

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: P628431

Luminaire Tested: **IFLD-L-SA7A-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

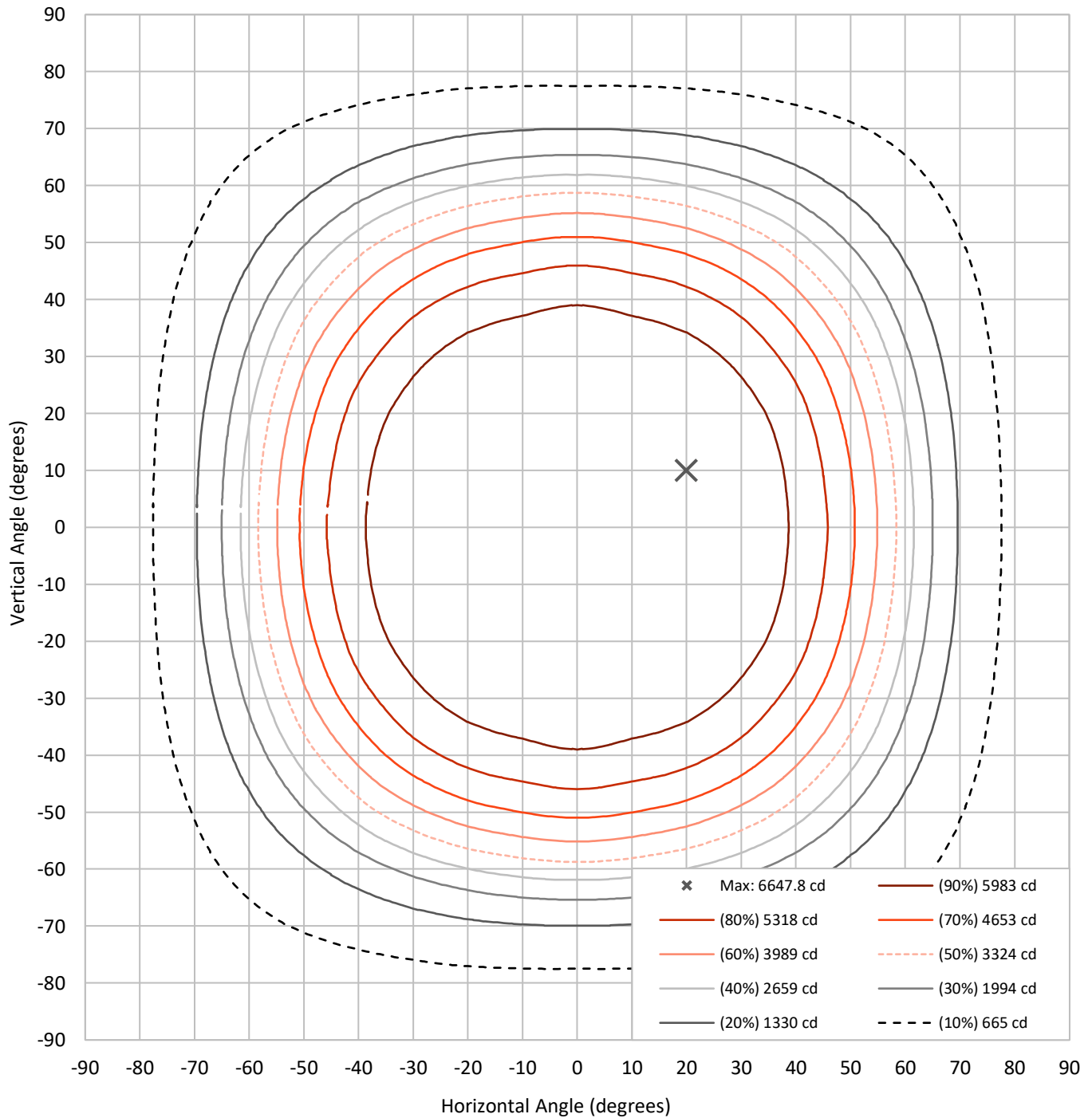
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20394.4 lumens	Max Intensity:	6647.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	93.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	12514.4 lumens	Field Lumens:	15002.7 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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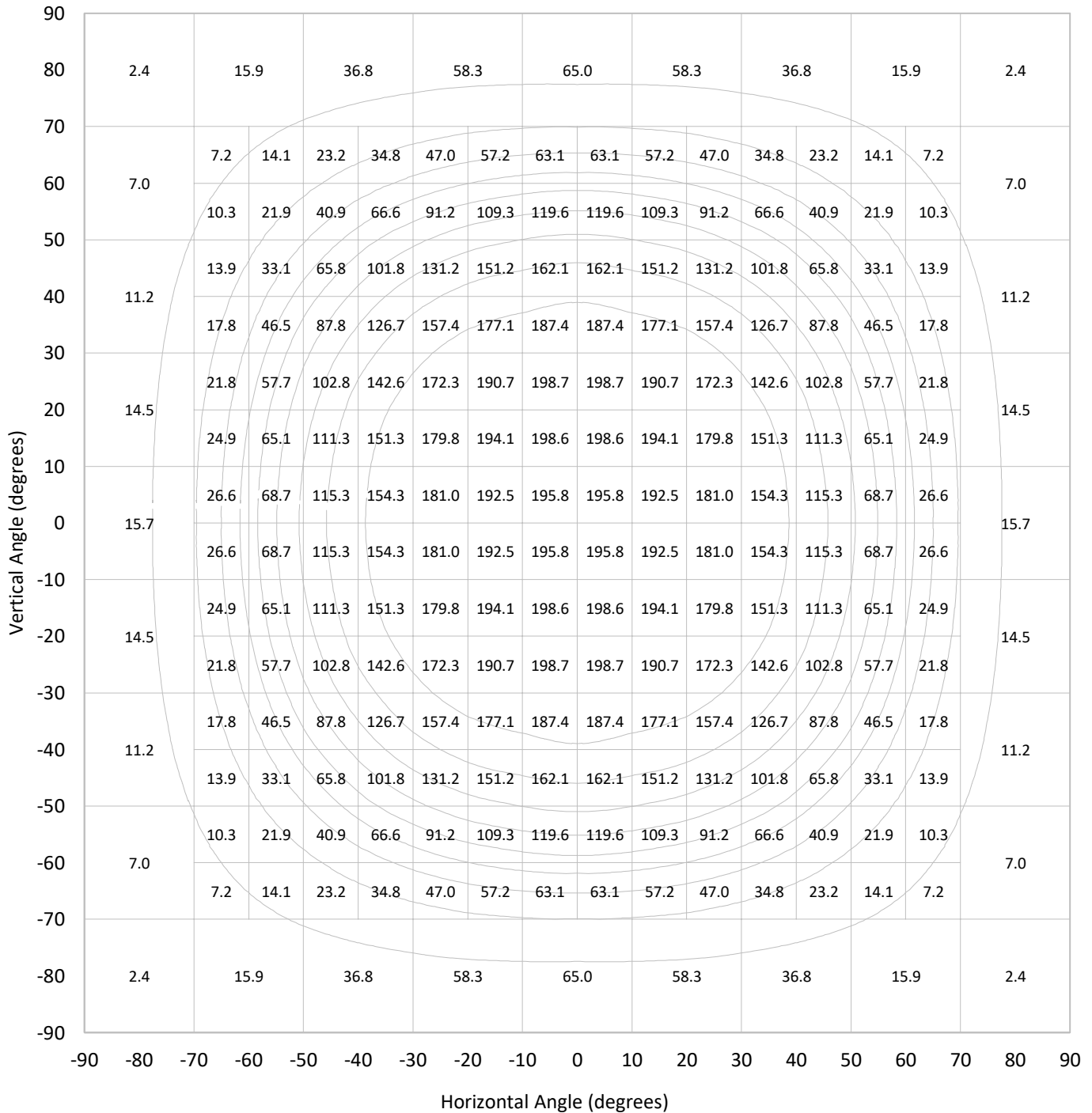
Iso-Candela Plot





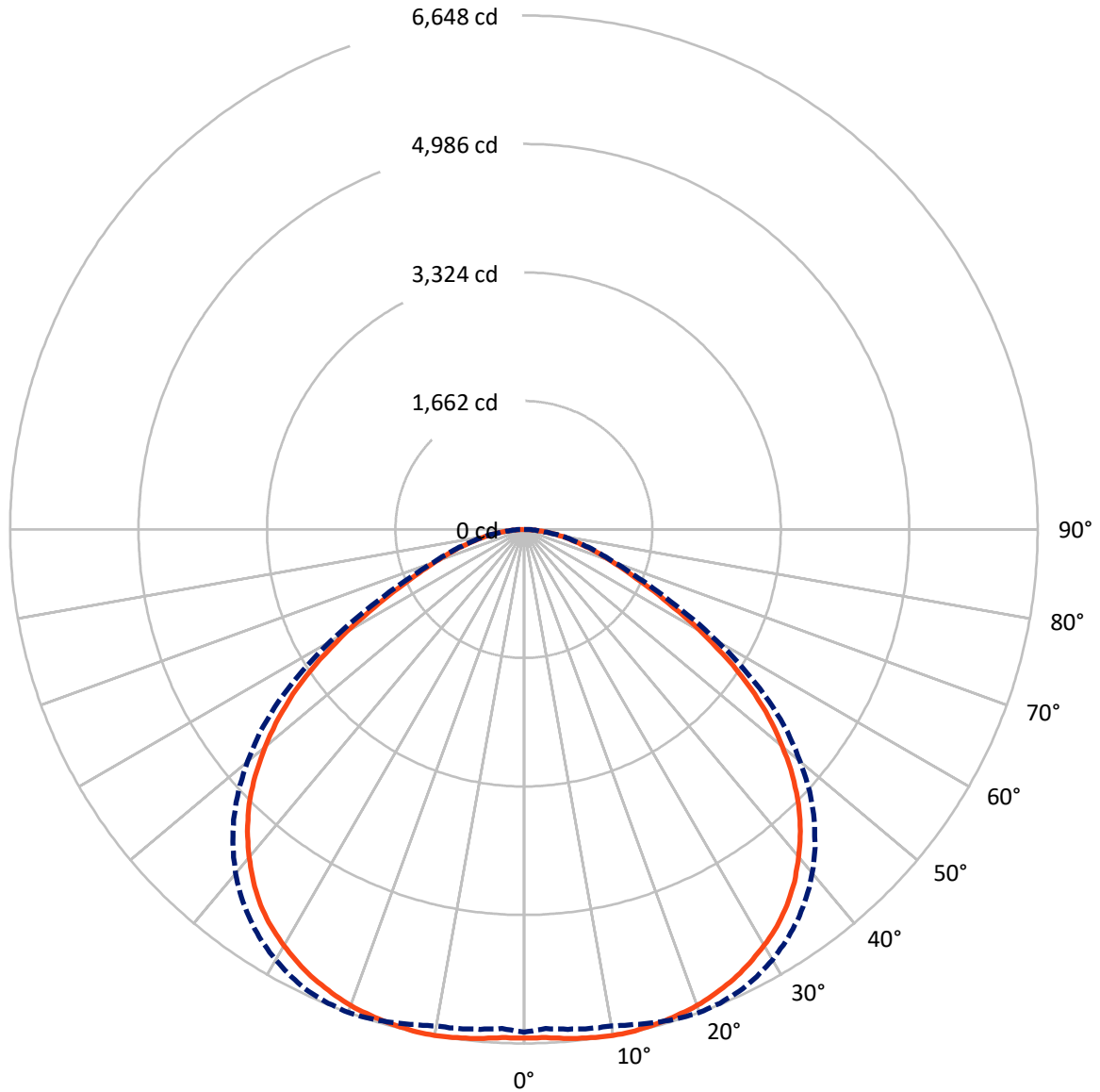
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Lumen Table



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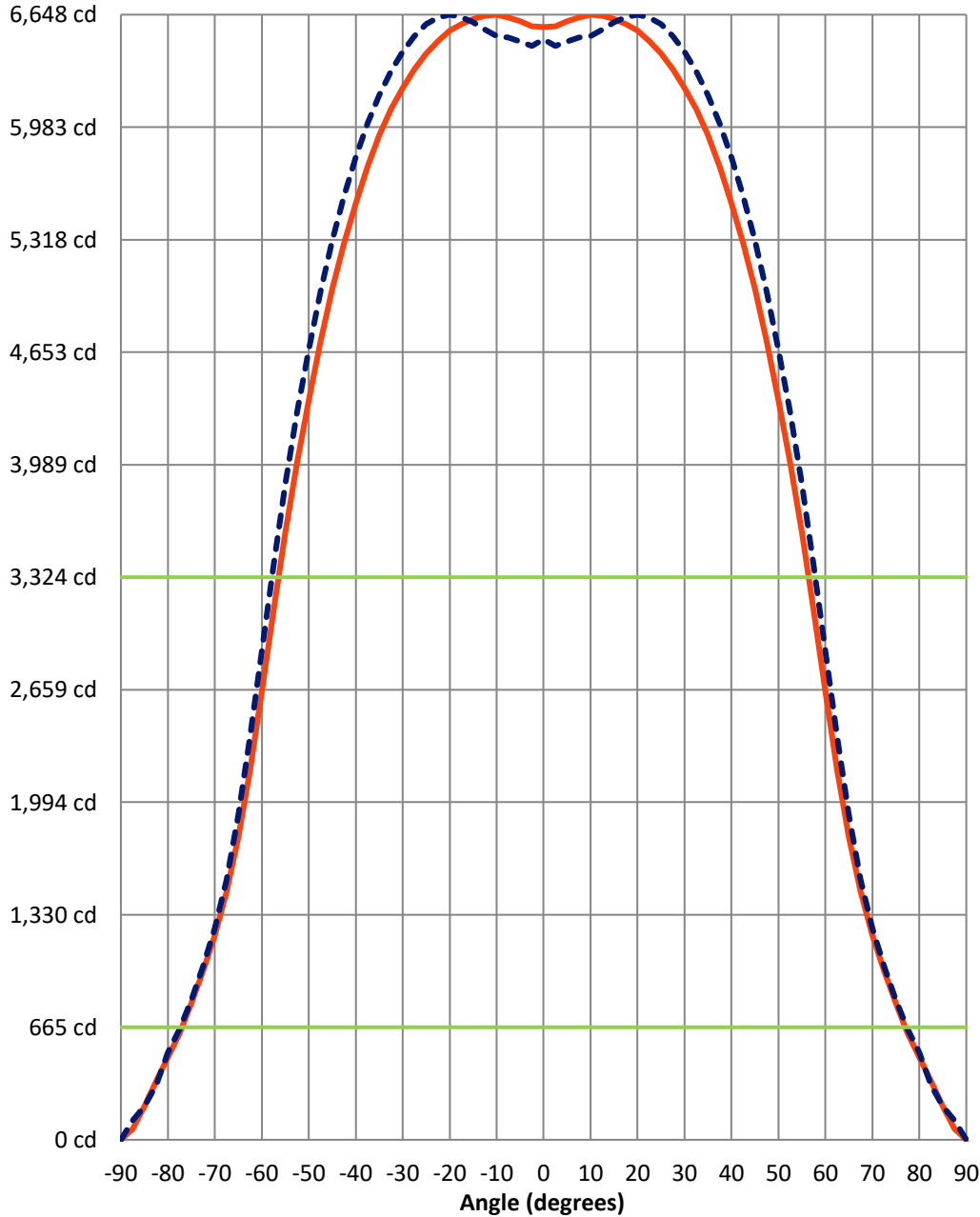
Luminous Intensity Polar Plot



— 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: 12514.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15002.7
 Efficiency: 73.6%

Spill:
 Lumens: 5391.7
 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°	53.6	57.9	60.1	62.2	64.4	66.5	68.7	66.5	64.4	64.4	62.2
85°	143.8	148.1	150.2	165.2	180.2	188.8	199.6	197.4	197.4	195.3	193.1
82.5°	287.5	300.4	311.1	326.2	334.7	347.6	356.2	349.8	345.5	336.9	330.5
80°	510.7	515.0	517.1	519.3	508.6	506.4	502.1	495.7	487.1	476.4	465.6
