

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: P628404

Luminaire Tested: **IFLD-L-SA7C-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628404
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

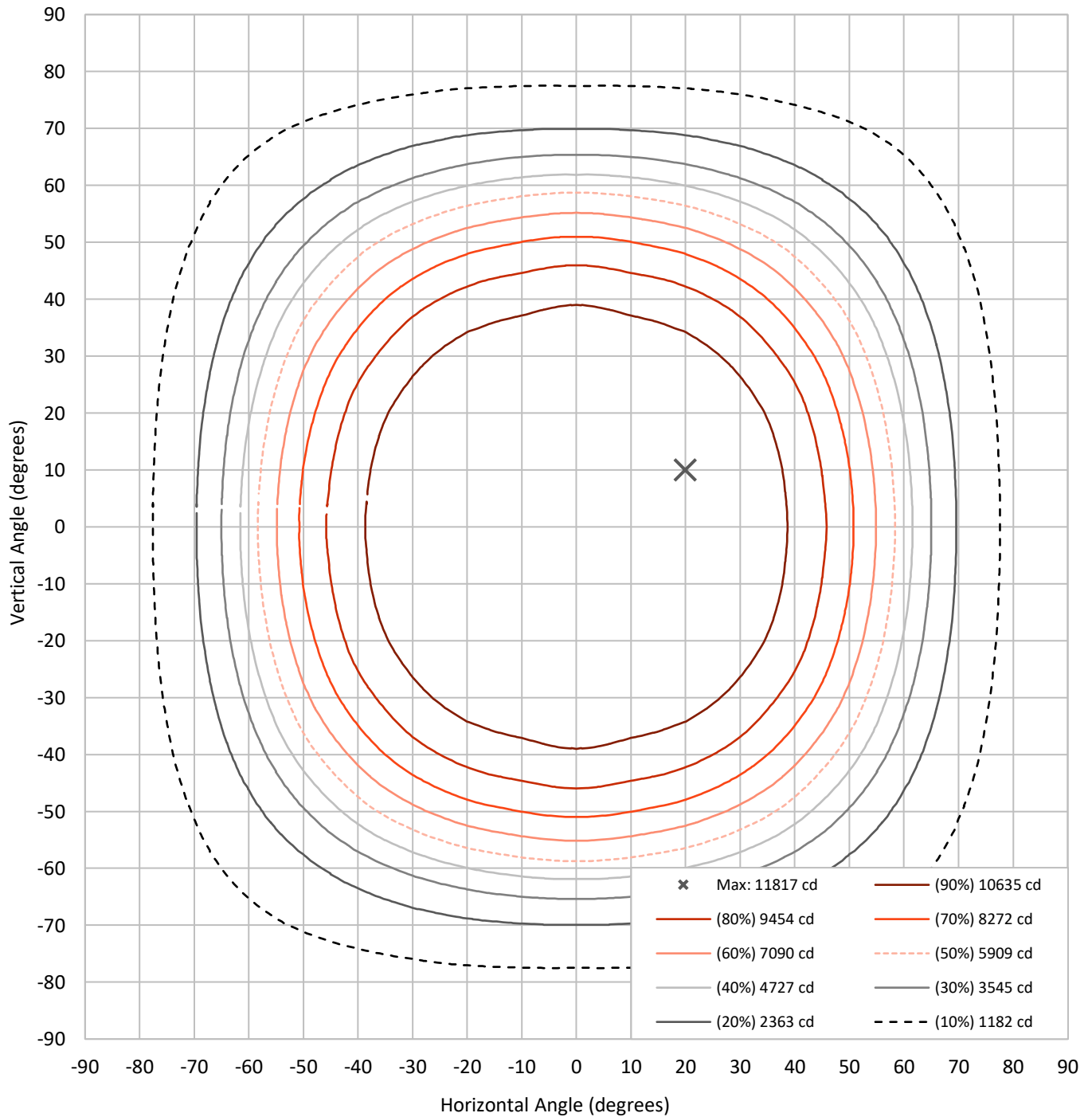
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36252.9 lumens	Max Intensity:	11817 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22245.5 lumens	Field Lumens:	26668.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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



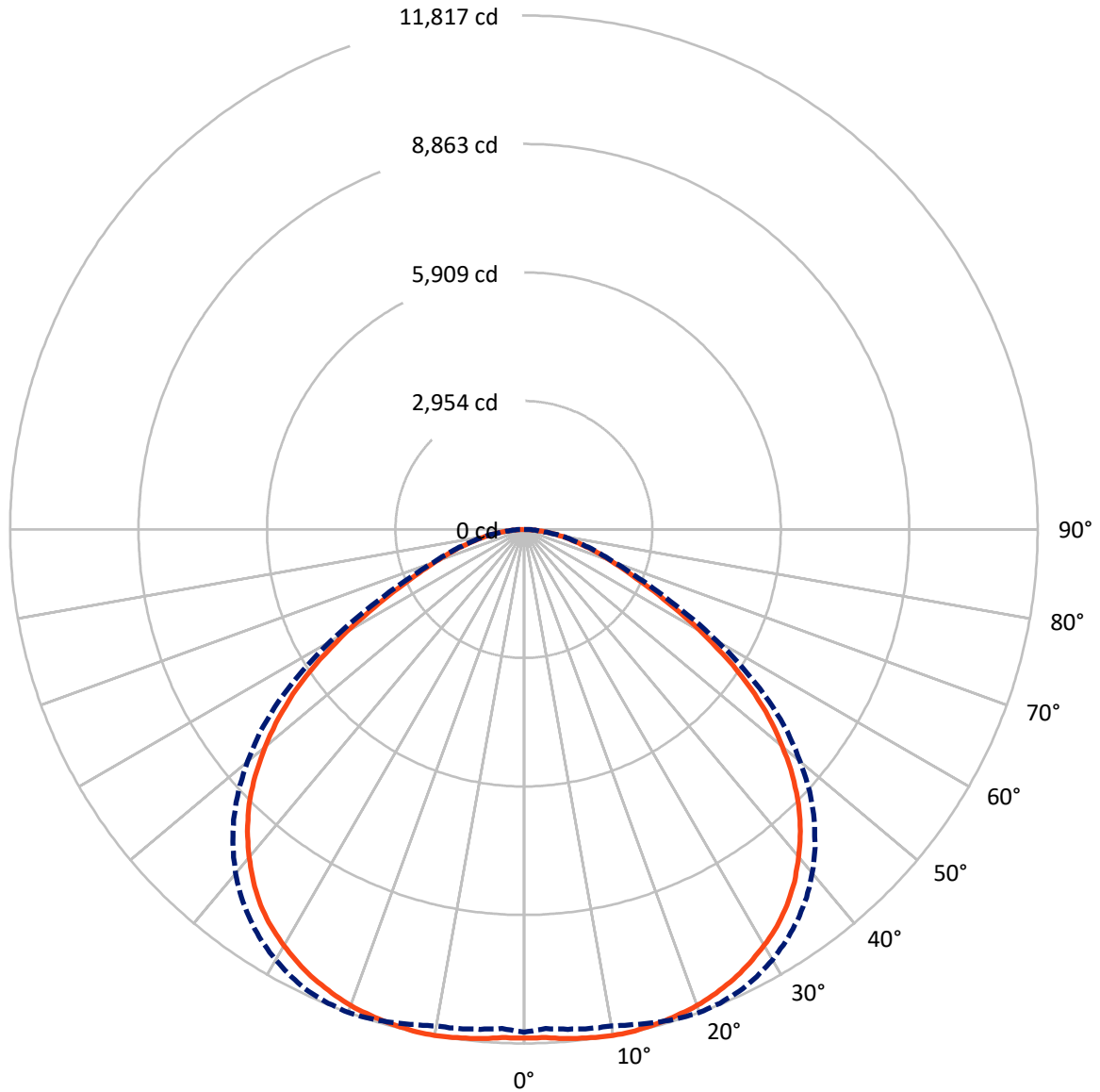
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Iso-Candela Plot



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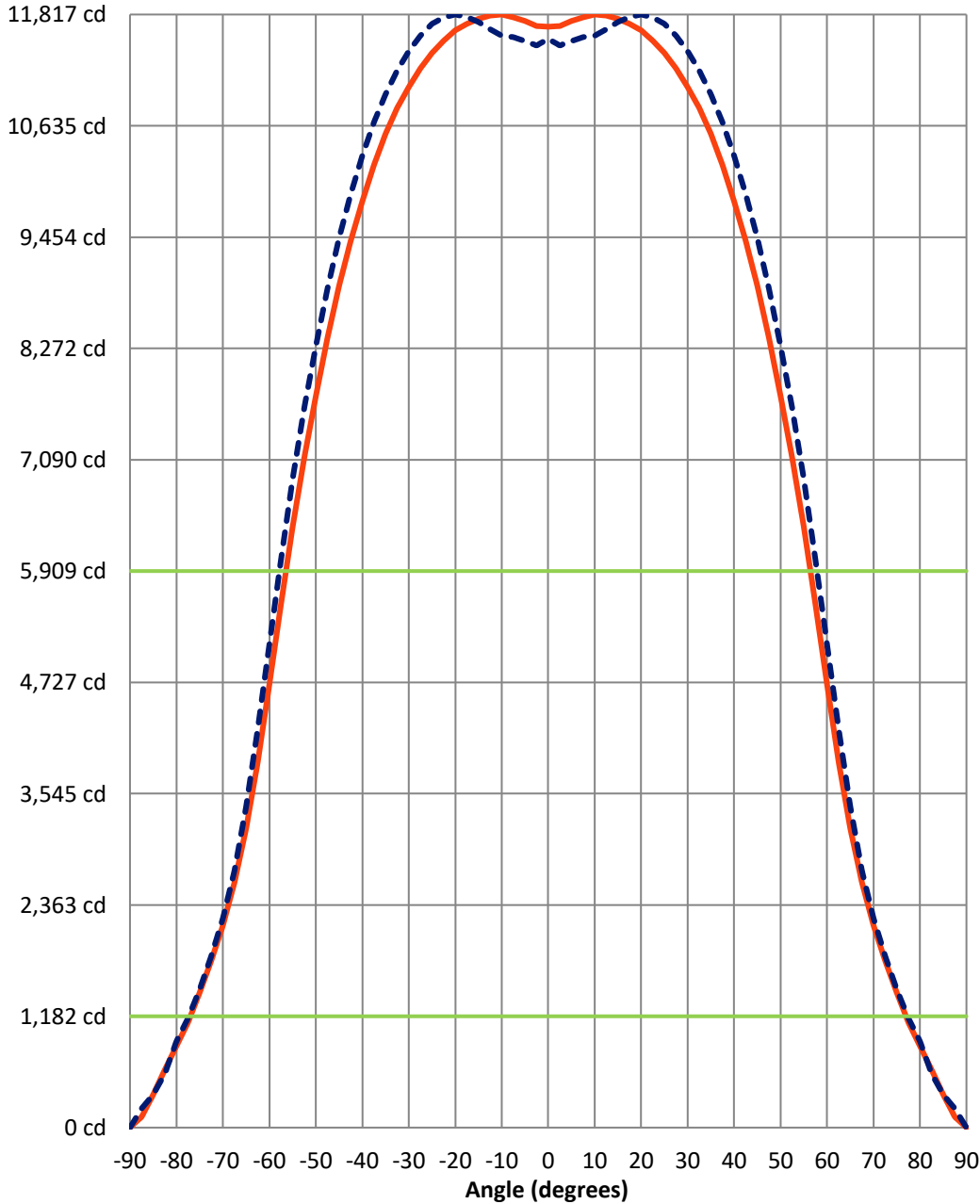
Luminous Intensity Polar Plot



— 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: 22245.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 26668.6
 Efficiency: 73.6%

Spill:
 Lumens: 9584.3
 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°	95.4	103.0	106.8	110.6	114.4	118.2	122.1	118.2	114.4	114.4	110.6
85°	255.6	263.2	267.0	293.7	320.4	335.7	354.7	350.9	350.9	347.1	343.3
82.5°	511.1	534.0	553.1	579.8	595.0	617.9	633.2	621.7	614.1	598.9	587.4
80°	907.8	915.5	919.3	923.1	904.0	900.2	892.6	881.1	865.9	846.8	827.7
77.5°	1155.8	1163.4	1171.0	1163.4	1159.6	1155.8	1144.3	1132.9	1117.6	1102.4	1079.5
75°	1529.6	1529.6	1529.6	1518.1	1510.5	1499.1	1480.0	1460.9	1434.2	1403.7	1369.4
72.5°	1926.3	1922.5	1918.6	1895.8	1876.7	1853.8	1827.1	1804.2	1773.7	1739.4	1693.6
70°	2342.0	2349.7	2353.5	2323.0	2300.1	2269.6	2235.2	2193.3	2147.5	2097.9	2033.1
