

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: P624039

Luminaire Tested: **IFLD-L-SA8A-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624039
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

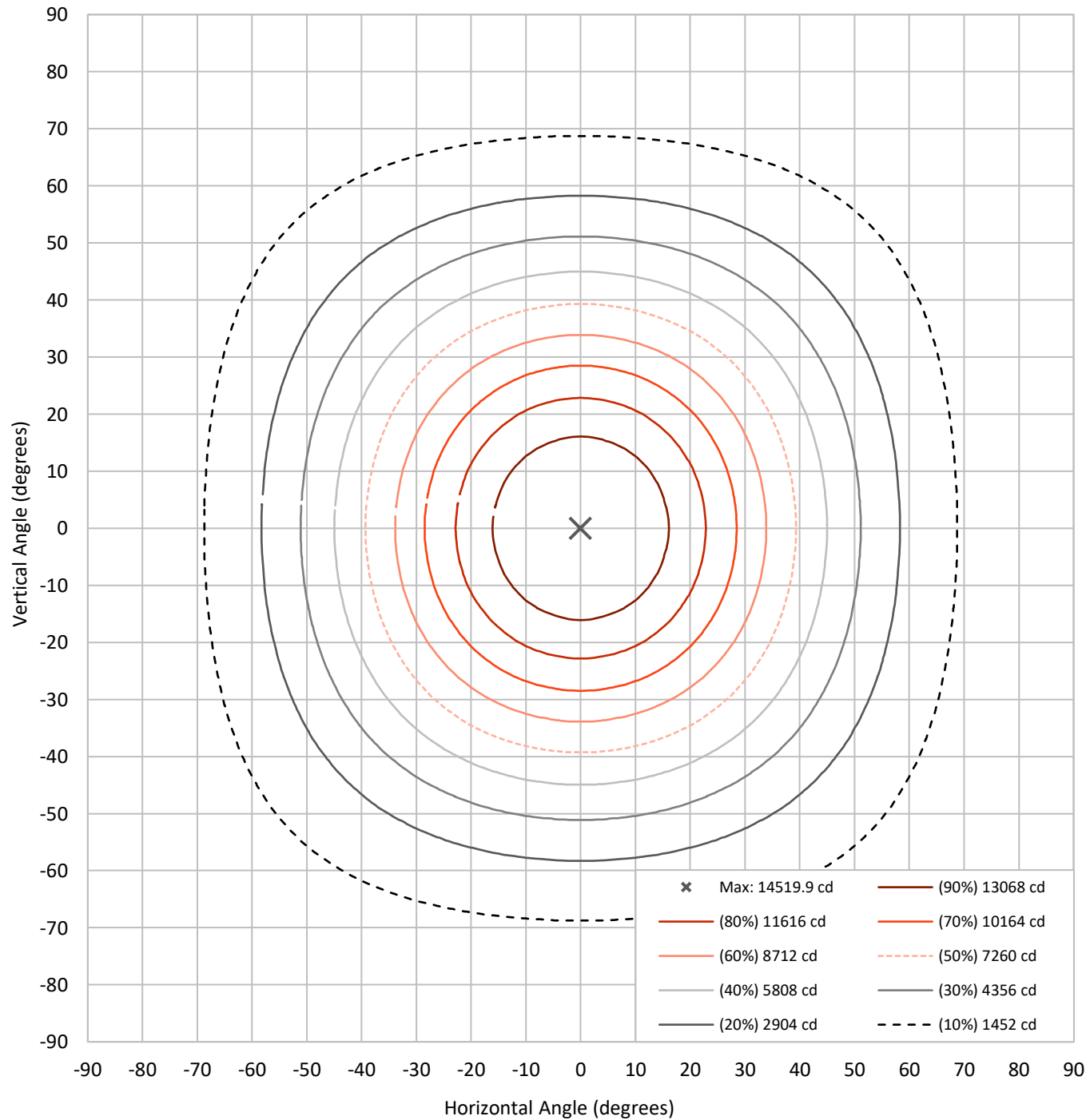
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26143.5 lumens	Max Intensity:	14519.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	105.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11312 lumens	Field Lumens:	18523 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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		





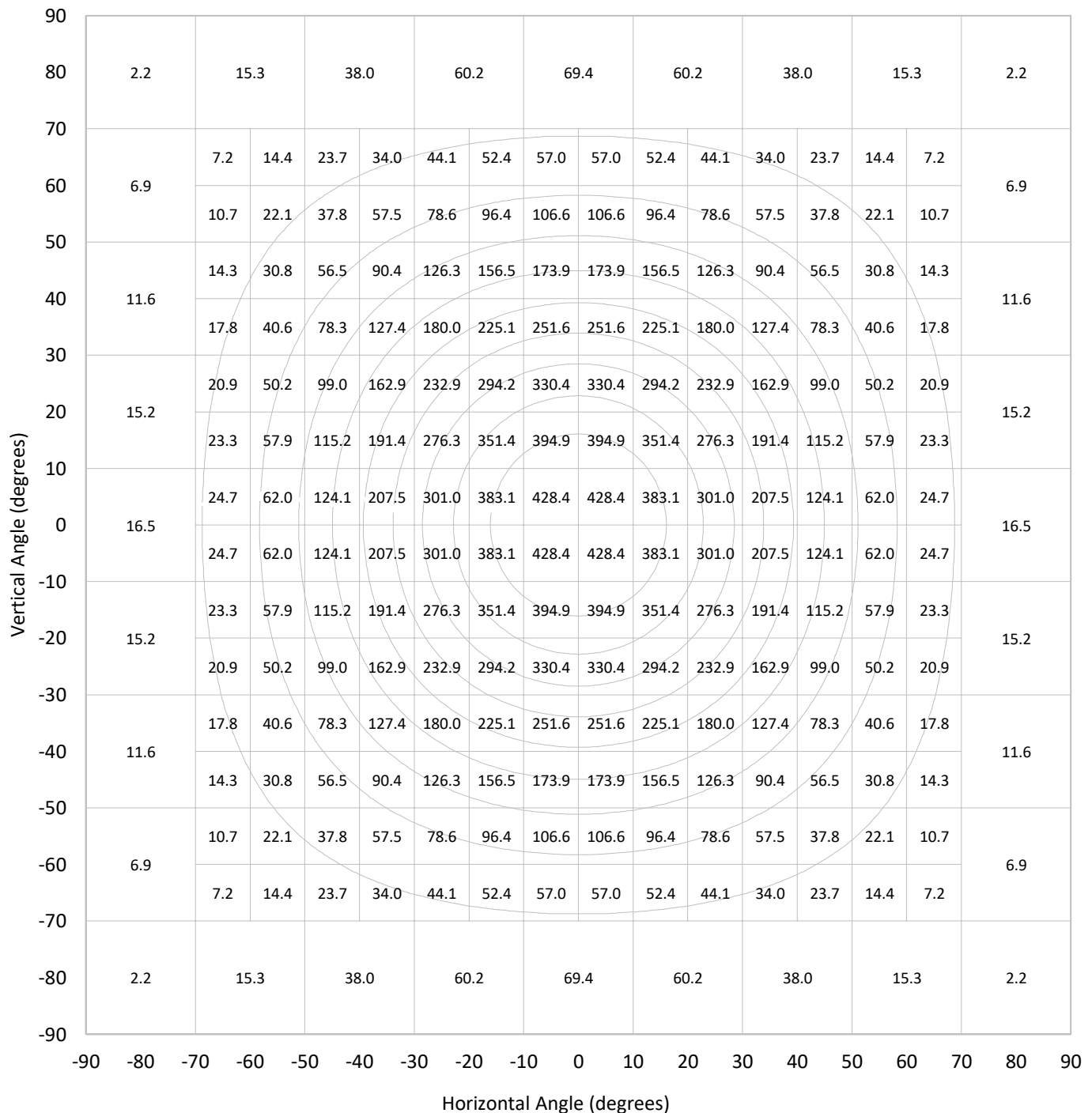
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Iso-Candela Plot



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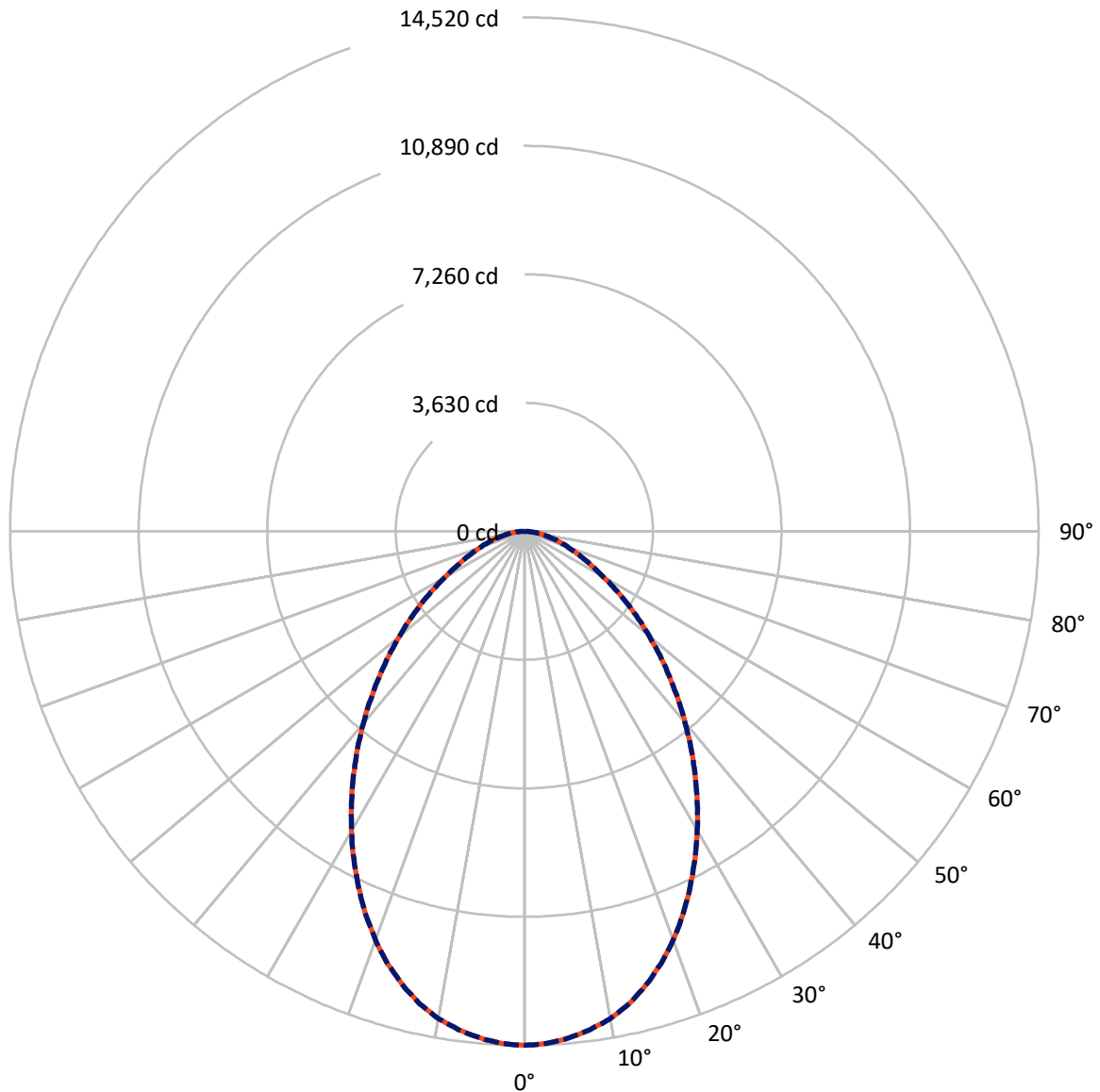
Lumen Table



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Luminous Intensity Polar Plot

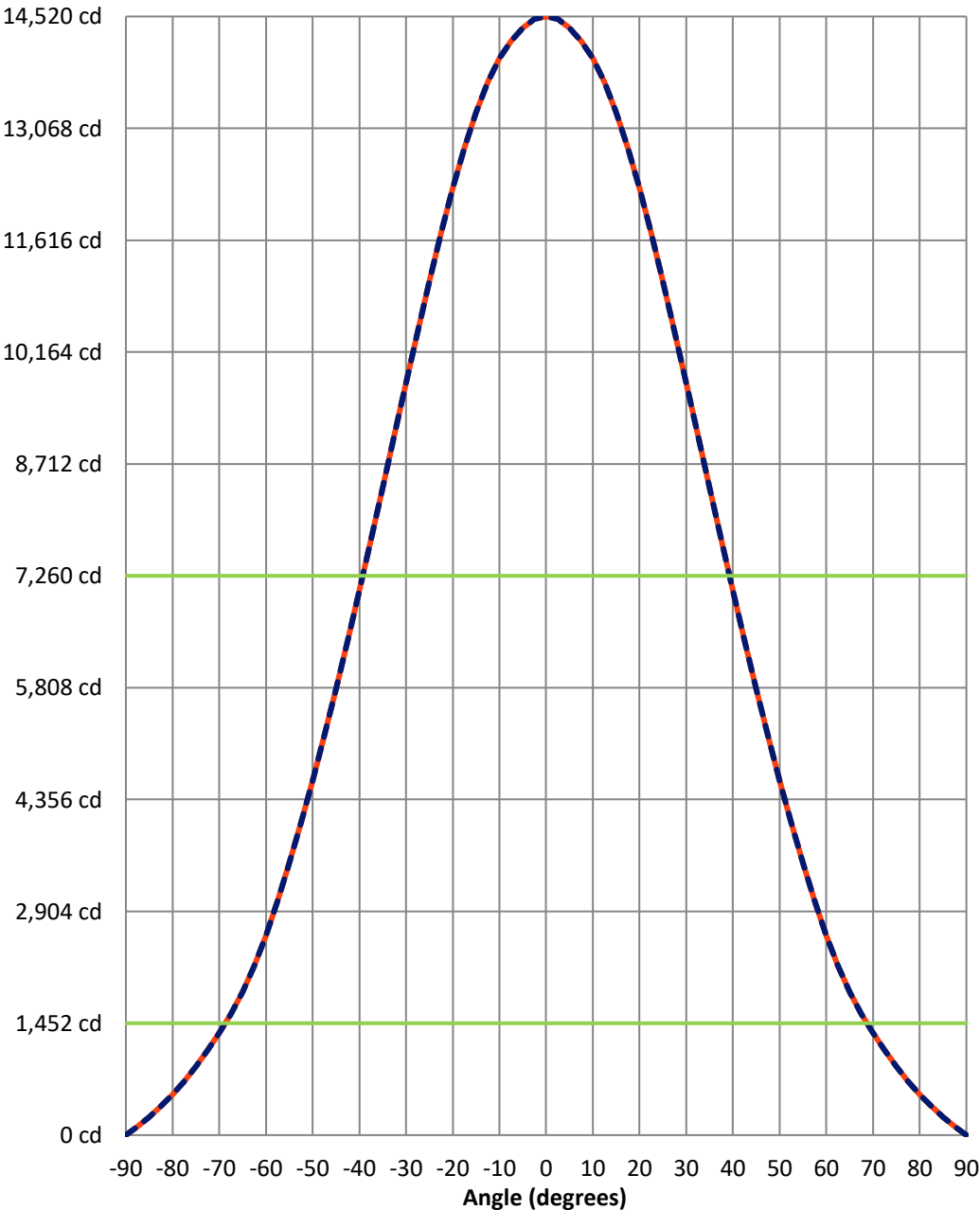


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 11312
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 18523
Efficiency: 70.9%

Spill:
Lumens: 7620.4
Efficiency: 29.1%

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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°	111.8	111.8	111.8	111.8	111.8	111.8	111.8	106.3	106.3	103.6	100.9
85°	234.4	234.4	234.4	234.4	234.4	229.0	226.2	223.5	220.8	215.3	212.6
