

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: P628436

Luminaire Tested: **IFLD-L-SA8A-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628436  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22320.3 lumens	Max Intensity:	7275.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	90.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

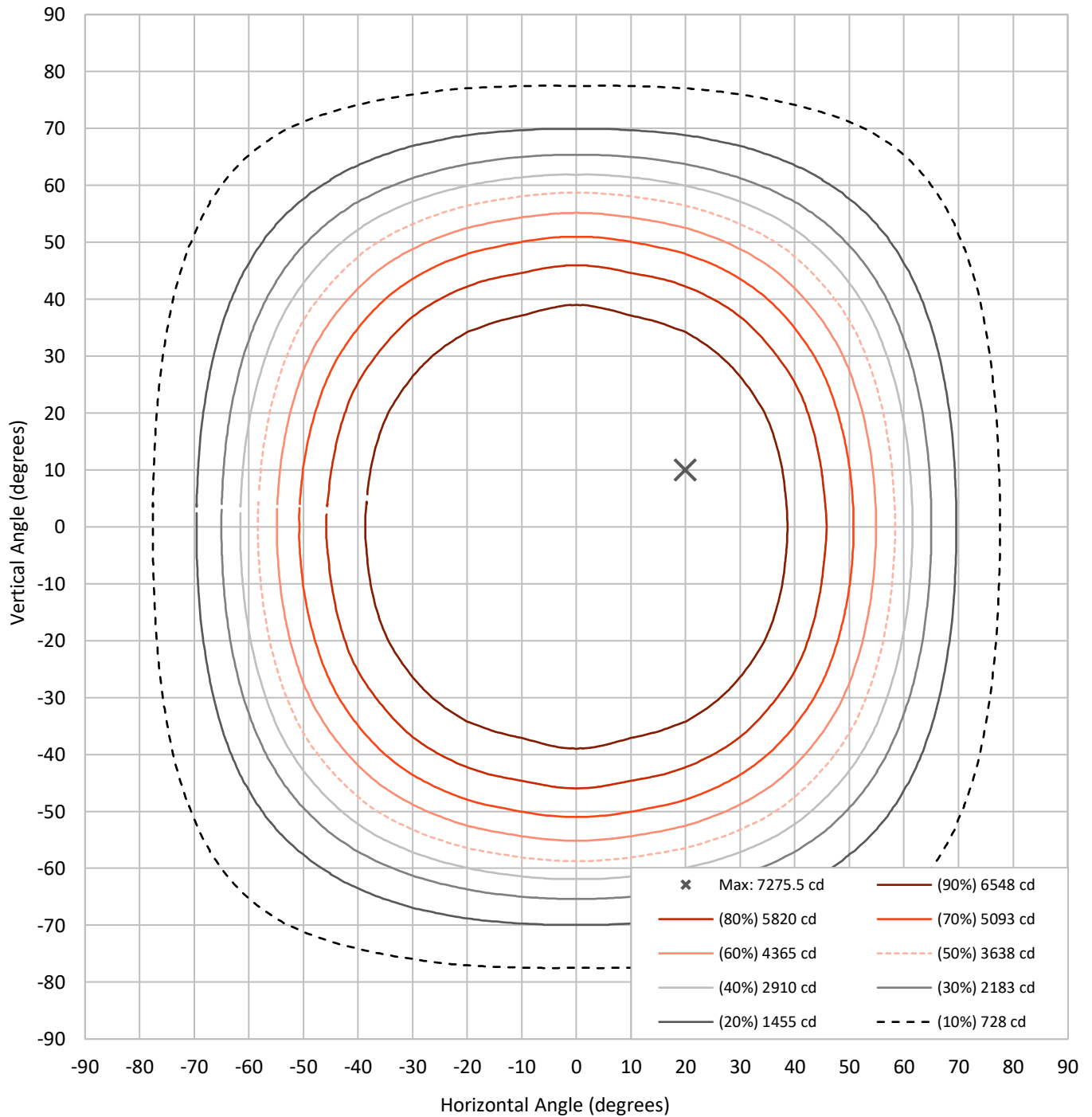
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13696.2 lumens	Field Lumens:	16419.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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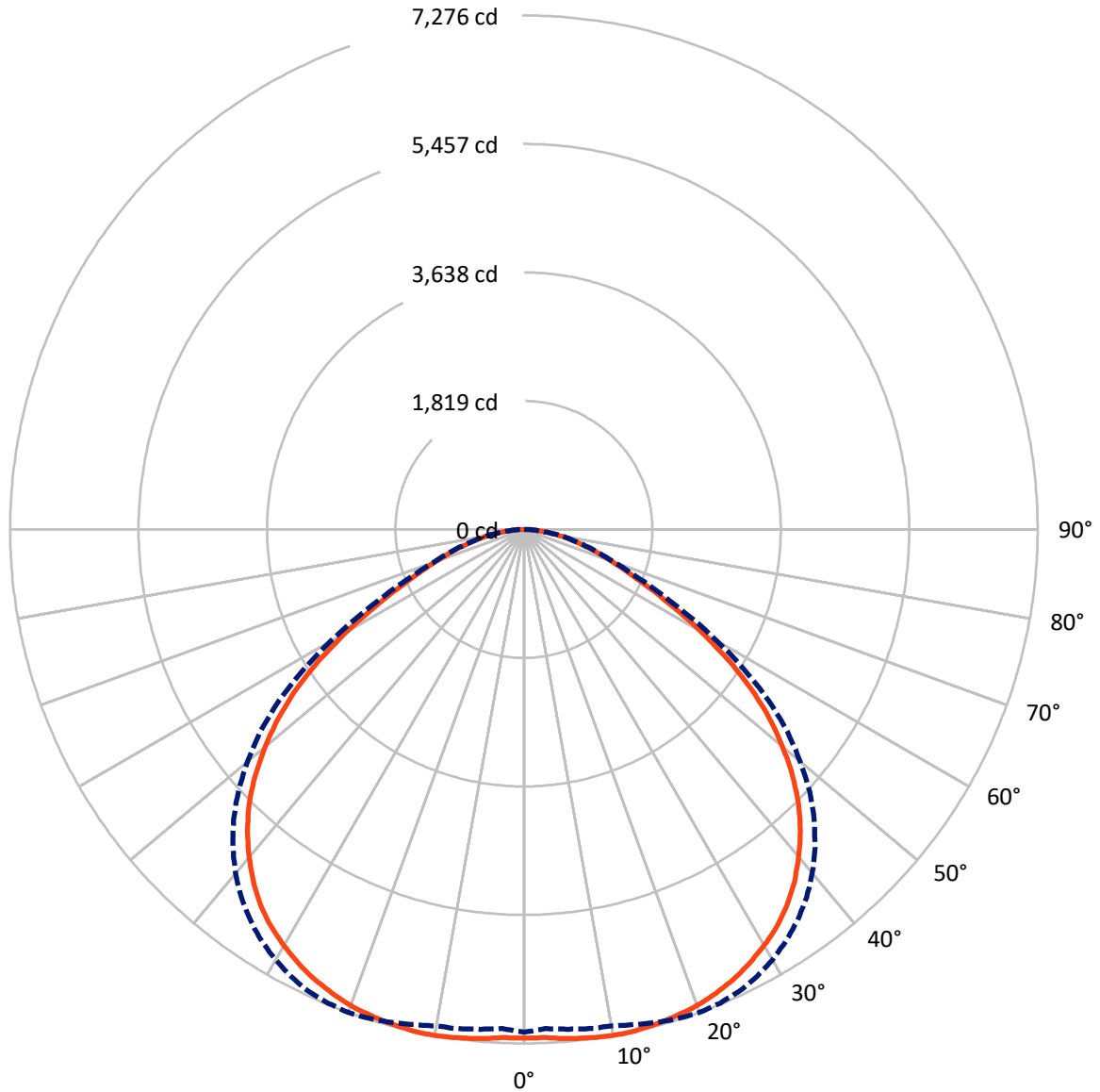
### Iso-Candela Plot





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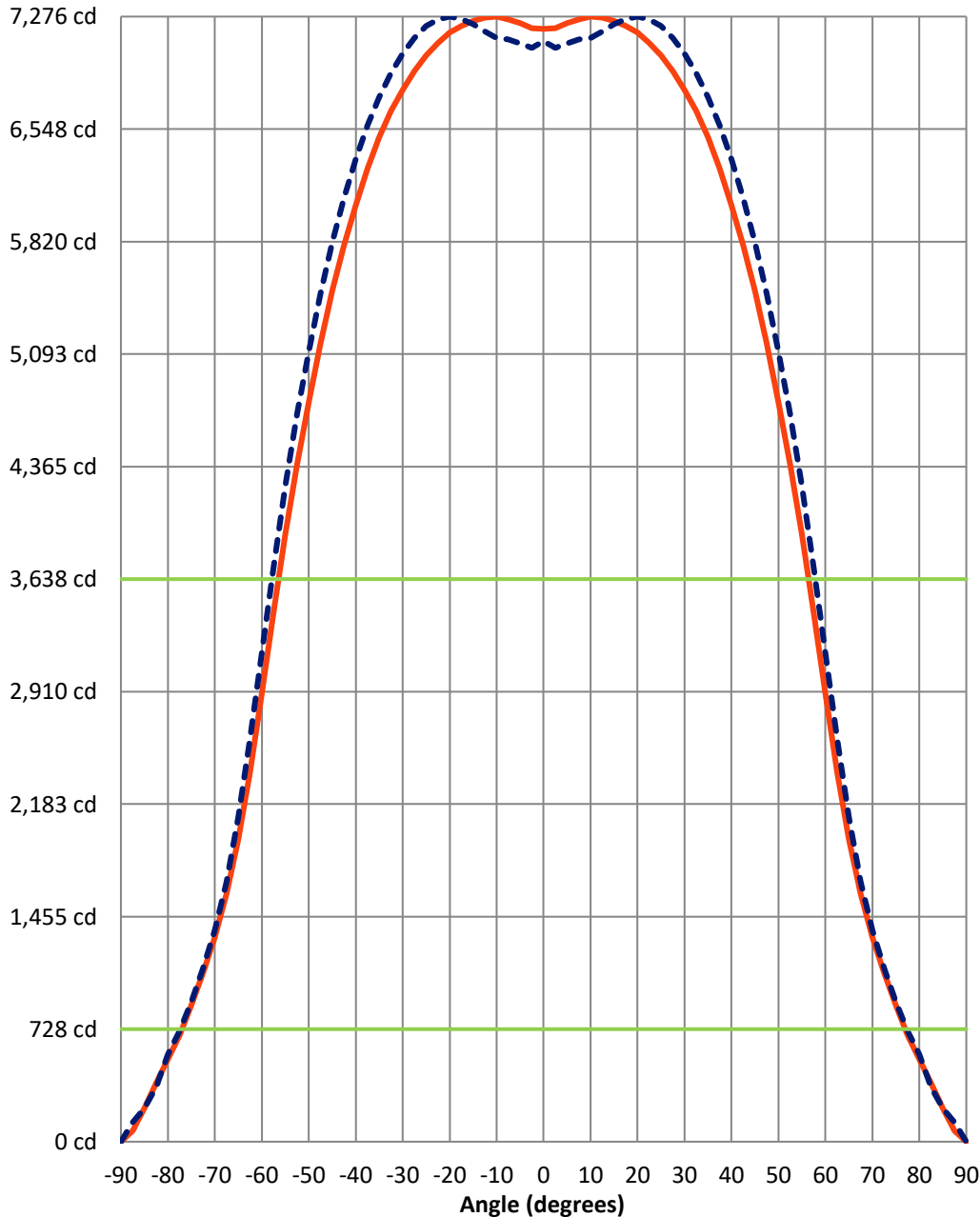
### Luminous Intensity Polar Plot



— 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: 13696.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 16419.4  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5900.9  
 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°	58.7	63.4	65.8	68.1	70.5	72.8	75.2	72.8	70.5	70.5	68.1
85°	157.3	162.0	164.4	180.8	197.3	206.7	218.4	216.1	216.1	213.7	211.4
82.5°	314.7	328.8	340.5	357.0	366.4	380.4	389.8	382.8	378.1	368.7	361.7
80°	558.9	563.6	566.0	568.3	556.6	554.2	549.5	542.5	533.1	521.4	509.6
77.5°	711.6	716.3	721.0	716.3	713.9	711.6	704.5	697.5	688.1	678.7	664.6
75°	941.7	941.7	941.7	934.7	930.0	922.9	911.2	899.5	883.0	864.2	843.1
72.5°	1186.0	1183.6	1181.3	1167.2	1155.4	1141.3	1124.9	1110.8	1092.0	1070.9	1042.7
