

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: P628199

Luminaire Tested: **IFLD-L-SA7A-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628199
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

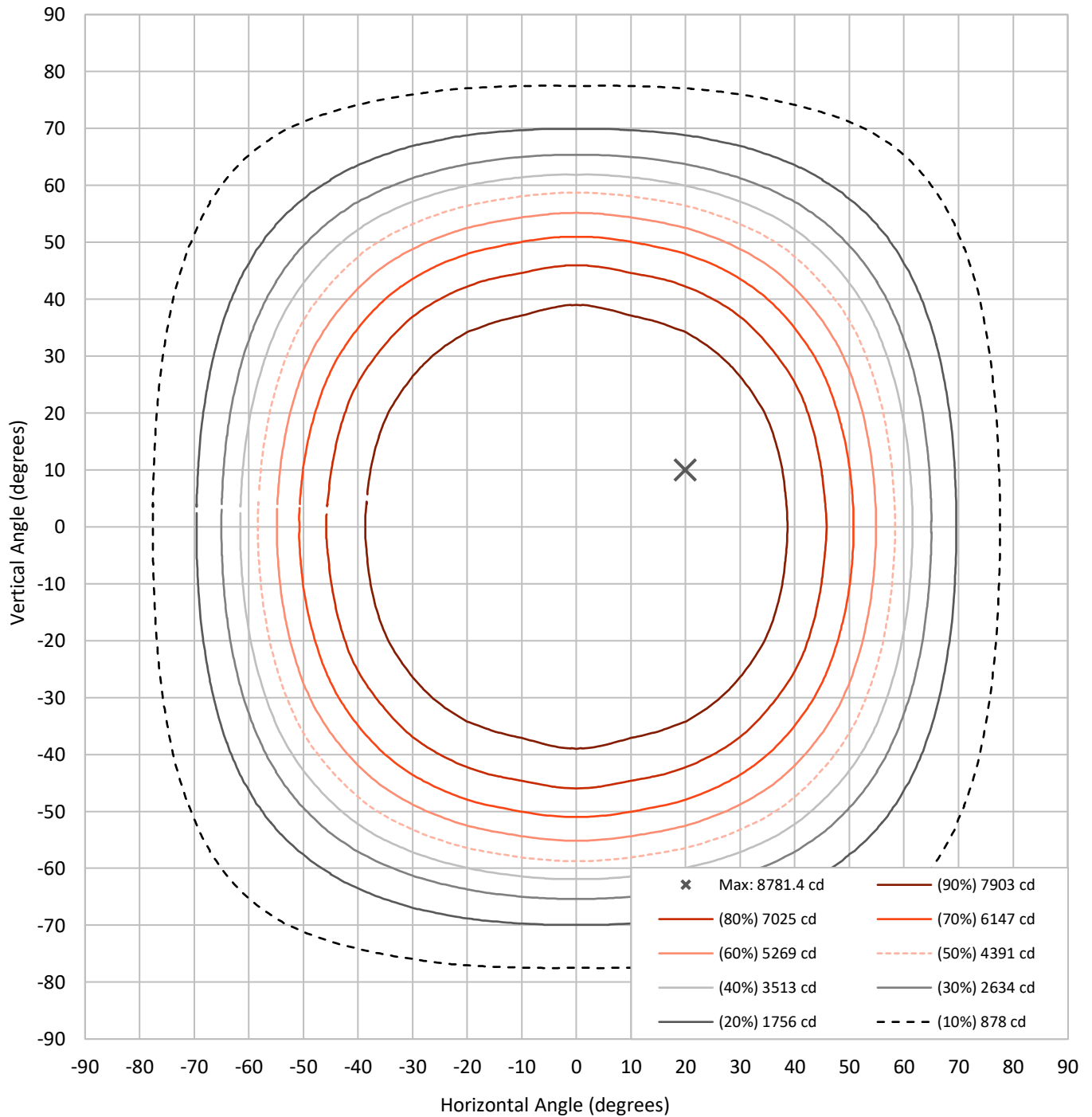
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26940.2 lumens	Max Intensity:	8781.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	123.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	16531.1 lumens	Field Lumens:	19817.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
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		



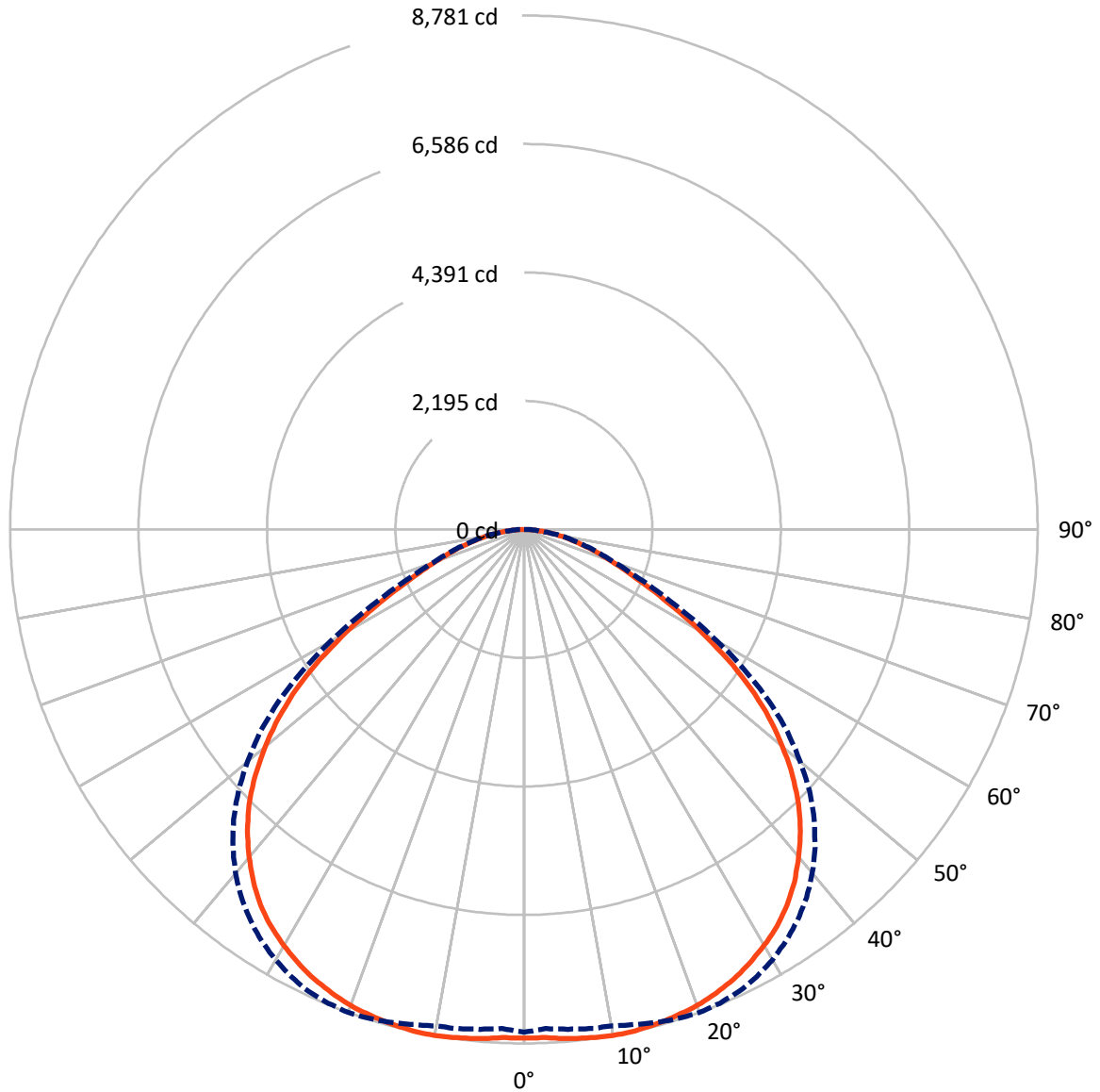
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Iso-Candela Plot



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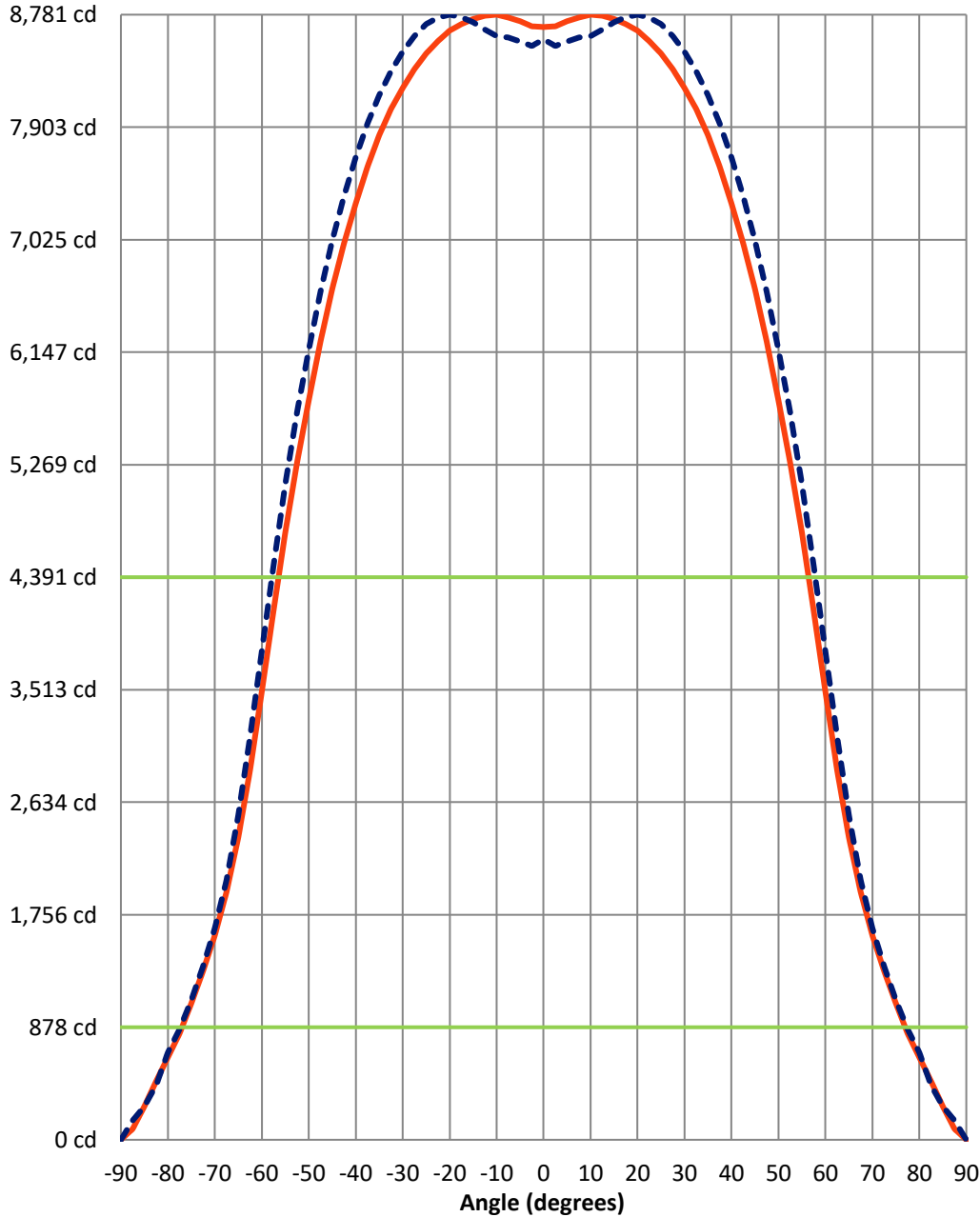
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 16531.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 19817.9
 Efficiency: 73.6%

Spill:
 Lumens: 7122.3
 Efficiency: 26.4%

— Vertical Distribution through 20-Deg
 - - - Horizontal Distribution through 10-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°	70.9	76.5	79.4	82.2	85.0	87.9	90.7	87.9	85.0	85.0	82.2
85°	189.9	195.6	198.4	218.3	238.1	249.4	263.6	260.8	260.8	257.9	255.1
82.5°	379.8	396.8	411.0	430.9	442.2	459.2	470.5	462.0	456.4	445.0	436.5
80°	674.6	680.3	683.1	686.0	671.8	669.0	663.3	654.8	643.4	629.3	615.1
77.5°	858.9	864.5	870.2	864.5	861.7	858.9	850.4	841.9	830.5	819.2	802.2
75°	1136.7	1136.7	1136.7	1128.1	1122.5	1114.0	1099.8	1085.6	1065.8	1043.1	1017.6
