

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: P628521

Luminaire Tested: **IFLD-L-SA7D-940-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628521  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-940-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36276 lumens	Max Intensity:	11824.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	85.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

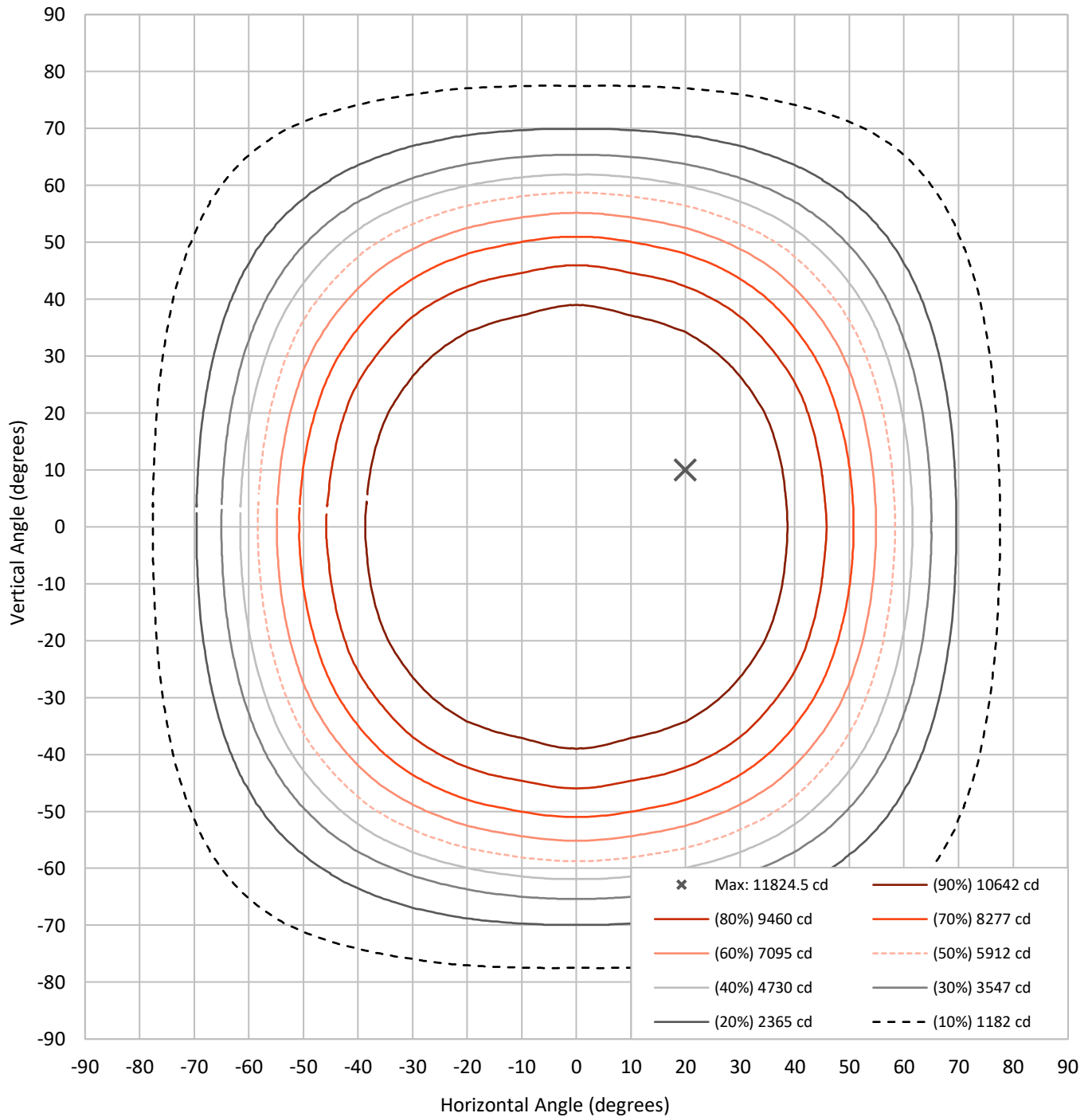
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22259.7 lumens	Field Lumens:	26685.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 422.6  
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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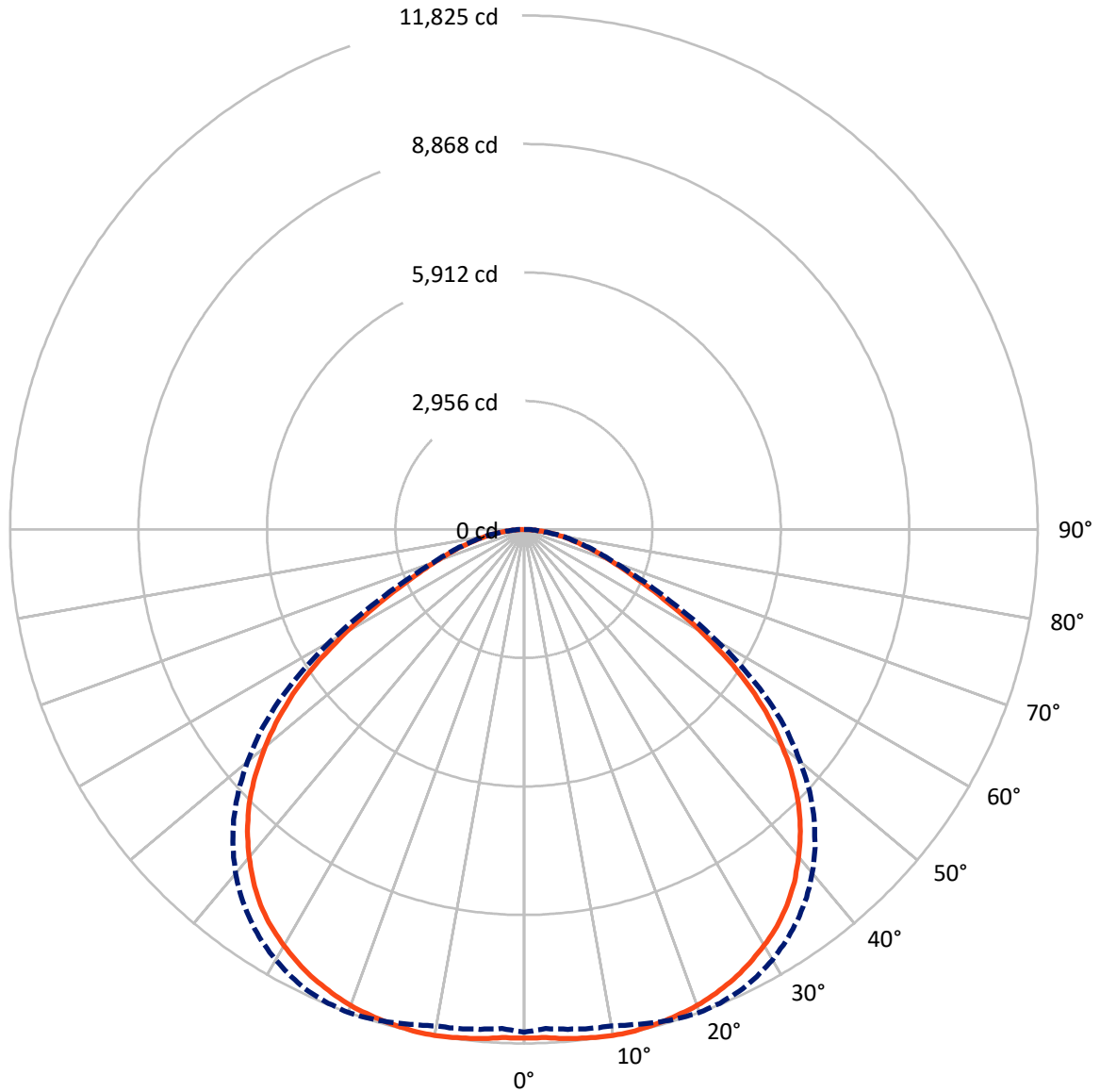
### Iso-Candela Plot





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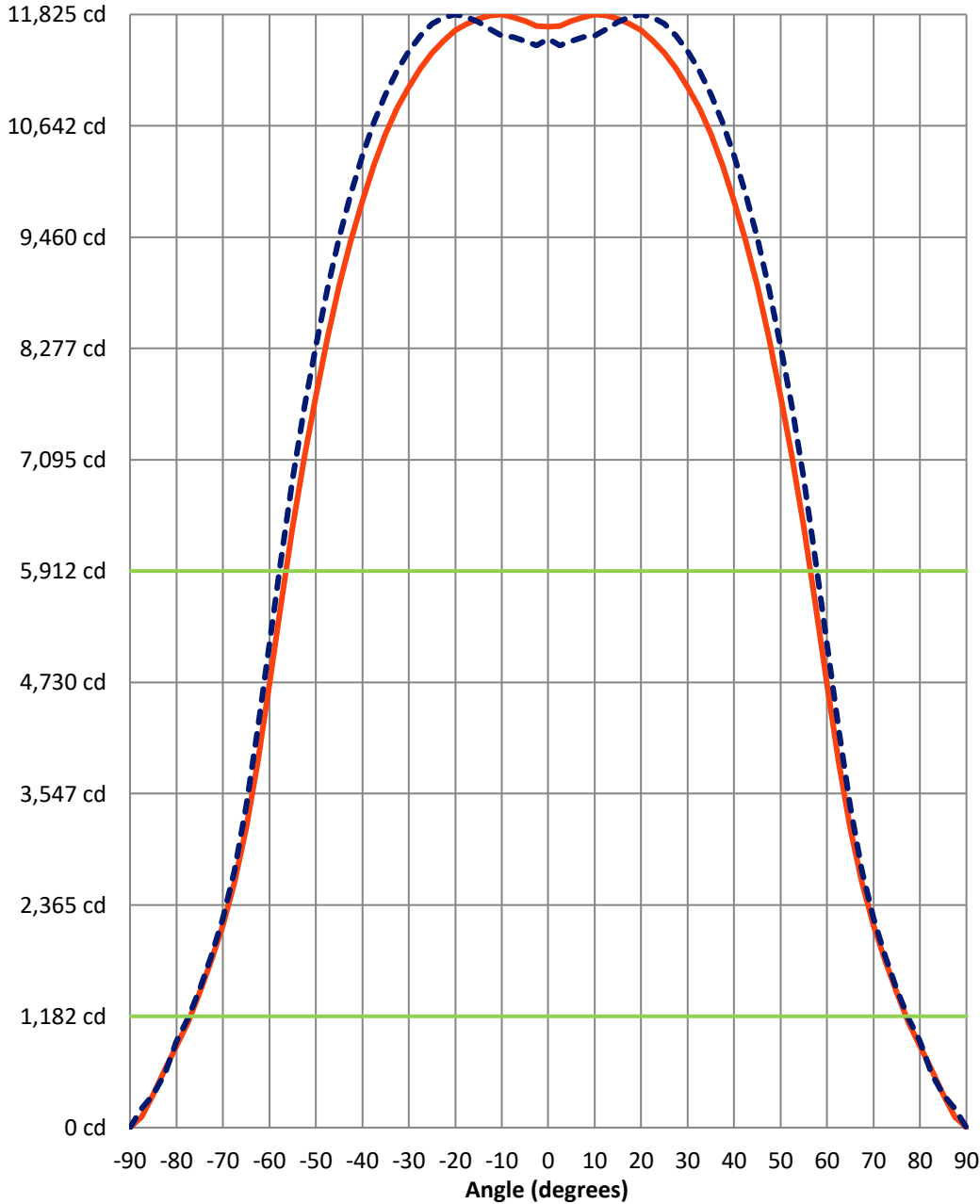
### Luminous Intensity Polar Plot



— 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: 22259.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 26685.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 9590.4  
 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	103.1	106.9	110.7	114.5	118.3	122.1	118.3	114.5	114.5	110.7
85°	255.7	263.4	267.2	293.9	320.6	335.9	355.0	351.1	351.1	347.3	343.5
82.5°	511.5	534.4	553.4	580.2	595.4	618.3	633.6	622.1	614.5	599.2	587.8
80°	908.4	916.0	919.9	923.7	904.6	900.8	893.1	881.7	866.4	847.3	828.2
77.5°	1156.5	1164.1	1171.8	1164.1	1160.3	1156.5	1145.0	1133.6	1118.3	1103.1	1080.2
75°	1530.5	1530.5	1530.5	1519.1	1511.5	1500.0	1480.9	1461.8	1435.1	1404.6	1370.2
