

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: P628186

Luminaire Tested: **IFLD-S-SA3C-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628186
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18231.2 lumens	Max Intensity:	5942.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	113.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

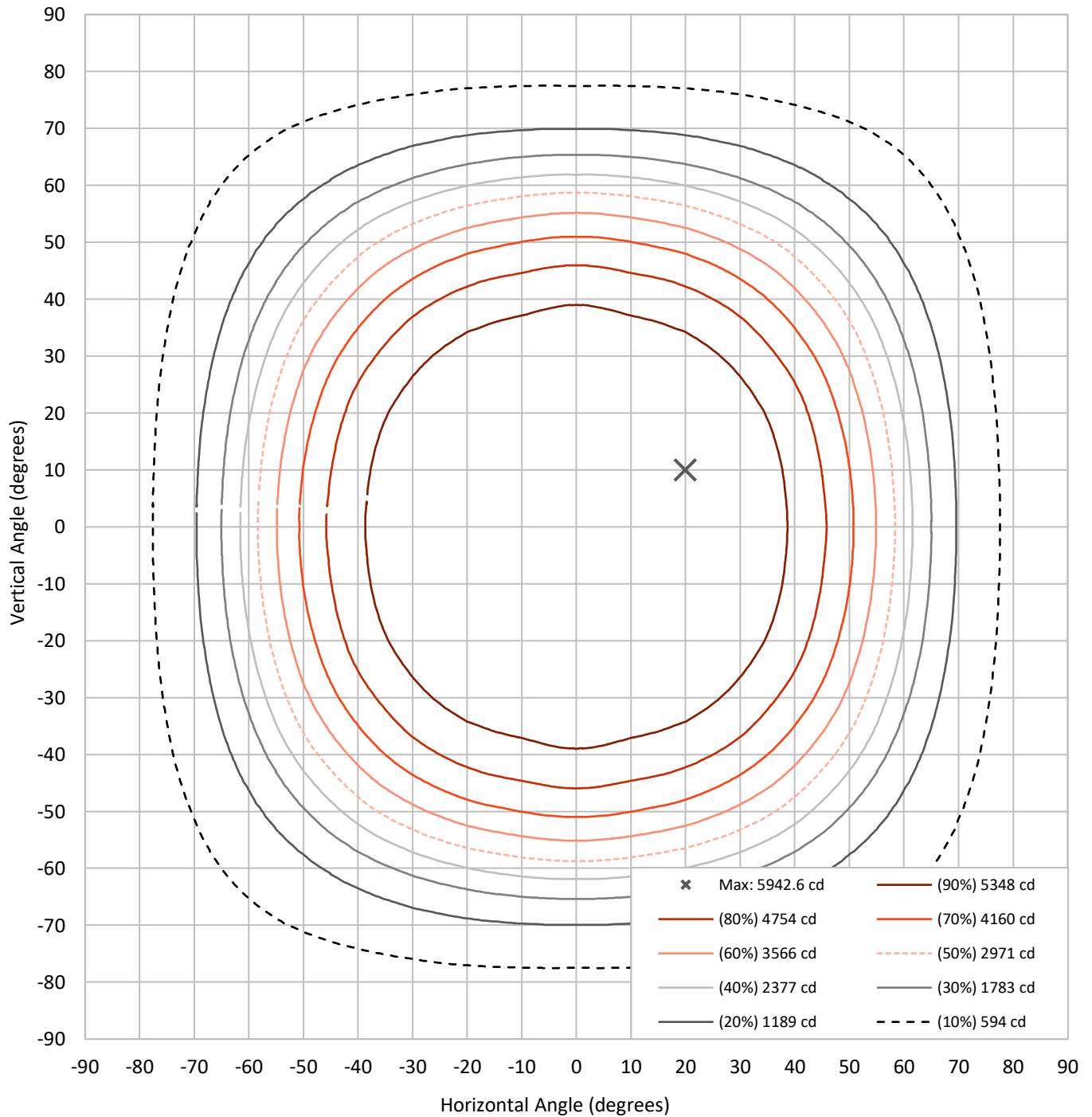
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	11187.1 lumens	Field Lumens:	13411.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 160.8
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



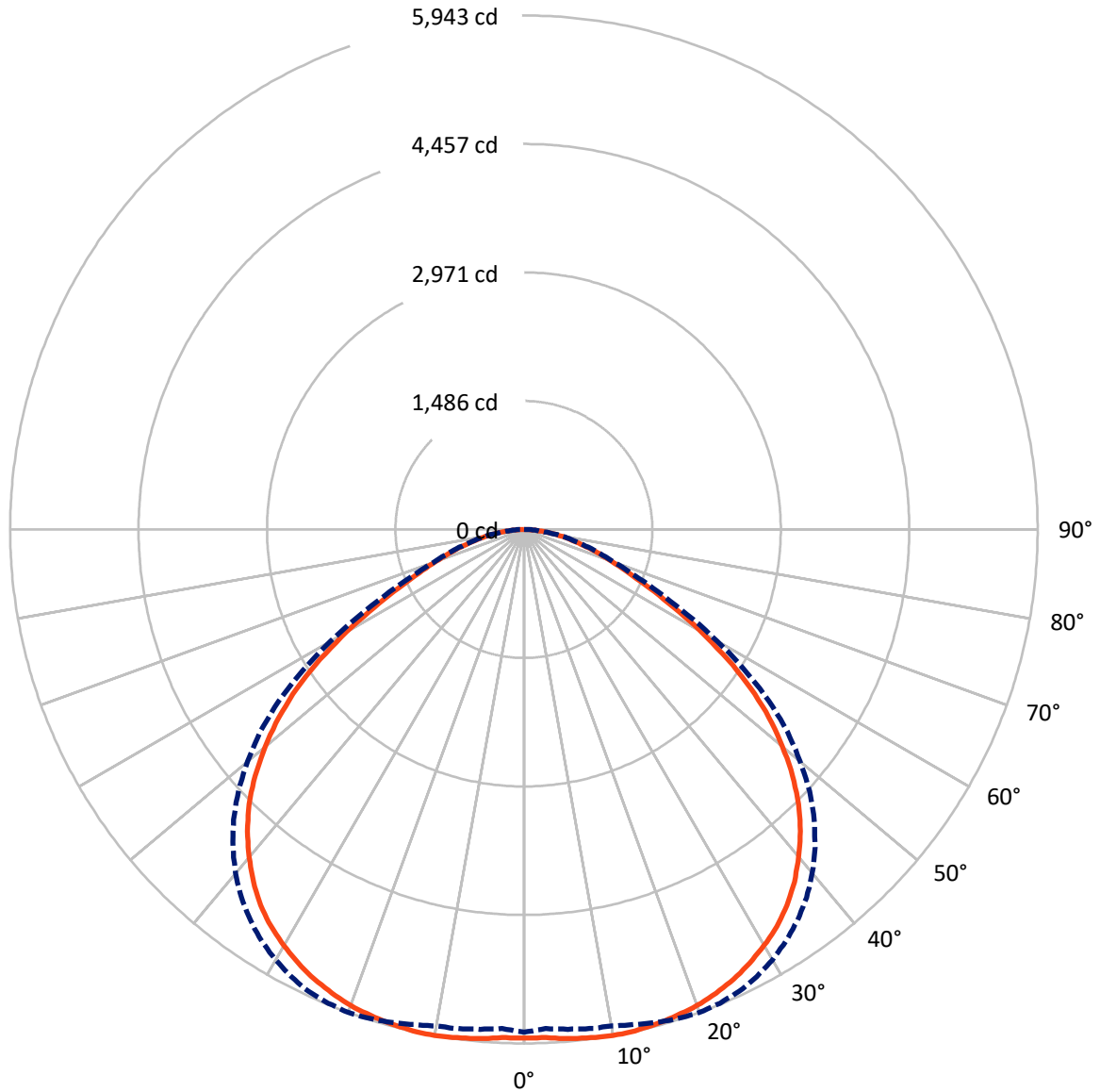
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Iso-Candela Plot



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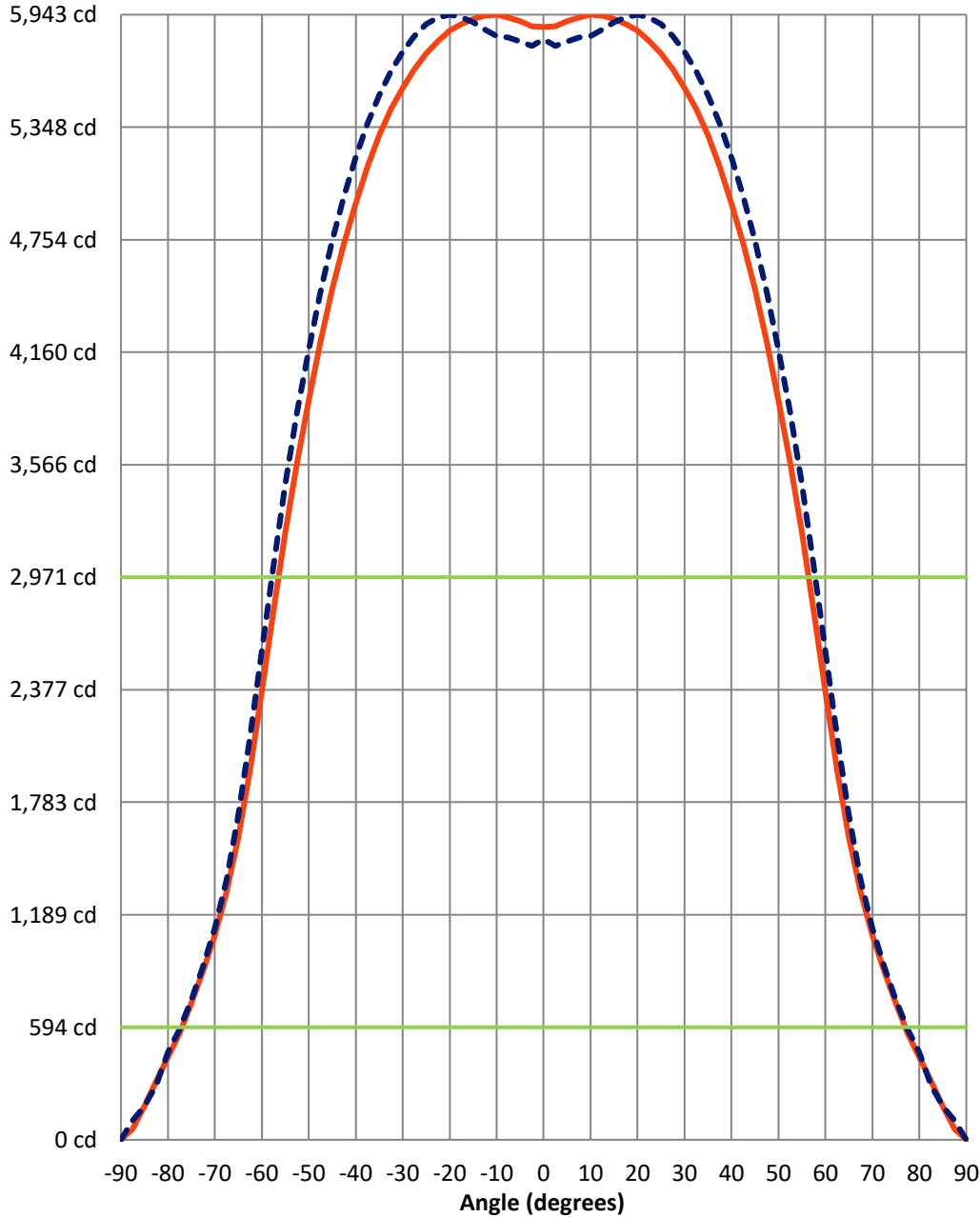
Luminous Intensity Polar Plot



— 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: 11187.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 13411.4
 Efficiency: 73.6%

Spill:
 Lumens: 4819.9
 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°	48.0	51.8	53.7	55.6	57.5	59.5	61.4	59.5	57.5	57.5	55.6
85°	128.5	132.4	134.3	147.7	161.1	168.8	178.4	176.5	176.5	174.6	172.6
82.5°	257.0	268.6	278.1	291.6	299.2	310.8	318.4	312.7	308.8	301.2	295.4
80°	456.5	460.4	462.3	464.2	454.6	452.7	448.9	443.1	435.4	425.8	416.3
77.5°	581.2	585.1	588.9	585.1	583.1	581.2	575.5	569.7	562.0	554.4	542.9
75°	769.2	769.2	769.2	763.5	759.6	753.9	744.3	734.7	721.3	705.9	688.6
