

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: P628496

Luminaire Tested: **IFLD-L-SA8C-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628496
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34622.2 lumens	Max Intensity:	11285.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	82.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

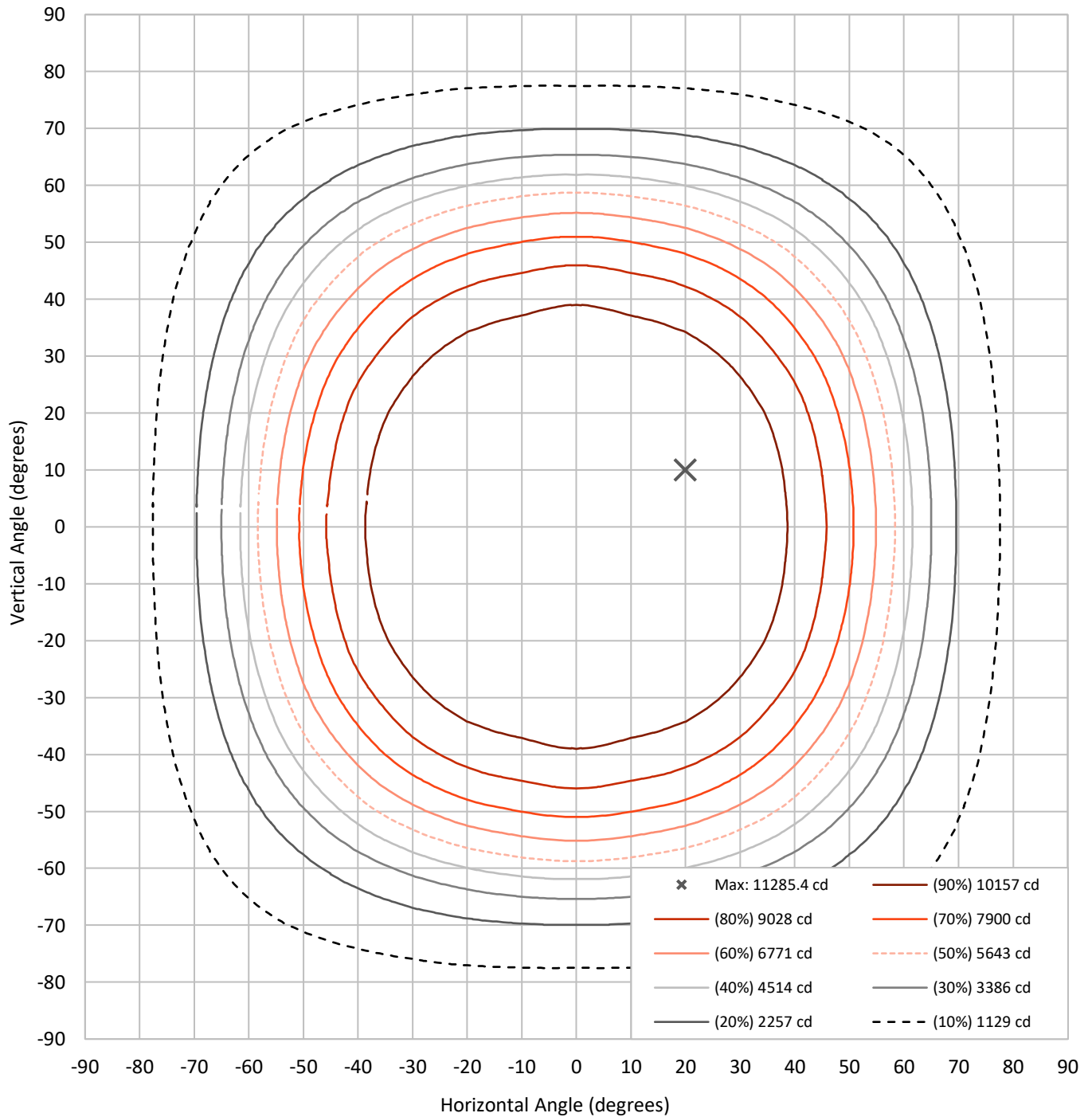
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21244.9 lumens	Field Lumens:	25469 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3
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



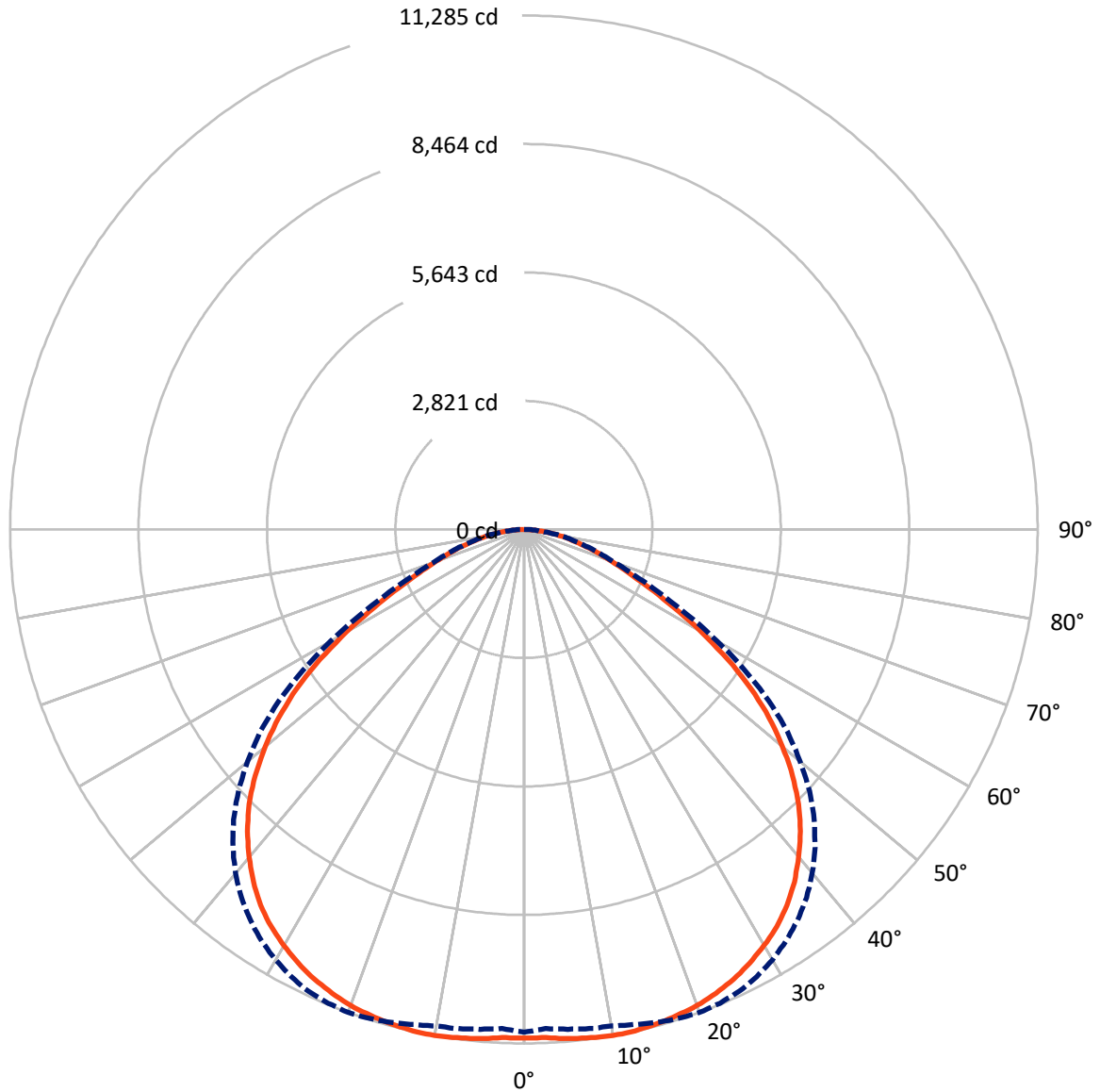
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Iso-Candela Plot



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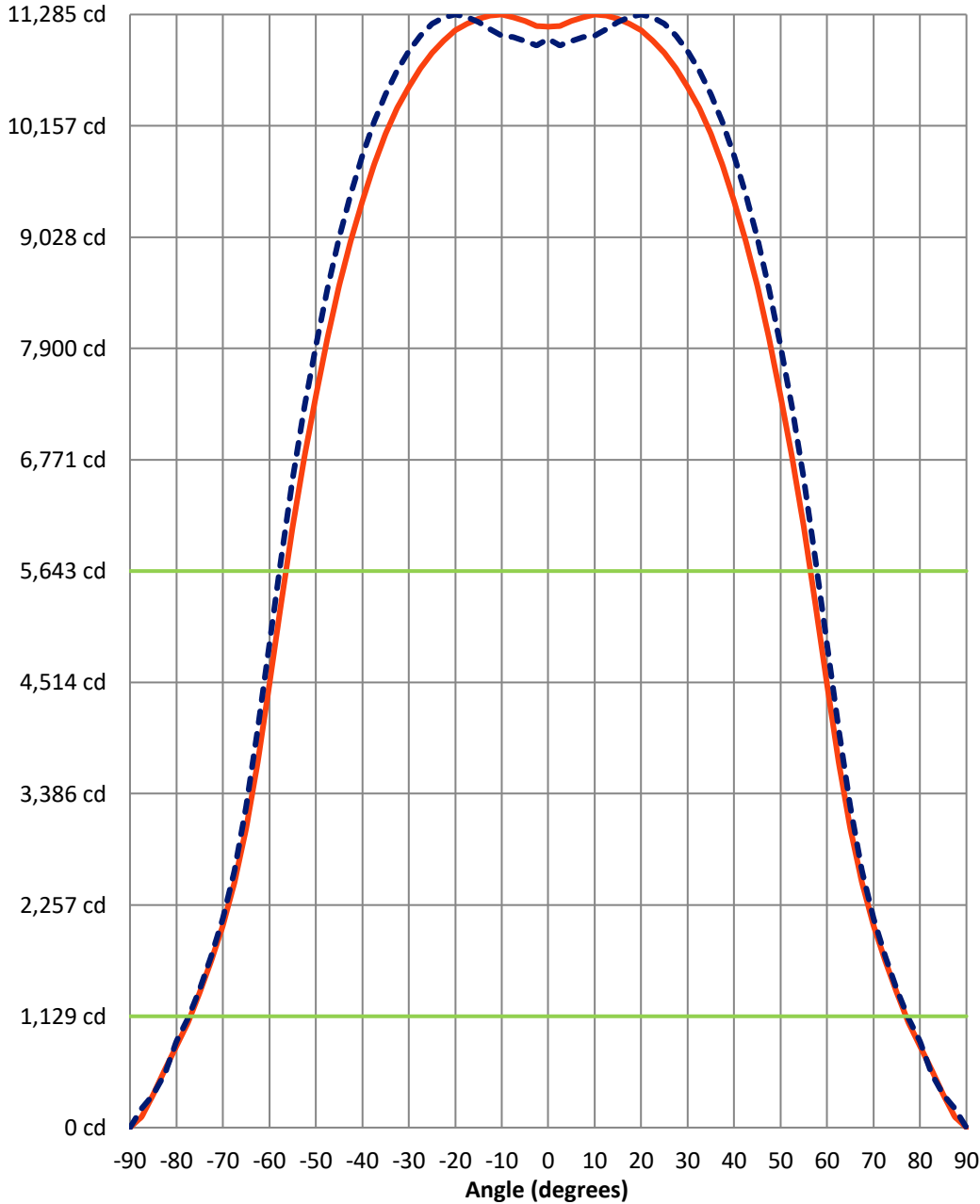
Luminous Intensity Polar Plot



— 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: 21244.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 25469
 Efficiency: 73.6%

Spill:
 Lumens: 9153.2
 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°	91.1	98.4	102.0	105.6	109.3	112.9	116.6	112.9	109.3	109.3	105.6
85°	244.1	251.4	255.0	280.5	306.0	320.6	338.8	335.1	335.1	331.5	327.9
82.5°	488.1	510.0	528.2	553.7	568.3	590.1	604.7	593.8	586.5	571.9	561.0
80°	867.0	874.3	877.9	881.6	863.3	859.7	852.4	841.5	826.9	808.7	790.5
77.5°	1103.8	1111.1	1118.3	1111.1	1107.4	1103.8	1092.8	1081.9	1067.3	1052.8	1030.9
75°	1460.8	1460.8	1460.8	1449.8	1442.6	1431.6	1413.4	1395.2	1369.7	1340.6	1307.8
72.5°	1839.6	1836.0	1832.3	1810.5	1792.3	1770.4	1744.9	1723.1	1693.9	1661.1	1617.4