67.5°	2914.2	2906.6	2898.9	2857.0	2826.5	2784.5	2734.9	2673.9	2605.2	2528.9	2437.4
65°	3623.7	3635.1	3612.2	3570.3	3513.1	3444.4	3368.1	3280.4	3177.4	3063.0	2933.3
62.5°	4481.9	4501.0	4474.3	4420.9	4348.4	4256.9	4150.1	4024.2	3883.0	3722.8	3562.6
60°	5458.4	5454.6	5405.0	5332.5	5237.2	5122.7	5004.5	4867.2	4707.0	4520.0	4325.5
57.5°	6354.8	6347.1	6286.1	6213.6	6118.3	5996.2	5870.3	5725.4	5557.6	5359.2	5134.2
55°	7159.6	7152.0	7090.9	7014.7	6915.5	6793.4	6679.0	6541.7	6377.7	6167.9	5927.6
52.5°	7872.9	7876.7	7823.3	7739.4	7632.6	7514.3	7403.7	7266.4	7110.0	6900.2	6667.5
50°	8529.0	8525.2	8467.9	8391.7	8292.5	8178.0	8067.4	7930.1	7766.1	7563.9	7338.9
47.5°	9139.3	9131.6	9066.8	8982.9	8879.9	8780.7	8677.7	8555.7	8384.0	8181.9	7956.8
45°	9650.4	9635.1	9570.3	9490.2	9391.0	9303.3	9211.7	9120.2	8937.1	8750.2	8536.6
42.5°	10089.1	10085.2	10020.4	9940.3	9841.1	9764.8	9680.9	9566.5	9413.9	9242.3	9032.5
40°	10508.6	10478.1	10413.3	10337.0	10245.4	10180.6	10096.7	9982.3	9833.5	9665.7	9463.5
37.5°	10821.4	10825.2	10756.6	10672.7	10592.6	10531.5	10455.2	10348.4	10218.7	10054.7	9852.6
35°	11118.9	11099.9	11042.7	10970.2	10897.7	10829.0	10748.9	10657.4	10550.6	10398.0	10207.3
32.5°	11313.5	11340.2	11271.5	11195.2	11153.3	11099.9	11016.0	10920.6	10825.2	10672.7	10501.0
30°	11527.1	11504.2	11450.8	11385.9	11355.4	11321.1	11248.6	11157.1	11046.5	10909.1	10748.9
27.5°	11675.8	11664.4	11599.6	11538.5	11523.3	11492.7	11435.5	11355.4	11244.8	11111.3	10962.5
25°	11740.7	11748.3	11687.3	11653.0	11653.0	11633.9	11588.1	11519.4	11408.8	11286.8	11141.8