72.5°	968.7	966.8	964.9	953.4	943.8	932.3	918.8	907.3	892.0	874.7	851.7
70°	1177.8	1181.6	1183.5	1168.2	1156.7	1141.3	1124.1	1103.0	1080.0	1055.0	1022.4
67.5°	1465.5	1461.7	1457.8	1436.7	1421.4	1400.3	1375.4	1344.7	1310.1	1271.8	1225.7
65°	1822.3	1828.1	1816.6	1795.5	1766.7	1732.2	1693.8	1649.7	1597.9	1540.3	1475.1
62.5°	2253.9	2263.5	2250.1	2223.2	2186.8	2140.7	2087.0	2023.7	1952.7	1872.2	1791.6
60°	2745.0	2743.1	2718.1	2681.7	2633.7	2576.2	2516.7	2447.7	2367.1	2273.1	2175.3
57.5°	3195.8	3191.9	3161.2	3124.8	3076.8	3015.4	2952.1	2879.3	2794.8	2695.1	2581.9
55°	3600.5	3596.7	3566.0	3527.6	3477.7	3416.4	3358.8	3289.7	3207.3	3101.8	2980.9
52.5°	3959.2	3961.1	3934.3	3892.1	3838.4	3778.9	3723.3	3654.2	3575.6	3470.1	3353.1
50°	4289.1	4287.2	4258.5	4220.1	4170.2	4112.7	4057.0	3988.0	3905.5	3803.8	3690.7
47.5°	4596.1	4592.2	4559.6	4517.4	4465.6	4415.7	4364.0	4302.6	4216.3	4114.6	4001.4
45°	4853.1	4845.4	4812.8	4772.5	4722.7	4678.5	4632.5	4586.5	4494.4	4400.4	4293.0
42.5°	5073.7	5071.8	5039.2	4998.9	4949.0	4910.6	4868.4	4810.9	4734.2	4647.9	4542.3
40°	5284.7	5269.4	5236.7	5198.4	5152.3	5119.7	5077.5	5020.0	4945.2	4860.8	4759.1
37.5°	5442.0	5443.9	5409.4	5367.2	5326.9	5296.2	5257.8	5204.1	5138.9	5056.4	4954.8
35°	5591.6	5582.0	5553.3	5516.8	5480.4	5445.8	5405.5	5359.5	5305.8	5229.1	5133.2
32.5°	5689.4	5702.9	5668.3	5630.0	5608.9	5582.0	5539.8	5491.9	5443.9	5367.2	5280.9
30°	5796.9	5785.4	5758.5	5725.9	5710.5	5693.3	5656.8	5610.8	5555.2	5486.1	5405.5
27.5°	5871.7	5865.9	5833.3	5802.6	5794.9	5779.6	5750.8	5710.5	5654.9	5587.8	5513.0