70°	1442.0	1446.6	1449.0	1430.2	1416.1	1397.3	1376.2	1350.4	1322.2	1291.6	1251.7
67.5°	1794.2	1789.5	1784.8	1759.0	1740.2	1714.4	1683.8	1646.3	1604.0	1557.0	1500.7
65°	2231.0	2238.1	2224.0	2198.2	2162.9	2120.7	2073.7	2019.7	1956.3	1885.8	1806.0
62.5°	2759.4	2771.2	2754.7	2721.9	2677.2	2620.9	2555.1	2477.6	2390.7	2292.1	2193.5
60°	3360.6	3358.3	3327.8	3283.1	3224.4	3154.0	3081.2	2996.6	2898.0	2782.9	2663.1
57.5°	3912.5	3907.8	3870.3	3825.6	3766.9	3691.8	3614.3	3525.0	3421.7	3299.6	3161.0
55°	4408.0	4403.4	4365.8	4318.8	4257.7	4182.6	4112.1	4027.6	3926.6	3797.5	3649.5
52.5°	4847.2	4849.6	4816.7	4765.0	4699.3	4626.5	4558.3	4473.8	4377.5	4248.4	4105.1
50°	5251.1	5248.8	5213.6	5166.6	5105.5	5035.1	4967.0	4882.4	4781.5	4657.0	4518.4
47.5°	5626.9	5622.2	5582.3	5530.6	5467.2	5406.1	5342.7	5267.6	5161.9	5037.4	4898.9
45°	5941.6	5932.2	5892.3	5843.0	5781.9	5727.9	5671.5	5615.2	5502.4	5387.4	5255.8
42.5°	6211.7	6209.3	6169.4	6120.1	6059.0	6012.0	5960.4	5889.9	5796.0	5690.3	5561.1
40°	6470.0	6451.2	6411.3	6364.3	6307.9	6268.0	6216.4	6145.9	6054.3	5951.0	5826.5
37.5°	6662.6	6664.9	6622.6	6571.0	6521.7	6484.1	6437.1	6371.4	6291.5	6190.5	6066.1
35°	6845.7	6834.0	6798.8	6754.2	6709.5	6667.3	6617.9	6561.6	6495.8	6401.9	6284.5
32.5°	6965.5	6982.0	6939.7	6892.7	6866.9	6834.0	6782.3	6723.6	6664.9	6571.0	6465.3
30°	7097.0	7082.9	7050.1	7010.1	6991.3	6970.2	6925.6	6869.2	6801.1	6716.6	6617.9
27.5°	7188.6	7181.6	7141.6	7104.1	7094.7	7075.9	7040.7	6991.3	6923.2	6841.0	6749.5