22.5°	11771.2	11763.6	11721.6	11714.0	11733.1	11717.8	11698.7	11637.7	11538.5	11439.3	11317.3
20°	11790.3	11736.9	11698.7	11729.2	11752.1	11748.3	11733.1	11694.9	11649.1	11565.2	11458.4
17.5°	11748.3	11714.0	11668.2	11714.0	11763.6	11767.4	11752.1	11729.2	11717.8	11664.4	11569.0
15°	11645.3	11618.6	11626.3	11672.0	11729.2	11748.3	11759.8	11786.5	11771.2	11729.2	11645.3
12.5°	11576.7	11542.3	11576.7	11622.4	11653.0	11664.4	11755.9	11805.5	11805.5	11767.4	11714.0
10°	11557.6	11488.9	11534.7	11576.7	11591.9	11660.6	11736.9	11790.3	11817.0	11786.5	11717.8
7.5°	11519.4	11473.7	11492.7	11511.8	11599.6	11649.1	11691.1	11748.3	11786.5	11782.6	11721.6
5°	11500.4	11443.2	11450.8	11530.9	11591.9	11626.3	11641.5	11691.1	11748.3	11759.8	11714.0
2.5°	11450.8	11424.1	11481.3	11488.9	11534.7	11561.4	11576.7	11622.4	11694.9	11721.6	11702.5
0°	11424.1	11385.9	11347.8	11378.3	11454.6	11511.8	11534.7	11603.4	11687.3	11714.0	11672.0



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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°	106.8	103.0	99.2	95.4	99.2	99.2	99.2	95.4	99.2	95.4	95.4
85°	331.9	316.6	305.2	289.9	274.6	263.2	247.9	232.7	228.9	225.0	217.4
82.5°	572.2	553.1	534.0	511.1	488.2	461.5	434.8	404.3	396.7	389.1	377.6
80°	804.8	778.1	751.4	724.7	701.8	675.1	644.6	610.3	587.4	568.3	545.5
77.5°	1049.0	1010.8	972.7	926.9	900.2	873.5	843.0	808.7	774.3	743.8	709.5
75°	1327.4	1285.4	1247.3	1201.5	1151.9	1102.4	1052.8	1007.0	957.4	911.6	865.9
72.5°	1636.4	1575.3	1514.3	1457.1	1396.1	1335.0	1270.2	1209.2	1148.1	1087.1	1022.3
