

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: P628287

Luminaire Tested: **IFLD-L-SA7B-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628287  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

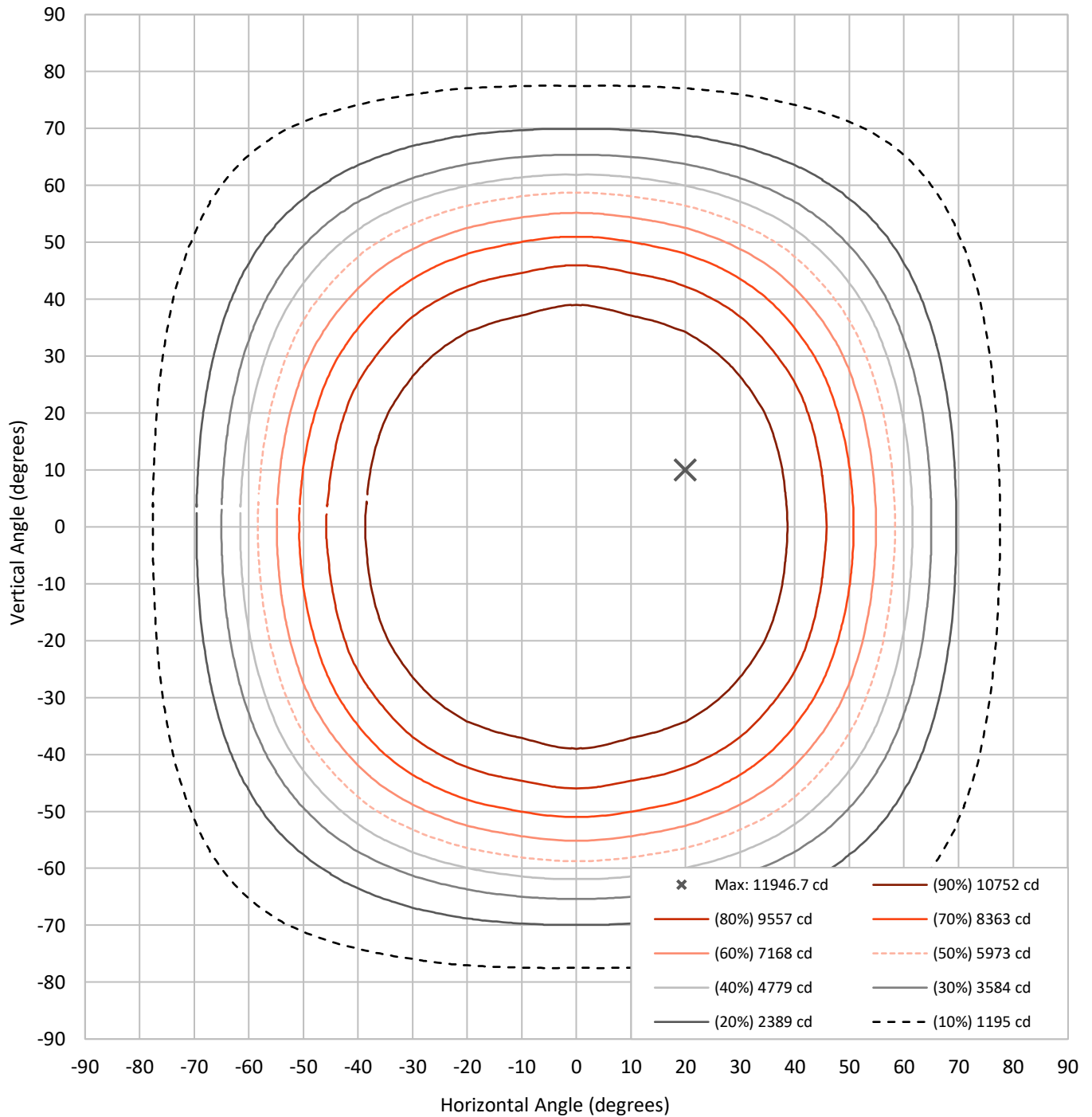
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36650.9 lumens	Max Intensity:	11946.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	130.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22489.8 lumens	Field Lumens:	26961.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281  
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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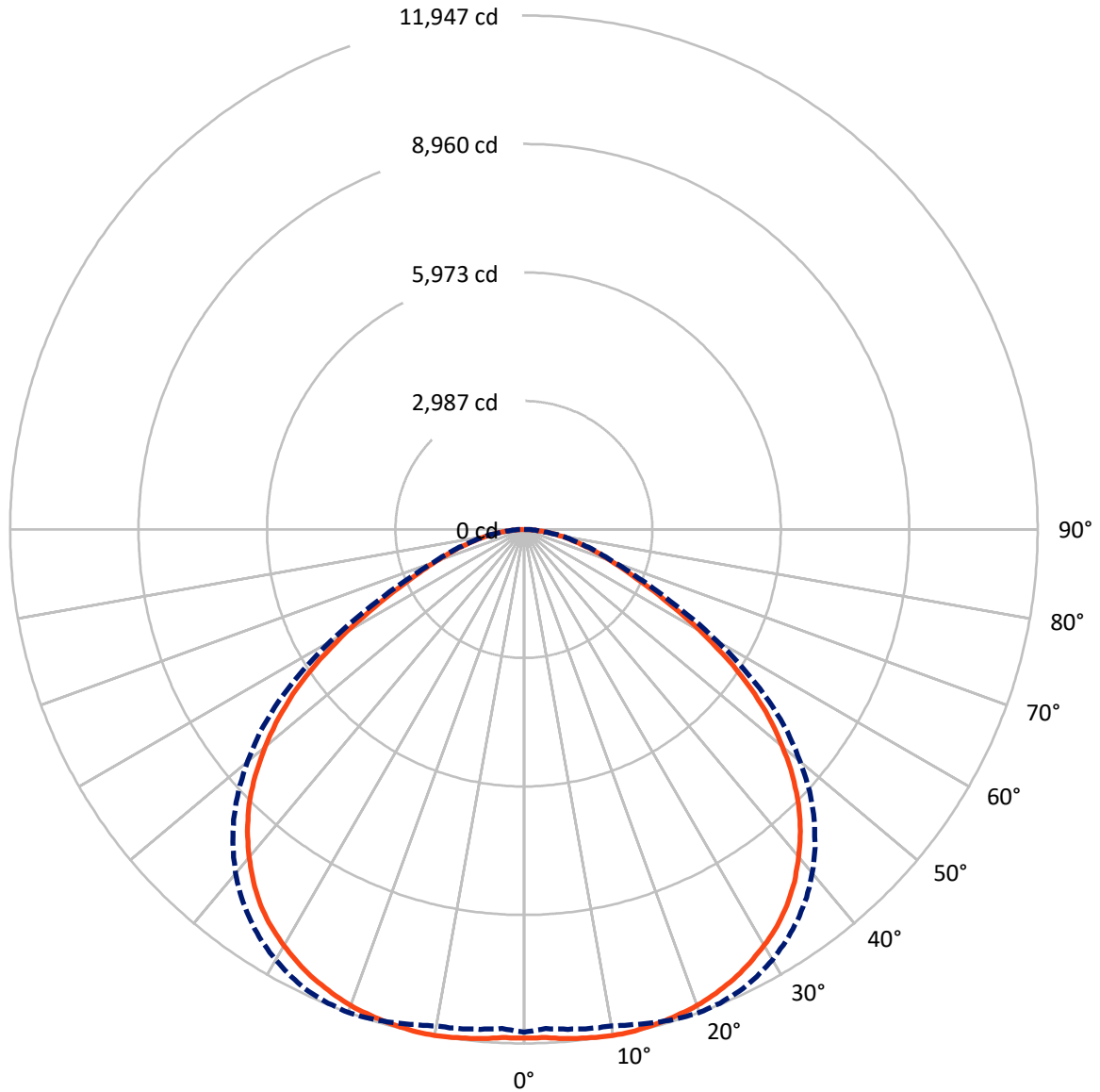
### Iso-Candela Plot





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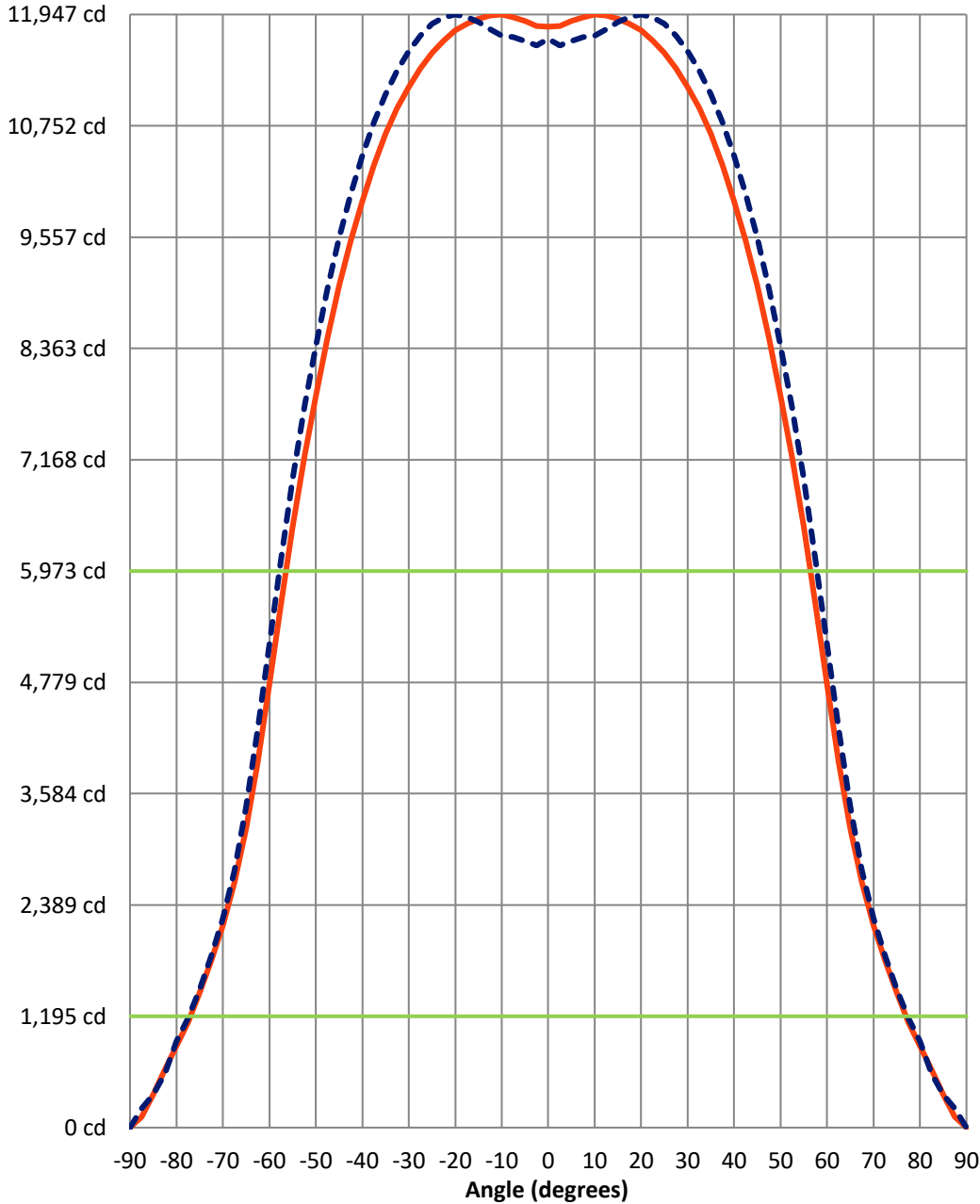
### Luminous Intensity Polar Plot



— 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: 22489.8  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 26961.4  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 9689.5  
 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°	96.4	104.1	108.0	111.8	115.7	119.5	123.4	119.5	115.7	115.7	111.8
85°	258.4	266.1	269.9	296.9	323.9	339.4	358.6	354.8	354.8	350.9	347.1
82.5°	516.7	539.9	559.2	586.2	601.6	624.7	640.1	628.6	620.9	605.4	593.9
