

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: P628158

Luminaire Tested: **IFLD-S-SA3D-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628158  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

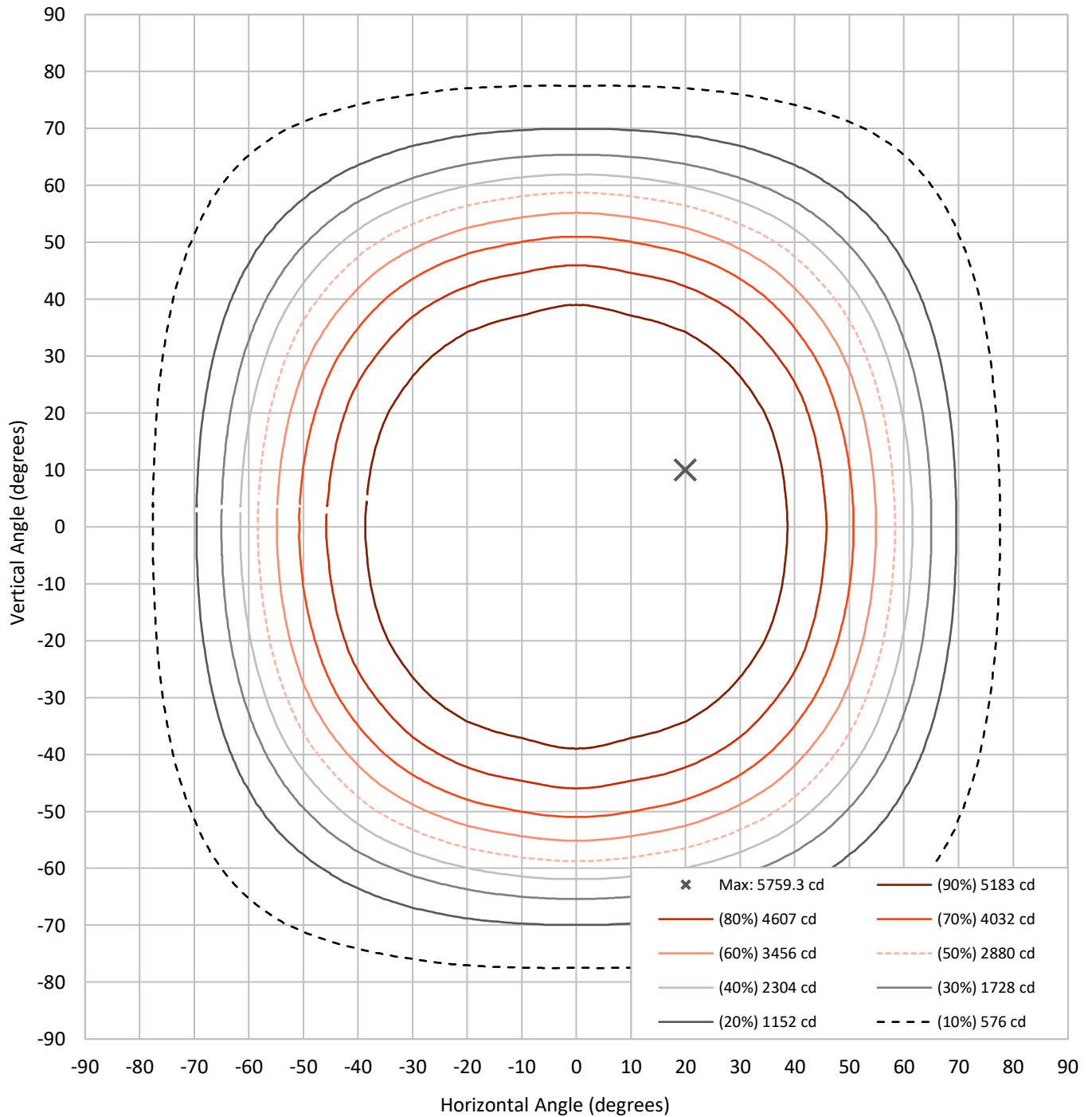
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17668.7 lumens	Max Intensity:	5759.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	96.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	10841.9 lumens	Field Lumens:	12997.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 184.1  
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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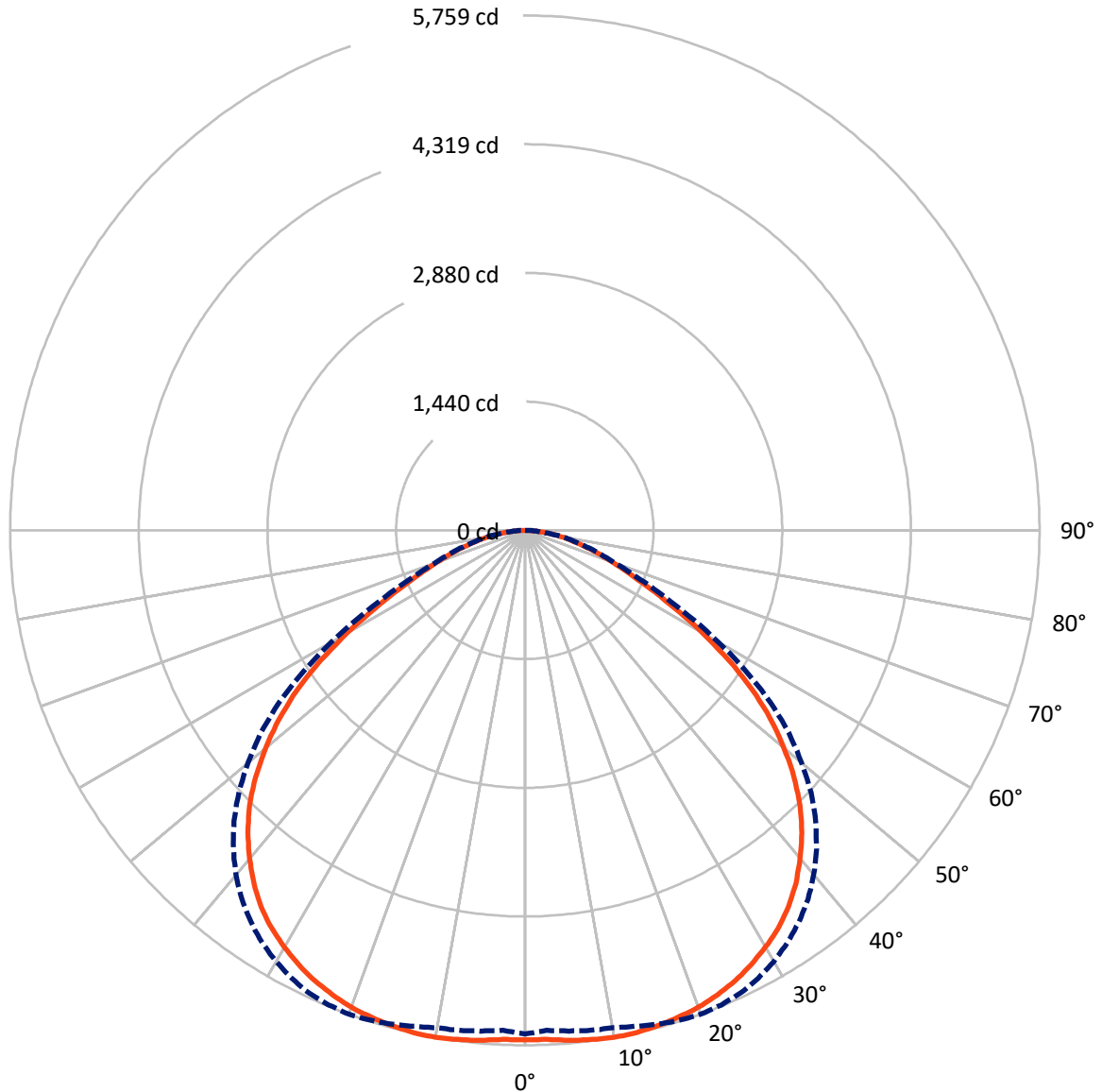
### Iso-Candela Plot





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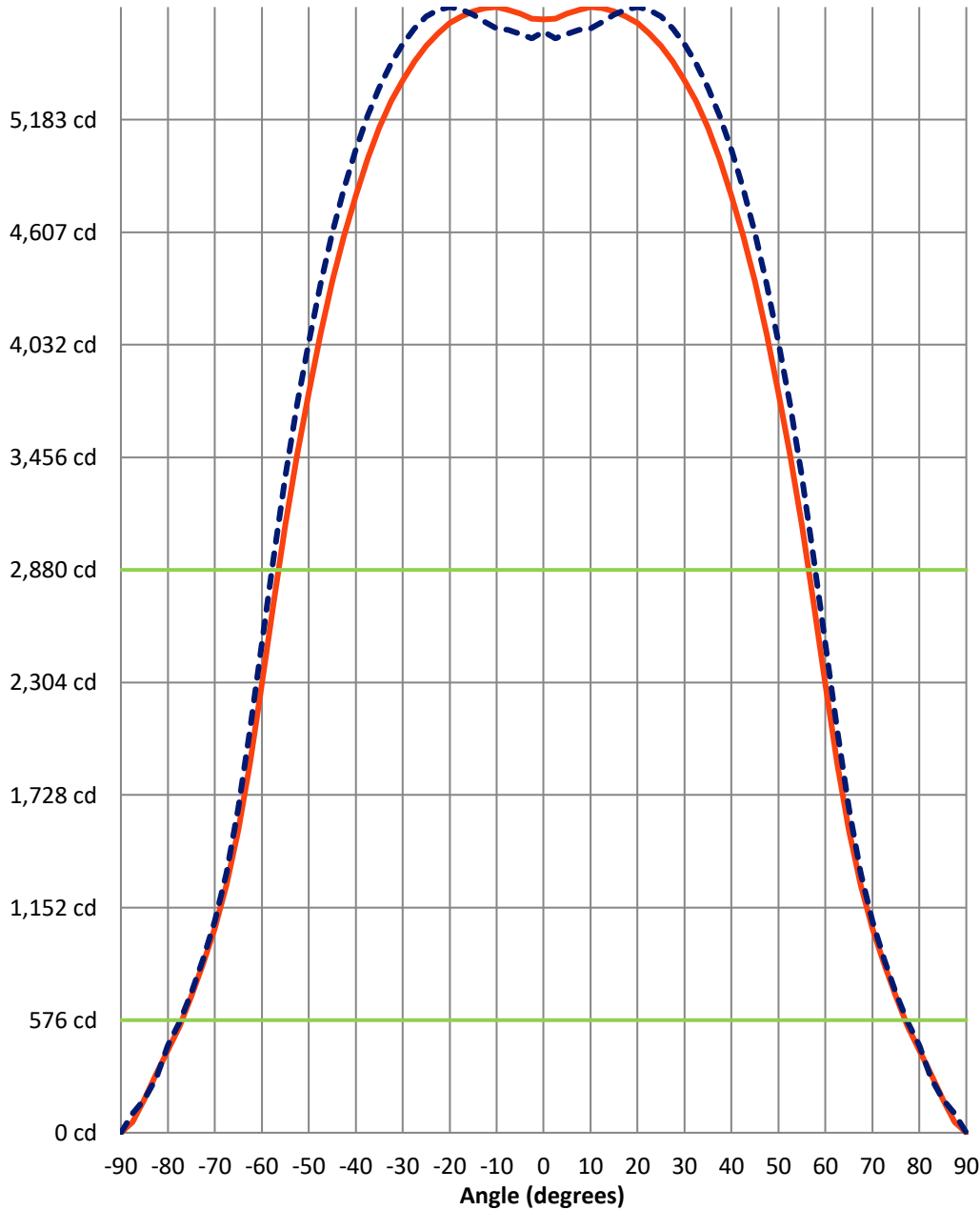
### Luminous Intensity Polar Plot



— 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: 10841.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 12997.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4671.1  
 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°	46.5	50.2	52.1	53.9	55.8	57.6	59.5	57.6	55.8	55.8	53.9
85°	124.6	128.3	130.1	143.1	156.2	163.6	172.9	171.0	171.0	169.2	167.3
82.5°	249.1	260.3	269.6	282.6	290.0	301.2	308.6	303.0	299.3	291.9	286.3
80°	442.5	446.2	448.0	449.9	440.6	438.7	435.0	429.4	422.0	412.7	403.4
77.5°	563.3	567.0	570.7	567.0	565.1	563.3	557.7	552.1	544.7	537.3	526.1
75°	745.5	745.5	745.5	739.9	736.2	730.6	721.3	712.0	699.0	684.1	667.4
