

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: P628283

Luminaire Tested: **IFLD-M-SA4C-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628283
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

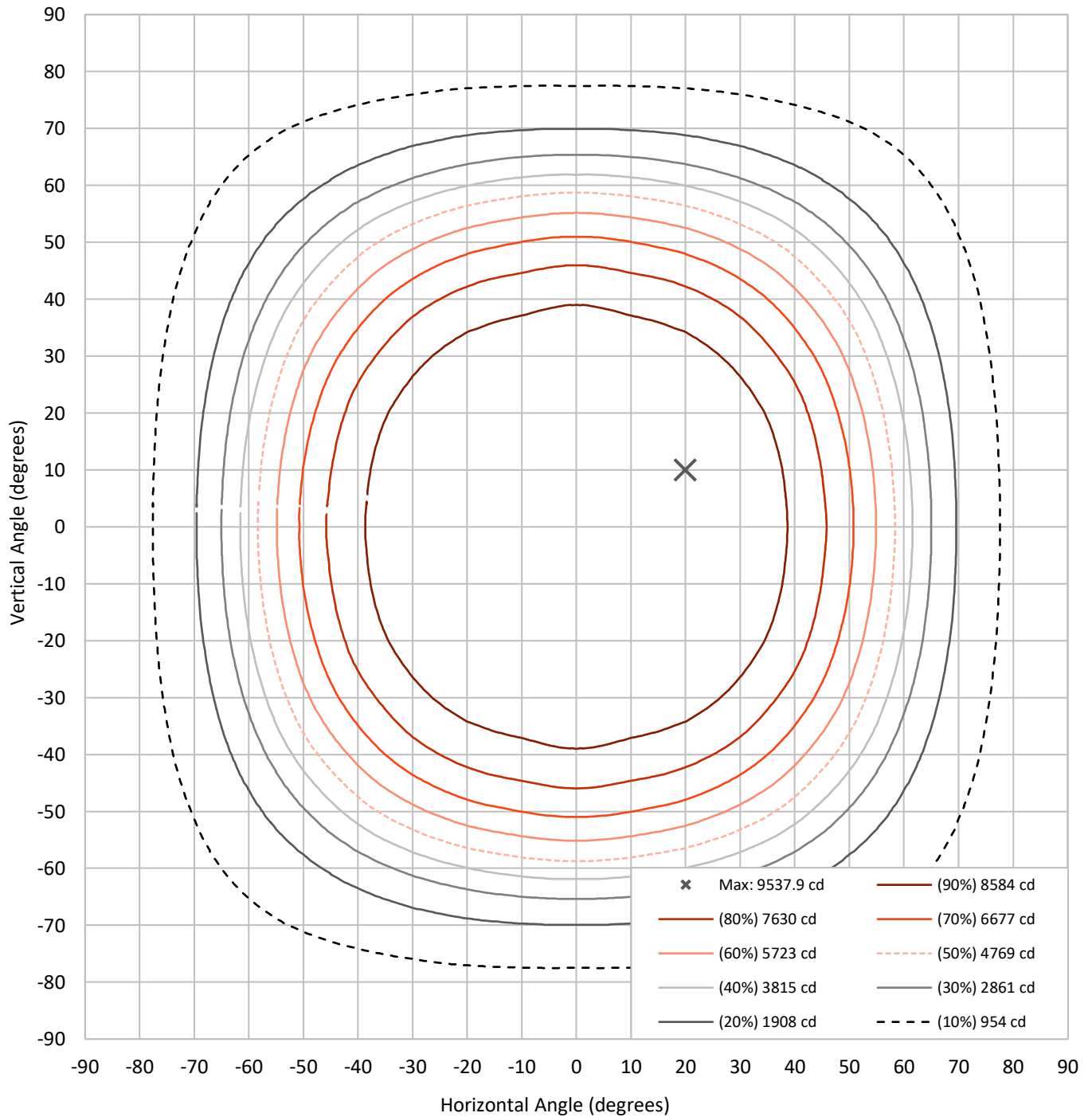
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29261.1 lumens	Max Intensity:	9537.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	134.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17955.2 lumens	Field Lumens:	21525.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 218.1
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



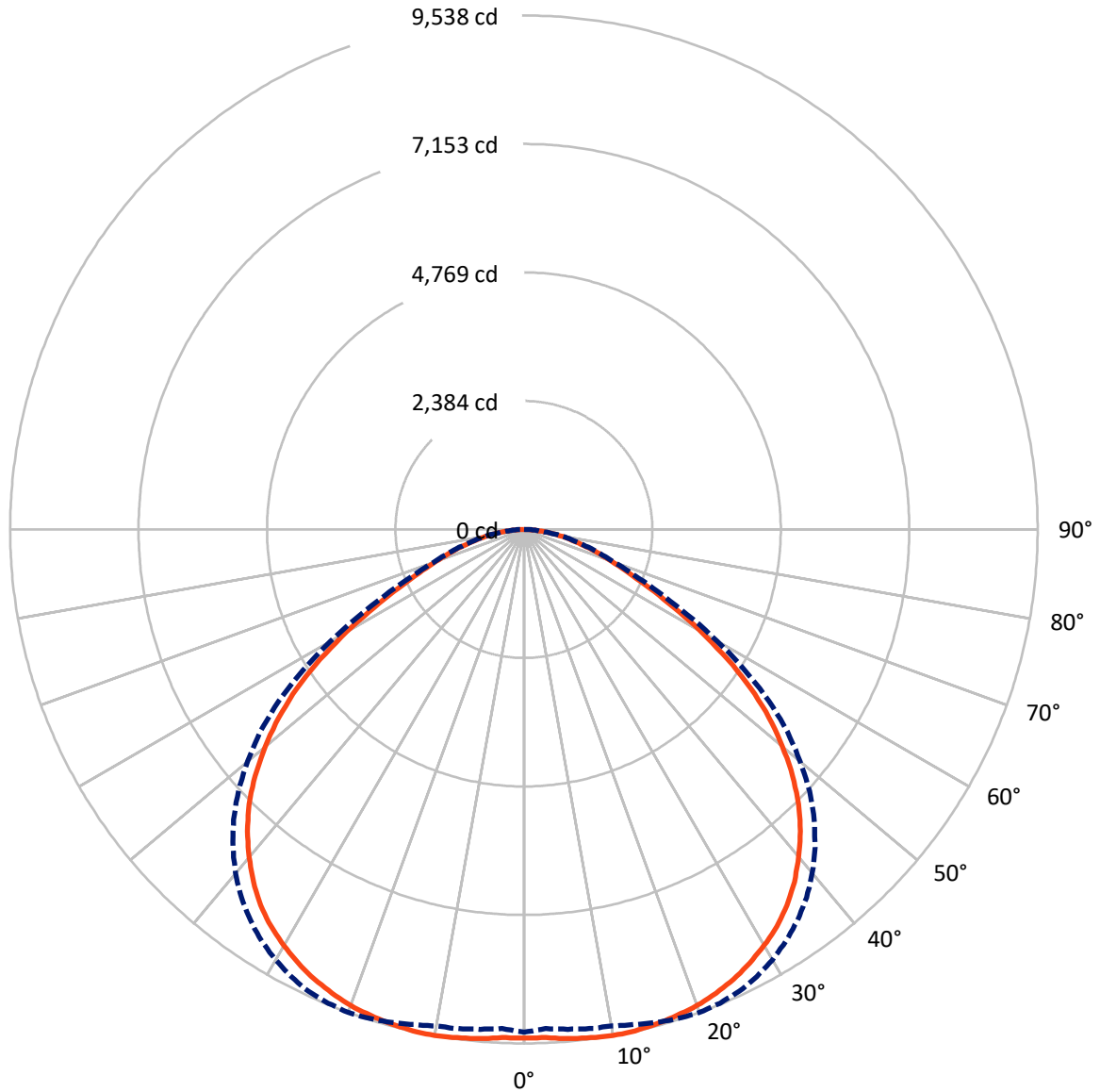
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Iso-Candela Plot



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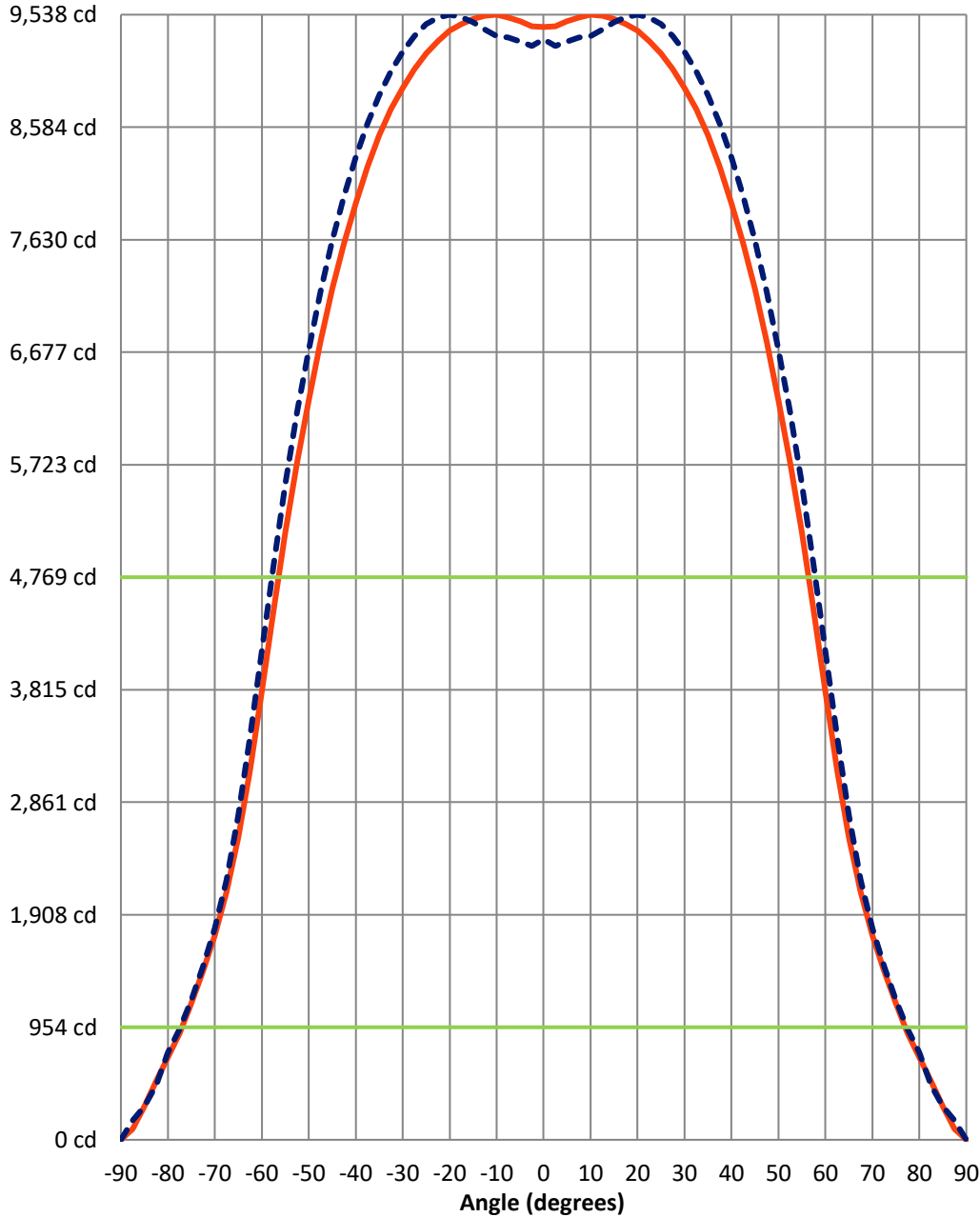
Luminous Intensity Polar Plot



— 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: 17955.2
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 21525.2
Efficiency: 73.6%

Spill:
Lumens: 7735.8
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°	77.0	83.1	86.2	89.3	92.4	95.4	98.5	95.4	92.4	92.4	89.3
85°	206.3	212.4	215.5	237.1	258.6	270.9	286.3	283.2	283.2	280.2	277.1
82.5°	412.6	431.0	446.4	468.0	480.3	498.8	511.1	501.8	495.7	483.4	474.1
80°	732.7	738.9	742.0	745.1	729.7	726.6	720.4	711.2	698.9	683.5	668.1
77.5°	932.9	939.0	945.2	939.0	935.9	932.9	923.6	914.4	902.1	889.8	871.3
75°	1234.6	1234.6	1234.6	1225.3	1219.2	1209.9	1194.6	1179.2	1157.6	1133.0	1105.3
72.5°	1554.8	1551.7	1548.6	1530.1	1514.7	1496.3	1474.7	1456.2	1431.6	1403.9	1367.0