82.5°	376.1	376.1	376.1	376.1	370.7	365.2	362.5	357.1	351.6	343.4	335.3
80°	526.1	526.1	526.1	526.1	517.9	512.4	504.3	498.8	490.6	479.7	468.8
77.5°	697.8	697.8	697.8	689.6	684.2	676.0	667.8	656.9	646.0	632.4	616.0
75°	891.3	891.3	891.3	880.4	872.2	864.1	850.4	836.8	820.4	801.4	779.6
72.5°	1101.2	1101.2	1101.2	1087.6	1079.4	1065.8	1049.4	1030.3	1011.2	986.7	959.5
70°	1327.4	1327.4	1327.4	1311.1	1297.4	1283.8	1262.0	1240.2	1212.9	1185.7	1153.0
67.5°	1572.7	1572.7	1572.7	1553.7	1537.3	1518.2	1493.7	1466.4	1433.7	1395.6	1357.4
65°	1858.9	1858.9	1848.0	1831.7	1812.6	1785.3	1755.4	1717.2	1676.3	1627.3	1575.5
62.5°	2196.9	2196.9	2180.6	2161.5	2137.0	2101.5	2060.6	2011.6	1954.3	1891.7	1829.0
60°	2589.4	2589.4	2570.4	2545.8	2510.4	2466.8	2412.3	2349.6	2278.7	2199.7	2123.3
57.5°	3041.9	3041.9	3017.4	2984.7	2941.1	2886.5	2818.4	2739.4	2649.4	2551.3	2455.9
55°	3532.5	3532.5	3502.6	3464.4	3412.6	3347.2	3265.4	3172.7	3063.7	2952.0	2829.3
52.5°	4053.2	4053.2	4017.7	3974.1	3914.1	3837.8	3745.1	3636.1	3510.7	3379.9	3235.4
50°	4601.0	4601.0	4560.1	4511.1	4442.9	4353.0	4246.7	4121.3	3982.3	3829.6	3663.4
47.5°	5187.1	5187.1	5140.7	5083.5	5001.7	4898.1	4772.7	4628.3	4470.2	4298.5	4110.4
45°	5789.4	5789.4	5737.6	5672.2	5582.3	5465.1	5326.1	5187.1	4985.3	4786.4	4568.3
42.5°	6416.4	6416.4	6356.4	6282.8	6179.2	6051.1	5893.0	5713.1	5514.1	5290.6	5053.5