72.5°	1431.4	1428.6	1425.8	1408.8	1394.6	1377.6	1357.7	1340.7	1318.1	1292.6	1258.5
70°	1740.4	1746.1	1748.9	1726.2	1709.2	1686.6	1661.0	1629.9	1595.9	1559.0	1510.8
67.5°	2165.6	2159.9	2154.3	2123.1	2100.4	2069.2	2032.4	1987.0	1936.0	1879.3	1811.3
65°	2692.8	2701.3	2684.3	2653.1	2610.6	2559.6	2502.9	2437.7	2361.2	2276.1	2179.8
62.5°	3330.6	3344.8	3324.9	3285.2	3231.4	3163.4	3084.0	2990.4	2885.6	2766.5	2647.5
60°	4056.2	4053.4	4016.6	3962.7	3891.8	3806.8	3718.9	3616.9	3497.8	3358.9	3214.4
57.5°	4722.4	4716.7	4671.3	4617.5	4546.6	4455.9	4362.4	4254.7	4129.9	3982.5	3815.3
55°	5320.4	5314.8	5269.4	5212.7	5139.0	5048.3	4963.3	4861.2	4739.4	4583.5	4404.9
52.5°	5850.5	5853.3	5813.7	5751.3	5671.9	5584.1	5501.9	5399.8	5283.6	5127.7	4954.8
50°	6338.0	6335.2	6292.7	6236.0	6162.3	6077.3	5995.1	5893.0	5771.1	5620.9	5453.7
47.5°	6791.6	6785.9	6737.7	6675.4	6598.8	6525.1	6448.6	6357.9	6230.3	6080.1	5912.9
45°	7171.4	7160.1	7111.9	7052.4	6978.7	6913.5	6845.4	6777.4	6641.3	6502.5	6343.7
42.5°	7497.4	7494.5	7446.4	7386.8	7313.1	7256.4	7194.1	7109.0	6995.7	6868.1	6712.2
40°	7809.2	7786.5	7738.3	7681.6	7613.6	7565.4	7503.0	7418.0	7307.5	7182.7	7032.5
37.5°	8041.6	8044.4	7993.4	7931.1	7871.5	7826.2	7769.5	7690.1	7593.8	7471.9	7321.6
35°	8262.7	8248.5	8206.0	8152.2	8098.3	8047.3	7987.8	7919.7	7840.4	7727.0	7585.2
32.5°	8407.3	8427.1	8376.1	8319.4	8288.2	8248.5	8186.2	8115.3	8044.4	7931.1	7803.5
30°	8566.0	8549.0	8509.3	8461.1	8438.4	8412.9	8359.1	8291.1	8208.9	8106.8	7987.8
27.5°	8676.6	8668.0	8619.9	8574.5	8563.2	8540.5	8498.0	8438.4	8356.2	8257.0	8146.5
