

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: P628202

Luminaire Tested: **IFLD-L-SA7D-727-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628202  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	41983.9 lumens	Max Intensity:	13685.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	99.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

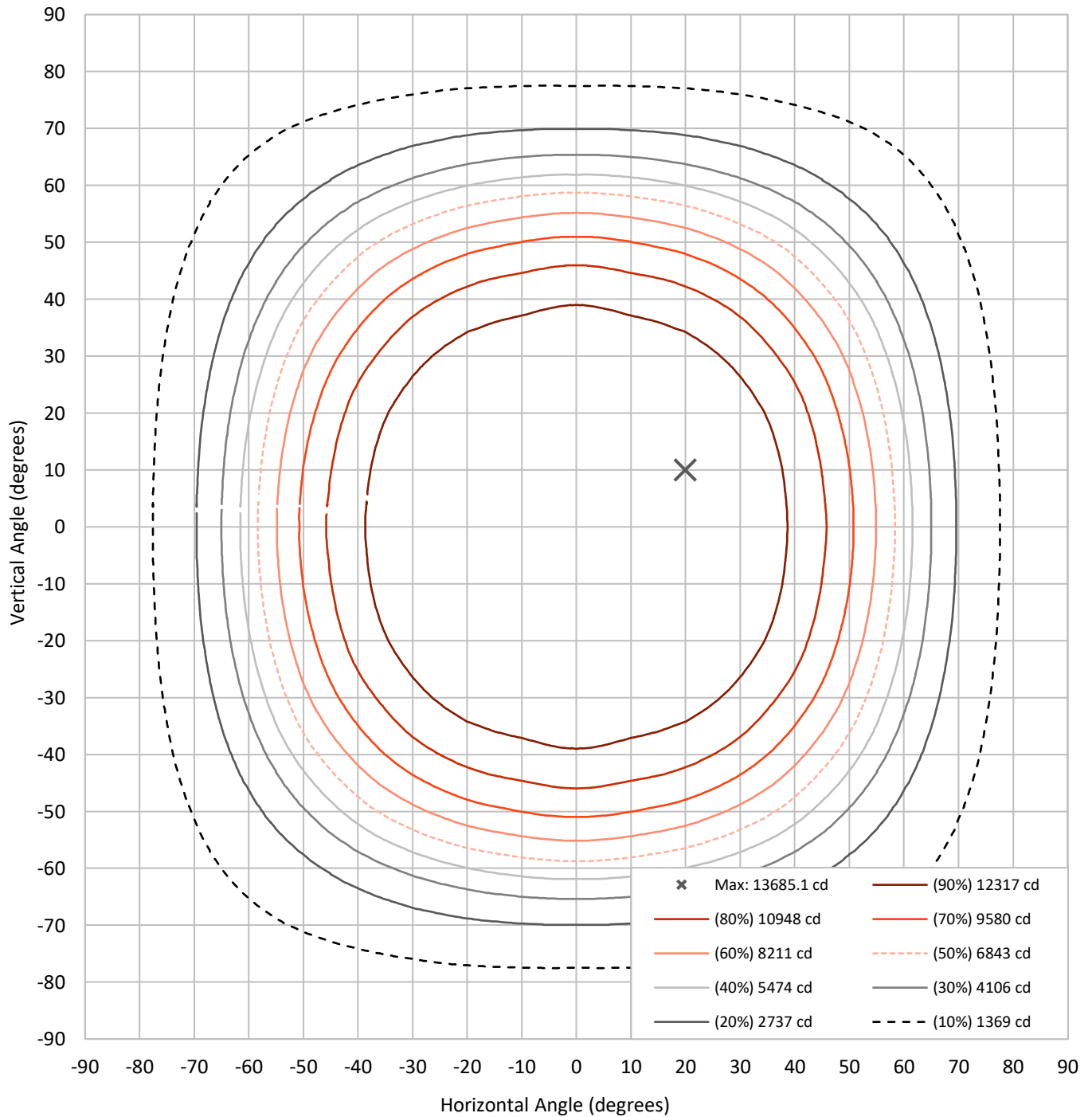
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	25762.2 lumens	Field Lumens:	30884.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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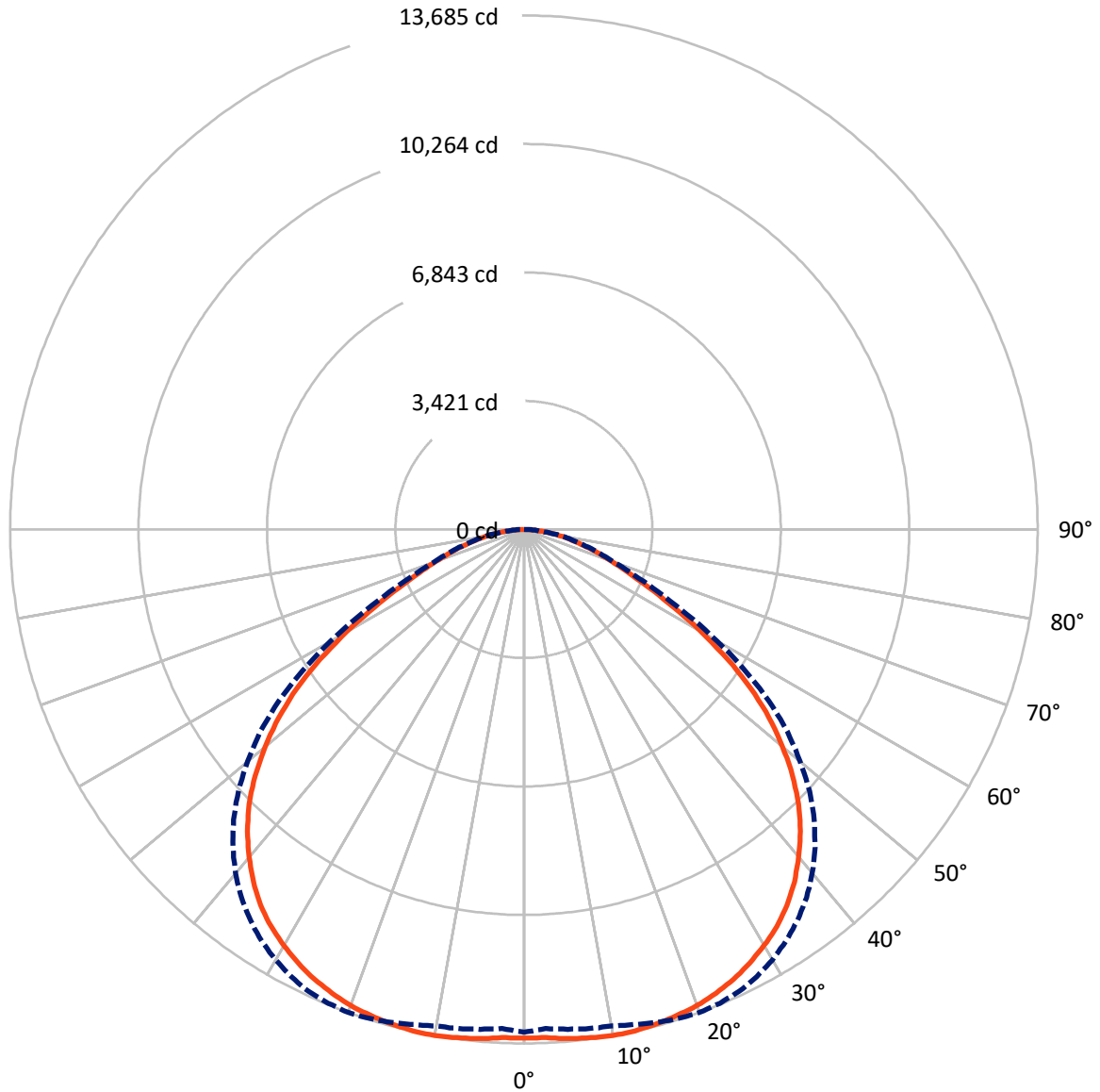
### Iso-Candela Plot





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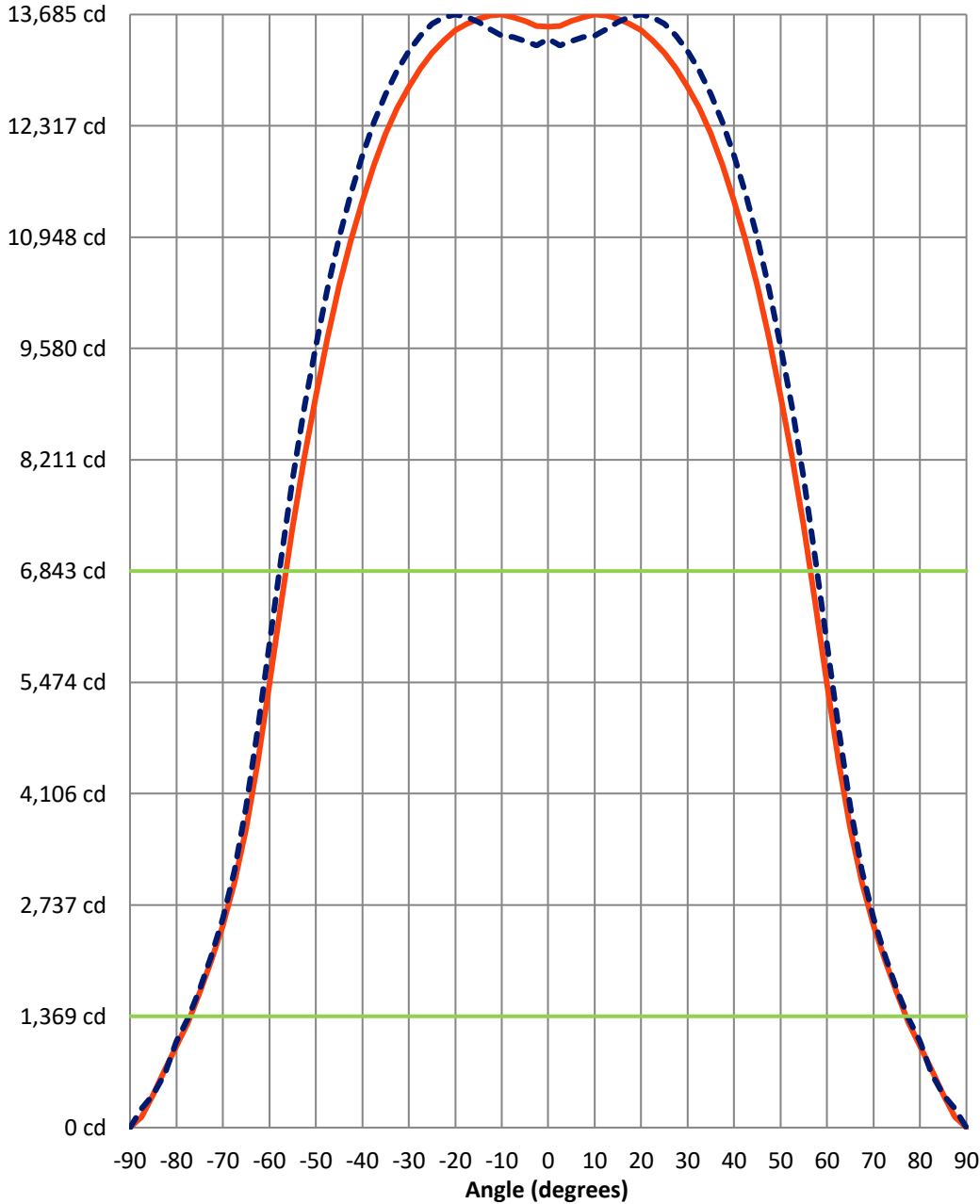
### Luminous Intensity Polar Plot



— 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: 25762.2  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 30884.5  
Efficiency: 73.6%

**Spill:**  
Lumens: 11099.4  
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°	110.4	119.3	123.7	128.1	132.5	136.9	141.4	136.9	132.5	132.5	128.1
85°	296.0	304.8	309.2	340.1	371.1	388.7	410.8	406.4	406.4	402.0	397.6
82.5°	591.9	618.4	640.5	671.4	689.1	715.6	733.3	720.0	711.2	693.5	680.3
80°	1051.3	1060.2	1064.6	1069.0	1046.9	1042.5	1033.7	1020.4	1002.7	980.7	958.6
77.5°	1338.5	1347.3	1356.1	1347.3	1342.9	1338.5	1325.2	1312.0	1294.3	1276.6	1250.1
75°	1771.4	1771.4	1771.4	1758.1	1749.3	1736.0	1713.9	1691.9	1660.9	1625.6	1585.8
72.5°	2230.8	2226.4	2221.9	2195.4	2173.4	2146.9	2115.9	2089.4	2054.1	2014.3	1961.3
70°	2712.3	2721.1	2725.5	2690.2	2663.7	2628.3	2588.6	2540.0	2487.0	2429.6	2354.5