72.5°	938.8	937.0	935.1	923.9	914.6	903.5	890.5	879.3	864.5	847.7	825.4
70°	1141.4	1145.2	1147.0	1132.2	1121.0	1106.1	1089.4	1068.9	1046.6	1022.5	990.9
67.5°	1420.3	1416.6	1412.9	1392.4	1377.5	1357.1	1332.9	1303.2	1269.7	1232.5	1187.9
65°	1766.1	1771.7	1760.5	1740.1	1712.2	1678.7	1641.5	1598.8	1548.6	1492.8	1429.6
62.5°	2184.4	2193.7	2180.7	2154.6	2119.3	2074.7	2022.6	1961.3	1892.5	1814.4	1736.3
60°	2660.3	2658.4	2634.3	2598.9	2552.5	2496.7	2439.1	2372.1	2294.1	2203.0	2108.1
57.5°	3097.2	3093.4	3063.7	3028.4	2981.9	2922.4	2861.1	2790.4	2708.6	2611.9	2502.3
55°	3489.4	3485.7	3456.0	3418.8	3370.4	3310.9	3255.2	3188.3	3108.3	3006.1	2888.9
52.5°	3837.1	3838.9	3812.9	3772.0	3719.9	3662.3	3608.4	3541.5	3465.2	3363.0	3249.6
50°	4156.8	4155.0	4127.1	4089.9	4041.5	3985.8	3931.9	3864.9	3785.0	3686.5	3576.8
47.5°	4454.3	4450.5	4418.9	4378.0	4327.8	4279.5	4229.3	4169.8	4086.2	3987.6	3878.0
45°	4703.4	4695.9	4664.3	4625.3	4577.0	4534.2	4489.6	4445.0	4355.7	4264.6	4160.5
42.5°	4917.2	4915.3	4883.7	4844.7	4796.3	4759.1	4718.2	4662.5	4588.1	4504.5	4402.2
40°	5121.7	5106.8	5075.2	5038.0	4993.4	4961.8	4920.9	4865.1	4792.6	4710.8	4612.3
37.5°	5274.1	5276.0	5242.5	5201.6	5162.5	5132.8	5095.6	5043.6	4980.4	4900.4	4801.9
35°	5419.1	5409.8	5381.9	5346.6	5311.3	5277.8	5238.8	5194.2	5142.1	5067.7	4974.8
32.5°	5513.9	5526.9	5493.5	5456.3	5435.8	5409.8	5368.9	5322.4	5276.0	5201.6	5117.9
30°	5618.0	5606.9	5580.8	5549.2	5534.4	5517.6	5482.3	5437.7	5383.8	5316.8	5238.8
27.5°	5690.5	5684.9	5653.3	5623.6	5616.2	5601.3	5573.4	5534.4	5480.4	5415.4	5342.9