25°	8724.7	8730.4	8685.1	8659.5	8659.5	8645.4	8611.4	8560.3	8478.1	8387.4	8279.7
22.5°	8747.4	8741.7	8710.6	8704.9	8719.1	8707.7	8693.6	8648.2	8574.5	8500.8	8410.1
20°	8761.6	8721.9	8693.6	8716.2	8733.2	8730.4	8719.1	8690.7	8656.7	8594.3	8515.0
17.5°	8730.4	8704.9	8670.9	8704.9	8741.7	8744.6	8733.2	8716.2	8707.7	8668.0	8597.2
15°	8653.9	8634.0	8639.7	8673.7	8716.2	8730.4	8738.9	8758.8	8747.4	8716.2	8653.9
12.5°	8602.9	8577.3	8602.9	8636.9	8659.5	8668.0	8736.1	8772.9	8772.9	8744.6	8704.9
10°	8588.7	8537.7	8571.7	8602.9	8614.2	8665.2	8721.9	8761.6	8781.4	8758.8	8707.7
7.5°	8560.3	8526.3	8540.5	8554.7	8619.9	8656.7	8687.9	8730.4	8758.8	8755.9	8710.6
5°	8546.2	8503.6	8509.3	8568.8	8614.2	8639.7	8651.0	8687.9	8730.4	8738.9	8704.9
2.5°	8509.3	8489.5	8532.0	8537.7	8571.7	8591.5	8602.9	8636.9	8690.7	8710.6	8696.4
0°	8489.5	8461.1	8432.8	8455.5	8512.1	8554.7	8571.7	8622.7	8685.1	8704.9	8673.7



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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°	79.4	76.5	73.7	70.9	73.7	73.7	73.7	70.9	73.7	70.9	70.9
85°	246.6	235.3	226.8	215.4	204.1	195.6	184.2	172.9	170.1	167.2	161.6
82.5°	425.2	411.0	396.8	379.8	362.8	343.0	323.1	300.5	294.8	289.1	280.6
80°	598.1	578.2	558.4	538.6	521.6	501.7	479.0	453.5	436.5	422.3	405.3
77.5°	779.5	751.2	722.8	688.8	669.0	649.1	626.4	600.9	575.4	552.7	527.2
75°	986.4	955.2	926.9	892.9	856.0	819.2	782.3	748.3	711.5	677.5	643.4
72.5°	1216.0	1170.7	1125.3	1082.8	1037.4	992.1	943.9	898.6	853.2	807.8	759.7
70°	1457.0	1400.3	1343.6	1286.9	1227.4	1167.8	1111.1	1054.5	997.8	938.2	884.4