40°	7067.8	7067.8	6999.7	6915.2	6800.7	6653.5	6476.3	6274.6	6051.1	5803.1	5541.4
37.5°	7732.9	7732.9	7656.6	7563.9	7435.8	7272.2	7073.3	6849.7	6599.0	6323.7	6034.8
35°	8403.4	8403.4	8318.9	8218.1	8076.3	7896.4	7681.1	7433.0	7155.0	6855.2	6530.8
32.5°	9087.6	9087.6	8994.9	8880.4	8719.6	8520.6	8283.5	8013.6	7732.9	7384.0	7029.6
30°	9763.5	9763.5	9662.7	9537.3	9365.6	9147.5	8888.6	8591.5	8261.7	7904.6	7523.0
27.5°	10428.6	10401.4	10316.9	10183.3	9995.2	9763.5	9482.8	9161.2	8804.1	8411.6	8002.7
25°	11082.8	11052.8	10960.1	10812.9	10611.2	10357.7	10055.2	9711.8	9327.4	8913.1	8466.1
22.5°	11709.7	11677.0	11578.9	11420.8	11205.4	10930.2	10605.8	10237.8	9829.0	9384.7	8913.1
20°	12290.3	12254.9	12154.0	11987.7	11764.2	11472.6	11129.1	10733.9	10297.8	9829.0	9327.4
17.5°	12813.6	12778.2	12671.9	12500.2	12290.3	11965.9	11611.6	11194.5	10733.9	10237.8	9711.8
15°	13274.3	13236.1	13127.1	12955.4	12715.5	12410.2	12036.8	11611.6	11129.1	10605.8	10055.2
12.5°	13666.8	13628.6	13516.9	13345.1	13097.1	12791.8	12410.2	11965.9	11472.6	10930.2	10357.7
10°	13977.5	13939.3	13833.0	13669.5	13413.3	13097.1	12715.5	12290.3	11764.2	11205.4	10611.2
7.5°	14201.0	14165.6	14067.5	13903.9	13669.5	13345.1	12955.4	12500.2	11987.7	11420.8	10812.9
5°	14370.0	14329.1	14231.0	14067.5	13833.0	13516.9	13127.1	12671.9	12154.0	11578.9	10960.1
2.5°	14487.2	14438.2	14329.1	14165.6	13939.3	13628.6	13236.1	12778.2	12254.9	11677.0	11052.8