25°	5722.1	5725.8	5696.1	5679.4	5679.4	5670.1	5647.8	5614.3	5560.4	5500.9	5430.3
22.5°	5737.0	5733.3	5712.8	5709.1	5718.4	5711.0	5701.7	5671.9	5623.6	5575.3	5515.8
20°	5746.3	5720.3	5701.7	5716.5	5727.7	5725.8	5718.4	5699.8	5677.5	5636.6	5584.6
17.5°	5725.8	5709.1	5686.8	5709.1	5733.3	5735.1	5727.7	5716.5	5711.0	5684.9	5638.5
15°	5675.6	5662.6	5666.3	5688.7	5716.5	5725.8	5731.4	5744.4	5737.0	5716.5	5675.6
12.5°	5642.2	5625.5	5642.2	5664.5	5679.4	5684.9	5729.6	5753.7	5753.7	5735.1	5709.1
10°	5632.9	5599.4	5621.7	5642.2	5649.6	5683.1	5720.3	5746.3	5759.3	5744.4	5711.0
7.5°	5614.3	5592.0	5601.3	5610.6	5653.3	5677.5	5698.0	5725.8	5744.4	5742.6	5712.8
5°	5605.0	5577.1	5580.8	5619.9	5649.6	5666.3	5673.8	5698.0	5725.8	5731.4	5709.1
2.5°	5580.8	5567.8	5595.7	5599.4	5621.7	5634.7	5642.2	5664.5	5699.8	5712.8	5703.5
0°	5567.8	5549.2	5530.6	5545.5	5582.7	5610.6	5621.7	5655.2	5696.1	5709.1	5688.7



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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°	52.1	50.2	48.3	46.5	48.3	48.3	48.3	46.5	48.3	46.5	46.5
85°	161.7	154.3	148.7	141.3	133.9	128.3	120.8	113.4	111.5	109.7	106.0
82.5°	278.9	269.6	260.3	249.1	238.0	224.9	211.9	197.1	193.3	189.6	184.0
80°	392.3	379.2	366.2	353.2	342.1	329.0	314.2	297.4	286.3	277.0	265.8
77.5°	511.2	492.6	474.1	451.7	438.7	425.7	410.8	394.1	377.4	362.5	345.8
75°	646.9	626.5	607.9	585.6	561.4	537.3	513.1	490.8	466.6	444.3	422.0
72.5°	797.5	767.8	738.0	710.2	680.4	650.7	619.1	589.3	559.6	529.8	498.2