77.5°	650.2	654.5	658.8	654.5	652.3	650.2	643.7	637.3	628.7	620.1	607.3
75°	860.5	860.5	860.5	854.0	849.7	843.3	832.6	821.9	806.8	789.7	770.4
72.5°	1083.6	1081.5	1079.3	1066.5	1055.7	1042.9	1027.8	1015.0	997.8	978.5	952.7
70°	1317.5	1321.8	1324.0	1306.8	1293.9	1276.8	1257.5	1233.8	1208.1	1180.2	1143.7
67.5°	1639.4	1635.1	1630.8	1607.2	1590.1	1566.5	1538.6	1504.2	1465.6	1422.7	1371.2
65°	2038.5	2045.0	2032.1	2008.5	1976.3	1937.7	1894.8	1845.4	1787.5	1723.1	1650.1
62.5°	2521.3	2532.1	2517.1	2487.0	2446.2	2394.7	2334.7	2263.8	2184.4	2094.3	2004.2
60°	3070.7	3068.5	3040.6	2999.9	2946.2	2881.8	2815.3	2738.1	2647.9	2542.8	2433.4
57.5°	3574.9	3570.7	3536.3	3495.5	3441.9	3373.2	3302.4	3220.9	3126.5	3014.9	2888.3
55°	4027.7	4023.4	3989.1	3946.2	3890.4	3821.7	3757.3	3680.1	3587.8	3469.8	3334.6
52.5°	4429.0	4431.1	4401.1	4353.9	4293.8	4227.3	4165.0	4087.8	3999.8	3881.8	3750.9
50°	4798.1	4795.9	4763.7	4720.8	4665.0	4600.6	4538.4	4461.2	4368.9	4255.2	4128.6
47.5°	5141.4	5137.1	5100.6	5053.4	4995.5	4939.7	4881.7	4813.1	4716.5	4602.8	4476.2
45°	5428.9	5420.4	5383.9	5338.8	5283.0	5233.7	5182.2	5130.7	5027.7	4922.5	4802.4
42.5°	5675.7	5673.6	5637.1	5592.0	5536.2	5493.3	5446.1	5381.7	5295.9	5199.3	5081.3
40°	5911.7	5894.6	5858.1	5815.2	5763.7	5727.2	5680.0	5615.6	5531.9	5437.5	5323.8
37.5°	6087.7	6089.8	6051.2	6004.0	5959.0	5924.6	5881.7	5821.6	5748.7	5656.4	5542.7