25°	7228.5	7233.2	7195.7	7174.5	7174.5	7162.8	7134.6	7092.3	7024.2	6949.1	6859.8
22.5°	7247.3	7242.6	7216.8	7212.1	7223.8	7214.5	7202.7	7165.1	7104.1	7043.0	6967.9
20°	7259.1	7226.2	7202.7	7221.5	7235.6	7233.2	7223.8	7200.4	7172.2	7120.5	7054.8
17.5°	7233.2	7212.1	7183.9	7212.1	7242.6	7245.0	7235.6	7221.5	7214.5	7181.6	7122.9
15°	7169.8	7153.4	7158.1	7186.3	7221.5	7233.2	7240.3	7256.7	7247.3	7221.5	7169.8
12.5°	7127.6	7106.4	7127.6	7155.7	7174.5	7181.6	7237.9	7268.5	7268.5	7245.0	7212.1
10°	7115.8	7073.5	7101.7	7127.6	7137.0	7179.2	7226.2	7259.1	7275.5	7256.7	7214.5
7.5°	7092.3	7064.1	7075.9	7087.6	7141.6	7172.2	7198.0	7233.2	7256.7	7254.4	7216.8
5°	7080.6	7045.4	7050.1	7099.4	7137.0	7158.1	7167.5	7198.0	7233.2	7240.3	7212.1
2.5°	7050.1	7033.6	7068.8	7073.5	7101.7	7118.2	7127.6	7155.7	7200.4	7216.8	7205.1
0°	7033.6	7010.1	6986.7	7005.4	7052.4	7087.6	7101.7	7144.0	7195.7	7212.1	7186.3



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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°	65.8	63.4	61.1	58.7	61.1	61.1	61.1	58.7	61.1	58.7	58.7
85°	204.3	194.9	187.9	178.5	169.1	162.0	152.6	143.3	140.9	138.6	133.9
82.5°	352.3	340.5	328.8	314.7	300.6	284.2	267.7	248.9	244.2	239.5	232.5
80°	495.5	479.1	462.6	446.2	432.1	415.7	396.9	375.8	361.7	349.9	335.8
77.5°	645.8	622.3	598.9	570.7	554.2	537.8	519.0	497.9	476.7	457.9	436.8
75°	817.3	791.4	767.9	739.8	709.2	678.7	648.2	620.0	589.5	561.3	533.1
72.5°	1007.5	969.9	932.3	897.1	859.5	822.0	782.0	744.5	706.9	669.3	629.4
70°	1207.1	1160.1	1113.2	1066.2	1016.9	967.6	920.6	873.6	826.7	777.3	732.7
