

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: P628189

Luminaire Tested: **IFLD-S-SA6A-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628189
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

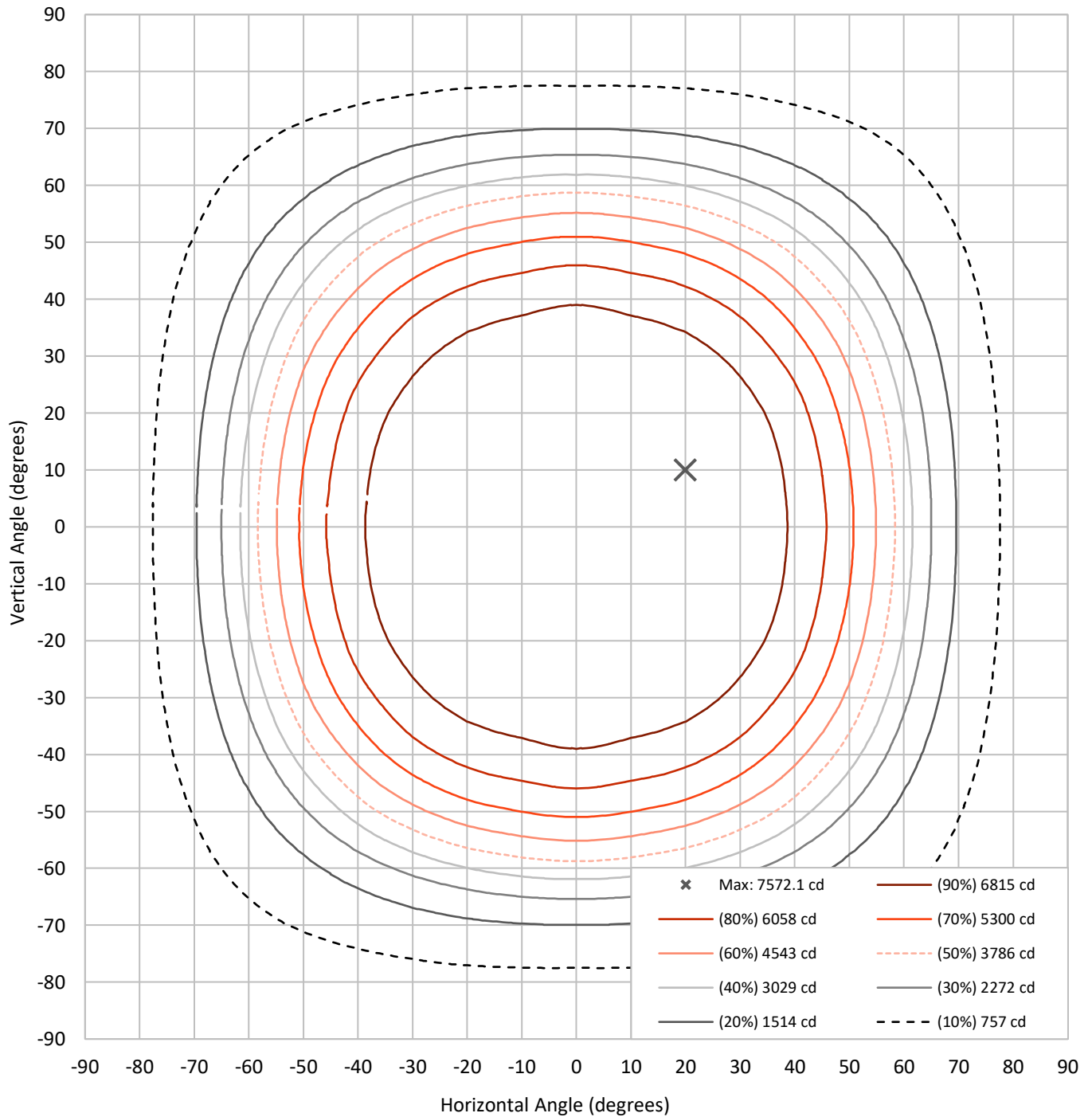
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23230.1 lumens	Max Intensity:	7572.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	122.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14254.5 lumens	Field Lumens:	17088.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 189.6
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



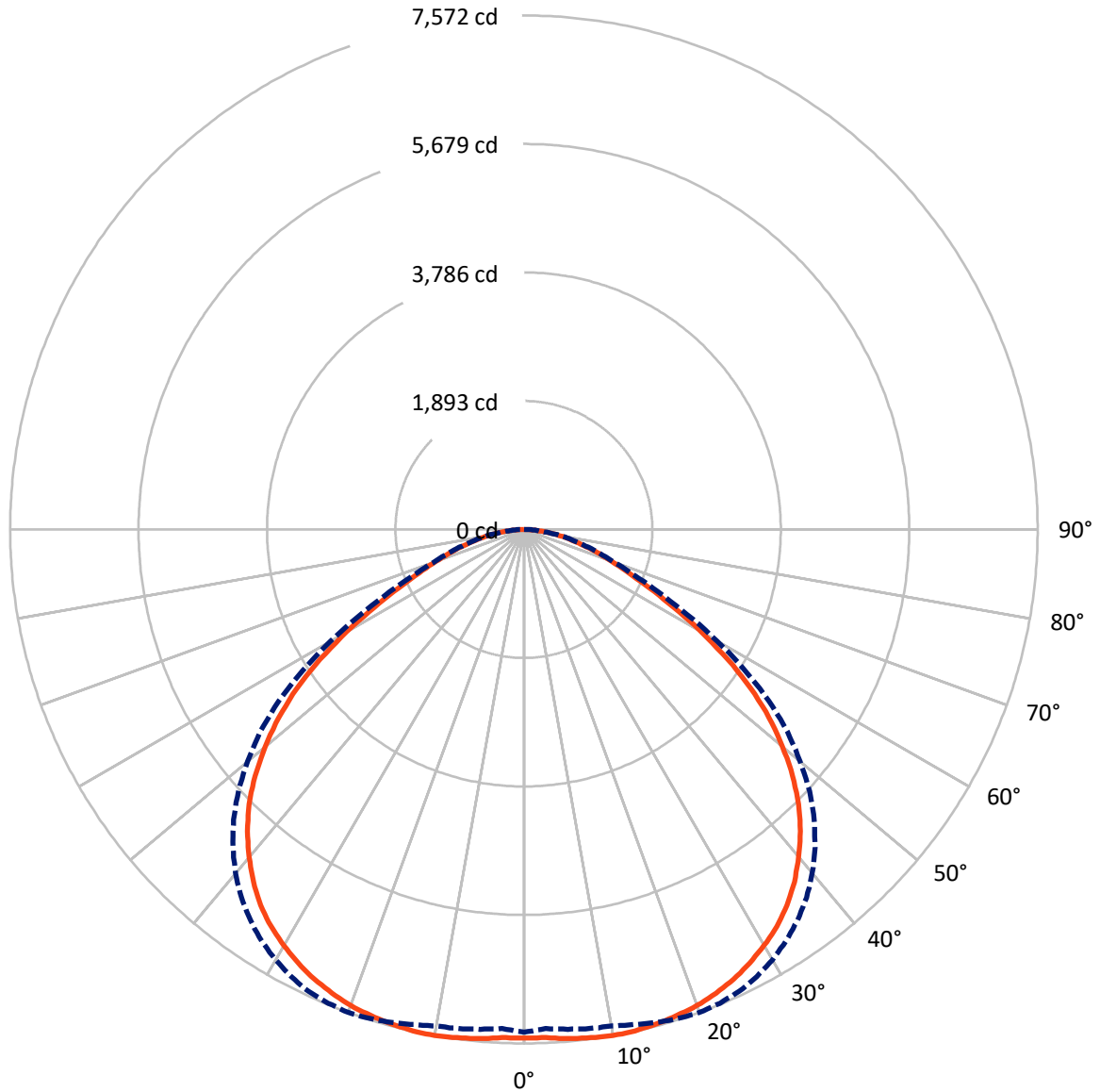
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Iso-Candela Plot



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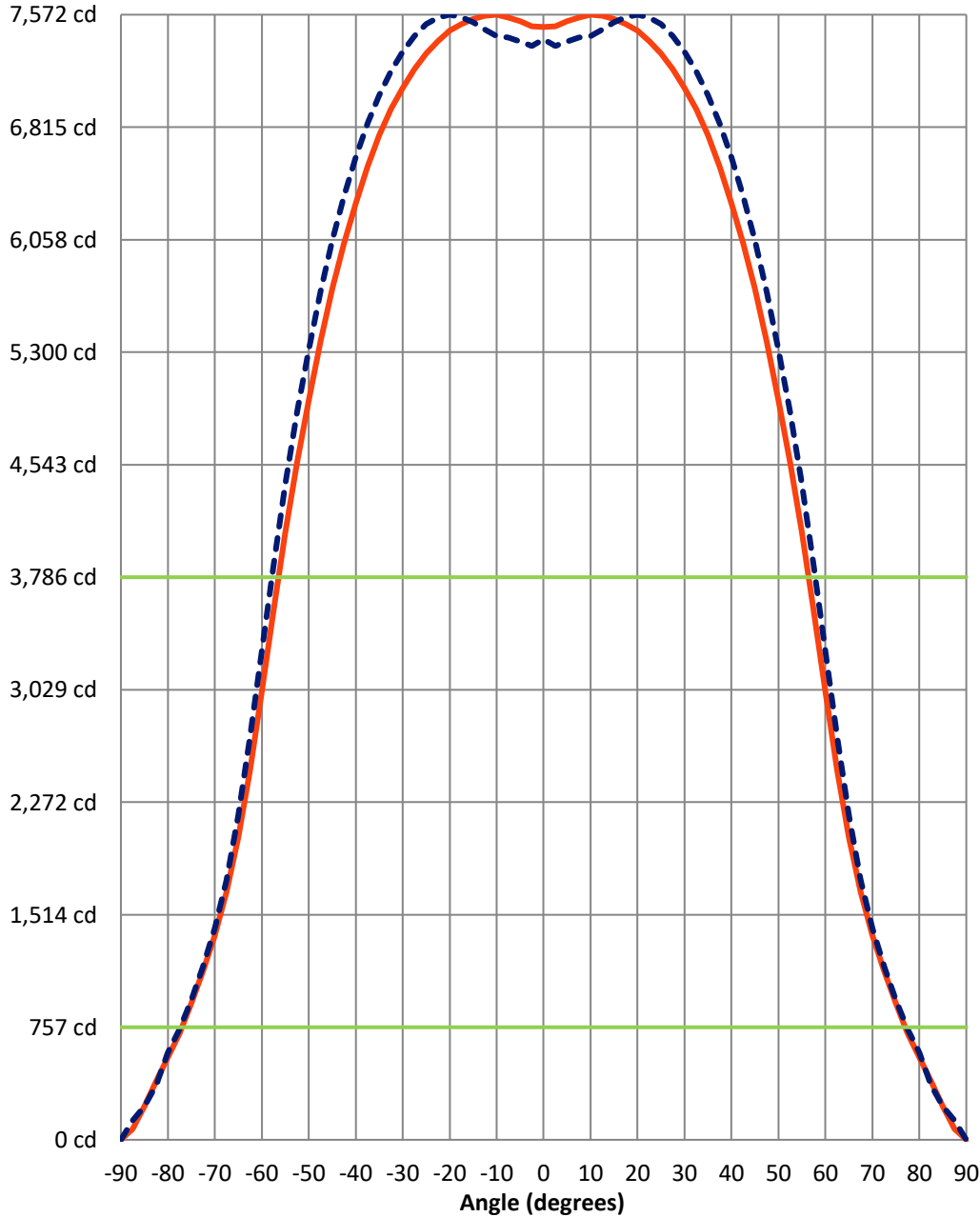
Luminous Intensity Polar Plot



— 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: 14254.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17088.7
 Efficiency: 73.6%

Spill:
 Lumens: 6141.4
 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°	61.1	66.0	68.4	70.9	73.3	75.8	78.2	75.8	73.3	73.3	70.9
85°	163.8	168.6	171.1	188.2	205.3	215.1	227.3	224.9	224.9	222.4	220.0
82.5°	327.5	342.2	354.4	371.5	381.3	396.0	405.7	398.4	393.5	383.7	376.4
80°	581.7	586.6	589.0	591.5	579.3	576.8	571.9	564.6	554.8	542.6	530.4
77.5°	740.6	745.5	750.4	745.5	743.0	740.6	733.3	725.9	716.1	706.4	691.7
75°	980.1	980.1	980.1	972.8	967.9	960.6	948.3	936.1	919.0	899.5	877.5
72.5°	1234.3	1231.9	1229.4	1214.8	1202.5	1187.9	1170.8	1156.1	1136.5	1114.5	1085.2