25°	5904.3	5908.1	5877.4	5860.2	5860.2	5850.6	5827.6	5793.0	5737.4	5676.0	5603.1
22.5°	5919.6	5915.8	5894.7	5890.9	5900.4	5892.8	5883.2	5852.5	5802.6	5752.7	5691.4
20°	5929.2	5902.4	5883.2	5898.5	5910.0	5908.1	5900.4	5881.3	5858.2	5816.0	5762.3
17.5°	5908.1	5890.9	5867.8	5890.9	5915.8	5917.7	5910.0	5898.5	5892.8	5865.9	5818.0
15°	5856.3	5842.9	5846.7	5869.8	5898.5	5908.1	5913.9	5927.3	5919.6	5898.5	5856.3
12.5°	5821.8	5804.5	5821.8	5844.8	5860.2	5865.9	5912.0	5936.9	5936.9	5917.7	5890.9
10°	5812.2	5777.7	5800.7	5821.8	5829.5	5864.0	5902.4	5929.2	5942.6	5927.3	5892.8
7.5°	5793.0	5770.0	5779.6	5789.2	5833.3	5858.2	5879.3	5908.1	5927.3	5925.4	5894.7
5°	5783.4	5754.7	5758.5	5798.8	5829.5	5846.7	5854.4	5879.3	5908.1	5913.9	5890.9
2.5°	5758.5	5745.1	5773.8	5777.7	5800.7	5814.1	5821.8	5844.8	5881.3	5894.7	5885.1
0°	5745.1	5725.9	5706.7	5722.1	5760.4	5789.2	5800.7	5835.2	5877.4	5890.9	5869.8



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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°	53.7	51.8	49.9	48.0	49.9	49.9	49.9	48.0	49.9	48.0	48.0
85°	166.9	159.2	153.5	145.8	138.1	132.4	124.7	117.0	115.1	113.2	109.3
82.5°	287.7	278.1	268.6	257.0	245.5	232.1	218.7	203.3	199.5	195.7	189.9
80°	404.7	391.3	377.9	364.5	353.0	339.5	324.2	306.9	295.4	285.8	274.3
77.5°	527.5	508.3	489.1	466.1	452.7	439.3	423.9	406.7	389.4	374.1	356.8
75°	667.5	646.4	627.3	604.2	579.3	554.4	529.4	506.4	481.5	458.5	435.4
72.5°	822.9	792.2	761.5	732.8	702.1	671.4	638.8	608.1	577.4	546.7	514.1
