

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: P628301

Luminaire Tested: **IFLD-S-SA3B-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

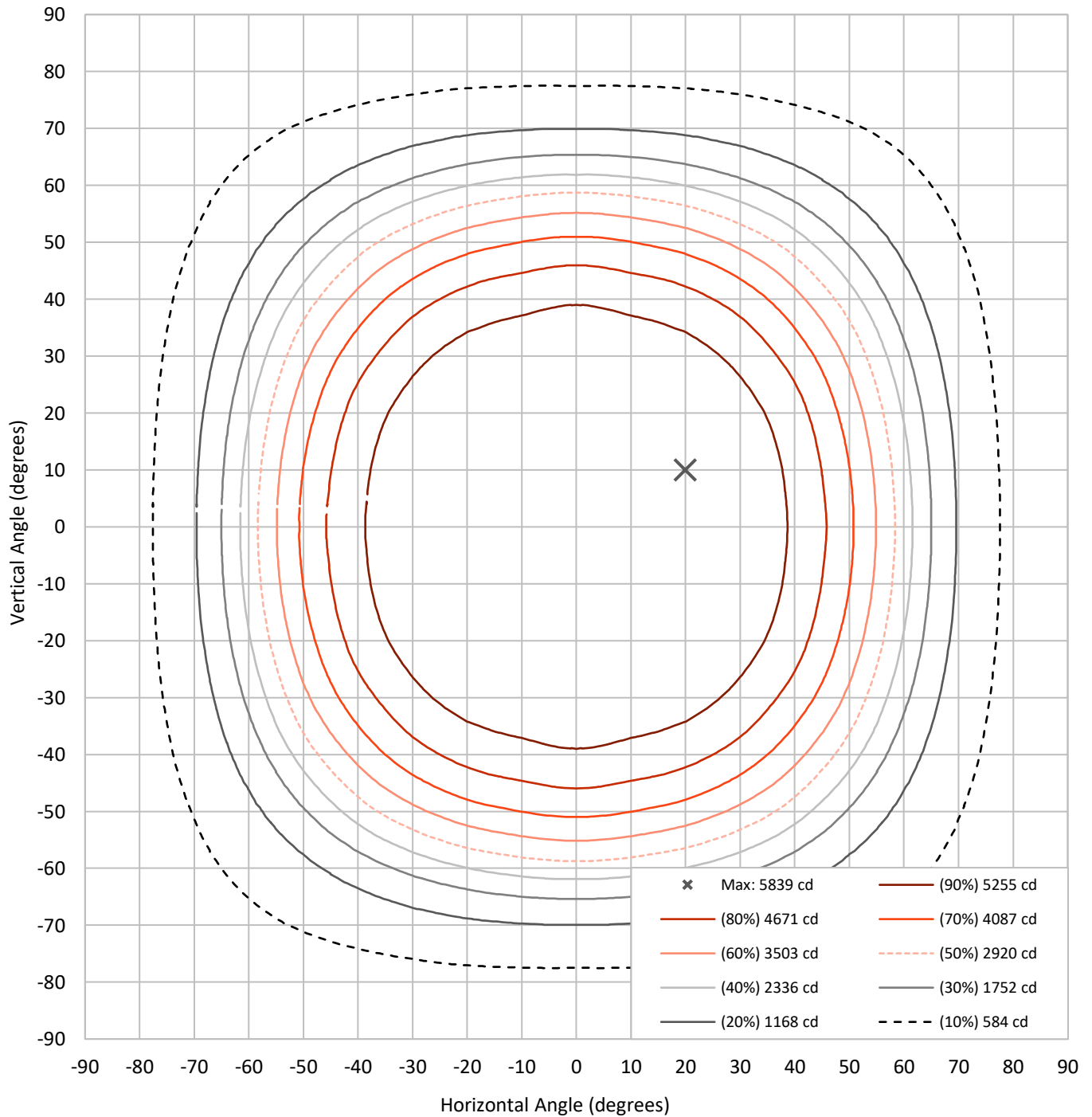
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17913.3 lumens	Max Intensity:	5839 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	146.4 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:	10992 lumens	Field Lumens:	13177.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	122.4		
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		



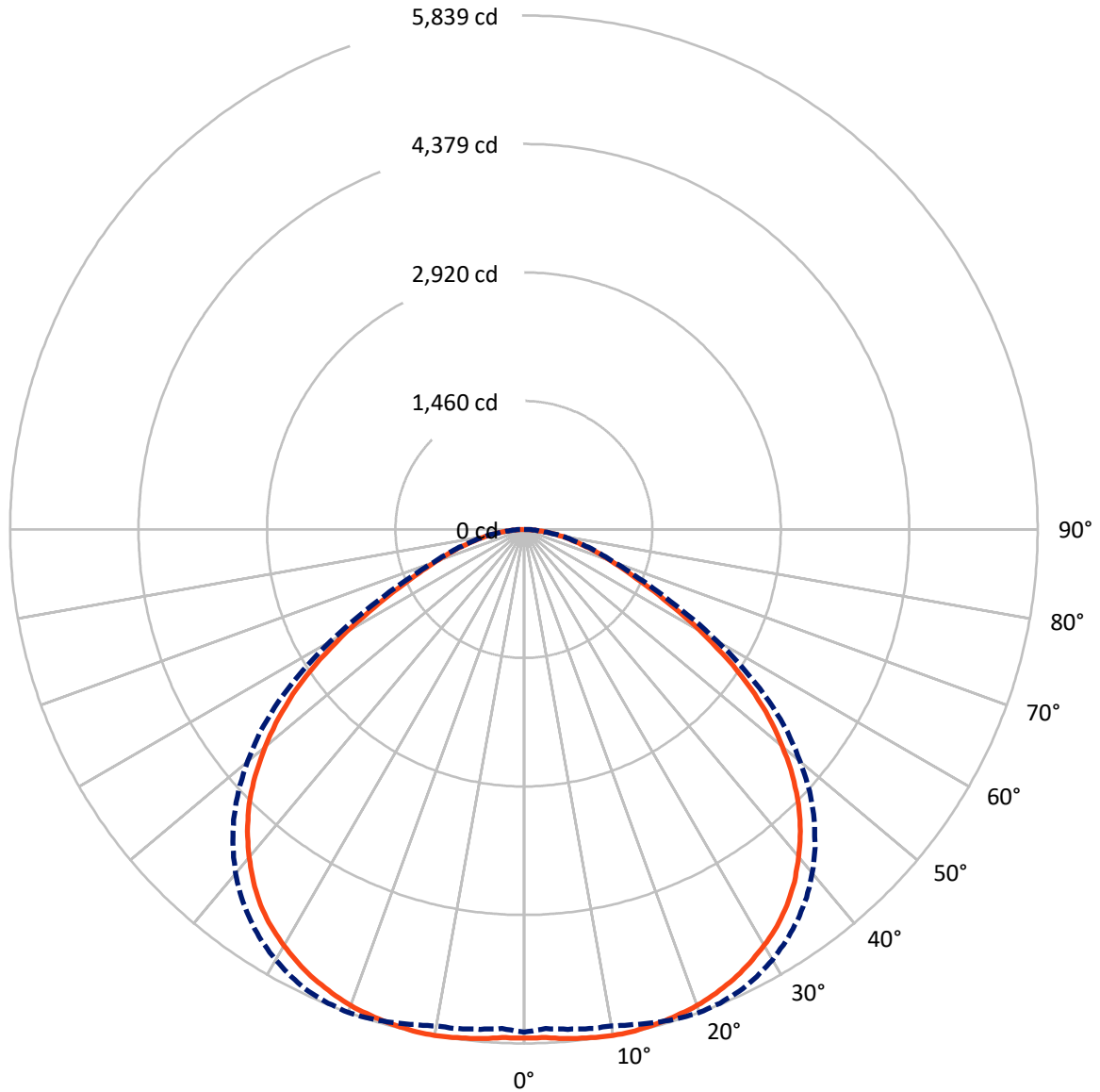
REPORT NUMBER: P628301
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Iso-Candela Plot



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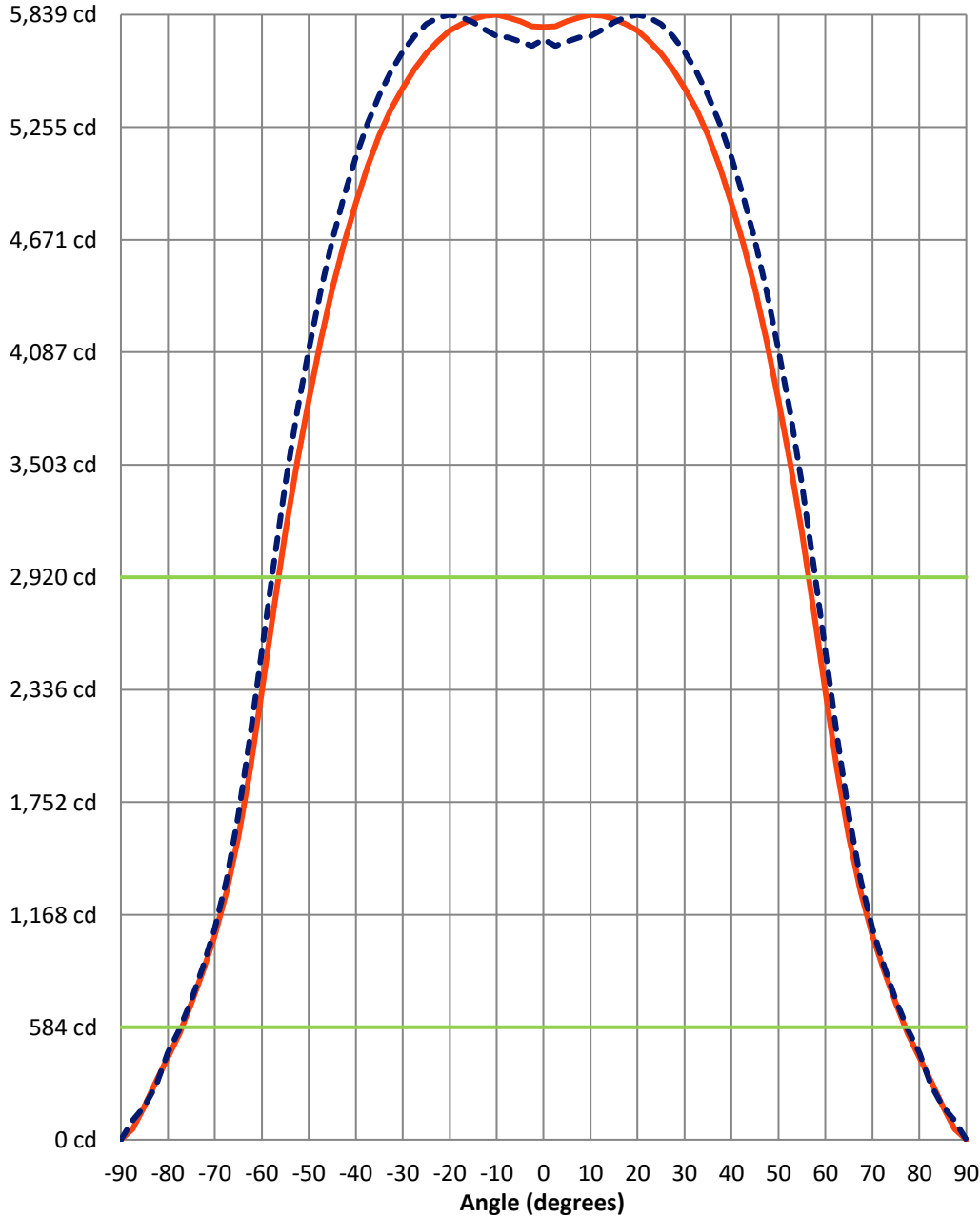
Luminous Intensity Polar Plot



— 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: 10992
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 13177.5
 Efficiency: 73.6%

Spill:
 Lumens: 4735.8
 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°	47.1	50.9	52.8	54.7	56.5	58.4	60.3	58.4	56.5	54.7	54.7
85°	126.3	130.0	131.9	145.1	158.3	165.9	175.3	173.4	171.5	169.6	169.6
82.5°	252.6	263.9	273.3	286.5	294.0	305.3	312.9	307.2	295.9	290.3	290.3
80°	448.6	452.3	454.2	456.1	446.7	444.8	441.0	435.4	418.4	409.0	409.0
77.5°	571.1	574.9	578.6	574.9	573.0	571.1	565.4	559.8	544.7	533.4	533.4
75°	755.8	755.8	755.8	750.1	746.4	740.7	731.3	721.9	693.6	676.6	676.6
72.5°	951.8	949.9	948.0	936.7	927.3	916.0	902.8	891.5	859.5	836.8	836.8