0°	14519.9	14487.2	14370.0	14201.0	13977.5	13666.8	13274.3	12813.6	12290.3	11709.7	11082.8

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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°	98.1	98.1	95.4	92.7	89.9	84.5	81.8	79.0	76.3	70.9	68.1
85°	207.2	201.7	196.3	190.8	182.6	177.2	169.0	163.5	155.4	147.2	139.0
82.5°	327.1	318.9	308.0	299.8	288.9	275.3	264.4	250.8	237.1	226.2	212.6
80°	457.9	444.3	430.7	417.0	400.7	384.3	368.0	351.6	332.5	313.5	294.4
77.5°	599.7	580.6	561.5	539.7	520.6	498.8	477.0	455.2	430.7	406.1	381.6
75°	757.8	733.2	706.0	678.7	654.2	624.2	594.2	564.2	531.5	501.5	468.8
72.5°	929.5	899.5	866.8	834.1	798.6	760.5	722.3	681.4	643.3	605.1	564.2
70°	1114.8	1079.4	1038.5	997.6	954.0	907.7	861.3	812.3	763.2	714.1	665.1
67.5°	1313.8	1270.2	1221.1	1172.1	1117.5	1063.0	1008.5	951.3	891.3	831.3	774.1
65°	1526.4	1471.9	1414.7	1352.0	1289.3	1226.6	1161.2	1093.0	1024.9	954.0	891.3
62.5°	1763.5	1695.4	1621.8	1545.5	1474.6	1398.3	1327.4	1242.9	1161.2	1082.1	1003.1
60°	2038.8	1948.9	1858.9	1763.5	1673.6	1575.5	1488.2	1395.6	1302.9	1212.9	1120.3
57.5°	2346.8	2232.4	2123.3	2008.9	1888.9	1779.9	1668.1	1556.4	1452.8	1346.5	1245.7
55°	2695.7	2556.7	2420.4	2278.7	2139.7	2003.4	1861.7	1736.3	1608.2	1488.2	1371.0
52.5°	3077.3	2919.2	2750.3	2589.4	2412.3	2243.3	2085.2	1927.1	1777.2	1632.7	1499.1