80°	917.8	925.5	929.4	933.2	913.9	910.1	902.4	890.8	875.4	856.1	836.8
77.5°	1168.4	1176.2	1183.9	1176.2	1172.3	1168.4	1156.9	1145.3	1129.9	1114.5	1091.3
75°	1546.4	1546.4	1546.4	1534.8	1527.1	1515.5	1496.2	1477.0	1450.0	1419.1	1384.4
72.5°	1947.4	1943.6	1939.7	1916.6	1897.3	1874.1	1847.2	1824.0	1793.2	1758.5	1712.2
70°	2367.7	2375.5	2379.3	2348.5	2325.3	2294.5	2259.8	2217.4	2171.1	2120.9	2055.4
67.5°	2946.2	2938.5	2930.8	2888.3	2857.5	2815.1	2764.9	2703.2	2633.8	2556.7	2464.2
65°	3663.5	3675.0	3651.9	3609.5	3551.6	3482.2	3405.1	3316.4	3212.3	3096.6	2965.5
62.5°	4531.1	4550.4	4523.4	4469.4	4396.1	4303.6	4195.6	4068.4	3925.7	3763.7	3601.8
60°	5518.3	5514.5	5464.3	5391.1	5294.7	5179.0	5059.4	4920.6	4758.6	4569.7	4373.0
57.5°	6424.5	6416.8	6355.1	6281.9	6185.5	6062.1	5934.8	5788.3	5618.6	5418.1	5190.5
55°	7238.2	7230.5	7168.8	7091.7	6991.4	6868.0	6752.3	6613.5	6447.7	6235.6	5992.6
52.5°	7959.3	7963.2	7909.2	7824.4	7716.4	7596.9	7485.0	7346.2	7188.1	6976.0	6740.8
50°	8622.6	8618.8	8560.9	8483.8	8383.5	8267.8	8156.0	8017.2	7851.4	7647.0	7419.5
47.5°	9239.6	9231.9	9166.4	9081.5	8977.4	8877.1	8773.0	8649.6	8476.1	8271.7	8044.2
45°	9756.4	9740.9	9675.4	9594.4	9494.1	9405.4	9312.9	9220.3	9035.2	8846.3	8630.3
42.5°	10199.8	10196.0	10130.4	10049.4	9949.2	9872.1	9787.2	9671.5	9517.3	9343.7	9131.6