35°	6255.1	6244.3	6212.2	6171.4	6130.6	6092.0	6046.9	5995.4	5935.3	5849.5	5742.2
32.5°	6364.5	6379.5	6340.9	6298.0	6274.4	6244.3	6197.1	6143.5	6089.8	6004.0	5907.5
30°	6484.7	6471.8	6441.8	6405.3	6388.1	6368.8	6328.0	6276.5	6214.3	6137.1	6046.9
27.5°	6568.4	6561.9	6525.4	6491.1	6482.5	6465.4	6433.2	6388.1	6325.9	6250.8	6167.1
25°	6604.8	6609.1	6574.8	6555.5	6555.5	6544.8	6519.0	6480.4	6418.2	6349.5	6268.0
22.5°	6622.0	6617.7	6594.1	6589.8	6600.6	6592.0	6581.2	6546.9	6491.1	6435.3	6366.7
20°	6632.7	6602.7	6581.2	6598.4	6611.3	6609.1	6600.6	6579.1	6553.3	6506.1	6446.1
17.5°	6609.1	6589.8	6564.1	6589.8	6617.7	6619.9	6611.3	6598.4	6592.0	6561.9	6508.3
15°	6551.2	6536.2	6540.5	6566.2	6598.4	6609.1	6615.6	6630.6	6622.0	6598.4	6551.2
12.5°	6512.6	6493.3	6512.6	6538.3	6555.5	6561.9	6613.4	6641.3	6641.3	6619.9	6589.8
10°	6501.8	6463.2	6489.0	6512.6	6521.2	6559.8	6602.7	6632.7	6647.8	6630.6	6592.0
7.5°	6480.4	6454.6	6465.4	6476.1	6525.4	6553.3	6576.9	6609.1	6630.6	6628.4	6594.1
5°	6469.7	6437.5	6441.8	6486.8	6521.2	6540.5	6549.1	6576.9	6609.1	6615.6	6589.8
2.5°	6441.8	6426.7	6458.9	6463.2	6489.0	6504.0	6512.6	6538.3	6579.1	6594.1	6583.4
0°	6426.7	6405.3	6383.8	6401.0	6443.9	6476.1	6489.0	6527.6	6574.8	6589.8	6566.2