67.5°	1442.0	1387.9	1326.9	1261.1	1188.3	1124.9	1063.8	1007.5	951.1	894.8	838.4
65°	1735.5	1660.4	1578.2	1488.9	1404.4	1319.8	1230.6	1146.0	1080.3	1014.5	951.1
62.5°	2097.2	1991.5	1876.4	1761.3	1658.0	1547.6	1444.3	1333.9	1230.6	1136.7	1059.2
60°	2529.3	2386.0	2245.1	2097.2	1953.9	1803.6	1672.1	1535.9	1406.7	1291.6	1178.9
57.5°	3006.0	2839.3	2670.2	2489.4	2294.4	2118.3	1939.8	1761.3	1608.7	1456.0	1329.2
55°	3489.8	3313.7	3123.4	2919.1	2705.4	2480.0	2238.1	2038.5	1829.4	1651.0	1486.6
52.5°	3950.1	3766.9	3569.7	3381.8	3125.8	2867.5	2602.1	2339.1	2094.8	1867.0	1667.4
50°	4361.1	4182.6	3992.4	3774.0	3536.8	3262.0	2966.1	2670.2	2381.3	2113.6	1864.7
47.5°	4736.8	4563.0	4372.8	4154.4	3938.4	3633.1	3334.8	3008.4	2686.6	2379.0	2087.8
45°	5089.1	4913.0	4715.7	4506.7	4257.7	3985.3	3677.7	3348.9	3003.7	2658.5	2322.6
42.5°	5408.5	5232.4	5032.7	4816.7	4570.1	4300.0	4001.8	3670.6	3323.1	2947.3	2578.6
40°	5688.0	5516.5	5323.9	5098.5	4868.3	4584.2	4290.6	3975.9	3616.6	3238.5	2832.2
37.5°	5932.2	5772.5	5582.3	5359.2	5114.9	4861.3	4558.3	4243.7	3919.6	3508.6	3092.9
35°	6148.3	6000.3	5805.4	5594.0	5354.5	5086.8	4802.6	4494.9	4145.0	3759.9	3355.9
32.5°	6336.1	6185.8	6007.3	5796.0	5563.5	5312.2	5021.0	4711.0	4379.9	3987.7	3548.5
30°	6495.8	6350.2	6181.1	5981.5	5758.4	5509.5	5225.3	4913.0	4574.8	4184.9	3750.5
27.5°	6634.4	6495.8	6331.4	6145.9	5932.2	5692.7	5406.1	5091.4	4746.2	4370.5	3936.0
25°	6754.2	6620.3	6467.6	6291.5	6080.1	5845.3	5575.2	5246.4	4901.2	4523.1	4093.4
22.5°	6862.2	6733.0	6580.4	6408.9	6216.4	5981.5	5709.1	5382.7	5032.7	4659.3	4236.6