70°	1157.2	1161.0	1162.9	1147.8	1136.5	1121.4	1104.5	1083.7	1036.6	1004.6	1004.6
67.5°	1440.0	1436.2	1432.4	1411.7	1396.6	1375.9	1351.4	1321.2	1249.6	1204.4	1204.4
65°	1790.5	1796.2	1784.9	1764.1	1735.9	1701.9	1664.2	1620.9	1513.5	1449.4	1449.4
62.5°	2214.6	2224.0	2210.8	2184.4	2148.6	2103.4	2050.6	1988.4	1839.5	1760.4	1760.4
60°	2697.1	2695.2	2670.7	2634.9	2587.8	2531.2	2472.8	2405.0	2233.4	2137.3	2137.3
57.5°	3140.0	3136.2	3106.1	3070.3	3023.2	2962.9	2900.7	2829.0	2648.1	2536.9	2536.9
55°	3537.7	3533.9	3503.8	3466.1	3417.1	3356.8	3300.2	3232.4	3047.7	2928.9	2928.9
52.5°	3890.2	3892.0	3865.7	3824.2	3771.4	3713.0	3658.3	3590.5	3409.5	3294.6	3294.6
50°	4214.3	4212.5	4184.2	4146.5	4097.5	4040.9	3986.3	3918.4	3737.5	3626.3	3626.3
47.5°	4515.9	4512.1	4480.1	4438.6	4387.7	4338.7	4287.8	4227.5	4042.8	3931.6	3931.6
45°	4768.5	4760.9	4728.9	4689.3	4640.3	4596.9	4551.7	4506.5	4323.7	4218.1	4218.1
42.5°	4985.2	4983.3	4951.3	4911.7	4862.7	4825.0	4783.5	4727.0	4566.8	4463.1	4463.1
40°	5192.5	5177.5	5145.4	5107.7	5062.5	5030.4	4989.0	4932.4	4776.0	4676.1	4676.1
37.5°	5347.1	5349.0	5315.0	5273.6	5234.0	5203.8	5166.1	5113.4	4968.2	4868.3	4868.3
35°	5494.1	5484.7	5456.4	5420.6	5384.8	5350.8	5311.3	5266.0	5137.9	5043.6	5043.6
32.5°	5590.2	5603.4	5569.5	5531.8	5511.1	5484.7	5443.2	5396.1	5273.6	5188.8	5188.8
30°	5695.8	5684.5	5658.1	5626.0	5610.9	5594.0	5558.2	5512.9	5390.4	5311.3	5311.3
27.5°	5769.3	5763.6	5731.6	5701.4	5693.9	5678.8	5650.5	5610.9	5490.3	5416.8	5416.8