70°	2236.7	2244.0	2247.6	2218.5	2196.6	2167.5	2134.7	2094.6	2050.9	2003.5	1941.6
67.5°	2783.1	2775.8	2768.5	2728.5	2699.3	2659.3	2611.9	2553.6	2488.0	2415.2	2327.8
65°	3460.7	3471.6	3449.7	3409.7	3355.0	3289.5	3216.6	3132.8	3034.5	2925.2	2801.3
62.5°	4280.3	4298.5	4273.0	4222.0	4152.8	4065.4	3963.4	3843.2	3708.4	3555.4	3402.4
60°	5212.9	5209.2	5161.9	5092.7	5001.6	4892.3	4779.4	4648.2	4495.2	4316.7	4131.0
57.5°	6068.9	6061.6	6003.4	5934.1	5843.1	5726.5	5606.3	5467.9	5307.6	5118.2	4903.2
55°	6837.6	6830.3	6772.0	6699.1	6604.4	6487.9	6378.6	6247.4	6090.8	5890.4	5660.9
52.5°	7518.8	7522.4	7471.4	7391.3	7289.3	7176.4	7070.7	6939.6	6790.2	6589.9	6367.6
50°	8145.3	8141.7	8087.1	8014.2	7919.5	7810.2	7704.6	7573.4	7416.8	7223.7	7008.8
47.5°	8728.2	8720.9	8659.0	8578.8	8480.5	8385.8	8287.4	8170.8	8006.9	7813.8	7598.9
45°	9216.3	9201.8	9139.8	9063.3	8968.6	8884.8	8797.4	8710.0	8535.1	8356.6	8152.6
42.5°	9635.3	9631.6	9569.7	9493.2	9398.5	9325.6	9245.5	9136.2	8990.5	8826.5	8626.2
40°	10036.0	10006.8	9944.9	9872.0	9784.6	9722.7	9642.5	9533.3	9391.2	9230.9	9037.8
37.5°	10334.7	10338.3	10272.7	10192.6	10116.1	10057.8	9985.0	9883.0	9759.1	9602.5	9409.4
35°	10618.8	10600.6	10546.0	10476.7	10407.5	10342.0	10265.5	10178.0	10076.0	9930.3	9748.2
32.5°	10804.6	10830.1	10764.5	10691.7	10651.6	10600.6	10520.5	10429.4	10338.3	10192.6	10028.7
30°	11008.6	10986.7	10935.7	10873.8	10844.7	10811.9	10742.7	10655.2	10549.6	10418.5	10265.5
27.5°	11150.7	11139.7	11077.8	11019.5	11005.0	10975.8	10921.2	10844.7	10739.0	10611.5	10469.5