70°	1500.7	1505.6	1508.1	1488.5	1473.8	1454.3	1432.3	1405.4	1376.1	1344.3	1302.8
67.5°	1867.4	1862.5	1857.6	1830.7	1811.1	1784.3	1752.5	1713.4	1669.4	1620.5	1561.8
65°	2322.0	2329.3	2314.6	2287.8	2251.1	2207.1	2158.2	2102.0	2036.0	1962.7	1879.6
62.5°	2871.9	2884.1	2867.0	2832.8	2786.4	2727.7	2659.3	2578.6	2488.2	2385.5	2282.9
60°	3497.6	3495.2	3463.4	3417.0	3355.9	3282.5	3206.8	3118.8	3016.1	2896.4	2771.7
57.5°	4072.0	4067.1	4028.0	3981.6	3920.5	3842.3	3761.6	3668.7	3561.2	3434.1	3289.9
55°	4587.7	4582.8	4543.7	4494.9	4431.3	4353.1	4279.8	4191.8	4086.7	3952.2	3798.3
52.5°	5044.8	5047.2	5013.0	4959.3	4890.8	4815.0	4744.2	4656.2	4556.0	4421.5	4272.4
50°	5465.2	5462.8	5426.1	5377.2	5313.7	5240.3	5169.5	5081.5	4976.4	4846.8	4702.6
47.5°	5856.3	5851.4	5809.8	5756.1	5690.1	5626.5	5560.5	5482.3	5372.3	5242.8	5098.6
45°	6183.8	6174.0	6132.5	6081.1	6017.6	5961.4	5902.7	5844.0	5726.7	5607.0	5470.1
42.5°	6464.9	6462.4	6420.9	6369.5	6306.0	6257.1	6203.3	6130.0	6032.2	5922.3	5787.8
40°	6733.7	6714.2	6672.6	6623.7	6565.1	6523.5	6469.8	6396.4	6301.1	6193.6	6064.0
37.5°	6934.2	6936.6	6892.6	6838.8	6787.5	6748.4	6699.5	6631.1	6548.0	6442.9	6313.3
35°	7124.8	7112.6	7075.9	7029.5	6983.0	6939.0	6887.7	6829.1	6760.6	6662.8	6540.6
32.5°	7249.5	7266.6	7222.6	7173.7	7146.8	7112.6	7058.8	6997.7	6936.6	6838.8	6728.8
30°	7386.3	7371.7	7337.4	7295.9	7276.3	7254.3	7207.9	7149.2	7078.4	6990.4	6887.7
27.5°	7481.7	7474.3	7432.8	7393.7	7383.9	7364.3	7327.7	7276.3	7205.5	7119.9	7024.6