25°	5801.3	5805.1	5774.9	5758.0	5758.0	5748.5	5725.9	5692.0	5577.0	5505.4	5505.4
22.5°	5816.4	5812.6	5791.9	5788.1	5797.5	5790.0	5780.6	5750.4	5652.4	5592.1	5592.1
20°	5825.8	5799.4	5780.6	5795.7	5807.0	5805.1	5797.5	5778.7	5714.6	5661.8	5661.8
17.5°	5805.1	5788.1	5765.5	5788.1	5812.6	5814.5	5807.0	5795.7	5763.6	5716.5	5716.5
15°	5754.2	5741.0	5744.8	5767.4	5795.7	5805.1	5810.7	5823.9	5795.7	5754.2	5754.2
12.5°	5720.3	5703.3	5720.3	5742.9	5758.0	5763.6	5808.8	5833.3	5814.5	5788.1	5788.1
10°	5710.8	5676.9	5699.5	5720.3	5727.8	5761.7	5799.4	5825.8	5839.0	5823.9	5790.0
7.5°	5692.0	5669.4	5678.8	5688.2	5731.6	5756.1	5776.8	5805.1	5823.9	5822.0	5791.9
5°	5682.6	5654.3	5658.1	5697.6	5727.8	5744.8	5752.3	5776.8	5805.1	5810.7	5788.1
2.5°	5658.1	5644.9	5673.1	5676.9	5699.5	5712.7	5720.3	5742.9	5778.7	5791.9	5782.5
0°	5644.9	5626.0	5607.2	5622.3	5660.0	5688.2	5699.5	5733.5	5774.9	5788.1	5767.4



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 CATALOG NUMBER: IFLD-S-SA3B-750-U-LAM

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°	52.8	50.9	49.0	47.1	49.0	49.0	49.0	47.1	49.0	47.1	47.1
85°	164.0	156.4	150.8	143.2	135.7	130.0	122.5	115.0	113.1	111.2	107.4
82.5°	282.7	273.3	263.9	252.6	241.2	228.1	214.9	199.8	196.0	192.2	186.6
80°	397.7	384.5	371.3	358.1	346.8	333.6	318.5	301.6	290.3	280.8	269.5
77.5°	518.3	499.5	480.6	458.0	444.8	431.6	416.5	399.6	382.6	367.5	350.6
75°	655.9	635.2	616.3	593.7	569.2	544.7	520.2	497.6	473.1	450.5	427.8
72.5°	808.6	778.4	748.3	720.0	689.8	659.7	627.6	597.5	567.3	537.2	505.1