25°	11212.6	11219.9	11161.6	11128.8	11128.8	11110.6	11066.9	11001.3	10895.7	10779.1	10640.7
22.5°	11241.7	11234.4	11194.4	11187.1	11205.3	11190.7	11172.5	11114.2	11019.5	10924.8	10808.2
20°	11259.9	11208.9	11172.5	11201.7	11223.5	11219.9	11205.3	11168.9	11125.2	11045.0	10943.0
17.5°	11219.9	11187.1	11143.4	11187.1	11234.4	11238.1	11223.5	11201.7	11190.7	11139.7	11048.7
15°	11121.5	11096.0	11103.3	11147.0	11201.7	11219.9	11230.8	11256.3	11241.7	11201.7	11121.5
12.5°	11056.0	11023.2	11056.0	11099.7	11128.8	11139.7	11227.2	11274.5	11274.5	11238.1	11187.1
10°	11037.7	10972.2	11015.9	11056.0	11070.5	11136.1	11208.9	11259.9	11285.4	11256.3	11190.7
7.5°	11001.3	10957.6	10975.8	10994.0	11077.8	11125.2	11165.2	11219.9	11256.3	11252.7	11194.4
5°	10983.1	10928.5	10935.7	11012.2	11070.5	11103.3	11117.9	11165.2	11219.9	11230.8	11187.1
2.5°	10935.7	10910.2	10964.9	10972.2	11015.9	11041.4	11056.0	11099.7	11168.9	11194.4	11176.2
0°	10910.2	10873.8	10837.4	10866.5	10939.4	10994.0	11015.9	11081.5	11161.6	11187.1	11147.0



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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°	102.0	98.4	94.7	91.1	94.7	94.7	94.7	91.1	94.7	91.1	91.1
85°	316.9	302.4	291.4	276.9	262.3	251.4	236.8	222.2	218.6	214.9	207.6
82.5°	546.4	528.2	510.0	488.1	466.3	440.8	415.3	386.1	378.9	371.6	360.6
80°	768.6	743.1	717.6	692.1	670.3	644.8	615.6	582.9	561.0	542.8	520.9
77.5°	1001.8	965.3	928.9	885.2	859.7	834.2	805.1	772.3	739.5	710.3	677.6
75°	1267.7	1227.6	1191.2	1147.5	1100.1	1052.8	1005.4	961.7	914.3	870.6	826.9
72.5°	1562.8	1504.5	1446.2	1391.6	1333.3	1275.0	1213.1	1154.8	1096.5	1038.2	976.3
