	11128.0	10601.4	10034.9
2.5°	13264.2	13219.3	13119.5	12969.8	12762.6	12478.1	12118.7	11699.5	11220.3	10691.2	10119.8
0°	13294.2	13264.2	13156.9	13002.2	12797.6	12513.1	12153.7	11731.9	11252.8	10721.2	10147.2

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	89.8	89.8	87.3	84.9	82.4	77.4	74.9	72.4	69.9	64.9	62.4
85°	189.7	184.7	179.7	174.7	167.2	162.2	154.7	149.7	142.3	134.8	127.3
82.5°	299.5	292.0	282.0	274.5	264.5	252.1	242.1	229.6	217.1	207.1	194.7
80°	419.3	406.8	394.3	381.8	366.9	351.9	336.9	321.9	304.5	287.0	269.5
77.5°	549.0	531.6	514.1	494.1	476.7	456.7	436.7	416.8	394.3	371.8	349.4
75°	693.8	671.3	646.4	621.4	598.9	571.5	544.0	516.6	486.6	459.2	429.2
72.5°	851.0	823.6	793.6	763.7	731.2	696.3	661.3	623.9	589.0	554.0	516.6
70°	1020.7	988.3	950.8	913.4	873.5	831.0	788.6	743.7	698.8	653.9	608.9
67.5°	1202.9	1163.0	1118.0	1073.1	1023.2	973.3	923.4	871.0	816.1	761.2	708.8
65°	1397.5	1347.6	1295.2	1237.8	1180.4	1123.0	1063.1	1000.7	938.4	873.5	816.1
62.5°	1614.7	1552.3	1484.9	1415.0	1350.1	1280.3	1215.4	1138.0	1063.1	990.8	918.4
60°	1866.7	1784.4	1702.0	1614.7	1532.3	1442.5	1362.6	1277.8	1192.9	1110.6	1025.7
57.5°	2148.7	2043.9	1944.1	1839.3	1729.5	1629.6	1527.3	1425.0	1330.2	1232.8	1140.5
55°	2468.2	2340.9	2216.1	2086.3	1959.1	1834.3	1704.5	1589.7	1472.4	1362.6	1255.3
52.5°	2817.6	2672.8	2518.1	2370.8	2208.6	2053.9	1909.2	1764.4	1627.1	1494.9	1372.6
50°	3191.9	3022.2	2845.0	2665.3	2480.6	2298.5	2123.8	1954.1	1794.4	1639.6	1494.9
47.5°	3581.2	3389.1	3186.9	2982.3	2785.1	2563.0	2353.4	2161.2	1969.0	1794.4	1627.1
45°	3980.5	3763.4	3541.3	3309.2	3077.1	2837.5	2605.4	2370.8	2161.2	1954.1	1764.4
42.5°	4392.3	4147.7	3900.7	3643.6	3386.6	3124.5	2862.5	2605.4	2353.4	2123.8	1909.2
40°	4816.6	4547.0	4265.0	3985.5	3711.0	3411.5	3124.5	2837.5	2563.0	2298.5	2053.9
37.5°	5240.8	4946.3	4641.9	4327.4	4013.0	3711.0	3386.6	3077.1	2785.1	2480.6	2208.6
35°	5667.6	5343.1	5013.7	4671.8	4327.4	3985.5	3643.6	3309.2	2982.3	2665.3	2370.8
32.5°	6096.8	5742.4	5378.1	5013.7	4641.9	4265.0	3900.7	3541.3	3186.9	2845.0	2518.1
30°	6518.6	6134.2	5742.4	5343.1	4946.3	4547.0	4147.7	3763.4	3389.1	3022.2	2672.8
27.5°	6930.3	6518.6	6096.8	5667.6	5240.8	4816.6	4392.3	3980.5	3581.2	3191.9	2817.6
25°	7327.1	6887.9	6436.2	5979.5	5525.3	5073.6	4626.9	4182.7	3763.4	3354.1	2962.3