67.5°	1740.4	1675.2	1601.5	1522.2	1434.3	1357.7	1284.1	1216.0	1148.0	1080.0	1011.9
65°	2094.7	2004.0	1904.8	1797.1	1695.1	1593.0	1485.3	1383.3	1303.9	1224.5	1148.0
62.5°	2531.3	2403.7	2264.8	2125.9	2001.2	1868.0	1743.2	1610.0	1485.3	1371.9	1278.4
60°	3052.8	2879.9	2709.8	2531.3	2358.3	2176.9	2018.2	1853.8	1697.9	1559.0	1422.9
57.5°	3628.2	3427.0	3222.9	3004.6	2769.4	2556.8	2341.3	2125.9	1941.7	1757.4	1604.4
55°	4212.1	3999.5	3769.9	3523.3	3265.4	2993.3	2701.3	2460.4	2208.1	1992.7	1794.3
52.5°	4767.7	4546.6	4308.5	4081.7	3772.8	3461.0	3140.7	2823.2	2528.4	2253.5	2012.5
50°	5263.8	5048.3	4818.7	4555.1	4268.8	3937.2	3580.0	3222.9	2874.2	2551.1	2250.6
47.5°	5717.3	5507.5	5277.9	5014.3	4753.5	4385.0	4025.1	3631.1	3242.7	2871.4	2519.9
45°	6142.5	5929.9	5691.8	5439.5	5139.0	4810.2	4438.9	4042.1	3625.4	3208.7	2803.4
42.5°	6528.0	6315.4	6074.4	5813.7	5516.0	5190.1	4830.1	4430.4	4010.9	3557.4	3112.3
40°	6865.3	6658.4	6425.9	6153.8	5876.0	5533.0	5178.7	4798.9	4365.2	3908.8	3418.5
37.5°	7160.1	6967.3	6737.7	6468.4	6173.6	5867.5	5501.9	5122.0	4730.9	4234.8	3733.1
35°	7420.8	7242.3	7007.0	6751.9	6462.8	6139.6	5796.7	5425.3	5003.0	4538.1	4050.6
32.5°	7647.6	7466.2	7250.8	6995.7	6715.0	6411.7	6060.3	5686.1	5286.4	4813.1	4283.0
30°	7840.4	7664.6	7460.5	7219.6	6950.3	6649.8	6306.9	5929.9	5521.7	5051.2	4526.8
27.5°	8007.6	7840.4	7641.9	7418.0	7160.1	6870.9	6525.1	6145.3	5728.6	5275.1	4750.7
25°	8152.2	7990.6	7806.3	7593.8	7338.6	7055.2	6729.2	6332.4	5915.7	5459.3	4940.6