72.5°	1927.5	1923.7	1919.9	1897.0	1877.9	1855.0	1828.3	1805.4	1774.8	1740.5	1694.7
70°	2343.5	2351.2	2355.0	2324.4	2301.5	2271.0	2236.7	2194.7	2148.9	2099.3	2034.4
67.5°	2916.0	2908.4	2900.8	2858.8	2828.3	2786.3	2736.7	2675.6	2606.9	2530.6	2438.9
65°	3626.0	3637.4	3614.5	3572.5	3515.3	3446.6	3370.3	3282.5	3179.4	3064.9	2935.1
62.5°	4484.8	4503.8	4477.1	4423.7	4351.2	4259.6	4152.7	4026.7	3885.5	3725.2	3564.9
60°	5461.9	5458.1	5408.4	5335.9	5240.5	5126.0	5007.7	4870.3	4710.0	4522.9	4328.3
57.5°	6358.8	6351.2	6290.1	6217.6	6122.2	6000.0	5874.1	5729.0	5561.1	5362.6	5137.4
55°	7164.2	7156.5	7095.5	7019.1	6919.9	6797.8	6683.3	6545.8	6381.7	6171.8	5931.3
52.5°	7877.9	7881.7	7828.3	7744.3	7637.5	7519.1	7408.4	7271.0	7114.6	6904.6	6671.8
50°	8534.4	8530.6	8473.3	8397.0	8297.8	8183.3	8072.6	7935.2	7771.0	7568.8	7343.6
47.5°	9145.1	9137.5	9072.6	8988.6	8885.6	8786.3	8683.3	8561.1	8389.4	8187.1	7961.9
45°	9656.6	9641.3	9576.4	9496.2	9397.0	9309.2	9217.6	9126.0	8942.8	8755.8	8542.0
42.5°	10095.5	10091.7	10026.8	9946.6	9847.4	9771.1	9687.1	9572.6	9419.9	9248.2	9038.2
40°	10515.3	10484.8	10419.9	10343.6	10252.0	10187.1	10103.1	9988.6	9839.8	9671.8	9469.5
37.5°	10828.3	10832.1	10763.4	10679.5	10599.3	10538.2	10461.9	10355.0	10225.3	10061.1	9858.8
35°	11126.0	11106.9	11049.7	10977.2	10904.7	10835.9	10755.8	10664.2	10557.3	10404.6	10213.8
32.5°	11320.7	11347.4	11278.7	11202.4	11160.4	11106.9	11023.0	10927.6	10832.1	10679.5	10507.7
30°	11534.4	11511.5	11458.1	11393.2	11362.7	11328.3	11255.8	11164.2	11053.5	10916.1	10755.8
27.5°	11683.3	11671.8	11606.9	11545.9	11530.6	11500.1	11442.8	11362.7	11252.0	11118.4	10969.5