70°	1960.6	1884.3	1808.0	1731.7	1651.6	1571.5	1495.2	1419.0	1342.7	1262.6	1190.1
67.5°	2342.0	2254.3	2155.1	2048.3	1930.1	1827.1	1727.9	1636.4	1544.8	1453.3	1361.7
65°	2818.8	2696.8	2563.3	2418.3	2281.0	2143.7	1998.7	1861.4	1754.6	1647.8	1544.8
62.5°	3406.2	3234.6	3047.7	2860.8	2693.0	2513.7	2345.8	2166.6	1998.7	1846.2	1720.3
60°	4108.1	3875.4	3646.6	3406.2	3173.6	2929.4	2715.8	2494.6	2284.8	2097.9	1914.8
57.5°	4882.4	4611.6	4337.0	4043.3	3726.7	3440.6	3150.7	2860.8	2612.9	2364.9	2158.9
55°	5668.2	5382.1	5073.1	4741.3	4394.2	4028.0	3635.1	3310.9	2971.4	2681.5	2414.5
52.5°	6415.8	6118.3	5797.9	5492.7	5076.9	4657.4	4226.3	3799.1	3402.4	3032.4	2708.2
50°	7083.3	6793.4	6484.5	6129.7	5744.5	5298.2	4817.6	4337.0	3867.8	3432.9	3028.6
47.5°	7693.6	7411.4	7102.4	6747.7	6396.7	5900.9	5416.4	4886.2	4363.7	3864.0	3391.0
45°	8265.8	7979.7	7659.3	7319.8	6915.5	6473.0	5973.3	5439.3	4878.6	4317.9	3772.4
42.5°	8784.5	8498.5	8174.2	7823.3	7422.8	6984.1	6499.7	5961.9	5397.4	4787.1	4188.2
40°	9238.4	8960.0	8647.2	8281.0	7907.2	7445.7	6968.9	6457.8	5874.2	5260.0	4600.2
37.5°	9635.1	9375.8	9066.8	8704.4	8307.7	7895.8	7403.7	6892.6	6366.2	5698.7	5023.5
35°	9986.1	9745.8	9429.2	9085.9	8696.8	8262.0	7800.4	7300.7	6732.4	6106.8	5450.8
32.5°	10291.2	10047.1	9757.2	9413.9	9036.3	8628.1	8155.2	7651.7	7113.8	6476.8	5763.5
30°	10550.6	10314.1	10039.5	9715.2	9352.9	8948.6	8487.0	7979.7	7430.4	6797.2	6091.6
27.5°	10775.6	10550.6	10283.6	9982.3	9635.1	9246.1	8780.7	8269.6	7708.9	7098.6	6392.9
25°	10970.2	10752.8	10504.8	10218.7	9875.4	9494.0	9055.4	8521.3	7960.6	7346.5	6648.5