70°	955.5	918.4	881.2	844.0	805.0	765.9	728.7	691.6	654.4	615.3	580.0
67.5°	1141.4	1098.7	1050.4	998.3	940.7	890.5	842.1	797.5	752.9	708.3	663.7
65°	1373.8	1314.3	1249.3	1178.6	1111.7	1044.8	974.1	907.2	855.2	803.1	752.9
62.5°	1660.1	1576.5	1485.4	1394.3	1312.5	1225.1	1143.3	1055.9	974.1	899.8	838.4
60°	2002.2	1888.8	1777.2	1660.1	1546.7	1427.7	1323.6	1215.8	1113.6	1022.5	933.2
57.5°	2379.6	2247.6	2113.7	1970.6	1816.3	1676.9	1535.6	1394.3	1273.4	1152.6	1052.2
55°	2762.5	2623.1	2472.5	2310.8	2141.6	1963.1	1771.7	1613.6	1448.2	1306.9	1176.8
52.5°	3126.9	2981.9	2825.7	2677.0	2474.4	2269.9	2059.8	1851.6	1658.3	1477.9	1319.9
50°	3452.2	3310.9	3160.4	2987.5	2799.7	2582.2	2348.0	2113.7	1885.1	1673.1	1476.1
47.5°	3749.7	3612.1	3461.5	3288.6	3117.6	2875.9	2639.8	2381.4	2126.7	1883.2	1652.7
45°	4028.5	3889.1	3732.9	3567.5	3370.4	3154.8	2911.3	2651.0	2377.7	2104.4	1838.6
42.5°	4281.4	4141.9	3983.9	3812.9	3617.7	3403.9	3167.8	2905.7	2630.5	2333.1	2041.2
40°	4502.6	4366.9	4214.4	4036.0	3853.8	3628.8	3396.5	3147.4	2862.9	2563.6	2242.0
37.5°	4695.9	4569.5	4418.9	4242.3	4049.0	3848.2	3608.4	3359.3	3102.7	2777.4	2448.4
35°	4867.0	4749.8	4595.5	4428.2	4238.6	4026.7	3801.7	3558.2	3281.2	2976.3	2656.6
32.5°	5015.7	4896.7	4755.4	4588.1	4404.1	4205.1	3974.6	3729.2	3467.1	3156.6	2809.0
30°	5142.1	5026.8	4893.0	4735.0	4558.4	4361.3	4136.4	3889.1	3621.4	3312.8	2968.9
27.5°	5251.8	5142.1	5012.0	4865.1	4695.9	4506.3	4279.5	4030.4	3757.1	3459.7	3115.7
25°	5346.6	5240.6	5119.8	4980.4	4813.1	4627.1	4413.4	4153.1	3879.8	3580.5	3240.3