70°	968.8	931.1	893.4	855.7	816.1	776.5	738.8	701.1	663.4	623.9	588.0
67.5°	1157.2	1113.9	1064.9	1012.1	953.7	902.8	853.8	808.6	763.3	718.1	672.9
65°	1392.8	1332.5	1266.6	1194.9	1127.1	1059.2	987.6	919.8	867.0	814.2	763.3
62.5°	1683.1	1598.3	1505.9	1413.6	1330.6	1242.1	1159.1	1070.5	987.6	912.2	850.0
60°	2029.9	1914.9	1801.8	1683.1	1568.1	1447.5	1342.0	1232.6	1129.0	1036.6	946.2
57.5°	2412.5	2278.7	2143.0	1997.9	1841.4	1700.1	1556.8	1413.6	1291.1	1168.6	1066.8
55°	2800.8	2659.4	2506.7	2342.8	2171.2	1990.3	1796.2	1636.0	1468.2	1325.0	1193.1
52.5°	3170.2	3023.2	2864.8	2714.1	2508.6	2301.3	2088.3	1877.2	1681.2	1498.4	1338.2
50°	3500.0	3356.8	3204.1	3028.8	2838.5	2617.9	2380.5	2143.0	1911.2	1696.3	1496.5
47.5°	3801.6	3662.1	3509.4	3334.1	3160.8	2915.7	2676.4	2414.4	2156.2	1909.3	1675.6
45°	4084.3	3942.9	3784.6	3616.9	3417.1	3198.4	2951.5	2687.7	2410.6	2133.6	1864.0
42.5°	4340.6	4199.3	4039.1	3865.7	3667.8	3451.0	3211.6	2945.9	2666.9	2365.4	2069.5
40°	4564.9	4427.3	4272.8	4091.8	3907.1	3679.1	3443.5	3190.9	2902.5	2599.1	2273.0
37.5°	4760.9	4632.8	4480.1	4301.0	4105.0	3901.5	3658.3	3405.8	3145.7	2815.8	2482.2
35°	4934.3	4815.6	4659.1	4489.5	4297.3	4082.4	3854.3	3607.4	3326.6	3017.5	2693.3
32.5°	5085.1	4964.5	4821.2	4651.6	4465.0	4263.3	4029.6	3780.8	3515.1	3200.3	2847.9
30°	5213.3	5096.4	4960.7	4800.5	4621.4	4421.7	4193.6	3942.9	3671.5	3358.7	3010.0
27.5°	5324.5	5213.3	5081.3	4932.4	4760.9	4568.7	4338.7	4086.2	3809.1	3507.5	3158.9
25°	5420.6	5313.2	5190.6	5049.3	4879.7	4691.2	4474.4	4210.6	3933.5	3630.1	3285.1