70°	1890.3	1896.5	1899.6	1875.0	1856.5	1831.8	1804.1	1770.3	1733.3	1693.3	1641.0
67.5°	2352.2	2346.0	2339.8	2306.0	2281.3	2247.5	2207.5	2158.2	2102.8	2041.2	1967.3
65°	2924.8	2934.0	2915.6	2881.7	2835.5	2780.1	2718.5	2647.7	2564.6	2472.2	2367.5
62.5°	3617.5	3632.9	3611.4	3568.3	3509.8	3435.9	3349.7	3248.1	3134.2	3004.8	2875.5
60°	4405.7	4402.6	4362.6	4304.1	4227.1	4134.7	4039.3	3928.5	3799.2	3648.3	3491.3
57.5°	5129.2	5123.0	5073.8	5015.3	4938.3	4839.8	4738.2	4621.2	4485.7	4325.6	4144.0
55°	5778.8	5772.6	5723.4	5661.8	5581.8	5483.2	5390.9	5280.0	5147.6	4978.3	4784.4
52.5°	6354.5	6357.6	6314.5	6246.8	6160.6	6065.1	5975.8	5865.0	5738.8	5569.4	5381.6
50°	6884.1	6881.0	6834.8	6773.2	6693.2	6600.8	6511.5	6400.7	6268.3	6105.1	5923.5
47.5°	7376.7	7370.5	7318.2	7250.4	7167.3	7087.3	7004.1	6905.6	6767.1	6603.9	6422.2
45°	7789.2	7776.9	7724.6	7659.9	7579.9	7509.0	7435.2	7361.3	7213.5	7062.6	6890.2
42.5°	8143.3	8140.2	8087.8	8023.2	7943.1	7881.6	7813.8	7721.5	7598.3	7459.8	7290.5
40°	8481.9	8457.3	8405.0	8343.4	8269.5	8217.2	8149.4	8057.1	7937.0	7801.5	7638.3
37.5°	8734.4	8737.5	8682.0	8614.3	8549.7	8500.4	8438.8	8352.6	8247.9	8115.6	7952.4
35°	8974.5	8959.1	8912.9	8854.4	8796.0	8740.5	8675.9	8602.0	8515.8	8392.6	8238.7
32.5°	9131.5	9153.1	9097.7	9036.1	9002.2	8959.1	8891.4	8814.4	8737.5	8614.3	8475.8
30°	9303.9	9285.5	9242.4	9190.0	9165.4	9137.7	9079.2	9005.3	8916.0	8805.2	8675.9
27.5°	9424.0	9414.8	9362.4	9313.2	9300.9	9276.2	9230.1	9165.4	9076.1	8968.4	8848.3