70°	986.0	947.6	909.2	870.9	830.6	790.3	751.9	713.6	675.2	634.9	598.5
67.5°	1177.8	1133.7	1083.8	1030.1	970.6	918.8	869.0	822.9	776.9	730.8	684.8
65°	1417.6	1356.2	1289.0	1216.2	1147.1	1078.0	1005.1	936.1	882.4	828.7	776.9
62.5°	1713.0	1626.7	1532.7	1438.7	1354.3	1264.1	1179.7	1089.5	1005.1	928.4	865.1
60°	2065.9	1948.9	1833.8	1713.0	1596.0	1473.2	1365.8	1254.5	1149.0	1055.0	962.9
57.5°	2455.3	2319.1	2181.0	2033.3	1874.1	1730.2	1584.5	1438.7	1314.0	1189.3	1085.7
55°	2850.5	2706.6	2551.2	2384.3	2209.8	2025.6	1828.1	1665.0	1494.3	1348.5	1214.2
52.5°	3226.4	3076.8	2915.7	2762.2	2553.2	2342.1	2125.4	1910.5	1711.1	1525.0	1361.9
50°	3562.1	3416.4	3261.0	3082.6	2888.8	2664.4	2422.7	2181.0	1945.1	1726.4	1523.1
47.5°	3869.1	3727.1	3571.7	3393.3	3216.9	2967.5	2723.9	2457.2	2194.4	1943.2	1705.3
45°	4156.8	4012.9	3851.8	3681.1	3477.7	3255.2	3003.9	2735.4	2453.4	2171.4	1897.1
42.5°	4417.7	4273.8	4110.7	3934.3	3732.9	3512.3	3268.6	2998.2	2714.3	2407.4	2106.2
40°	4645.9	4505.9	4348.6	4164.5	3976.5	3744.4	3504.6	3247.5	2954.1	2645.2	2313.4
37.5°	4845.4	4715.0	4559.6	4377.4	4177.9	3970.7	3723.3	3466.2	3201.5	2865.8	2526.3
35°	5021.9	4901.1	4741.8	4569.2	4373.5	4154.9	3922.8	3671.5	3385.7	3071.1	2741.1
32.5°	5175.4	5052.6	4906.8	4734.2	4544.3	4339.0	4101.2	3848.0	3577.5	3257.1	2898.4
30°	5305.8	5186.9	5048.8	4885.7	4703.5	4500.1	4268.0	4012.9	3736.7	3418.3	3063.4
27.5°	5419.0	5305.8	5171.5	5020.0	4845.4	4649.8	4415.7	4158.7	3876.7	3569.8	3214.9
25°	5516.8	5407.5	5282.8	5138.9	4966.3	4774.5	4553.9	4285.3	4003.3	3694.5	3343.5