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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°	60.1	57.9	55.8	53.6	55.8	55.8	55.8	53.6	55.8	53.6	53.6
85°	186.7	178.1	171.7	163.1	154.5	148.1	139.5	130.9	128.7	126.6	122.3
82.5°	321.9	311.1	300.4	287.5	274.7	259.6	244.6	227.5	223.2	218.9	212.4
80°	452.8	437.7	422.7	407.7	394.8	379.8	362.6	343.3	330.5	319.7	306.9
77.5°	590.1	568.6	547.2	521.4	506.4	491.4	474.2	454.9	435.6	418.4	399.1
75°	746.7	723.1	701.7	675.9	648.0	620.1	592.2	566.5	538.6	512.9	487.1
72.5°	920.6	886.2	851.9	819.7	785.4	751.0	714.6	680.2	645.9	611.6	575.1
70°	1103.0	1060.0	1017.1	974.2	929.1	884.1	841.2	798.2	755.3	710.3	669.5
67.5°	1317.5	1268.2	1212.4	1152.3	1085.8	1027.8	972.1	920.6	869.1	817.6	766.1
65°	1585.8	1517.1	1442.0	1360.5	1283.2	1206.0	1124.4	1047.2	987.1	927.0	869.1
62.5°	1916.2	1819.7	1714.5	1609.4	1515.0	1414.1	1319.7	1218.8	1124.4	1038.6	967.8
60°	2311.1	2180.2	2051.4	1916.2	1785.3	1648.0	1527.8	1403.4	1285.3	1180.2	1077.2
57.5°	2746.7	2594.3	2439.8	2274.6	2096.5	1935.5	1772.5	1609.4	1469.9	1330.4	1214.5
55°	3188.7	3027.8	2853.9	2667.3	2472.0	2266.0	2045.0	1862.6	1671.6	1508.5	1358.3
52.5°	3609.3	3441.9	3261.7	3090.0	2856.1	2620.1	2377.6	2137.2	1914.1	1705.9	1523.5
50°	3984.8	3821.7	3647.9	3448.3	3231.6	2980.5	2710.2	2439.8	2175.9	1931.2	1703.8
47.5°	4328.1	4169.3	3995.5	3796.0	3598.5	3319.6	3047.1	2748.8	2454.8	2173.7	1907.6