25°	9476.4	9482.5	9433.3	9405.5	9405.5	9390.1	9353.2	9297.8	9208.5	9110.0	8993.0
22.5°	9501.0	9494.8	9461.0	9454.8	9470.2	9457.9	9442.5	9393.2	9313.2	9233.1	9134.6
20°	9516.4	9473.3	9442.5	9467.1	9485.6	9482.5	9470.2	9439.4	9402.5	9334.7	9248.5
17.5°	9482.5	9454.8	9417.9	9454.8	9494.8	9497.9	9485.6	9467.1	9457.9	9414.8	9337.8
15°	9399.4	9377.8	9384.0	9420.9	9467.1	9482.5	9491.7	9513.3	9501.0	9467.1	9399.4
12.5°	9344.0	9316.3	9344.0	9380.9	9405.5	9414.8	9488.7	9528.7	9528.7	9497.9	9454.8
10°	9328.6	9273.2	9310.1	9344.0	9356.3	9411.7	9473.3	9516.4	9537.9	9513.3	9457.9
7.5°	9297.8	9260.8	9276.2	9291.6	9362.4	9402.5	9436.3	9482.5	9513.3	9510.2	9461.0
5°	9282.4	9236.2	9242.4	9307.0	9356.3	9384.0	9396.3	9436.3	9482.5	9491.7	9454.8
2.5°	9242.4	9220.8	9267.0	9273.2	9310.1	9331.7	9344.0	9380.9	9439.4	9461.0	9445.6
0°	9220.8	9190.0	9159.2	9183.9	9245.4	9291.6	9310.1	9365.5	9433.3	9454.8	9420.9



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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°	86.2	83.1	80.0	77.0	80.0	80.0	80.0	77.0	80.0	77.0	77.0
85°	267.9	255.5	246.3	234.0	221.7	212.4	200.1	187.8	184.7	181.6	175.5
82.5°	461.8	446.4	431.0	412.6	394.1	372.5	351.0	326.3	320.2	314.0	304.8
80°	649.6	628.1	606.5	585.0	566.5	544.9	520.3	492.6	474.1	458.7	440.3
77.5°	846.7	815.9	785.1	748.1	726.6	705.0	680.4	652.7	625.0	600.4	572.6
75°	1071.4	1037.5	1006.7	969.8	929.8	889.8	849.7	812.8	772.8	735.8	698.9
72.5°	1320.8	1271.5	1222.3	1176.1	1126.8	1077.6	1025.2	976.0	926.7	877.4	825.1
70°	1582.5	1520.9	1459.3	1397.7	1333.1	1268.4	1206.9	1145.3	1083.7	1019.1	960.6