25°	7523.2	7528.1	7489.0	7467.0	7467.0	7454.8	7425.4	7381.4	7310.6	7232.3	7139.5
22.5°	7542.8	7537.9	7511.0	7506.1	7518.3	7508.5	7496.3	7457.2	7393.7	7330.1	7251.9
20°	7555.0	7520.8	7496.3	7515.9	7530.5	7528.1	7518.3	7493.9	7464.5	7410.8	7342.3
17.5°	7528.1	7506.1	7476.8	7506.1	7537.9	7540.3	7530.5	7515.9	7508.5	7474.3	7413.2
15°	7462.1	7445.0	7449.9	7479.2	7515.9	7528.1	7535.4	7552.5	7542.8	7515.9	7462.1
12.5°	7418.1	7396.1	7418.1	7447.4	7467.0	7474.3	7533.0	7564.8	7564.8	7540.3	7506.1
10°	7405.9	7361.9	7391.2	7418.1	7427.9	7471.9	7520.8	7555.0	7572.1	7552.5	7508.5
7.5°	7381.4	7352.1	7364.3	7376.6	7432.8	7464.5	7491.4	7528.1	7552.5	7550.1	7511.0
5°	7369.2	7332.6	7337.4	7388.8	7427.9	7449.9	7459.7	7491.4	7528.1	7535.4	7506.1
2.5°	7337.4	7320.3	7357.0	7361.9	7391.2	7408.3	7418.1	7447.4	7493.9	7511.0	7498.8
0°	7320.3	7295.9	7271.5	7291.0	7339.9	7376.6	7391.2	7435.2	7489.0	7506.1	7479.2



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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°	68.4	66.0	63.5	61.1	63.5	63.5	63.5	61.1	63.5	61.1	61.1
85°	212.6	202.9	195.5	185.8	176.0	168.6	158.9	149.1	146.7	144.2	139.3
82.5°	366.6	354.4	342.2	327.5	312.9	295.7	278.6	259.1	254.2	249.3	242.0
80°	515.7	498.6	481.5	464.4	449.7	432.6	413.1	391.1	376.4	364.2	349.5
77.5°	672.2	647.7	623.3	593.9	576.8	559.7	540.2	518.2	496.2	476.6	454.6
75°	850.6	823.7	799.2	769.9	738.1	706.4	674.6	645.3	613.5	584.2	554.8
72.5°	1048.6	1009.4	970.3	933.7	894.6	855.5	813.9	774.8	735.7	696.6	655.0
70°	1256.3	1207.4	1158.5	1109.7	1058.3	1007.0	958.1	909.2	860.4	809.0	762.6