25°	11748.2	11755.8	11694.7	11660.4	11660.4	11641.3	11595.5	11526.8	11416.1	11294.0	11148.9
22.5°	11778.7	11771.1	11729.1	11721.5	11740.5	11725.3	11706.2	11645.1	11545.9	11446.6	11324.5
20°	11797.8	11744.4	11706.2	11736.7	11759.6	11755.8	11740.5	11702.4	11656.6	11572.6	11465.7
17.5°	11755.8	11721.5	11675.6	11721.5	11771.1	11774.9	11759.6	11736.7	11725.3	11671.8	11576.4
15°	11652.7	11626.0	11633.7	11679.5	11736.7	11755.8	11767.3	11794.0	11778.7	11736.7	11652.7
12.5°	11584.0	11549.7	11584.0	11629.8	11660.4	11671.8	11763.4	11813.1	11813.1	11774.9	11721.5
10°	11565.0	11496.3	11542.1	11584.0	11599.3	11668.0	11744.4	11797.8	11824.5	11794.0	11725.3
7.5°	11526.8	11481.0	11500.1	11519.2	11606.9	11656.6	11698.6	11755.8	11794.0	11790.2	11729.1
5°	11507.7	11450.5	11458.1	11538.2	11599.3	11633.7	11648.9	11698.6	11755.8	11767.3	11721.5
2.5°	11458.1	11431.4	11488.6	11496.3	11542.1	11568.8	11584.0	11629.8	11702.4	11729.1	11710.0
0°	11431.4	11393.2	11355.0	11385.6	11461.9	11519.2	11542.1	11610.8	11694.7	11721.5	11679.5



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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°	106.9	103.1	99.2	95.4	99.2	99.2	99.2	95.4	99.2	95.4	95.4
85°	332.1	316.8	305.3	290.1	274.8	263.4	248.1	232.8	229.0	225.2	217.6
82.5°	572.5	553.4	534.4	511.5	488.6	461.8	435.1	404.6	396.9	389.3	377.9
80°	805.3	778.6	751.9	725.2	702.3	675.6	645.0	610.7	587.8	568.7	545.8
77.5°	1049.6	1011.5	973.3	927.5	900.8	874.1	843.5	809.2	774.8	744.3	709.9
75°	1328.3	1286.3	1248.1	1202.3	1152.7	1103.1	1053.4	1007.6	958.0	912.2	866.4
72.5°	1637.4	1576.3	1515.3	1458.0	1397.0	1335.9	1271.0	1209.9	1148.9	1087.8	1022.9