50°	3486.2	3300.9	3107.3	2911.1	2709.4	2510.4	2319.6	2134.2	1959.8	1790.8	1632.7
47.5°	3911.4	3701.5	3480.7	3257.2	3041.9	2799.3	2570.4	2360.5	2150.6	1959.8	1777.2
45°	4347.5	4110.4	3867.8	3614.3	3360.8	3099.1	2845.7	2589.4	2360.5	2134.2	1927.1
42.5°	4797.3	4530.2	4260.3	3979.6	3698.8	3412.6	3126.4	2845.7	2570.4	2319.6	2085.2
40°	5260.6	4966.3	4658.3	4353.0	4053.2	3726.1	3412.6	3099.1	2799.3	2510.4	2243.3
37.5°	5724.0	5402.4	5069.8	4726.4	4383.0	4053.2	3698.8	3360.8	3041.9	2709.4	2412.3
35°	6190.1	5835.8	5476.0	5102.6	4726.4	4353.0	3979.6	3614.3	3257.2	2911.1	2589.4
32.5°	6658.9	6271.9	5873.9	5476.0	5069.8	4658.3	4260.3	3867.8	3480.7	3107.3	2750.3
30°	7119.6	6699.8	6271.9	5835.8	5402.4	4966.3	4530.2	4110.4	3701.5	3300.9	2919.2
27.5°	7569.3	7119.6	6658.9	6190.1	5724.0	5260.6	4797.3	4347.5	3911.4	3486.2	3077.3
25°	8002.7	7523.0	7029.6	6530.8	6034.8	5541.4	5053.5	4568.3	4110.4	3663.4	3235.4
22.5°	8411.6	7904.6	7384.0	6855.2	6323.7	5803.1	5290.6	4786.4	4298.5	3829.6	3379.9
20°	8804.1	8261.7	7732.9	7155.0	6599.0	6051.1	5514.1	4985.3	4470.2	3982.3	3510.7
17.5°	9161.2	8591.5	8013.6	7433.0	6849.7	6274.6	5713.1	5187.1	4628.3	4121.3	3636.1
15°	9482.8	8888.6	8283.5	7681.1	7073.3	6476.3	5893.0	5326.1	4772.7	4246.7	3745.1
12.5°	9763.5	9147.5	8520.6	7896.4	7272.2	6653.5	6051.1	5465.1	4898.1	4353.0	3837.8
10°	9995.2	9365.6	8719.6	8076.3	7435.8	6800.7	6179.2	5582.3	5001.7	4442.9	3914.1