67.5°	1890.3	1819.5	1739.5	1653.3	1557.8	1474.7	1394.7	1320.8	1246.9	1173.0	1099.1
65°	2275.2	2176.7	2068.9	1951.9	1841.1	1730.3	1613.3	1502.4	1416.2	1330.0	1246.9
62.5°	2749.3	2610.8	2459.9	2309.1	2173.6	2028.9	1893.4	1748.7	1613.3	1490.1	1388.5
60°	3315.8	3128.0	2943.3	2749.3	2561.5	2364.5	2192.1	2013.5	1844.2	1693.3	1545.5
57.5°	3940.8	3722.2	3500.5	3263.5	3007.9	2777.0	2543.0	2309.1	2108.9	1908.8	1742.6
55°	4575.0	4344.1	4094.7	3826.9	3546.7	3251.1	2934.0	2672.3	2398.3	2164.4	1948.8
52.5°	5178.4	4938.3	4679.7	4433.4	4097.8	3759.1	3411.2	3066.4	2746.2	2447.6	2185.9
50°	5717.2	5483.2	5233.9	4947.5	4636.6	4276.4	3888.4	3500.5	3121.8	2770.9	2444.5
47.5°	6209.8	5982.0	5732.6	5446.3	5163.0	4762.8	4371.8	3943.9	3522.1	3118.8	2737.0
45°	6671.6	6440.7	6182.1	5908.1	5581.8	5224.6	4821.3	4390.3	3937.7	3485.1	3044.9
42.5°	7090.3	6859.4	6597.7	6314.5	5991.2	5637.2	5246.2	4812.1	4356.4	3863.8	3380.5
40°	7456.7	7232.0	6979.5	6683.9	6382.2	6009.7	5624.9	5212.3	4741.3	4245.6	3713.0
37.5°	7776.9	7567.5	7318.2	7025.7	6705.5	6373.0	5975.8	5563.3	5138.4	4599.6	4054.7
35°	8060.1	7866.2	7610.6	7333.6	7019.5	6668.5	6296.0	5892.7	5434.0	4929.1	4399.5
32.5°	8306.4	8109.4	7875.4	7598.3	7293.5	6964.1	6582.3	6175.9	5741.8	5227.7	4652.0
30°	8515.8	8324.9	8103.2	7841.5	7549.1	7222.7	6850.2	6440.7	5997.4	5486.3	4916.7
27.5°	8697.4	8515.8	8300.3	8057.1	7776.9	7462.9	7087.3	6674.7	6222.1	5729.5	5160.0
25°	8854.4	8679.0	8478.8	8247.9	7970.9	7663.0	7308.9	6877.9	6425.3	5929.6	5366.2
22.5°	8996.1	8826.7	8626.6	8401.9	8149.4	7841.5	7484.4	7056.5	6597.7	6108.2	5554.0