70°	1961.8	1885.5	1809.2	1732.8	1652.7	1572.5	1496.2	1419.9	1343.5	1263.4	1190.8
67.5°	2343.5	2255.7	2156.5	2049.6	1931.3	1828.3	1729.0	1637.4	1545.8	1454.2	1362.6
65°	2820.6	2698.5	2564.9	2419.9	2282.5	2145.1	2000.0	1862.6	1755.7	1648.9	1545.8
62.5°	3408.4	3236.7	3049.6	2862.6	2694.7	2515.3	2347.3	2168.0	2000.0	1847.3	1721.4
60°	4110.7	3877.9	3648.9	3408.4	3175.6	2931.3	2717.6	2496.2	2286.3	2099.3	1916.0
57.5°	4885.5	4614.5	4339.7	4045.8	3729.0	3442.8	3152.7	2862.6	2614.5	2366.4	2160.3
55°	5671.8	5385.5	5076.4	4744.3	4397.0	4030.6	3637.4	3313.0	2973.3	2683.2	2416.0
52.5°	6419.9	6122.2	5801.6	5496.2	5080.2	4660.3	4229.0	3801.6	3404.6	3034.4	2709.9
50°	7087.8	6797.8	6488.6	6133.6	5748.1	5301.6	4820.6	4339.7	3870.3	3435.1	3030.6
47.5°	7698.5	7416.1	7106.9	6752.0	6400.8	5904.6	5419.9	4889.3	4366.4	3866.4	3393.2
45°	8271.0	7984.8	7664.2	7324.5	6919.9	6477.1	5977.1	5442.8	4881.7	4320.6	3774.8
42.5°	8790.1	8503.9	8179.4	7828.3	7427.5	6988.6	6503.9	5965.7	5400.8	4790.1	4190.9
40°	9244.3	8965.7	8652.7	8286.3	7912.3	7450.4	6973.3	6461.9	5877.9	5263.4	4603.1
37.5°	9641.3	9381.7	9072.6	8710.0	8313.0	7900.8	7408.4	6897.0	6370.3	5702.3	5026.8
35°	9992.4	9752.0	9435.2	9091.7	8702.3	8267.2	7805.4	7305.4	6736.7	6110.7	5454.2
32.5°	10297.8	10053.5	9763.4	9419.9	9042.0	8633.6	8160.4	7656.5	7118.4	6481.0	5767.2
30°	10557.3	10320.7	10045.9	9721.4	9358.8	8954.3	8492.4	7984.8	7435.2	6801.6	6095.5
27.5°	10782.5	10557.3	10290.1	9988.6	9641.3	9252.0	8786.3	8274.9	7713.8	7103.1	6397.0
25°	10977.2	10759.6	10511.5	10225.3	9881.7	9500.1	9061.1	8526.8	7965.7	7351.2	6652.7