22.5°	8282.5	8126.6	7942.4	7735.5	7503.0	7219.6	6890.8	6496.8	6074.4	5623.7	5113.5
20°	8398.8	8254.2	8072.8	7860.2	7627.8	7341.5	7015.5	6641.3	6216.2	5774.0	5269.4
17.5°	8492.3	8364.8	8183.3	7959.4	7727.0	7449.2	7131.7	6788.7	6338.0	5901.5	5399.8
15°	8557.5	8432.8	8268.4	8041.6	7814.8	7539.9	7222.4	6868.1	6448.6	6003.6	5507.5
12.5°	8602.9	8469.6	8316.6	8106.8	7880.0	7607.9	7299.0	6950.3	6542.1	6094.3	5601.1
10°	8614.2	8492.3	8339.2	8152.2	7931.1	7667.5	7364.2	7018.3	6618.7	6165.1	5677.6
7.5°	8619.9	8503.6	8364.8	8186.2	7967.9	7712.8	7412.3	7072.2	6675.4	6224.7	5734.3
5°	8617.0	8506.5	8381.8	8208.9	7990.6	7738.3	7443.5	7109.0	6715.0	6264.4	5776.8
2.5°	8608.5	8509.3	8393.1	8225.9	8016.1	7766.7	7474.7	7151.6	6757.6	6298.4	5810.8
0°	8631.2	8546.2	8398.8	8220.2	8021.8	7766.7	7471.9	7157.2	6763.2	6295.5	5808.0



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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°	70.9	68.0	68.0	65.2	62.4	59.5	53.9	51.0	45.4	36.8	28.3
85°	153.1	144.6	136.1	130.4	124.7	119.1	110.5	102.0	90.7	73.7	56.7
82.5°	269.3	252.3	235.3	215.4	198.4	181.4	167.2	153.1	136.1	110.5	85.0
80°	385.5	360.0	334.5	306.1	280.6	252.3	226.8	204.1	181.4	147.4	113.4
77.5°	501.7	467.7	430.9	396.8	360.0	323.1	286.3	255.1	221.1	181.4	141.7
75°	609.4	569.7	535.7	487.5	442.2	394.0	345.8	303.3	260.8	212.6	170.1
72.5°	717.1	666.1	617.9	572.6	521.6	462.0	408.2	354.3	300.5	243.8	192.7
70°	824.9	762.5	703.0	649.1	592.4	532.9	467.7	405.3	340.1	272.1	212.6
67.5°	935.4	864.5	796.5	728.5	663.3	595.3	527.2	456.4	379.8	300.5	235.3
65°	1057.3	969.4	887.2	810.7	734.1	660.4	583.9	507.4	422.3	331.6	255.1