7.5°	10183.3	9537.3	8880.4	8218.1	7563.9	6915.2	6282.8	5672.2	5083.5	4511.1	3974.1
5°	10316.9	9662.7	8994.9	8318.9	7656.6	6999.7	6356.4	5737.6	5140.7	4560.1	4017.7
2.5°	10401.4	9763.5	9087.6	8403.4	7732.9	7067.8	6416.4	5789.4	5187.1	4601.0	4053.2
0°	10428.6	9763.5	9087.6	8403.4	7732.9	7067.8	6416.4	5789.4	5187.1	4601.0	4053.2

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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°	65.4	60.0	54.5	51.8	46.3	43.6	38.2	32.7	30.0	24.5	19.1
85°	130.8	119.9	111.8	103.6	95.4	84.5	76.3	68.1	57.2	49.1	38.2
82.5°	199.0	185.3	171.7	158.1	144.5	130.8	114.5	100.9	87.2	73.6	57.2
80°	275.3	253.5	234.4	215.3	196.3	177.2	155.4	136.3	114.5	95.4	76.3
77.5°	354.3	329.8	302.6	275.3	248.0	223.5	196.3	171.7	147.2	119.9	95.4
75°	438.8	406.1	376.1	340.7	308.0	272.6	239.9	207.2	177.2	147.2	114.5
72.5°	526.1	485.2	444.3	406.1	365.2	324.4	286.2	245.3	207.2	171.7	136.3
70°	616.0	567.0	517.9	471.6	425.2	376.1	332.5	286.2	239.9	196.3	155.4
67.5°	711.4	654.2	596.9	537.0	485.2	430.7	376.1	324.4	272.6	223.5	177.2
65°	815.0	746.8	676.0	613.3	545.1	485.2	425.2	365.2	308.0	248.0	196.3
62.5°	921.3	842.2	763.2	684.2	613.3	537.0	471.6	406.1	340.7	275.3	215.3
60°	1030.3	940.4	850.4	763.2	676.0	596.9	517.9	444.3	376.1	302.6	234.4
57.5°	1142.1	1041.2	940.4	842.2	746.8	654.2	567.0	485.2	406.1	329.8	253.5
55°	1256.6	1142.1	1030.3	921.3	815.0	711.4	616.0	526.1	438.8	354.3	275.3