22.5°	11152.7	10942.8	10694.7	10416.1	10103.1	9721.4	9278.7	8748.1	8179.4	7572.6	6885.5
20°	11309.2	11114.6	10870.3	10584.0	10271.1	9885.6	9446.6	8942.8	8370.3	7774.9	7095.5
17.5°	11435.2	11263.4	11019.2	10717.6	10404.6	10030.6	9603.1	9141.3	8534.4	7946.6	7271.0
15°	11523.0	11355.0	11133.7	10828.3	10523.0	10152.7	9725.3	9248.2	8683.3	8084.0	7416.1
12.5°	11584.0	11404.7	11198.5	10916.1	10610.8	10244.3	9828.3	9358.8	8809.2	8206.2	7542.0
10°	11599.3	11435.2	11229.1	10977.2	10679.5	10324.5	9916.1	9450.4	8912.3	8301.6	7645.1
7.5°	11606.9	11450.5	11263.4	11023.0	10729.1	10385.6	9981.0	9523.0	8988.6	8381.7	7721.4
5°	11603.1	11454.3	11286.3	11053.5	10759.6	10419.9	10023.0	9572.6	9042.0	8435.2	7778.7
2.5°	11591.7	11458.1	11301.6	11076.4	10794.0	10458.1	10065.0	9629.8	9099.3	8481.0	7824.5
0°	11622.2	11507.7	11309.2	11068.8	10801.6	10458.1	10061.1	9637.5	9106.9	8477.2	7820.7





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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	91.6	91.6	87.8	84.0	80.2	72.5	68.7	61.1	49.6	38.2
85°	206.1	194.7	183.2	175.6	167.9	160.3	148.9	137.4	122.1	99.2	76.3
82.5°	362.6	339.7	316.8	290.1	267.2	244.3	225.2	206.1	183.2	148.9	114.5
80°	519.1	484.7	450.4	412.2	377.9	339.7	305.3	274.8	244.3	198.5	152.7
77.5°	675.6	629.8	580.2	534.4	484.7	435.1	385.5	343.5	297.7	244.3	190.8
75°	820.6	767.2	721.4	656.5	595.4	530.5	465.7	408.4	351.1	286.3	229.0
72.5°	965.7	897.0	832.1	771.0	702.3	622.1	549.6	477.1	404.6	328.2	259.5
70°	1110.7	1026.7	946.6	874.1	797.7	717.6	629.8	545.8	458.0	366.4	286.3
67.5°	1259.6	1164.1	1072.5	980.9	893.1	801.5	709.9	614.5	511.5	404.6	316.8