70°	1872.4	1799.6	1726.7	1653.8	1577.3	1500.8	1428.0	1355.1	1282.3	1205.8	1136.6
67.5°	2236.7	2152.9	2058.2	1956.2	1843.3	1744.9	1650.2	1562.8	1475.3	1387.9	1300.5
65°	2692.0	2575.5	2448.0	2309.5	2178.4	2047.3	1908.8	1777.7	1675.7	1573.7	1475.3
62.5°	3253.0	3089.1	2910.6	2732.1	2571.8	2400.6	2240.3	2069.1	1908.8	1763.1	1642.9
60°	3923.3	3701.1	3482.5	3253.0	3030.8	2797.7	2593.7	2382.4	2182.0	2003.5	1828.7
57.5°	4662.8	4404.2	4141.9	3861.4	3559.0	3285.8	3009.0	2732.1	2495.3	2258.5	2061.8
55°	5413.2	5140.0	4844.9	4528.0	4196.5	3846.8	3471.6	3162.0	2837.8	2560.9	2305.9
52.5°	6127.2	5843.1	5537.1	5245.7	4848.6	4447.9	4036.2	3628.2	3249.4	2896.0	2586.4
50°	6764.7	6487.9	6192.8	5854.0	5486.1	5059.9	4600.9	4141.9	3693.8	3278.5	2892.4
47.5°	7347.6	7078.0	6782.9	6444.1	6109.0	5635.4	5172.8	4666.4	4167.4	3690.2	3238.5
45°	7894.0	7620.8	7314.8	6990.6	6604.4	6181.9	5704.7	5194.7	4659.2	4123.7	3602.7
42.5°	8389.4	8116.2	7806.6	7471.4	7088.9	6670.0	6207.4	5693.7	5154.6	4571.7	3999.8
40°	8822.9	8557.0	8258.3	7908.6	7551.6	7110.8	6655.4	6167.3	5609.9	5023.4	4393.2
37.5°	9201.8	8954.0	8659.0	8312.9	7934.1	7540.6	7070.7	6582.6	6079.9	5442.4	4797.6
35°	9536.9	9307.4	9005.0	8677.2	8305.6	7890.3	7449.6	6972.4	6429.6	5832.2	5205.6
32.5°	9828.3	9595.2	9318.3	8990.5	8629.8	8240.1	7788.3	7307.5	6793.9	6185.5	5504.3
30°	10076.0	9850.2	9587.9	9278.3	8932.2	8546.1	8105.3	7620.8	7096.2	6491.5	5817.6
27.5°	10291.0	10076.0	9821.0	9533.3	9201.8	8830.2	8385.8	7897.6	7362.1	6779.3	6105.4
25°	10476.7	10269.1	10032.3	9759.1	9431.3	9067.0	8648.0	8138.1	7602.6	7016.1	6349.4