22.5°	7701.5	7237.3	6760.6	6276.5	5789.8	5313.2	4844.0	4382.3	3935.6	3506.4	3094.6
20°	8060.9	7564.2	7080.1	6551.0	6041.9	5540.3	5048.6	4564.5	4092.8	3646.1	3214.4
17.5°	8387.8	7866.2	7337.1	6805.6	6271.5	5744.9	5230.8	4749.2	4237.6	3773.4	3329.2
15°	8682.3	8138.2	7584.2	7032.7	6476.1	5929.6	5395.5	4876.4	4369.8	3888.2	3429.0
12.5°	8939.3	8375.3	7801.3	7229.8	6658.3	6091.8	5540.3	5003.7	4484.6	3985.5	3513.8
10°	9151.4	8575.0	7983.5	7394.5	6808.1	6226.6	5657.6	5111.0	4579.5	4067.9	3583.7
7.5°	9323.6	8732.2	8130.7	7524.3	6925.4	6331.4	5752.4	5193.4	4654.3	4130.3	3638.6
5°	9445.9	8847.0	8235.6	7616.6	7010.2	6408.8	5819.8	5253.3	4706.7	4175.2	3678.5
2.5°	9523.3	8939.3	8320.4	7694.0	7080.1	6471.2	5874.7	5300.7	4749.2	4212.6	3711.0
0°	9548.3	8939.3	8320.4	7694.0	7080.1	6471.2	5874.7	5300.7	4749.2	4212.6	3711.0

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.9	54.9	49.9	47.4	42.4	39.9	34.9	29.9	27.5	22.5	17.5
85°	119.8	109.8	102.3	94.8	87.3	77.4	69.9	62.4	52.4	44.9	34.9
82.5°	182.2	169.7	157.2	144.7	132.3	119.8	104.8	92.3	79.9	67.4	52.4
80°	252.1	232.1	214.6	197.2	179.7	162.2	142.3	124.8	104.8	87.3	69.9
77.5°	324.4	302.0	277.0	252.1	227.1	204.6	179.7	157.2	134.8	109.8	87.3
75°	401.8	371.8	344.4	312.0	282.0	249.6	219.6	189.7	162.2	134.8	104.8
72.5°	481.7	444.2	406.8	371.8	334.4	297.0	262.0	224.6	189.7	157.2	124.8
70°	564.0	519.1	474.2	431.7	389.3	344.4	304.5	262.0	219.6	179.7	142.3
67.5°	651.4	598.9	546.5	491.6	444.2	394.3	344.4	297.0	249.6	204.6	162.2
65°	746.2	683.8	618.9	561.5	499.1	444.2	389.3	334.4	282.0	227.1	179.7
62.5°	843.5	771.1	698.8	626.4	561.5	491.6	431.7	371.8	312.0	252.1	197.2
60°	943.3	861.0	778.6	698.8	618.9	546.5	474.2	406.8	344.4	277.0	214.6
57.5°	1045.7	953.3	861.0	771.1	683.8	598.9	519.1	444.2	371.8	302.0	232.1
55°	1150.5	1045.7	943.3	843.5	746.2	651.4	564.0	481.7	401.8	324.4	252.1
52.5°	1255.3	1140.5	1025.7	918.4	816.1	708.8	608.9	516.6	429.2	349.4	269.5
50°	1362.6	1232.8	1110.6	990.8	873.5	761.2	653.9	554.0	459.2	371.8	287.0
47.5°	1472.4	1330.2	1192.9	1063.1	938.4	816.1	698.8	589.0	486.6	394.3	304.5
45°	1589.7	1425.0	1277.8	1138.0	1000.7	871.0	743.7	623.9	516.6	416.8	321.9
42.5°	1704.5	1527.3	1362.6	1215.4	1063.1	923.4	788.6	661.3	544.0	436.7	336.9
40°	1834.3	1629.6	1442.5	1280.3	1123.0	973.3	831.0	696.3	571.5	456.7	351.9