45°	4650.0	4489.1	4308.8	4117.8	3890.4	3641.5	3360.4	3059.9	2744.5	2429.1	2122.2
42.5°	4941.8	4780.9	4598.5	4401.1	4175.8	3929.0	3656.5	3353.9	3036.3	2693.0	2356.1
40°	5197.2	5040.5	4864.6	4658.6	4448.3	4188.6	3920.4	3632.9	3304.6	2959.1	2587.9
37.5°	5420.4	5274.4	5100.6	4896.8	4673.6	4441.9	4165.0	3877.5	3581.4	3205.9	2826.0
35°	5617.8	5482.6	5304.5	5111.4	4892.5	4647.9	4388.2	4107.1	3787.4	3435.5	3066.4
32.5°	5789.4	5652.1	5489.0	5295.9	5083.5	4853.9	4587.8	4304.5	4002.0	3643.6	3242.3
30°	5935.3	5802.3	5647.8	5465.4	5261.6	5034.1	4774.5	4489.1	4180.1	3823.9	3426.9
27.5°	6062.0	5935.3	5785.1	5615.6	5420.4	5201.5	4939.7	4652.1	4336.7	3993.4	3596.4
25°	6171.4	6049.1	5909.6	5748.7	5555.5	5341.0	5094.2	4793.8	4478.3	4132.9	3740.2
22.5°	6270.1	6152.1	6012.6	5856.0	5680.0	5465.4	5216.5	4918.2	4598.5	4257.3	3871.1
20°	6358.1	6248.6	6111.3	5950.4	5774.4	5557.7	5310.9	5027.7	4705.8	4371.0	3989.1
17.5°	6428.9	6332.3	6195.0	6025.5	5849.5	5639.2	5398.9	5139.2	4798.1	4467.6	4087.8
15°	6478.2	6383.8	6259.4	6087.7	5916.0	5707.9	5467.6	5199.3	4881.7	4544.9	4169.3
12.5°	6512.6	6411.7	6295.8	6137.1	5965.4	5759.4	5525.5	5261.6	4952.6	4613.5	4240.1
10°	6521.2	6428.9	6313.0	6171.4	6004.0	5804.5	5574.8	5313.1	5010.5	4667.2	4298.1
7.5°	6525.4	6437.5	6332.3	6197.1	6031.9	5838.8	5611.3	5353.8	5053.4	4712.2	4341.0
5°	6523.3	6439.6	6345.2	6214.3	6049.1	5858.1	5634.9	5381.7	5083.5	4742.3	4373.2