67.5°	1500.7	1444.5	1381.0	1312.5	1236.8	1170.8	1107.2	1048.6	989.9	931.2	872.6
65°	1806.3	1728.0	1642.5	1549.6	1461.6	1373.6	1280.8	1192.8	1124.3	1055.9	989.9
62.5°	2182.7	2072.7	1952.9	1833.1	1725.6	1610.7	1503.2	1388.3	1280.8	1183.0	1102.3
60°	2632.4	2483.3	2336.6	2182.7	2033.6	1877.1	1740.3	1598.5	1464.1	1344.3	1227.0
57.5°	3128.6	2955.0	2779.0	2590.8	2388.0	2204.7	2018.9	1833.1	1674.3	1515.4	1383.4
55°	3632.1	3448.7	3250.8	3038.1	2815.7	2581.1	2329.3	2121.6	1904.0	1718.3	1547.2
52.5°	4111.1	3920.5	3715.2	3519.6	3253.2	2984.4	2708.2	2434.4	2180.2	1943.1	1735.4
50°	4538.9	4353.1	4155.1	3927.8	3680.9	3395.0	3087.0	2779.0	2478.4	2199.8	1940.7
47.5°	4929.9	4749.1	4551.1	4323.8	4098.9	3781.2	3470.7	3131.0	2796.1	2476.0	2172.9
45°	5296.5	5113.2	4907.9	4690.4	4431.3	4147.8	3827.6	3485.4	3126.1	2766.8	2417.3
42.5°	5629.0	5445.6	5237.9	5013.0	4756.4	4475.3	4164.9	3820.3	3458.5	3067.5	2683.7
40°	5919.8	5741.4	5541.0	5306.3	5066.8	4771.0	4465.5	4138.0	3764.0	3370.5	2947.7
37.5°	6174.0	6007.8	5809.8	5577.6	5323.4	5059.5	4744.2	4416.6	4079.3	3651.6	3219.0
35°	6398.9	6244.9	6042.0	5822.0	5572.7	5294.1	4998.4	4678.2	4314.0	3913.1	3492.7
32.5°	6594.4	6438.0	6252.2	6032.2	5790.3	5528.7	5225.7	4903.0	4558.4	4150.2	3693.2
30°	6760.6	6609.1	6433.1	6225.3	5993.1	5734.1	5438.3	5113.2	4761.3	4355.5	3903.4
27.5°	6904.8	6760.6	6589.5	6396.4	6174.0	5924.7	5626.5	5299.0	4939.7	4548.6	4096.5
25°	7029.5	6890.2	6731.3	6548.0	6328.0	6083.6	5802.5	5460.3	5101.0	4707.5	4260.2
22.5°	7141.9	7007.5	6848.6	6670.2	6469.8	6225.3	5941.8	5602.1	5237.9	4849.3	4409.3