20°	6958.5	6838.7	6688.4	6512.3	6319.7	6082.5	5812.4	5502.4	5150.2	4783.8	4365.8
17.5°	7036.0	6930.3	6780.0	6594.5	6401.9	6171.7	5908.7	5624.5	5251.1	4889.5	4473.8
15°	7090.0	6986.7	6850.4	6662.6	6474.7	6246.9	5983.9	5690.3	5342.7	4974.0	4563.0
12.5°	7127.6	7017.2	6890.4	6716.6	6528.7	6303.3	6047.3	5758.4	5420.2	5049.2	4640.5
10°	7137.0	7036.0	6909.2	6754.2	6571.0	6352.6	6101.3	5814.8	5483.6	5107.9	4704.0
7.5°	7141.6	7045.4	6930.3	6782.3	6601.5	6390.1	6141.2	5859.4	5530.6	5157.2	4750.9
5°	7139.3	7047.7	6944.4	6801.1	6620.3	6411.3	6167.0	5889.9	5563.5	5190.1	4786.1
2.5°	7132.3	7050.1	6953.8	6815.2	6641.4	6434.8	6192.9	5925.1	5598.7	5218.3	4814.3
0°	7151.0	7080.6	6958.5	6810.5	6646.1	6434.8	6190.5	5929.8	5603.4	5215.9	4812.0





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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°	58.7	56.4	56.4	54.0	51.7	49.3	44.6	42.3	37.6	30.5	23.5
85°	126.8	119.8	112.7	108.0	103.3	98.6	91.6	84.5	75.2	61.1	47.0
82.5°	223.1	209.0	194.9	178.5	164.4	150.3	138.6	126.8	112.7	91.6	70.5
80°	319.4	298.3	277.1	253.6	232.5	209.0	187.9	169.1	150.3	122.1	93.9
77.5°	415.7	387.5	357.0	328.8	298.3	267.7	237.2	211.4	183.2	150.3	117.4
75°	504.9	472.0	443.9	403.9	366.4	326.4	286.5	251.3	216.1	176.1	140.9
72.5°	594.2	551.9	512.0	474.4	432.1	382.8	338.2	293.6	248.9	202.0	159.7
70°	683.4	631.7	582.4	537.8	490.8	441.5	387.5	335.8	281.8	225.5	176.1
67.5°	775.0	716.3	659.9	603.6	549.5	493.2	436.8	378.1	314.7	248.9	194.9