67.5°	3374.9	3366.1	3357.2	3308.6	3273.3	3224.7	3167.3	3096.6	3017.1	2928.7	2822.7
65°	4196.5	4209.8	4183.3	4134.7	4068.4	3988.9	3900.6	3799.0	3679.7	3547.2	3397.0
62.5°	5190.4	5212.5	5181.6	5119.8	5035.8	4929.8	4806.1	4660.3	4496.9	4311.4	4125.8
60°	6321.3	6316.9	6259.4	6175.5	6065.1	5932.6	5795.6	5636.6	5451.1	5234.6	5009.3
57.5°	7359.4	7350.5	7279.9	7195.9	7085.5	6944.1	6798.4	6630.5	6436.1	6206.4	5945.8
55°	8291.4	8282.6	8211.9	8123.6	8008.7	7867.4	7734.8	7575.8	7385.9	7142.9	6864.6
52.5°	9117.5	9121.9	9060.1	8962.9	8839.2	8702.3	8574.2	8415.1	8234.0	7991.1	7721.6
50°	9877.3	9872.9	9806.6	9718.3	9603.4	9470.9	9342.8	9183.8	8993.8	8759.7	8499.1
47.5°	10584.1	10575.2	10500.1	10403.0	10283.7	10168.8	10049.6	9908.2	9709.4	9475.3	9214.7
45°	11176.0	11158.3	11083.2	10990.5	10875.6	10774.0	10668.0	10562.0	10349.9	10133.5	9886.1
42.5°	11684.0	11679.6	11604.5	11511.7	11396.9	11308.5	11211.3	11078.8	10902.1	10703.3	10460.4
40°	12169.9	12134.6	12059.5	11971.1	11865.1	11790.0	11692.8	11560.3	11388.0	11193.7	10959.5
37.5°	12532.1	12536.6	12457.0	12359.9	12267.1	12196.4	12108.1	11984.4	11834.2	11644.2	11410.1
35°	12876.7	12854.6	12788.3	12704.4	12620.5	12541.0	12448.2	12342.2	12218.5	12041.8	11820.9
32.5°	13102.0	13132.9	13053.4	12965.0	12916.4	12854.6	12757.4	12647.0	12536.6	12359.9	12161.1
30°	13349.4	13322.8	13261.0	13185.9	13150.6	13110.8	13026.9	12920.9	12792.8	12633.7	12448.2
27.5°	13521.6	13508.4	13433.3	13362.6	13344.9	13309.6	13243.3	13150.6	13022.5	12867.9	12695.6
25°	13596.7	13605.6	13534.9	13495.1	13495.1	13473.0	13420.0	13340.5	13212.4	13071.1	12903.2