40°	10624.0	10593.2	10527.6	10450.5	10357.9	10292.4	10207.5	10091.9	9941.5	9771.8	9567.4
37.5°	10940.2	10944.1	10874.7	10789.8	10708.9	10647.2	10570.0	10462.1	10330.9	10165.1	9960.7
35°	11241.0	11221.7	11163.9	11090.6	11017.4	10948.0	10867.0	10774.4	10666.4	10512.2	10319.4
32.5°	11437.7	11464.7	11395.3	11318.2	11275.7	11221.7	11136.9	11040.5	10944.1	10789.8	10616.3
30°	11653.6	11630.5	11576.5	11511.0	11480.1	11445.4	11372.1	11279.6	11167.8	11028.9	10867.0
27.5°	11804.0	11792.5	11726.9	11665.2	11649.8	11618.9	11561.1	11480.1	11368.3	11233.3	11082.9
25°	11869.6	11877.3	11815.6	11780.9	11780.9	11761.6	11715.3	11645.9	11534.1	11410.7	11264.2
22.5°	11900.4	11892.7	11850.3	11842.6	11861.9	11846.5	11827.2	11765.5	11665.2	11565.0	11441.6
20°	11919.7	11865.7	11827.2	11858.0	11881.2	11877.3	11861.9	11823.3	11777.0	11692.2	11584.2
17.5°	11877.3	11842.6	11796.3	11842.6	11892.7	11896.6	11881.2	11858.0	11846.5	11792.5	11696.1
15°	11773.2	11746.2	11753.9	11800.2	11858.0	11877.3	11888.9	11915.9	11900.4	11858.0	11773.2
12.5°	11703.8	11669.1	11703.8	11750.1	11780.9	11792.5	11885.0	11935.2	11935.2	11896.6	11842.6
10°	11684.5	11615.1	11661.4	11703.8	11719.2	11788.6	11865.7	11919.7	11946.7	11915.9	11846.5
7.5°	11645.9	11599.7	11618.9	11638.2	11726.9	11777.0	11819.5	11877.3	11915.9	11912.0	11850.3