20°	7242.1	7117.5	6961.0	6777.7	6577.3	6330.4	6049.4	5726.7	5360.1	4978.8	4543.7
17.5°	7322.8	7212.8	7056.4	6863.3	6662.8	6423.3	6149.6	5853.8	5465.2	5088.8	4656.2
15°	7379.0	7271.5	7129.7	6934.2	6738.6	6501.5	6227.8	5922.3	5560.5	5176.8	4749.1
12.5°	7418.1	7303.2	7171.2	6990.4	6794.8	6560.2	6293.8	5993.1	5641.2	5255.0	4829.7
10°	7427.9	7322.8	7190.8	7029.5	6838.8	6611.5	6350.0	6051.8	5707.2	5316.1	4895.7
7.5°	7432.8	7332.6	7212.8	7058.8	6870.6	6650.6	6391.5	6098.2	5756.1	5367.4	4944.6
5°	7430.3	7335.0	7227.5	7078.4	6890.2	6672.6	6418.4	6130.0	5790.3	5401.6	4981.2
2.5°	7423.0	7337.4	7237.2	7093.0	6912.2	6697.1	6445.3	6166.7	5826.9	5431.0	5010.6
0°	7442.5	7369.2	7242.1	7088.1	6917.0	6697.1	6442.9	6171.6	5831.8	5428.5	5008.1



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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°	61.1	58.7	58.7	56.2	53.8	51.3	46.4	44.0	39.1	31.8	24.4
85°	132.0	124.7	117.3	112.4	107.5	102.7	95.3	88.0	78.2	63.5	48.9
82.5°	232.2	217.5	202.9	185.8	171.1	156.4	144.2	132.0	117.3	95.3	73.3
80°	332.4	310.4	288.4	264.0	242.0	217.5	195.5	176.0	156.4	127.1	97.8
77.5°	432.6	403.3	371.5	342.2	310.4	278.6	246.9	220.0	190.6	156.4	122.2
75°	525.5	491.3	462.0	420.4	381.3	339.7	298.2	261.5	224.9	183.3	146.7
72.5°	618.4	574.4	532.8	493.7	449.7	398.4	352.0	305.5	259.1	210.2	166.2
70°	711.3	657.5	606.2	559.7	510.8	459.5	403.3	349.5	293.3	234.6	183.3
67.5°	806.6	745.5	686.8	628.2	571.9	513.3	454.6	393.5	327.5	259.1	202.9
65°	911.7	835.9	765.0	699.0	633.0	569.5	503.5	437.5	364.2	286.0	220.0