22.5°	13632.1	13623.2	13574.6	13565.8	13587.9	13570.2	13548.1	13477.5	13362.6	13247.8	13106.4
20°	13654.2	13592.3	13548.1	13583.5	13610.0	13605.6	13587.9	13543.7	13490.7	13393.5	13269.8
17.5°	13605.6	13565.8	13512.8	13565.8	13623.2	13627.6	13610.0	13583.5	13570.2	13508.4	13397.9
15°	13486.3	13455.4	13464.2	13517.2	13583.5	13605.6	13618.8	13649.7	13632.1	13583.5	13486.3
12.5°	13406.8	13367.0	13406.8	13459.8	13495.1	13508.4	13614.4	13671.8	13671.8	13627.6	13565.8
10°	13384.7	13305.2	13358.2	13406.8	13424.4	13504.0	13592.3	13654.2	13685.1	13649.7	13570.2
7.5°	13340.5	13287.5	13309.6	13331.7	13433.3	13490.7	13539.3	13605.6	13649.7	13645.3	13574.6
5°	13318.4	13252.2	13261.0	13353.8	13424.4	13464.2	13481.9	13539.3	13605.6	13618.8	13565.8
2.5°	13261.0	13230.1	13296.3	13305.2	13358.2	13389.1	13406.8	13459.8	13543.7	13574.6	13552.6
0°	13230.1	13185.9	13141.7	13177.1	13265.4	13331.7	13358.2	13437.7	13534.9	13565.8	13517.2



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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°	123.7	119.3	114.9	110.4	114.9	114.9	114.9	110.4	114.9	110.4	110.4
85°	384.3	366.6	353.4	335.7	318.1	304.8	287.1	269.5	265.0	260.6	251.8
82.5°	662.6	640.5	618.4	591.9	565.4	534.5	503.6	468.2	459.4	450.6	437.3
80°	932.1	901.1	870.2	839.3	812.8	781.9	746.5	706.8	680.3	658.2	631.7
77.5°	1214.8	1170.6	1126.4	1073.4	1042.5	1011.6	976.2	936.5	896.7	861.4	821.6
75°	1537.3	1488.7	1444.5	1391.5	1334.1	1276.6	1219.2	1166.2	1108.8	1055.8	1002.7
72.5°	1895.1	1824.4	1753.7	1687.4	1616.8	1546.1	1471.0	1400.3	1329.6	1259.0	1183.9