65°	876.0	803.2	735.1	671.7	608.2	547.2	483.8	420.4	349.9	274.8	211.4
62.5°	977.0	897.1	817.3	737.4	667.0	598.9	530.8	460.3	382.8	303.0	227.8
60°	1085.0	993.4	901.8	812.6	725.7	650.5	575.4	500.2	418.0	328.8	244.2
57.5°	1204.8	1094.4	991.0	890.1	791.4	702.2	620.0	540.1	448.6	354.6	263.0
55°	1341.0	1204.8	1082.6	969.9	861.9	753.9	664.6	582.4	483.8	380.4	284.2
52.5°	1484.2	1326.9	1178.9	1052.1	937.0	814.9	706.9	615.3	519.0	406.3	303.0
50°	1651.0	1451.3	1287.0	1132.0	1002.8	876.0	751.5	652.9	554.2	436.8	321.7
47.5°	1822.4	1601.6	1395.0	1225.9	1073.2	934.7	803.2	685.7	587.1	465.0	340.5
45°	2022.0	1744.9	1517.1	1317.5	1141.3	995.7	854.8	721.0	615.3	493.2	359.3
42.5°	2214.6	1914.0	1643.9	1418.5	1218.8	1054.5	901.8	758.6	643.5	521.4	375.8
40°	2442.4	2083.1	1766.0	1514.8	1296.3	1110.8	948.8	798.5	669.3	547.2	392.2
37.5°	2660.8	2254.5	1914.0	1620.4	1371.5	1167.2	995.7	836.0	692.8	573.0	413.3
35°	2876.9	2444.7	2054.9	1719.1	1449.0	1230.6	1042.7	871.3	716.3	594.2	432.1
32.5°	3083.5	2623.2	2198.2	1829.4	1533.5	1289.3	1085.0	904.2	739.8	612.9	450.9
30°	3276.1	2792.3	2339.1	1942.2	1611.0	1343.3	1124.9	937.0	767.9	629.4	469.7
27.5°	3452.2	2956.7	2480.0	2047.9	1683.8	1392.6	1167.2	967.6	791.4	645.8	486.1
25°	3611.9	3104.7	2609.1	2144.1	1749.6	1446.6	1207.1	998.1	812.6	659.9	500.2
22.5°	3762.2	3240.9	2726.6	2240.4	1829.4	1500.7	1244.7	1026.3	833.7	674.0	514.3
20°	3893.7	3365.3	2839.3	2336.7	1899.9	1550.0	1277.6	1052.1	852.5	683.4	528.4
17.5°	3999.4	3475.7	2940.3	2421.3	1961.0	1592.3	1305.7	1075.6	868.9	695.1	537.8