62.5°	1179.2	1082.8	986.4	890.0	805.0	722.8	640.6	555.6	462.0	365.7	275.0
60°	1309.6	1199.0	1088.5	980.8	875.9	785.2	694.5	603.8	504.5	396.8	294.8
57.5°	1454.1	1320.9	1196.2	1074.3	955.2	847.5	748.3	651.9	541.4	428.0	317.5
55°	1618.5	1454.1	1306.7	1170.7	1040.3	909.9	802.2	703.0	583.9	459.2	343.0
52.5°	1791.4	1601.5	1422.9	1269.9	1131.0	983.6	853.2	742.7	626.4	490.4	365.7
50°	1992.7	1751.8	1553.3	1366.3	1210.4	1057.3	907.1	788.0	669.0	527.2	388.3
47.5°	2199.6	1933.2	1683.7	1479.6	1295.4	1128.1	969.4	827.7	708.6	561.2	411.0
45°	2440.5	2106.1	1831.1	1590.2	1377.6	1201.8	1031.8	870.2	742.7	595.3	433.7
42.5°	2673.0	2310.2	1984.2	1712.1	1471.1	1272.7	1088.5	915.6	776.7	629.3	453.5
40°	2947.9	2514.2	2131.6	1828.3	1564.7	1340.7	1145.2	963.7	807.8	660.4	473.4
37.5°	3211.5	2721.2	2310.2	1955.8	1655.4	1408.8	1201.8	1009.1	836.2	691.6	498.9
35°	3472.3	2950.8	2480.2	2074.9	1748.9	1485.3	1258.5	1051.6	864.5	717.1	521.6
32.5°	3721.8	3166.2	2653.1	2208.1	1851.0	1556.2	1309.6	1091.3	892.9	739.8	544.2
30°	3954.2	3370.3	2823.2	2344.2	1944.5	1621.4	1357.7	1131.0	926.9	759.7	566.9
27.5°	4166.8	3568.7	2993.3	2471.7	2032.4	1680.9	1408.8	1167.8	955.2	779.5	586.8
25°	4359.5	3747.3	3149.2	2587.9	2111.7	1746.1	1457.0	1204.7	980.8	796.5	603.8
22.5°	4540.9	3911.7	3290.9	2704.2	2208.1	1811.3	1502.3	1238.7	1006.3	813.5	620.8
20°	4699.7	4061.9	3427.0	2820.4	2293.1	1870.8	1542.0	1269.9	1028.9	824.9	637.8
17.5°	4827.2	4195.1	3548.9	2922.4	2366.8	1921.8	1576.0	1298.2	1048.8	839.0	649.1
15°	4940.6	4308.5	3650.9	3010.3	2432.0	1964.3	1607.2	1320.9	1065.8	847.5	663.3