70°	2270.5	2182.2	2093.8	2005.5	1912.7	1820.0	1731.6	1643.3	1554.9	1462.2	1378.2
67.5°	2712.3	2610.7	2495.8	2372.1	2235.2	2115.9	2001.1	1895.1	1789.0	1683.0	1577.0
65°	3264.5	3123.1	2968.5	2800.6	2641.6	2482.6	2314.7	2155.7	2032.0	1908.3	1789.0
62.5°	3944.7	3745.9	3529.5	3313.0	3118.7	2911.1	2716.7	2509.1	2314.7	2138.0	1992.2
60°	4757.5	4488.1	4223.0	3944.7	3675.3	3392.6	3145.2	2889.0	2646.0	2429.6	2217.5
57.5°	5654.3	5340.6	5022.6	4682.4	4315.8	3984.5	3648.8	3313.0	3025.9	2738.8	2500.2
55°	6564.2	6232.9	5875.1	5490.8	5088.8	4664.8	4209.8	3834.3	3441.1	3105.4	2796.2
52.5°	7430.0	7085.5	6714.4	6361.0	5879.5	5393.6	4894.5	4399.7	3940.3	3511.8	3136.3
50°	8203.1	7867.4	7509.6	7098.7	6652.6	6135.8	5579.2	5022.6	4479.2	3975.7	3507.4
47.5°	8909.9	8583.0	8225.2	7814.4	7408.0	6833.7	6272.7	5658.7	5053.5	4474.8	3927.1
45°	9572.5	9241.2	8870.1	8477.0	8008.7	7496.3	6917.6	6299.2	5649.8	5000.5	4368.8
42.5°	10173.2	9841.9	9466.5	9060.1	8596.2	8088.2	7527.2	6904.4	6250.6	5543.8	4850.3
40°	10698.9	10376.4	10014.2	9590.2	9157.2	8622.7	8070.6	7478.6	6802.8	6091.6	5327.4
37.5°	11158.3	10857.9	10500.1	10080.5	9621.1	9144.0	8574.2	7982.2	7372.6	6599.6	5817.7
35°	11564.7	11286.4	10919.8	10522.2	10071.6	9568.1	9033.6	8454.9	7796.7	7072.2	6312.4
32.5°	11918.1	11635.4	11299.7	10902.1	10464.8	9992.1	9444.4	8861.3	8238.4	7500.7	6674.7
30°	12218.5	11944.6	11626.6	11251.1	10831.4	10363.2	9828.7	9241.2	8605.1	7871.8	7054.6
27.5°	12479.1	12218.5	11909.3	11560.3	11158.3	10707.8	10168.8	9576.9	8927.5	8220.8	7403.5
25°	12704.4	12452.6	12165.5	11834.2	11436.6	10994.9	10486.9	9868.4	9219.1	8507.9	7699.5
22.5°	12907.6	12664.7	12377.5	12055.1	11692.8	11251.1	10738.7	10124.7	9466.5	8764.1	7969.0