52.5°	1371.0	1245.7	1120.3	1003.1	891.3	774.1	665.1	564.2	468.8	381.6	294.4
50°	1488.2	1346.5	1212.9	1082.1	954.0	831.3	714.1	605.1	501.5	406.1	313.5
47.5°	1608.2	1452.8	1302.9	1161.2	1024.9	891.3	763.2	643.3	531.5	430.7	332.5
45°	1736.3	1556.4	1395.6	1242.9	1093.0	951.3	812.3	681.4	564.2	455.2	351.6
42.5°	1861.7	1668.1	1488.2	1327.4	1161.2	1008.5	861.3	722.3	594.2	477.0	368.0
40°	2003.4	1779.9	1575.5	1398.3	1226.6	1063.0	907.7	760.5	624.2	498.8	384.3
37.5°	2139.7	1888.9	1673.6	1474.6	1289.3	1117.5	954.0	798.6	654.2	520.6	400.7
35°	2278.7	2008.9	1763.5	1545.5	1352.0	1172.1	997.6	834.1	678.7	539.7	417.0
32.5°	2420.4	2123.3	1858.9	1621.8	1414.7	1221.1	1038.5	866.8	706.0	561.5	430.7
30°	2556.7	2232.4	1948.9	1695.4	1471.9	1270.2	1079.4	899.5	733.2	580.6	444.3
27.5°	2695.7	2346.8	2038.8	1763.5	1526.4	1313.8	1114.8	929.5	757.8	599.7	457.9
25°	2829.3	2455.9	2123.3	1829.0	1575.5	1357.4	1153.0	959.5	779.6	616.0	468.8
22.5°	2952.0	2551.3	2199.7	1891.7	1627.3	1395.6	1185.7	986.7	801.4	632.4	479.7
20°	3063.7	2649.4	2278.7	1954.3	1676.3	1433.7	1212.9	1011.2	820.4	646.0	490.6
17.5°	3172.7	2739.4	2349.6	2011.6	1717.2	1466.4	1240.2	1030.3	836.8	656.9	498.8
15°	3265.4	2818.4	2412.3	2060.6	1755.4	1493.7	1262.0	1049.4	850.4	667.8	504.3
12.5°	3347.2	2886.5	2466.8	2101.5	1785.3	1518.2	1283.8	1065.8	864.1	676.0	512.4
10°	3412.6	2941.1	2510.4	2137.0	1812.6	1537.3	1297.4	1079.4	872.2	684.2	517.9