2.5°	6516.9	6441.8	6353.8	6227.2	6068.4	5879.6	5658.5	5413.9	5115.6	4768.0	4398.9
0°	6534.0	6469.7	6358.1	6222.9	6072.7	5879.6	5656.4	5418.2	5119.9	4765.9	4396.8



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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°	53.6	51.5	51.5	49.4	47.2	45.1	40.8	38.6	34.3	27.9	21.5
85°	115.9	109.4	103.0	98.7	94.4	90.1	83.7	77.2	68.7	55.8	42.9
82.5°	203.9	191.0	178.1	163.1	150.2	137.3	126.6	115.9	103.0	83.7	64.4
80°	291.8	272.5	253.2	231.7	212.4	191.0	171.7	154.5	137.3	111.6	85.8
77.5°	379.8	354.1	326.2	300.4	272.5	244.6	216.7	193.1	167.4	137.3	107.3
75°	461.4	431.3	405.6	369.1	334.7	298.3	261.8	229.6	197.4	160.9	128.7
72.5°	542.9	504.3	467.8	433.5	394.8	349.8	309.0	268.2	227.5	184.5	145.9
70°	624.4	577.2	532.2	491.4	448.5	403.4	354.1	306.9	257.5	206.0	160.9
67.5°	708.1	654.5	603.0	551.5	502.1	450.6	399.1	345.5	287.5	227.5	178.1
65°	800.4	733.9	671.6	613.7	555.8	500.0	442.0	384.1	319.7	251.1	193.1
62.5°	892.7	819.7	746.7	673.8	609.4	547.2	485.0	420.6	349.8	276.8	208.1
60°	991.4	907.7	824.0	742.5	663.1	594.4	525.7	457.1	382.0	300.4	223.2
57.5°	1100.8	1000.0	905.5	813.3	723.1	641.6	566.5	493.5	409.9	324.0	240.3
55°	1225.3	1100.8	989.2	886.2	787.5	688.8	607.3	532.2	442.0	347.6	259.6
52.5°	1356.2	1212.4	1077.2	961.3	856.2	744.6	645.9	562.2	474.2	371.2	276.8