22.5°	10644.3	10444.0	10207.2	9941.2	9642.5	9278.3	8855.7	8349.3	7806.6	7227.4	6571.6
20°	10793.7	10607.9	10374.7	10101.5	9802.8	9434.9	9016.0	8535.1	7988.7	7420.4	6772.0
17.5°	10913.9	10750.0	10516.8	10229.0	9930.3	9573.3	9165.3	8724.5	8145.3	7584.3	6939.6
15°	10997.7	10837.4	10626.1	10334.7	10043.2	9689.9	9281.9	8826.5	8287.4	7715.5	7078.0
12.5°	11056.0	10884.7	10688.0	10418.5	10127.0	9777.3	9380.3	8932.2	8407.6	7832.1	7198.2
10°	11070.5	10913.9	10717.2	10476.7	10192.6	9853.8	9464.0	9019.6	8506.0	7923.1	7296.6
7.5°	11077.8	10928.5	10750.0	10520.5	10240.0	9912.1	9526.0	9088.8	8578.8	7999.6	7369.4
5°	11074.2	10932.1	10771.8	10549.6	10269.1	9944.9	9566.0	9136.2	8629.8	8050.6	7424.1
2.5°	11063.2	10935.7	10786.4	10571.5	10301.9	9981.3	9606.1	9190.8	8684.5	8094.3	7467.8
0°	11092.4	10983.1	10793.7	10564.2	10309.2	9981.3	9602.5	9198.1	8691.8	8090.7	7464.1



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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°	91.1	87.4	87.4	83.8	80.1	76.5	69.2	65.6	58.3	47.4	36.4
85°	196.7	185.8	174.9	167.6	160.3	153.0	142.1	131.1	116.6	94.7	72.9
82.5°	346.1	324.2	302.4	276.9	255.0	233.1	214.9	196.7	174.9	142.1	109.3
80°	495.4	462.6	429.9	393.4	360.6	324.2	291.4	262.3	233.1	189.4	145.7
77.5°	644.8	601.1	553.7	510.0	462.6	415.3	367.9	327.9	284.1	233.1	182.1
75°	783.2	732.2	688.5	626.6	568.3	506.4	444.4	389.8	335.1	273.2	218.6
72.5°	921.6	856.1	794.1	735.8	670.3	593.8	524.6	455.4	386.1	313.3	247.7
70°	1060.1	979.9	903.4	834.2	761.3	684.8	601.1	520.9	437.1	349.7	273.2
67.5°	1202.1	1111.1	1023.6	936.2	852.4	765.0	677.6	586.5	488.1	386.1	302.4