22.5°	5507.3	5403.6	5281.1	5143.5	4989.0	4800.5	4581.9	4319.9	4039.1	3739.4	3400.1
20°	5584.6	5488.4	5367.8	5226.5	5071.9	4881.5	4664.8	4416.0	4133.3	3839.3	3503.8
17.5°	5646.8	5561.9	5441.3	5292.4	5137.9	4953.2	4742.1	4514.0	4214.3	3924.1	3590.5
15°	5690.1	5607.2	5497.9	5347.1	5196.3	5013.5	4802.4	4566.8	4287.8	3991.9	3662.1
12.5°	5720.3	5631.7	5529.9	5390.4	5239.6	5058.7	4853.3	4621.4	4350.0	4052.2	3724.3
10°	5727.8	5646.8	5545.0	5420.6	5273.6	5098.3	4896.6	4666.7	4400.9	4099.4	3775.2
7.5°	5731.6	5654.3	5561.9	5443.2	5298.1	5128.4	4928.7	4702.5	4438.6	4138.9	3812.9
5°	5729.7	5656.2	5573.3	5458.3	5313.2	5145.4	4949.4	4727.0	4465.0	4165.3	3841.2
2.5°	5724.0	5658.1	5580.8	5469.6	5330.1	5164.3	4970.1	4755.3	4493.3	4187.9	3863.8
0°	5739.1	5682.6	5584.6	5465.8	5333.9	5164.3	4968.2	4759.0	4497.1	4186.1	3861.9



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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°	47.1	45.2	45.2	43.3	41.5	39.6	35.8	33.9	30.2	24.5	18.8
85°	101.8	96.1	90.5	86.7	82.9	79.2	73.5	67.9	60.3	49.0	37.7
82.5°	179.1	167.7	156.4	143.2	131.9	120.6	111.2	101.8	90.5	73.5	56.5
80°	256.3	239.4	222.4	203.6	186.6	167.7	150.8	135.7	120.6	98.0	75.4
77.5°	333.6	311.0	286.5	263.9	239.4	214.9	190.4	169.6	147.0	120.6	94.2
75°	405.2	378.8	356.2	324.2	294.0	262.0	229.9	201.7	173.4	141.4	113.1
72.5°	476.8	442.9	410.9	380.7	346.8	307.2	271.4	235.6	199.8	162.1	128.2
70°	548.5	507.0	467.4	431.6	393.9	354.3	311.0	269.5	226.2	180.9	141.4
67.5°	622.0	574.9	529.6	484.4	441.0	395.8	350.6	303.4	252.6	199.8	156.4