20°	9122.3	8965.3	8768.2	8537.3	8284.9	7973.9	7619.9	7213.5	6751.7	6271.4	5723.4
17.5°	9223.9	9085.4	8888.3	8645.1	8392.6	8090.9	7746.1	7373.6	6884.1	6409.9	5865.0
15°	9294.7	9159.2	8980.7	8734.4	8488.1	8189.4	7844.6	7459.8	7004.1	6520.8	5982.0
12.5°	9344.0	9199.3	9033.0	8805.2	8558.9	8263.3	7927.7	7549.1	7105.7	6619.3	6083.6
10°	9356.3	9223.9	9057.6	8854.4	8614.3	8328.0	7998.6	7623.0	7188.9	6696.3	6166.7
7.5°	9362.4	9236.2	9085.4	8891.4	8654.3	8377.2	8050.9	7681.4	7250.4	6760.9	6228.3
5°	9359.4	9239.3	9103.8	8916.0	8679.0	8405.0	8084.8	7721.5	7293.5	6804.0	6274.5
2.5°	9350.1	9242.4	9116.1	8934.5	8706.7	8435.7	8118.6	7767.7	7339.7	6841.0	6311.4
0°	9374.8	9282.4	9122.3	8928.3	8712.8	8435.7	8115.6	7773.8	7345.9	6837.9	6308.3



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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°	77.0	73.9	73.9	70.8	67.7	64.7	58.5	55.4	49.3	40.0	30.8
85°	166.3	157.0	147.8	141.6	135.5	129.3	120.1	110.8	98.5	80.0	61.6
82.5°	292.5	274.0	255.5	234.0	215.5	197.0	181.6	166.3	147.8	120.1	92.4
80°	418.7	391.0	363.3	332.5	304.8	274.0	246.3	221.7	197.0	160.1	123.1
77.5°	544.9	508.0	468.0	431.0	391.0	351.0	311.0	277.1	240.1	197.0	153.9
75°	661.9	618.8	581.9	529.5	480.3	427.9	375.6	329.4	283.2	230.9	184.7
72.5°	778.9	723.5	671.2	621.9	566.5	501.8	443.3	384.8	326.3	264.8	209.4
70°	895.9	828.2	763.5	705.0	643.5	578.8	508.0	440.3	369.4	295.6	230.9
67.5°	1016.0	939.0	865.1	791.2	720.4	646.5	572.6	495.7	412.6	326.3	255.5
65°	1148.4	1052.9	963.6	880.5	797.4	717.3	634.2	551.1	458.7	360.2	277.1