62.5°	1016.8	933.7	850.6	767.5	694.1	623.3	552.4	479.1	398.4	315.3	237.1
60°	1129.2	1033.9	938.6	845.7	755.3	677.0	598.8	520.6	435.1	342.2	254.2
57.5°	1253.9	1139.0	1031.4	926.3	823.7	730.8	645.3	562.2	466.8	369.1	273.7
55°	1395.6	1253.9	1126.8	1009.4	897.0	784.6	691.7	606.2	503.5	396.0	295.7
52.5°	1544.7	1381.0	1227.0	1095.0	975.2	848.1	735.7	640.4	540.2	422.8	315.3
50°	1718.3	1510.5	1339.4	1178.1	1043.7	911.7	782.1	679.5	576.8	454.6	334.9
47.5°	1896.7	1666.9	1451.8	1275.9	1117.0	972.8	835.9	713.7	611.0	483.9	354.4
45°	2104.4	1816.0	1578.9	1371.2	1187.9	1036.3	889.7	750.4	640.4	513.3	374.0
42.5°	2304.9	1992.0	1710.9	1476.3	1268.5	1097.4	938.6	789.5	669.7	542.6	391.1
40°	2542.0	2168.0	1838.0	1576.5	1349.2	1156.1	987.5	831.0	696.6	569.5	408.2
37.5°	2769.3	2346.4	1992.0	1686.5	1427.4	1214.8	1036.3	870.1	721.0	596.4	430.2
35°	2994.1	2544.4	2138.7	1789.1	1508.1	1280.8	1085.2	906.8	745.5	618.4	449.7
32.5°	3209.2	2730.2	2287.8	1904.0	1596.1	1341.9	1129.2	941.0	769.9	637.9	469.3
30°	3409.6	2906.1	2434.4	2021.3	1676.7	1398.1	1170.8	975.2	799.2	655.0	488.8
27.5°	3593.0	3077.2	2581.1	2131.3	1752.5	1449.4	1214.8	1007.0	823.7	672.2	505.9
25°	3759.2	3231.2	2715.5	2231.5	1820.9	1505.6	1256.3	1038.8	845.7	686.8	520.6
22.5°	3915.6	3373.0	2837.7	2331.8	1904.0	1561.8	1295.4	1068.1	867.7	701.5	535.3
20°	4052.5	3502.5	2955.0	2432.0	1977.3	1613.2	1329.6	1095.0	887.2	711.3	549.9
17.5°	4162.4	3617.4	3060.1	2520.0	2040.9	1657.2	1359.0	1119.4	904.3	723.5	559.7
15°	4260.2	3715.2	3148.1	2595.7	2097.1	1693.8	1385.9	1139.0	919.0	730.8	571.9