5°	11626.7	11568.8	11576.5	11657.5	11719.2	11753.9	11769.3	11819.5	11877.3	11888.9	11842.6
2.5°	11576.5	11549.5	11607.4	11615.1	11661.4	11688.4	11703.8	11750.1	11823.3	11850.3	11831.0
0°	11549.5	11511.0	11472.4	11503.3	11580.4	11638.2	11661.4	11730.8	11815.6	11842.6	11800.2



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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°	108.0	104.1	100.3	96.4	100.3	100.3	100.3	96.4	100.3	96.4	96.4
85°	335.5	320.1	308.5	293.1	277.7	266.1	250.7	235.2	231.4	227.5	219.8
82.5°	578.4	559.2	539.9	516.7	493.6	466.6	439.6	408.8	401.1	393.3	381.8
80°	813.7	786.7	759.7	732.7	709.6	682.6	651.7	617.0	593.9	574.6	551.4
77.5°	1060.5	1021.9	983.3	937.1	910.1	883.1	852.2	817.5	782.8	752.0	717.3
75°	1342.0	1299.6	1261.0	1214.7	1164.6	1114.5	1064.3	1018.1	967.9	921.6	875.4
72.5°	1654.3	1592.6	1530.9	1473.1	1411.4	1349.7	1284.1	1222.4	1160.7	1099.0	1033.5
70°	1982.1	1905.0	1827.9	1750.7	1669.8	1588.8	1511.7	1434.5	1357.4	1276.4	1203.2
67.5°	2367.7	2279.1	2178.8	2070.8	1951.3	1847.2	1746.9	1654.3	1561.8	1469.2	1376.7
65°	2849.8	2726.4	2591.4	2444.9	2306.0	2167.2	2020.7	1881.9	1773.9	1665.9	1561.8
62.5°	3443.6	3270.1	3081.2	2892.2	2722.5	2541.3	2371.6	2190.4	2020.7	1866.4	1739.2
60°	4153.2	3918.0	3686.6	3443.6	3208.4	2961.6	2745.7	2522.0	2309.9	2120.9	1935.8