62.5°	1280.8	1176.1	1071.4	966.7	874.4	785.1	695.8	603.4	501.8	397.2	298.6
60°	1422.4	1302.3	1182.2	1065.2	951.3	852.8	754.3	655.8	548.0	431.0	320.2
57.5°	1579.4	1434.7	1299.2	1166.8	1037.5	920.5	812.8	708.1	588.0	464.9	344.8
55°	1758.0	1579.4	1419.3	1271.5	1129.9	988.3	871.3	763.5	634.2	498.8	372.5
52.5°	1945.8	1739.5	1545.5	1379.3	1228.4	1068.3	926.7	806.6	680.4	532.6	397.2
50°	2164.4	1902.7	1687.1	1484.0	1314.6	1148.4	985.2	855.9	726.6	572.6	421.8
47.5°	2389.1	2099.7	1828.8	1607.1	1407.0	1225.3	1052.9	899.0	769.7	609.6	446.4
45°	2650.8	2287.5	1988.9	1727.2	1496.3	1305.4	1120.7	945.2	806.6	646.5	471.0
42.5°	2903.2	2509.2	2155.1	1859.6	1597.9	1382.4	1182.2	994.4	843.6	683.5	492.6
40°	3201.9	2730.8	2315.2	1985.8	1699.5	1456.2	1243.8	1046.8	877.4	717.3	514.1
37.5°	3488.2	2955.6	2509.2	2124.3	1798.0	1530.1	1305.4	1096.0	908.2	751.2	541.9
35°	3771.5	3205.0	2693.9	2253.6	1899.6	1613.3	1367.0	1142.2	939.0	778.9	566.5
32.5°	4042.4	3438.9	2881.7	2398.3	2010.4	1690.2	1422.4	1185.3	969.8	803.6	591.1
30°	4294.8	3660.6	3066.4	2546.1	2112.0	1761.0	1474.7	1228.4	1006.7	825.1	615.7
27.5°	4525.7	3876.1	3251.1	2684.7	2207.5	1825.7	1530.1	1268.4	1037.5	846.7	637.3
25°	4735.1	4070.1	3420.5	2810.9	2293.7	1896.5	1582.5	1308.5	1065.2	865.1	655.8
22.5°	4932.1	4248.7	3574.4	2937.1	2398.3	1967.3	1631.7	1345.4	1093.0	883.6	674.2
20°	5104.5	4411.8	3722.2	3063.3	2490.7	2032.0	1674.8	1379.3	1117.6	895.9	692.7
17.5°	5243.1	4556.5	3854.6	3174.2	2570.7	2087.4	1711.8	1410.1	1139.1	911.3	705.0