20°	13088.7	12863.4	12580.7	12249.4	11887.2	11441.0	10933.0	10349.9	9687.3	8998.2	8211.9
17.5°	13234.5	13035.7	12753.0	12404.0	12041.8	11608.9	11114.2	10579.6	9877.3	9197.0	8415.1
15°	13336.1	13141.7	12885.5	12532.1	12178.7	11750.3	11255.5	10703.3	10049.6	9356.0	8583.0
12.5°	13406.8	13199.2	12960.6	12633.7	12280.3	11856.3	11374.8	10831.4	10195.3	9497.4	8728.8
10°	13424.4	13234.5	12996.0	12704.4	12359.9	11949.0	11476.4	10937.5	10314.6	9607.8	8848.0
7.5°	13433.3	13252.2	13035.7	12757.4	12417.3	12019.7	11551.5	11021.4	10403.0	9700.6	8936.4
5°	13428.9	13256.6	13062.2	12792.8	12452.6	12059.5	11600.1	11078.8	10464.8	9762.4	9002.6
2.5°	13415.6	13261.0	13079.9	12819.3	12492.4	12103.6	11648.7	11145.1	10531.1	9815.4	9055.6
0°	13451.0	13318.4	13088.7	12810.4	12501.2	12103.6	11644.2	11153.9	10539.9	9811.0	9051.2





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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°	110.4	106.0	106.0	101.6	97.2	92.8	83.9	79.5	70.7	57.4	44.2
85°	238.5	225.3	212.0	203.2	194.4	185.5	172.3	159.0	141.4	114.9	88.3
82.5°	419.7	393.1	366.6	335.7	309.2	282.7	260.6	238.5	212.0	172.3	132.5
80°	600.8	561.0	521.3	477.1	437.3	393.1	353.4	318.1	282.7	229.7	176.7
77.5°	781.9	728.9	671.4	618.4	561.0	503.6	446.2	397.6	344.6	282.7	220.9
75°	949.7	887.9	834.9	759.8	689.1	614.0	538.9	472.7	406.4	331.3	265.0
72.5°	1117.6	1038.1	963.0	892.3	812.8	720.0	636.1	552.2	468.2	379.9	300.4
70°	1285.5	1188.3	1095.5	1011.6	923.2	830.5	728.9	631.7	530.1	424.1	331.3
67.5°	1457.7	1347.3	1241.3	1135.3	1033.7	927.7	821.6	711.2	591.9	468.2	366.6