65°	1358.8	1245.8	1140.2	1041.8	943.5	848.8	750.4	652.1	542.8	426.2	327.9
62.5°	1515.4	1391.6	1267.7	1143.8	1034.6	928.9	823.3	714.0	593.8	469.9	353.4
60°	1683.0	1540.9	1398.8	1260.4	1125.6	1009.1	892.5	775.9	648.4	510.0	378.9
57.5°	1868.8	1697.6	1537.3	1380.6	1227.6	1089.2	961.7	837.8	695.8	550.1	408.0
55°	2080.0	1868.8	1679.3	1504.5	1336.9	1169.3	1030.9	903.4	750.4	590.1	440.8
52.5°	2302.3	2058.2	1828.7	1632.0	1453.5	1264.1	1096.5	954.4	805.1	630.2	469.9
50°	2560.9	2251.3	1996.3	1755.8	1555.5	1358.8	1165.7	1012.7	859.7	677.6	499.1
47.5°	2826.8	2484.4	2163.8	1901.6	1664.8	1449.8	1245.8	1063.7	910.7	721.3	528.2
45°	3136.5	2706.6	2353.3	2043.6	1770.4	1544.6	1326.0	1118.3	954.4	765.0	557.4
42.5°	3435.2	2968.9	2550.0	2200.3	1890.6	1635.6	1398.8	1176.6	998.1	808.7	582.9
40°	3788.5	3231.2	2739.4	2349.6	2010.8	1723.1	1471.7	1238.6	1038.2	848.8	608.4
37.5°	4127.3	3497.1	2968.9	2513.5	2127.4	1810.5	1544.6	1296.8	1074.6	888.8	641.1
35°	4462.5	3792.2	3187.5	2666.5	2247.6	1908.8	1617.4	1351.5	1111.1	921.6	670.3
32.5°	4783.0	4069.0	3409.7	2837.8	2378.8	1999.9	1683.0	1402.5	1147.5	950.8	699.4
30°	5081.7	4331.3	3628.2	3012.6	2499.0	2083.7	1744.9	1453.5	1191.2	976.3	728.6
27.5°	5354.9	4586.3	3846.8	3176.5	2611.9	2160.2	1810.5	1500.8	1227.6	1001.8	754.1
25°	5602.7	4815.8	4047.2	3325.9	2713.9	2244.0	1872.4	1548.2	1260.4	1023.6	775.9
22.5°	5835.8	5027.1	4229.3	3475.2	2837.8	2327.8	1930.7	1591.9	1293.2	1045.5	797.8
20°	6039.8	5220.2	4404.2	3624.6	2947.0	2404.3	1981.7	1632.0	1322.3	1060.1	819.6
17.5°	6203.7	5391.4	4560.8	3755.7	3041.8	2469.8	2025.4	1668.4	1347.8	1078.3	834.2