65°	1423.7	1305.4	1194.7	1091.6	988.6	889.3	786.3	683.2	568.7	446.6	343.5
62.5°	1587.8	1458.0	1328.3	1198.5	1084.0	973.3	862.6	748.1	622.1	492.4	370.2
60°	1763.4	1614.5	1465.7	1320.6	1179.4	1057.3	935.1	813.0	679.4	534.4	396.9
57.5°	1958.0	1778.6	1610.7	1446.6	1286.3	1141.2	1007.6	877.9	729.0	576.3	427.5
55°	2179.4	1958.0	1759.6	1576.3	1400.8	1225.2	1080.2	946.6	786.3	618.3	461.8
52.5°	2412.2	2156.5	1916.0	1709.9	1522.9	1324.4	1148.9	1000.0	843.5	660.3	492.4
50°	2683.2	2358.8	2091.6	1839.7	1629.8	1423.7	1221.4	1061.1	900.8	709.9	522.9
47.5°	2961.9	2603.1	2267.2	1992.4	1744.3	1519.1	1305.4	1114.5	954.2	755.7	553.4
45°	3286.3	2835.9	2465.7	2141.2	1855.0	1618.3	1389.3	1171.8	1000.0	801.5	584.0
42.5°	3599.3	3110.7	2671.8	2305.4	1980.9	1713.8	1465.7	1232.8	1045.8	847.3	610.7
40°	3969.5	3385.5	2870.2	2461.8	2106.9	1805.4	1542.0	1297.7	1087.8	889.3	637.4
37.5°	4324.5	3664.1	3110.7	2633.6	2229.0	1897.0	1618.3	1358.8	1126.0	931.3	671.8
35°	4675.6	3973.3	3339.7	2793.9	2355.0	2000.0	1694.7	1416.0	1164.1	965.7	702.3
32.5°	5011.5	4263.4	3572.5	2973.3	2492.4	2095.4	1763.4	1469.5	1202.3	996.2	732.8
30°	5324.5	4538.2	3801.6	3156.5	2618.3	2183.2	1828.3	1522.9	1248.1	1022.9	763.4
27.5°	5610.7	4805.4	4030.6	3328.3	2736.7	2263.4	1897.0	1572.5	1286.3	1049.6	790.1
25°	5870.3	5045.8	4240.5	3484.8	2843.5	2351.2	1961.8	1622.1	1320.6	1072.5	813.0
22.5°	6114.5	5267.2	4431.3	3641.2	2973.3	2438.9	2022.9	1667.9	1355.0	1095.4	835.9
20°	6328.3	5469.5	4614.5	3797.7	3087.8	2519.1	2076.3	1709.9	1385.5	1110.7	858.8
17.5°	6500.0	5648.9	4778.7	3935.1	3187.0	2587.8	2122.2	1748.1	1412.2	1129.8	874.1