22.5°	5605.0	5499.5	5374.9	5234.8	5077.5	4885.7	4663.2	4396.6	4110.7	3805.8	3460.5
20°	5683.7	5585.9	5463.1	5319.2	5161.9	4968.2	4747.6	4494.4	4206.7	3907.4	3566.0
17.5°	5747.0	5660.7	5537.9	5386.4	5229.1	5041.1	4826.2	4594.1	4289.1	3993.7	3654.2
15°	5791.1	5706.7	5595.5	5442.0	5288.5	5102.5	4887.6	4647.9	4364.0	4062.8	3727.1
12.5°	5821.8	5731.6	5628.1	5486.1	5332.7	5148.5	4939.4	4703.5	4427.3	4124.2	3790.4
10°	5829.5	5747.0	5643.4	5516.8	5367.2	5188.8	4983.5	4749.5	4479.0	4172.1	3842.2
7.5°	5833.3	5754.7	5660.7	5539.8	5392.1	5219.5	5016.1	4786.0	4517.4	4212.4	3880.6
5°	5831.4	5756.6	5672.2	5555.2	5407.5	5236.7	5037.2	4810.9	4544.3	4239.3	3909.3
2.5°	5825.6	5758.5	5679.9	5566.7	5424.7	5255.9	5058.3	4839.7	4573.0	4262.3	3932.4
0°	5841.0	5783.4	5683.7	5562.8	5428.6	5255.9	5056.4	4843.5	4576.9	4260.4	3930.4



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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°	48.0	46.0	46.0	44.1	42.2	40.3	36.4	34.5	30.7	24.9	19.2
85°	103.6	97.8	92.1	88.2	84.4	80.6	74.8	69.1	61.4	49.9	38.4
82.5°	182.2	170.7	159.2	145.8	134.3	122.8	113.2	103.6	92.1	74.8	57.5
80°	260.9	243.6	226.4	207.2	189.9	170.7	153.5	138.1	122.8	99.7	76.7
77.5°	339.5	316.5	291.6	268.6	243.6	218.7	193.7	172.6	149.6	122.8	95.9
75°	412.4	385.6	362.5	329.9	299.2	266.6	234.0	205.2	176.5	143.9	115.1
72.5°	485.3	450.8	418.2	387.5	353.0	312.7	276.2	239.8	203.3	165.0	130.4
70°	558.2	516.0	475.7	439.3	400.9	360.6	316.5	274.3	230.2	184.1	143.9
67.5°	633.0	585.1	539.0	493.0	448.9	402.8	356.8	308.8	257.0	203.3	159.2