22.5°	11145.6	10935.8	10687.9	10409.5	10096.7	9715.2	9272.8	8742.6	8174.2	7567.7	6881.2
20°	11302.0	11107.5	10863.4	10577.3	10264.5	9879.3	9440.6	8937.1	8365.0	7769.9	7090.9
17.5°	11427.9	11256.3	11012.1	10710.8	10398.0	10024.2	9597.0	9135.5	8529.0	7941.6	7266.4
15°	11515.6	11347.8	11126.6	10821.4	10516.3	10146.3	9719.1	9242.3	8677.7	8078.9	7411.4
12.5°	11576.7	11397.4	11191.4	10909.1	10604.0	10237.8	9822.0	9352.9	8803.6	8200.9	7537.2
10°	11591.9	11427.9	11221.9	10970.2	10672.7	10317.9	9909.8	9444.4	8906.6	8296.3	7640.2
7.5°	11599.6	11443.2	11256.3	11016.0	10722.2	10378.9	9974.6	9516.9	8982.9	8376.4	7716.5
5°	11595.7	11447.0	11279.1	11046.5	10752.8	10413.3	10016.6	9566.5	9036.3	8429.8	7773.7
2.5°	11584.3	11450.8	11294.4	11069.4	10787.1	10451.4	10058.5	9623.7	9093.5	8475.6	7819.5
0°	11614.8	11500.4	11302.0	11061.7	10794.7	10451.4	10054.7	9631.3	9101.1	8471.8	7815.7



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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°	95.4	91.5	91.5	87.7	83.9	80.1	72.5	68.7	61.0	49.6	38.1
85°	206.0	194.5	183.1	175.5	167.8	160.2	148.8	137.3	122.1	99.2	76.3
82.5°	362.4	339.5	316.6	289.9	267.0	244.1	225.0	206.0	183.1	148.8	114.4
80°	518.8	484.4	450.1	412.0	377.6	339.5	305.2	274.6	244.1	198.3	152.6
77.5°	675.1	629.4	579.8	534.0	484.4	434.8	385.3	343.3	297.5	244.1	190.7
75°	820.1	766.7	720.9	656.1	595.0	530.2	465.4	408.1	350.9	286.1	228.9
72.5°	965.0	896.4	831.5	770.5	701.8	621.7	549.3	476.8	404.3	328.0	259.4
70°	1110.0	1026.1	946.0	873.5	797.2	717.1	629.4	545.5	457.7	366.2	286.1
67.5°	1258.7	1163.4	1071.8	980.3	892.6	801.0	709.5	614.1	511.1	404.3	316.6