22.5°	5432.1	5329.9	5209.0	5073.3	4920.9	4735.0	4519.3	4260.9	3983.9	3688.3	3353.7
20°	5508.3	5413.5	5294.5	5155.1	5002.7	4814.9	4601.1	4355.7	4076.9	3786.9	3456.0
17.5°	5569.7	5486.0	5367.0	5220.2	5067.7	4885.6	4677.3	4452.4	4156.8	3870.5	3541.5
15°	5612.4	5530.6	5422.8	5274.1	5125.4	4945.0	4736.8	4504.5	4229.3	3937.4	3612.1
12.5°	5642.2	5554.8	5454.4	5316.8	5168.1	4989.7	4787.0	4558.4	4290.7	3996.9	3673.5
10°	5649.6	5569.7	5469.3	5346.6	5201.6	5028.7	4829.8	4603.0	4340.9	4043.4	3723.7
7.5°	5653.3	5577.1	5486.0	5368.9	5225.8	5058.4	4861.4	4638.3	4378.0	4082.4	3760.8
5°	5651.5	5579.0	5497.2	5383.8	5240.6	5075.2	4881.8	4662.5	4404.1	4108.5	3788.7
2.5°	5645.9	5580.8	5504.6	5394.9	5257.4	5093.8	4902.3	4690.4	4431.9	4130.8	3811.0
0°	5660.8	5605.0	5508.3	5391.2	5261.1	5093.8	4900.4	4694.1	4435.7	4128.9	3809.2





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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°	46.5	44.6	44.6	42.8	40.9	39.0	35.3	33.5	29.7	24.2	18.6
85°	100.4	94.8	89.2	85.5	81.8	78.1	72.5	66.9	59.5	48.3	37.2
82.5°	176.6	165.5	154.3	141.3	130.1	119.0	109.7	100.4	89.2	72.5	55.8
80°	252.8	236.1	219.4	200.8	184.0	165.5	148.7	133.9	119.0	96.7	74.4
77.5°	329.0	306.7	282.6	260.3	236.1	211.9	187.8	167.3	145.0	119.0	93.0
75°	399.7	373.7	351.4	319.8	290.0	258.4	226.8	198.9	171.0	139.4	111.5
72.5°	470.3	436.9	405.3	375.5	342.1	303.0	267.7	232.4	197.1	159.9	126.4
70°	541.0	500.1	461.0	425.7	388.5	349.5	306.7	265.8	223.1	178.5	139.4
67.5°	613.5	567.0	522.4	477.8	435.0	390.4	345.8	299.3	249.1	197.1	154.3