15°	5366.2	4679.7	3965.4	3269.6	2641.6	2133.6	1745.6	1434.7	1157.6	920.5	720.4
12.5°	5470.9	4784.4	4060.9	3352.7	2703.1	2173.6	1773.4	1453.2	1173.0	929.8	729.7
10°	5557.1	4867.5	4140.9	3417.4	2752.4	2204.4	1794.9	1471.6	1185.3	939.0	738.9
7.5°	5621.8	4929.1	4199.4	3472.8	2792.4	2225.9	1813.4	1484.0	1197.6	945.2	754.3
5°	5671.0	4981.4	4245.6	3509.8	2823.2	2256.7	1834.9	1499.3	1209.9	951.3	754.3
2.5°	5708.0	5024.5	4282.5	3540.5	2847.8	2250.6	1834.9	1496.3	1209.9	951.3	751.2
0°	5701.8	5027.6	4279.4	3540.5	2847.8	2244.4	1834.9	1493.2	1209.9	951.3	751.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.6	15.4	6.2	0.0
85°	46.2	30.8	15.4	0.0
82.5°	67.7	43.1	21.6	0.0
80°	89.3	58.5	27.7	0.0
77.5°	113.9	73.9	36.9	0.0
75°	135.5	86.2	43.1	0.0
72.5°	157.0	101.6	49.3	0.0
70°	175.5	113.9	55.4	0.0
67.5°	194.0	129.3	64.7	0.0
65°	209.4	141.6	70.8	0.0
62.5°	221.7	157.0	77.0	0.0
60°	237.1	169.3	83.1	0.0
57.5°	249.4	178.6	89.3	0.0
55°	261.7	184.7	95.4	0.0
52.5°	274.0	194.0	101.6	0.0
50°	286.3	203.2	107.8	0.0
47.5°	298.6	209.4	110.8	0.0
45°	317.1	218.6	117.0	0.0
42.5°	332.5	224.7	123.1	0.0
40°	347.9	230.9	126.2	0.0
37.5°	363.3	237.1	132.4	0.0
35°	378.7	243.2	135.5	0.0
32.5°	391.0	249.4	138.5	0.0
30°	403.3	255.5	141.6	0.0
27.5°	415.6	258.6	144.7	0.0
25°	424.9	264.8	147.8	0.0
22.5°	434.1	267.9	150.9	0.0
20°	440.3	270.9	153.9	0.0
17.5°	449.5	274.0	157.0	0.0
15°	452.6	277.1	163.2	0.0
12.5°	458.7	280.2	163.2	0.0
10°	461.8	283.2	163.2	0.0
7.5°	468.0	283.2	163.2	0.0
5°	464.9	283.2	163.2	0.0
2.5°	464.9	283.2	163.2	0.0
0°	461.8	283.2	163.2	0.0

(END OF REPORT)