65°	1422.8	1304.5	1193.9	1090.9	987.9	888.8	785.8	682.8	568.3	446.3	343.3
62.5°	1586.8	1457.1	1327.4	1197.7	1083.3	972.7	862.1	747.6	621.7	492.1	370.0
60°	1762.2	1613.5	1464.7	1319.8	1178.6	1056.6	934.5	812.5	679.0	534.0	396.7
57.5°	1956.8	1777.5	1609.7	1445.7	1285.4	1140.5	1007.0	877.3	728.5	576.0	427.2
55°	2178.0	1956.8	1758.4	1575.3	1399.9	1224.4	1079.5	946.0	785.8	617.9	461.5
52.5°	2410.7	2155.1	1914.8	1708.8	1521.9	1323.6	1148.1	999.4	843.0	659.9	492.1
50°	2681.5	2357.3	2090.3	1838.5	1628.7	1422.8	1220.6	1060.4	900.2	709.5	522.6
47.5°	2960.0	2601.4	2265.7	1991.1	1743.2	1518.1	1304.5	1113.8	953.6	755.2	553.1
45°	3284.2	2834.1	2464.1	2139.9	1853.8	1617.3	1388.4	1171.0	999.4	801.0	583.6
42.5°	3597.0	3108.7	2670.1	2303.9	1979.7	1712.7	1464.7	1232.0	1045.1	846.8	610.3
40°	3967.0	3383.4	2868.4	2460.3	2105.5	1804.2	1541.0	1296.9	1087.1	888.8	637.0
37.5°	4321.7	3661.8	3108.7	2631.9	2227.6	1895.8	1617.3	1357.9	1125.2	930.7	671.3
35°	4672.6	3970.8	3337.6	2792.1	2353.5	1998.7	1693.6	1415.1	1163.4	965.0	701.8
32.5°	5008.3	4260.7	3570.3	2971.4	2490.8	2094.1	1762.2	1468.5	1201.5	995.6	732.4
30°	5321.1	4535.3	3799.1	3154.5	2616.7	2181.8	1827.1	1521.9	1247.3	1022.3	762.9
27.5°	5607.1	4802.3	4028.0	3326.1	2734.9	2261.9	1895.8	1571.5	1285.4	1049.0	789.6
25°	5866.5	5042.6	4237.8	3482.5	2841.7	2349.7	1960.6	1621.1	1319.8	1071.8	812.5
22.5°	6110.6	5263.9	4428.5	3638.9	2971.4	2437.4	2021.6	1666.9	1354.1	1094.7	835.4
20°	6324.3	5466.0	4611.6	3795.3	3085.8	2517.5	2075.0	1708.8	1384.6	1110.0	858.2
17.5°	6495.9	5645.3	4775.6	3932.6	3185.0	2586.2	2120.8	1747.0	1411.3	1129.1	873.5