15°	4093.4	3569.7	3024.8	2494.1	2015.0	1627.5	1331.6	1094.4	883.0	702.2	549.5
12.5°	4173.2	3649.5	3097.6	2557.5	2061.9	1658.0	1352.7	1108.5	894.8	709.2	556.6
10°	4239.0	3712.9	3158.7	2606.8	2099.5	1681.5	1369.1	1122.6	904.2	716.3	563.6
7.5°	4288.3	3759.9	3203.3	2649.1	2130.0	1697.9	1383.2	1132.0	913.5	721.0	575.4
5°	4325.9	3799.8	3238.5	2677.2	2153.5	1721.4	1399.7	1143.7	922.9	725.7	575.4
2.5°	4354.0	3832.7	3266.7	2700.7	2172.3	1716.7	1399.7	1141.3	922.9	725.7	573.0
0°	4349.3	3835.0	3264.4	2700.7	2172.3	1712.0	1399.7	1139.0	922.9	725.7	573.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.4	11.7	4.7	0.0
85°	35.2	23.5	11.7	0.0
82.5°	51.7	32.9	16.4	0.0
80°	68.1	44.6	21.1	0.0
77.5°	86.9	56.4	28.2	0.0
75°	103.3	65.8	32.9	0.0
72.5°	119.8	77.5	37.6	0.0
70°	133.9	86.9	42.3	0.0
67.5°	148.0	98.6	49.3	0.0
65°	159.7	108.0	54.0	0.0
62.5°	169.1	119.8	58.7	0.0
60°	180.8	129.2	63.4	0.0
57.5°	190.2	136.2	68.1	0.0
55°	199.6	140.9	72.8	0.0
52.5°	209.0	148.0	77.5	0.0
50°	218.4	155.0	82.2	0.0
47.5°	227.8	159.7	84.5	0.0
45°	241.9	166.7	89.2	0.0
42.5°	253.6	171.4	93.9	0.0
40°	265.4	176.1	96.3	0.0
37.5°	277.1	180.8	101.0	0.0
35°	288.9	185.5	103.3	0.0
32.5°	298.3	190.2	105.7	0.0
30°	307.6	194.9	108.0	0.0
27.5°	317.0	197.3	110.4	0.0
25°	324.1	202.0	112.7	0.0
22.5°	331.1	204.3	115.1	0.0
20°	335.8	206.7	117.4	0.0
17.5°	342.9	209.0	119.8	0.0
15°	345.2	211.4	124.5	0.0
12.5°	349.9	213.7	124.5	0.0
10°	352.3	216.1	124.5	0.0
7.5°	357.0	216.1	124.5	0.0
5°	354.6	216.1	124.5	0.0
2.5°	354.6	216.1	124.5	0.0
0°	352.3	216.1	124.5	0.0

(END OF REPORT)