37.5°	1959.1	1729.5	1532.3	1350.1	1180.4	1023.2	873.5	731.2	598.9	476.7	366.9
35°	2086.3	1839.3	1614.7	1415.0	1237.8	1073.1	913.4	763.7	621.4	494.1	381.8
32.5°	2216.1	1944.1	1702.0	1484.9	1295.2	1118.0	950.8	793.6	646.4	514.1	394.3
30°	2340.9	2043.9	1784.4	1552.3	1347.6	1163.0	988.3	823.6	671.3	531.6	406.8
27.5°	2468.2	2148.7	1866.7	1614.7	1397.5	1202.9	1020.7	851.0	693.8	549.0	419.3
25°	2590.5	2248.6	1944.1	1674.6	1442.5	1242.8	1055.6	878.5	713.7	564.0	429.2
22.5°	2702.8	2335.9	2014.0	1732.0	1489.9	1277.8	1085.6	903.4	733.7	579.0	439.2
20°	2805.1	2425.7	2086.3	1789.4	1534.8	1312.7	1110.6	925.9	751.2	591.5	449.2
17.5°	2904.9	2508.1	2151.2	1841.8	1572.2	1342.6	1135.5	943.3	766.2	601.4	456.7
15°	2989.8	2580.5	2208.6	1886.7	1607.2	1367.6	1155.5	960.8	778.6	611.4	461.7
12.5°	3064.6	2642.9	2258.5	1924.1	1634.6	1390.1	1175.4	975.8	791.1	618.9	469.2
10°	3124.5	2692.8	2298.5	1956.6	1659.6	1407.5	1187.9	988.3	798.6	626.4	474.2
7.5°	3171.9	2732.7	2330.9	1979.0	1677.1	1422.5	1200.4	995.8	806.1	631.4	481.7
5°	3206.9	2762.7	2353.4	1996.5	1692.0	1440.0	1215.4	1008.2	816.1	638.9	481.7
2.5°	3234.3	2785.1	2370.8	2011.5	1702.0	1440.0	1215.4	1008.2	816.1	638.9	481.7
0°	3234.3	2785.1	2370.8	2011.5	1702.0	1440.0	1215.4	1008.2	816.1	638.9	481.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.5	10.0	5.0	0.0
85°	27.5	17.5	10.0	0.0
82.5°	39.9	27.5	12.5	0.0
80°	52.4	34.9	17.5	0.0
77.5°	67.4	44.9	22.5	0.0
75°	79.9	52.4	27.5	0.0
72.5°	92.3	62.4	29.9	0.0
70°	104.8	69.9	34.9	0.0
67.5°	119.8	77.4	39.9	0.0
65°	132.3	87.3	42.4	0.0
62.5°	144.7	94.8	47.4	0.0
60°	157.2	102.3	49.9	0.0
57.5°	169.7	109.8	54.9	0.0
55°	182.2	119.8	59.9	0.0
52.5°	194.7	127.3	62.4	0.0
50°	207.1	134.8	64.9	0.0
47.5°	217.1	142.3	69.9	0.0
45°	229.6	149.7	72.4	0.0
42.5°	242.1	154.7	74.9	0.0
40°	252.1	162.2	77.4	0.0
37.5°	264.5	167.2	82.4	0.0
35°	274.5	174.7	84.9	0.0
32.5°	282.0	179.7	87.3	0.0
30°	292.0	184.7	89.8	0.0
27.5°	299.5	189.7	89.8	0.0
25°	307.0	194.7	92.3	0.0
22.5°	314.4	197.2	94.8	0.0
20°	321.9	202.1	97.3	0.0
17.5°	326.9	204.6	97.3	0.0
15°	331.9	207.1	102.3	0.0
12.5°	334.4	209.6	102.3	0.0
10°	339.4	214.6	102.3	0.0
7.5°	344.4	214.6	102.3	0.0
5°	344.4	214.6	102.3	0.0
2.5°	344.4	214.6	102.3	0.0
0°	344.4	214.6	102.3	0.0

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