65°	693.4	635.8	581.9	531.7	481.5	433.2	383.0	332.8	277.0	217.5	167.3
62.5°	773.4	710.2	646.9	583.7	528.0	474.1	420.1	364.4	303.0	239.8	180.3
60°	858.9	786.4	713.9	643.2	574.4	515.0	455.5	396.0	330.9	260.3	193.3
57.5°	953.7	866.3	784.5	704.6	626.5	555.9	490.8	427.6	355.1	280.7	208.2
55°	1061.5	953.7	857.0	767.8	682.3	596.8	526.1	461.0	383.0	301.2	224.9
52.5°	1174.9	1050.4	933.2	832.8	741.8	645.1	559.6	487.1	410.8	321.6	239.8
50°	1306.9	1148.9	1018.8	896.1	793.8	693.4	594.9	516.8	438.7	345.8	254.7
47.5°	1442.6	1267.9	1104.3	970.4	849.6	739.9	635.8	542.8	464.8	368.1	269.6
45°	1600.6	1381.3	1200.9	1042.9	903.5	788.2	676.7	570.7	487.1	390.4	284.4
42.5°	1753.1	1515.1	1301.3	1122.9	964.8	834.7	713.9	600.5	509.4	412.7	297.4
40°	1933.4	1649.0	1398.0	1199.1	1026.2	879.3	751.1	632.1	529.8	433.2	310.5
37.5°	2106.3	1784.7	1515.1	1282.7	1085.7	923.9	788.2	661.8	548.4	453.6	327.2
35°	2277.3	1935.3	1626.7	1360.8	1147.0	974.1	825.4	689.7	567.0	470.3	342.1
32.5°	2440.9	2076.5	1740.1	1448.2	1214.0	1020.6	858.9	715.7	585.6	485.2	356.9
30°	2593.4	2210.4	1851.6	1537.4	1275.3	1063.4	890.5	741.8	607.9	498.2	371.8
27.5°	2732.8	2340.5	1963.1	1621.1	1332.9	1102.4	923.9	765.9	626.5	511.2	384.8
25°	2859.2	2457.6	2065.4	1697.3	1385.0	1145.2	955.5	790.1	643.2	522.4	396.0
22.5°	2978.2	2565.5	2158.3	1773.5	1448.2	1187.9	985.3	812.4	660.0	533.5	407.1
20°	3082.3	2664.0	2247.6	1849.7	1504.0	1227.0	1011.3	832.8	674.8	541.0	418.3
17.5°	3165.9	2751.4	2327.5	1916.7	1552.3	1260.4	1033.6	851.4	687.8	550.3	425.7