12.5°	5037.0	4404.9	3738.8	3086.8	2488.7	2001.2	1632.7	1337.9	1080.0	856.0	671.8
10°	5116.4	4481.4	3812.5	3146.3	2534.1	2029.5	1652.5	1354.9	1091.3	864.5	680.3
7.5°	5175.9	4538.1	3866.3	3197.4	2570.9	2049.4	1669.5	1366.3	1102.6	870.2	694.5
5°	5221.2	4586.3	3908.8	3231.4	2599.3	2077.7	1689.4	1380.4	1114.0	875.9	694.5
2.5°	5255.3	4626.0	3942.9	3259.7	2622.0	2072.1	1689.4	1377.6	1114.0	875.9	691.6
0°	5249.6	4628.8	3940.0	3259.7	2622.0	2066.4	1689.4	1374.8	1114.0	875.9	691.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.8	14.2	5.7	0.0
85°	42.5	28.3	14.2	0.0
82.5°	62.4	39.7	19.8	0.0
80°	82.2	53.9	25.5	0.0
77.5°	104.9	68.0	34.0	0.0
75°	124.7	79.4	39.7	0.0
72.5°	144.6	93.5	45.4	0.0
70°	161.6	104.9	51.0	0.0
67.5°	178.6	119.1	59.5	0.0
65°	192.7	130.4	65.2	0.0
62.5°	204.1	144.6	70.9	0.0
60°	218.3	155.9	76.5	0.0
57.5°	229.6	164.4	82.2	0.0
55°	240.9	170.1	87.9	0.0
52.5°	252.3	178.6	93.5	0.0
50°	263.6	187.1	99.2	0.0
47.5°	275.0	192.7	102.0	0.0
45°	292.0	201.3	107.7	0.0
42.5°	306.1	206.9	113.4	0.0
40°	320.3	212.6	116.2	0.0
37.5°	334.5	218.3	121.9	0.0
35°	348.6	223.9	124.7	0.0
32.5°	360.0	229.6	127.6	0.0
30°	371.3	235.3	130.4	0.0
27.5°	382.7	238.1	133.2	0.0
25°	391.2	243.8	136.1	0.0
22.5°	399.7	246.6	138.9	0.0
20°	405.3	249.4	141.7	0.0
17.5°	413.8	252.3	144.6	0.0
15°	416.7	255.1	150.2	0.0
12.5°	422.3	257.9	150.2	0.0
10°	425.2	260.8	150.2	0.0
7.5°	430.9	260.8	150.2	0.0
5°	428.0	260.8	150.2	0.0
2.5°	428.0	260.8	150.2	0.0
0°	425.2	260.8	150.2	0.0

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