65°	703.0	644.6	589.9	539.0	488.2	439.2	388.3	337.4	280.8	220.5	169.6
62.5°	784.1	720.0	655.9	591.8	535.3	480.6	426.0	369.4	307.2	243.1	182.8
60°	870.8	797.3	723.7	652.1	582.4	522.1	461.8	401.5	335.5	263.9	196.0
57.5°	966.9	878.3	795.4	714.3	635.2	563.5	497.6	433.5	360.0	284.6	211.1
55°	1076.2	966.9	868.9	778.4	691.7	605.0	533.4	467.4	388.3	305.3	228.1
52.5°	1191.2	1064.9	946.2	844.4	752.0	654.0	567.3	493.8	416.5	326.1	243.1
50°	1325.0	1164.8	1032.9	908.5	804.8	703.0	603.1	524.0	444.8	350.6	258.2
47.5°	1462.6	1285.4	1119.6	983.8	861.3	750.1	644.6	550.4	471.2	373.2	273.3
45°	1622.8	1400.4	1217.6	1057.4	916.0	799.1	686.1	578.6	493.8	395.8	288.4
42.5°	1777.3	1536.1	1319.3	1138.4	978.2	846.3	723.7	608.8	516.4	418.4	301.6
40°	1960.2	1671.8	1417.3	1215.7	1040.4	891.5	761.4	640.8	537.2	439.2	314.8
37.5°	2135.4	1809.4	1536.1	1300.5	1100.7	936.7	799.1	671.0	556.0	459.9	331.7
35°	2308.8	1962.0	1649.2	1379.6	1162.9	987.6	836.8	699.2	574.9	476.8	346.8
32.5°	2474.7	2105.3	1764.1	1468.2	1230.8	1034.7	870.8	725.6	593.7	491.9	361.9
30°	2629.2	2241.0	1877.2	1558.7	1292.9	1078.1	902.8	752.0	616.3	505.1	377.0
27.5°	2770.6	2372.9	1990.3	1643.5	1351.4	1117.7	936.7	776.5	635.2	518.3	390.1
25°	2898.8	2491.7	2094.0	1720.8	1404.2	1161.0	968.8	801.0	652.1	529.6	401.5
22.5°	3019.4	2601.0	2188.2	1798.1	1468.2	1204.4	998.9	823.6	669.1	540.9	412.8
20°	3124.9	2700.9	2278.7	1875.3	1524.8	1243.9	1025.3	844.4	684.2	548.5	424.1
17.5°	3209.8	2789.5	2359.7	1943.2	1573.8	1277.9	1047.9	863.2	697.4	557.9	431.6