15°	6648.5	5797.9	4912.9	4050.9	3272.7	2643.4	2162.8	1777.5	1434.2	1140.5	892.6
12.5°	6778.2	5927.6	5031.2	4153.9	3349.0	2693.0	2197.1	1800.4	1453.3	1151.9	904.0
10°	6885.0	6030.5	5130.4	4234.0	3410.1	2731.1	2223.8	1823.3	1468.5	1163.4	915.5
7.5°	6965.1	6106.8	5202.8	4302.6	3459.6	2757.8	2246.7	1838.5	1483.8	1171.0	934.5
5°	7026.1	6171.7	5260.0	4348.4	3497.8	2795.9	2273.4	1857.6	1499.1	1178.6	934.5
2.5°	7071.9	6225.1	5305.8	4386.5	3528.3	2788.3	2273.4	1853.8	1499.1	1178.6	930.7
0°	7064.2	6228.9	5302.0	4386.5	3528.3	2780.7	2273.4	1850.0	1499.1	1178.6	930.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	26.7	19.1	7.6	0.0
85°	57.2	38.1	19.1	0.0
82.5°	83.9	53.4	26.7	0.0
80°	110.6	72.5	34.3	0.0
77.5°	141.1	91.5	45.8	0.0
75°	167.8	106.8	53.4	0.0
72.5°	194.5	125.9	61.0	0.0
70°	217.4	141.1	68.7	0.0
67.5°	240.3	160.2	80.1	0.0
65°	259.4	175.5	87.7	0.0
62.5°	274.6	194.5	95.4	0.0
60°	293.7	209.8	103.0	0.0
57.5°	309.0	221.2	110.6	0.0
55°	324.2	228.9	118.2	0.0
52.5°	339.5	240.3	125.9	0.0
50°	354.7	251.7	133.5	0.0
47.5°	370.0	259.4	137.3	0.0
45°	392.9	270.8	144.9	0.0
42.5°	412.0	278.5	152.6	0.0
40°	431.0	286.1	156.4	0.0
37.5°	450.1	293.7	164.0	0.0
35°	469.2	301.3	167.8	0.0
32.5°	484.4	309.0	171.6	0.0
30°	499.7	316.6	175.5	0.0
27.5°	514.9	320.4	179.3	0.0
25°	526.4	328.0	183.1	0.0
22.5°	537.8	331.9	186.9	0.0
20°	545.5	335.7	190.7	0.0
17.5°	556.9	339.5	194.5	0.0
15°	560.7	343.3	202.2	0.0
12.5°	568.3	347.1	202.2	0.0
10°	572.2	350.9	202.2	0.0
7.5°	579.8	350.9	202.2	0.0
5°	576.0	350.9	202.2	0.0
2.5°	576.0	350.9	202.2	0.0
0°	572.2	350.9	202.2	0.0

(END OF REPORT)