65°	1647.7	1510.7	1382.6	1263.4	1144.1	1029.3	910.0	790.7	658.2	516.8	397.6
62.5°	1837.6	1687.4	1537.3	1387.1	1254.5	1126.4	998.3	865.8	720.0	569.8	428.5
60°	2040.8	1868.6	1696.3	1528.4	1365.0	1223.6	1082.3	940.9	786.3	618.4	459.4
57.5°	2266.1	2058.5	1864.1	1674.2	1488.7	1320.8	1166.2	1016.0	843.7	667.0	494.7
55°	2522.3	2266.1	2036.4	1824.4	1621.2	1418.0	1250.1	1095.5	910.0	715.6	534.5
52.5°	2791.8	2495.8	2217.5	1979.0	1762.5	1532.8	1329.6	1157.4	976.2	764.2	569.8
50°	3105.4	2729.9	2420.7	2129.2	1886.2	1647.7	1413.6	1228.0	1042.5	821.6	605.2
47.5°	3427.9	3012.7	2623.9	2305.9	2018.7	1758.1	1510.7	1289.9	1104.3	874.6	640.5
45°	3803.4	3282.1	2853.6	2478.2	2146.9	1873.0	1607.9	1356.1	1157.4	927.7	675.9
42.5°	4165.6	3600.2	3092.2	2668.1	2292.6	1983.4	1696.3	1426.8	1210.4	980.7	706.8
40°	4594.1	3918.2	3321.9	2849.2	2438.4	2089.4	1784.6	1501.9	1259.0	1029.3	737.7
37.5°	5004.9	4240.7	3600.2	3048.0	2579.8	2195.4	1873.0	1572.6	1303.1	1077.8	777.5
35°	5411.3	4598.5	3865.2	3233.5	2725.5	2314.7	1961.3	1638.9	1347.3	1117.6	812.8
32.5°	5800.0	4934.2	4134.7	3441.1	2884.6	2425.1	2040.8	1700.7	1391.5	1152.9	848.1
30°	6162.3	5252.3	4399.7	3653.2	3030.3	2526.7	2115.9	1762.5	1444.5	1183.9	883.5
27.5°	6493.6	5561.5	4664.8	3852.0	3167.3	2619.5	2195.4	1820.0	1488.7	1214.8	914.4
25°	6793.9	5839.8	4907.7	4033.1	3291.0	2721.1	2270.5	1877.4	1528.4	1241.3	940.9
22.5°	7076.7	6096.0	5128.6	4214.2	3441.1	2822.7	2341.2	1930.4	1568.2	1267.8	967.4
20°	7324.0	6330.1	5340.6	4395.3	3573.7	2915.5	2403.1	1979.0	1603.5	1285.5	993.9
17.5°	7522.8	6537.7	5530.6	4554.3	3688.5	2995.0	2456.1	2023.2	1634.4	1307.5	1011.6