50°	1508.5	1326.1	1175.9	1034.3	916.3	800.4	686.7	596.5	506.4	399.1	294.0
47.5°	1665.2	1463.5	1274.6	1120.1	980.6	854.0	733.9	626.6	536.5	424.9	311.1
45°	1847.6	1594.3	1386.2	1203.8	1042.9	909.8	781.1	658.8	562.2	450.6	328.3
42.5°	2023.5	1748.8	1502.1	1296.1	1113.7	963.5	824.0	693.1	588.0	476.4	343.3
40°	2231.7	1903.3	1613.7	1384.1	1184.5	1015.0	866.9	729.6	611.6	500.0	358.4
37.5°	2431.2	2060.0	1748.8	1480.6	1253.2	1066.5	909.8	763.9	633.0	523.6	377.7
35°	2628.6	2233.8	1877.6	1570.7	1324.0	1124.4	952.7	796.1	654.5	542.9	394.8
32.5°	2817.5	2396.9	2008.5	1671.6	1401.2	1178.1	991.4	826.1	675.9	560.1	412.0
30°	2993.4	2551.4	2137.2	1774.6	1472.0	1227.4	1027.8	856.2	701.7	575.1	429.2
27.5°	3154.4	2701.6	2266.0	1871.2	1538.6	1272.5	1066.5	884.1	723.1	590.1	444.2
25°	3300.3	2836.8	2384.0	1959.1	1598.6	1321.8	1103.0	912.0	742.5	603.0	457.1
22.5°	3437.6	2961.2	2491.3	2047.1	1671.6	1371.2	1137.3	937.7	761.8	615.9	469.9
20°	3557.8	3075.0	2594.3	2135.1	1736.0	1416.2	1167.3	961.3	778.9	624.4	482.8
17.5°	3654.3	3175.8	2686.6	2212.3	1791.8	1454.9	1193.1	982.8	794.0	635.2	491.4
15°	3740.2	3261.7	2763.8	2278.9	1841.1	1487.1	1216.7	1000.0	806.8	641.6	502.1
12.5°	3813.1	3334.6	2830.3	2336.8	1884.0	1515.0	1236.0	1012.8	817.6	648.0	508.6
10°	3873.2	3392.5	2886.1	2381.9	1918.4	1536.4	1251.0	1025.7	826.1	654.5	515.0