15°	3285.1	2864.8	2427.6	2001.6	1617.1	1306.1	1068.7	878.3	708.7	563.5	441.0
12.5°	3349.2	2928.9	2486.0	2052.5	1654.8	1330.6	1085.6	889.6	718.1	569.2	446.7
10°	3402.0	2979.8	2535.0	2092.1	1685.0	1349.5	1098.8	900.9	725.6	574.9	452.3
7.5°	3441.6	3017.5	2570.8	2126.0	1709.5	1362.7	1110.1	908.5	733.2	578.6	461.8
5°	3471.7	3049.6	2599.1	2148.6	1728.3	1381.5	1123.3	917.9	740.7	582.4	461.8
2.5°	3494.4	3075.9	2621.7	2167.5	1743.4	1377.8	1123.3	916.0	740.7	582.4	459.9
0°	3490.6	3077.8	2619.8	2167.5	1743.4	1374.0	1123.3	914.1	740.7	582.4	459.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.2	9.4	3.8	0.0
85°	28.3	18.8	9.4	0.0
82.5°	41.5	26.4	13.2	0.0
80°	54.7	35.8	17.0	0.0
77.5°	69.7	45.2	22.6	0.0
75°	82.9	52.8	26.4	0.0
72.5°	96.1	62.2	30.2	0.0
70°	107.4	69.7	33.9	0.0
67.5°	118.7	79.2	39.6	0.0
65°	128.2	86.7	43.3	0.0
62.5°	135.7	96.1	47.1	0.0
60°	145.1	103.7	50.9	0.0
57.5°	152.7	109.3	54.7	0.0
55°	160.2	113.1	58.4	0.0
52.5°	167.7	118.7	62.2	0.0
50°	175.3	124.4	66.0	0.0
47.5°	182.8	128.2	67.9	0.0
45°	194.1	133.8	71.6	0.0
42.5°	203.6	137.6	75.4	0.0
40°	213.0	141.4	77.3	0.0
37.5°	222.4	145.1	81.0	0.0
35°	231.8	148.9	82.9	0.0
32.5°	239.4	152.7	84.8	0.0
30°	246.9	156.4	86.7	0.0
27.5°	254.4	158.3	88.6	0.0
25°	260.1	162.1	90.5	0.0
22.5°	265.8	164.0	92.4	0.0
20°	269.5	165.9	94.2	0.0
17.5°	275.2	167.7	96.1	0.0
15°	277.1	169.6	99.9	0.0
12.5°	280.8	171.5	99.9	0.0
10°	282.7	173.4	99.9	0.0
7.5°	286.5	173.4	99.9	0.0
5°	284.6	173.4	99.9	0.0
2.5°	284.6	173.4	99.9	0.0
0°	282.7	173.4	99.9	0.0

(END OF REPORT)