7.5°	3464.4	2984.7	2545.8	2161.5	1831.7	1553.7	1311.1	1087.6	880.4	689.6	526.1
5°	3502.6	3017.4	2570.4	2180.6	1848.0	1572.7	1327.4	1101.2	891.3	697.8	526.1
2.5°	3532.5	3041.9	2589.4	2196.9	1858.9	1572.7	1327.4	1101.2	891.3	697.8	526.1
0°	3532.5	3041.9	2589.4	2196.9	1858.9	1572.7	1327.4	1101.2	891.3	697.8	526.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.6	10.9	5.5	0.0
85°	30.0	19.1	10.9	0.0
82.5°	43.6	30.0	13.6	0.0
80°	57.2	38.2	19.1	0.0
77.5°	73.6	49.1	24.5	0.0
75°	87.2	57.2	30.0	0.0
72.5°	100.9	68.1	32.7	0.0
70°	114.5	76.3	38.2	0.0
67.5°	130.8	84.5	43.6	0.0
65°	144.5	95.4	46.3	0.0
62.5°	158.1	103.6	51.8	0.0
60°	171.7	111.8	54.5	0.0
57.5°	185.3	119.9	60.0	0.0
55°	199.0	130.8	65.4	0.0
52.5°	212.6	139.0	68.1	0.0
50°	226.2	147.2	70.9	0.0
47.5°	237.1	155.4	76.3	0.0
45°	250.8	163.5	79.0	0.0
42.5°	264.4	169.0	81.8	0.0
40°	275.3	177.2	84.5	0.0
37.5°	288.9	182.6	89.9	0.0
35°	299.8	190.8	92.7	0.0
32.5°	308.0	196.3	95.4	0.0
30°	318.9	201.7	98.1	0.0
27.5°	327.1	207.2	98.1	0.0
25°	335.3	212.6	100.9	0.0
22.5°	343.4	215.3	103.6	0.0
20°	351.6	220.8	106.3	0.0
17.5°	357.1	223.5	106.3	0.0
15°	362.5	226.2	111.8	0.0
12.5°	365.2	229.0	111.8	0.0
10°	370.7	234.4	111.8	0.0
7.5°	376.1	234.4	111.8	0.0
5°	376.1	234.4	111.8	0.0
2.5°	376.1	234.4	111.8	0.0
0°	376.1	234.4	111.8	0.0

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