15°	6652.7	5801.6	4916.1	4053.5	3274.8	2645.1	2164.1	1778.6	1435.1	1141.2	893.1
12.5°	6782.5	5931.3	5034.4	4156.5	3351.2	2694.7	2198.5	1801.5	1454.2	1152.7	904.6
10°	6889.4	6034.4	5133.6	4236.7	3412.2	2732.8	2225.2	1824.4	1469.5	1164.1	916.0
7.5°	6969.5	6110.7	5206.1	4305.4	3461.9	2759.6	2248.1	1839.7	1484.7	1171.8	935.1
5°	7030.6	6175.6	5263.4	4351.2	3500.0	2797.7	2274.8	1858.8	1500.0	1179.4	935.1
2.5°	7076.4	6229.0	5309.2	4389.3	3530.6	2790.1	2274.8	1855.0	1500.0	1179.4	931.3
0°	7068.7	6232.9	5305.4	4389.3	3530.6	2782.5	2274.8	1851.2	1500.0	1179.4	931.3



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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°	57.3	38.2	19.1	0.0
82.5°	84.0	53.4	26.7	0.0
80°	110.7	72.5	34.4	0.0
77.5°	141.2	91.6	45.8	0.0
75°	167.9	106.9	53.4	0.0
72.5°	194.7	126.0	61.1	0.0
70°	217.6	141.2	68.7	0.0
67.5°	240.5	160.3	80.2	0.0
65°	259.5	175.6	87.8	0.0
62.5°	274.8	194.7	95.4	0.0
60°	293.9	209.9	103.1	0.0
57.5°	309.2	221.4	110.7	0.0
55°	324.4	229.0	118.3	0.0
52.5°	339.7	240.5	126.0	0.0
50°	355.0	251.9	133.6	0.0
47.5°	370.2	259.5	137.4	0.0
45°	393.1	271.0	145.0	0.0
42.5°	412.2	278.6	152.7	0.0
40°	431.3	286.3	156.5	0.0
37.5°	450.4	293.9	164.1	0.0
35°	469.5	301.5	167.9	0.0
32.5°	484.7	309.2	171.8	0.0
30°	500.0	316.8	175.6	0.0
27.5°	515.3	320.6	179.4	0.0
25°	526.7	328.2	183.2	0.0
22.5°	538.2	332.1	187.0	0.0
20°	545.8	335.9	190.8	0.0
17.5°	557.3	339.7	194.7	0.0
15°	561.1	343.5	202.3	0.0
12.5°	568.7	347.3	202.3	0.0
10°	572.5	351.1	202.3	0.0
7.5°	580.2	351.1	202.3	0.0
5°	576.3	351.1	202.3	0.0
2.5°	576.3	351.1	202.3	0.0
0°	572.5	351.1	202.3	0.0

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