7.5°	3918.3	3435.5	2926.9	2420.5	1946.3	1551.4	1263.9	1034.3	834.7	658.8	525.7
5°	3952.6	3471.9	2959.1	2446.2	1967.7	1572.9	1278.9	1045.0	843.3	663.1	525.7
2.5°	3978.4	3502.0	2984.8	2467.7	1984.9	1568.6	1278.9	1042.9	843.3	663.1	523.6
0°	3974.1	3504.1	2982.7	2467.7	1984.9	1564.3	1278.9	1040.7	843.3	663.1	523.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.0	10.7	4.3	0.0
85°	32.2	21.5	10.7	0.0
82.5°	47.2	30.0	15.0	0.0
80°	62.2	40.8	19.3	0.0
77.5°	79.4	51.5	25.7	0.0
75°	94.4	60.1	30.0	0.0
72.5°	109.4	70.8	34.3	0.0
70°	122.3	79.4	38.6	0.0
67.5°	135.2	90.1	45.1	0.0
65°	145.9	98.7	49.4	0.0
62.5°	154.5	109.4	53.6	0.0
60°	165.2	118.0	57.9	0.0
57.5°	173.8	124.5	62.2	0.0
55°	182.4	128.7	66.5	0.0
52.5°	191.0	135.2	70.8	0.0
50°	199.6	141.6	75.1	0.0
47.5°	208.1	145.9	77.2	0.0
45°	221.0	152.4	81.5	0.0
42.5°	231.7	156.6	85.8	0.0
40°	242.5	160.9	88.0	0.0
37.5°	253.2	165.2	92.3	0.0
35°	263.9	169.5	94.4	0.0
32.5°	272.5	173.8	96.6	0.0
30°	281.1	178.1	98.7	0.0
27.5°	289.7	180.2	100.9	0.0
25°	296.1	184.5	103.0	0.0
22.5°	302.6	186.7	105.1	0.0
20°	306.9	188.8	107.3	0.0
17.5°	313.3	191.0	109.4	0.0
15°	315.4	193.1	113.7	0.0
12.5°	319.7	195.3	113.7	0.0
10°	321.9	197.4	113.7	0.0
7.5°	326.2	197.4	113.7	0.0
5°	324.0	197.4	113.7	0.0
2.5°	324.0	197.4	113.7	0.0
0°	321.9	197.4	113.7	0.0

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