65°	715.5	656.0	600.4	548.6	496.8	446.9	395.2	343.4	285.8	224.4	172.6
62.5°	798.0	732.8	667.5	602.3	544.8	489.1	433.5	376.0	312.7	247.5	186.1
60°	886.2	811.4	736.6	663.7	592.7	531.3	470.0	408.6	341.4	268.6	199.5
57.5°	984.0	893.9	809.5	727.0	646.4	573.5	506.4	441.2	366.4	289.7	214.8
55°	1095.3	984.0	884.3	792.2	704.0	615.7	542.9	475.7	395.2	310.8	232.1
52.5°	1212.3	1083.8	962.9	859.4	765.4	665.6	577.4	502.6	423.9	331.9	247.5
50°	1348.5	1185.5	1051.2	924.6	819.1	715.5	613.8	533.3	452.7	356.8	262.8
47.5°	1488.5	1308.2	1139.4	1001.3	876.6	763.5	656.0	560.1	479.6	379.8	278.1
45°	1651.6	1425.2	1239.2	1076.1	932.3	813.3	698.2	588.9	502.6	402.8	293.5
42.5°	1808.9	1563.4	1342.8	1158.6	995.6	861.3	736.6	619.6	525.6	425.8	306.9
40°	1995.0	1701.5	1442.5	1237.3	1058.9	907.3	775.0	652.2	546.7	446.9	320.3
37.5°	2173.3	1841.5	1563.4	1323.6	1120.2	953.4	813.3	682.9	565.9	468.0	337.6
35°	2349.8	1996.9	1678.4	1404.1	1183.5	1005.1	851.7	711.7	585.1	485.3	353.0
32.5°	2518.6	2142.7	1795.5	1494.3	1252.6	1053.1	886.2	738.5	604.2	500.7	368.3
30°	2675.9	2280.8	1910.5	1586.4	1315.9	1097.2	918.8	765.4	627.3	514.1	383.6
27.5°	2819.8	2415.0	2025.6	1672.7	1375.4	1137.5	953.4	790.3	646.4	527.5	397.1
25°	2950.2	2535.9	2131.1	1751.3	1429.1	1181.6	986.0	815.2	663.7	539.0	408.6
22.5°	3073.0	2647.1	2227.1	1830.0	1494.3	1225.7	1016.7	838.3	681.0	550.5	420.1
20°	3180.4	2748.8	2319.1	1908.6	1551.8	1266.0	1043.5	859.4	696.3	558.2	431.6
17.5°	3266.7	2839.0	2401.6	1977.7	1601.7	1300.6	1066.5	878.5	709.7	567.8	439.3