15°	7699.5	6714.4	5689.6	4691.3	3790.1	3061.3	2504.7	2058.5	1660.9	1320.8	1033.7
12.5°	7849.7	6864.6	5826.5	4810.5	3878.5	3118.7	2544.4	2085.0	1683.0	1334.1	1046.9
10°	7973.4	6983.9	5941.4	4903.3	3949.1	3162.9	2575.3	2111.5	1700.7	1347.3	1060.2
7.5°	8066.2	7072.2	6025.3	4982.8	4006.6	3193.8	2601.8	2129.2	1718.4	1356.1	1082.3
5°	8136.8	7147.3	6091.6	5035.8	4050.7	3237.9	2632.8	2151.3	1736.0	1365.0	1082.3
2.5°	8189.8	7209.2	6144.6	5080.0	4086.1	3229.1	2632.8	2146.9	1736.0	1365.0	1077.8
0°	8181.0	7213.6	6140.2	5080.0	4086.1	3220.3	2632.8	2142.4	1736.0	1365.0	1077.8



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	30.9	22.1	8.8	0.0
85°	66.3	44.2	22.1	0.0
82.5°	97.2	61.8	30.9	0.0
80°	128.1	83.9	39.8	0.0
77.5°	163.4	106.0	53.0	0.0
75°	194.4	123.7	61.8	0.0
72.5°	225.3	145.8	70.7	0.0
70°	251.8	163.4	79.5	0.0
67.5°	278.3	185.5	92.8	0.0
65°	300.4	203.2	101.6	0.0
62.5°	318.1	225.3	110.4	0.0
60°	340.1	243.0	119.3	0.0
57.5°	357.8	256.2	128.1	0.0
55°	375.5	265.0	136.9	0.0
52.5°	393.1	278.3	145.8	0.0
50°	410.8	291.5	154.6	0.0
47.5°	428.5	300.4	159.0	0.0
45°	455.0	313.6	167.9	0.0
42.5°	477.1	322.5	176.7	0.0
40°	499.2	331.3	181.1	0.0
37.5°	521.3	340.1	189.9	0.0
35°	543.3	349.0	194.4	0.0
32.5°	561.0	357.8	198.8	0.0
30°	578.7	366.6	203.2	0.0
27.5°	596.3	371.1	207.6	0.0
25°	609.6	379.9	212.0	0.0
22.5°	622.9	384.3	216.5	0.0
20°	631.7	388.7	220.9	0.0
17.5°	644.9	393.1	225.3	0.0
15°	649.4	397.6	234.1	0.0
12.5°	658.2	402.0	234.1	0.0
10°	662.6	406.4	234.1	0.0
7.5°	671.4	406.4	234.1	0.0
5°	667.0	406.4	234.1	0.0
2.5°	667.0	406.4	234.1	0.0
0°	662.6	406.4	234.1	0.0

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