12.5°	4343.3	3798.3	3223.9	2661.7	2146.0	1725.6	1407.9	1153.7	931.2	738.1	579.3
10°	4411.8	3864.3	3287.4	2713.0	2185.1	1750.0	1425.0	1168.3	941.0	745.5	586.6
7.5°	4463.1	3913.1	3333.9	2757.0	2216.9	1767.1	1439.6	1178.1	950.8	750.4	598.8
5°	4502.2	3954.7	3370.5	2786.4	2241.3	1791.6	1456.7	1190.3	960.6	755.3	598.8
2.5°	4531.5	3988.9	3399.9	2810.8	2260.9	1786.7	1456.7	1187.9	960.6	755.3	596.4
0°	4526.6	3991.4	3397.4	2810.8	2260.9	1781.8	1456.7	1185.4	960.6	755.3	596.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.1	12.2	4.9	0.0
85°	36.7	24.4	12.2	0.0
82.5°	53.8	34.2	17.1	0.0
80°	70.9	46.4	22.0	0.0
77.5°	90.4	58.7	29.3	0.0
75°	107.5	68.4	34.2	0.0
72.5°	124.7	80.7	39.1	0.0
70°	139.3	90.4	44.0	0.0
67.5°	154.0	102.7	51.3	0.0
65°	166.2	112.4	56.2	0.0
62.5°	176.0	124.7	61.1	0.0
60°	188.2	134.4	66.0	0.0
57.5°	198.0	141.8	70.9	0.0
55°	207.8	146.7	75.8	0.0
52.5°	217.5	154.0	80.7	0.0
50°	227.3	161.3	85.5	0.0
47.5°	237.1	166.2	88.0	0.0
45°	251.8	173.5	92.9	0.0
42.5°	264.0	178.4	97.8	0.0
40°	276.2	183.3	100.2	0.0
37.5°	288.4	188.2	105.1	0.0
35°	300.6	193.1	107.5	0.0
32.5°	310.4	198.0	110.0	0.0
30°	320.2	202.9	112.4	0.0
27.5°	330.0	205.3	114.9	0.0
25°	337.3	210.2	117.3	0.0
22.5°	344.6	212.6	119.8	0.0
20°	349.5	215.1	122.2	0.0
17.5°	356.9	217.5	124.7	0.0
15°	359.3	220.0	129.5	0.0
12.5°	364.2	222.4	129.5	0.0
10°	366.6	224.9	129.5	0.0
7.5°	371.5	224.9	129.5	0.0
5°	369.1	224.9	129.5	0.0
2.5°	369.1	224.9	129.5	0.0
0°	366.6	224.9	129.5	0.0

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