15°	6349.4	5537.1	4691.9	3868.7	3125.5	2524.5	2065.5	1697.6	1369.7	1089.2	852.4
12.5°	6473.3	5660.9	4804.9	3967.0	3198.4	2571.8	2098.3	1719.4	1387.9	1100.1	863.3
10°	6575.3	5759.3	4899.6	4043.5	3256.7	2608.3	2123.8	1741.3	1402.5	1111.1	874.3
7.5°	6651.8	5832.2	4968.8	4109.1	3304.0	2633.8	2145.6	1755.8	1417.1	1118.3	892.5
5°	6710.1	5894.1	5023.4	4152.8	3340.5	2670.2	2171.1	1774.1	1431.6	1125.6	892.5
2.5°	6753.8	5945.1	5067.2	4189.2	3369.6	2662.9	2171.1	1770.4	1431.6	1125.6	888.8
0°	6746.5	5948.7	5063.5	4189.2	3369.6	2655.6	2171.1	1766.8	1431.6	1125.6	888.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.5	18.2	7.3	0.0
85°	54.6	36.4	18.2	0.0
82.5°	80.1	51.0	25.5	0.0
80°	105.6	69.2	32.8	0.0
77.5°	134.8	87.4	43.7	0.0
75°	160.3	102.0	51.0	0.0
72.5°	185.8	120.2	58.3	0.0
70°	207.6	134.8	65.6	0.0
67.5°	229.5	153.0	76.5	0.0
65°	247.7	167.6	83.8	0.0
62.5°	262.3	185.8	91.1	0.0
60°	280.5	200.4	98.4	0.0
57.5°	295.1	211.3	105.6	0.0
55°	309.6	218.6	112.9	0.0
52.5°	324.2	229.5	120.2	0.0
50°	338.8	240.4	127.5	0.0
47.5°	353.4	247.7	131.1	0.0
45°	375.2	258.6	138.4	0.0
42.5°	393.4	265.9	145.7	0.0
40°	411.6	273.2	149.4	0.0
37.5°	429.9	280.5	156.6	0.0
35°	448.1	287.8	160.3	0.0
32.5°	462.6	295.1	163.9	0.0
30°	477.2	302.4	167.6	0.0
27.5°	491.8	306.0	171.2	0.0
25°	502.7	313.3	174.9	0.0
22.5°	513.6	316.9	178.5	0.0
20°	520.9	320.6	182.1	0.0
17.5°	531.9	324.2	185.8	0.0
15°	535.5	327.9	193.1	0.0
12.5°	542.8	331.5	193.1	0.0
10°	546.4	335.1	193.1	0.0
7.5°	553.7	335.1	193.1	0.0
5°	550.1	335.1	193.1	0.0
2.5°	550.1	335.1	193.1	0.0
0°	546.4	335.1	193.1	0.0

(END OF REPORT)