15°	3343.5	2915.7	2470.7	2037.2	1645.8	1329.3	1087.6	893.9	721.3	573.5	448.9
12.5°	3408.7	2980.9	2530.1	2088.9	1684.2	1354.3	1104.9	905.4	730.8	579.3	454.6
10°	3462.4	3032.7	2580.0	2129.2	1714.9	1373.4	1118.3	916.9	738.5	585.1	460.4
7.5°	3502.7	3071.1	2616.5	2163.8	1739.8	1386.9	1129.8	924.6	746.2	588.9	470.0
5°	3533.4	3103.7	2645.2	2186.8	1759.0	1406.1	1143.3	934.2	753.9	592.7	470.0
2.5°	3556.4	3130.5	2668.2	2206.0	1774.4	1402.2	1143.3	932.3	753.9	592.7	468.0
0°	3552.5	3132.5	2666.3	2206.0	1774.4	1398.4	1143.3	930.3	753.9	592.7	468.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.4	9.6	3.8	0.0
85°	28.8	19.2	9.6	0.0
82.5°	42.2	26.9	13.4	0.0
80°	55.6	36.4	17.3	0.0
77.5°	71.0	46.0	23.0	0.0
75°	84.4	53.7	26.9	0.0
72.5°	97.8	63.3	30.7	0.0
70°	109.3	71.0	34.5	0.0
67.5°	120.8	80.6	40.3	0.0
65°	130.4	88.2	44.1	0.0
62.5°	138.1	97.8	48.0	0.0
60°	147.7	105.5	51.8	0.0
57.5°	155.4	111.3	55.6	0.0
55°	163.0	115.1	59.5	0.0
52.5°	170.7	120.8	63.3	0.0
50°	178.4	126.6	67.1	0.0
47.5°	186.1	130.4	69.1	0.0
45°	197.6	136.2	72.9	0.0
42.5°	207.2	140.0	76.7	0.0
40°	216.8	143.9	78.6	0.0
37.5°	226.4	147.7	82.5	0.0
35°	235.9	151.5	84.4	0.0
32.5°	243.6	155.4	86.3	0.0
30°	251.3	159.2	88.2	0.0
27.5°	259.0	161.1	90.2	0.0
25°	264.7	165.0	92.1	0.0
22.5°	270.5	166.9	94.0	0.0
20°	274.3	168.8	95.9	0.0
17.5°	280.1	170.7	97.8	0.0
15°	282.0	172.6	101.7	0.0
12.5°	285.8	174.6	101.7	0.0
10°	287.7	176.5	101.7	0.0
7.5°	291.6	176.5	101.7	0.0
5°	289.7	176.5	101.7	0.0
2.5°	289.7	176.5	101.7	0.0
0°	287.7	176.5	101.7	0.0

(END OF REPORT)