15°	3240.3	2825.7	2394.4	1974.3	1595.1	1288.3	1054.1	866.3	699.0	555.9	435.0
12.5°	3303.5	2888.9	2452.1	2024.5	1632.2	1312.5	1070.8	877.5	708.3	561.4	440.6
10°	3355.6	2939.1	2500.4	2063.5	1662.0	1331.1	1083.8	888.6	715.7	567.0	446.2
7.5°	3394.6	2976.3	2535.7	2097.0	1686.1	1344.1	1095.0	896.1	723.2	570.7	455.5
5°	3424.3	3007.9	2563.6	2119.3	1704.7	1362.7	1108.0	905.4	730.6	574.4	455.5
2.5°	3446.7	3034.0	2585.9	2137.9	1719.6	1359.0	1108.0	903.5	730.6	574.4	453.6
0°	3442.9	3035.8	2584.1	2137.9	1719.6	1355.2	1108.0	901.6	730.6	574.4	453.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.0	9.3	3.7	0.0
85°	27.9	18.6	9.3	0.0
82.5°	40.9	26.0	13.0	0.0
80°	53.9	35.3	16.7	0.0
77.5°	68.8	44.6	22.3	0.0
75°	81.8	52.1	26.0	0.0
72.5°	94.8	61.3	29.7	0.0
70°	106.0	68.8	33.5	0.0
67.5°	117.1	78.1	39.0	0.0
65°	126.4	85.5	42.8	0.0
62.5°	133.9	94.8	46.5	0.0
60°	143.1	102.2	50.2	0.0
57.5°	150.6	107.8	53.9	0.0
55°	158.0	111.5	57.6	0.0
52.5°	165.5	117.1	61.3	0.0
50°	172.9	122.7	65.1	0.0
47.5°	180.3	126.4	66.9	0.0
45°	191.5	132.0	70.6	0.0
42.5°	200.8	135.7	74.4	0.0
40°	210.1	139.4	76.2	0.0
37.5°	219.4	143.1	79.9	0.0
35°	228.7	146.9	81.8	0.0
32.5°	236.1	150.6	83.7	0.0
30°	243.5	154.3	85.5	0.0
27.5°	251.0	156.2	87.4	0.0
25°	256.5	159.9	89.2	0.0
22.5°	262.1	161.7	91.1	0.0
20°	265.8	163.6	93.0	0.0
17.5°	271.4	165.5	94.8	0.0
15°	273.3	167.3	98.5	0.0
12.5°	277.0	169.2	98.5	0.0
10°	278.9	171.0	98.5	0.0
7.5°	282.6	171.0	98.5	0.0
5°	280.7	171.0	98.5	0.0
2.5°	280.7	171.0	98.5	0.0
0°	278.9	171.0	98.5	0.0

(END OF REPORT)