57.5°	4936.0	4662.2	4384.6	4087.6	3767.6	3478.4	3185.3	2892.2	2641.5	2390.9	2182.6
55°	5730.4	5441.2	5128.8	4793.3	4442.4	4072.2	3675.0	3347.2	3004.0	2711.0	2441.0
52.5°	6486.2	6185.5	5861.5	5553.0	5132.7	4708.5	4272.7	3840.8	3439.8	3065.7	2738.0
50°	7161.1	6868.0	6555.7	6197.0	5807.5	5356.4	4870.5	4384.6	3910.3	3470.6	3061.9
47.5°	7778.1	7492.7	7180.4	6821.7	6467.0	5965.6	5475.9	4939.9	4411.6	3906.4	3428.2
45°	8356.5	8067.3	7743.4	7400.2	6991.4	6544.1	6038.9	5499.0	4932.2	4365.3	3813.9
42.5°	8881.0	8591.8	8264.0	7909.2	7504.3	7060.8	6571.1	6027.3	5456.6	4839.6	4234.2
40°	9339.9	9058.4	8742.2	8372.0	7994.0	7527.4	7045.4	6528.7	5938.7	5317.8	4650.7
37.5°	9740.9	9478.7	9166.4	8800.0	8399.0	7982.5	7485.0	6968.3	6436.1	5761.3	5078.7
35°	10095.7	9852.8	9532.7	9185.6	8792.3	8352.7	7886.1	7380.9	6806.3	6173.9	5510.6
32.5°	10404.2	10157.4	9864.3	9517.3	9135.5	8722.9	8244.7	7735.7	7191.9	6547.9	5826.8
30°	10666.4	10427.4	10149.7	9821.9	9455.6	9046.8	8580.2	8067.3	7512.0	6871.9	6158.5
27.5°	10894.0	10666.4	10396.5	10091.9	9740.9	9347.6	8877.1	8360.4	7793.5	7176.5	6463.1
25°	11090.6	10870.8	10620.2	10330.9	9983.9	9598.3	9154.8	8614.9	8048.0	7427.2	6721.5
22.5°	11268.0	11055.9	10805.3	10523.8	10207.5	9821.9	9374.6	8838.6	8264.0	7650.8	6956.7
20°	11426.1	11229.5	10982.7	10693.4	10377.2	9987.7	9544.3	9035.2	8456.8	7855.2	7168.8
17.5°	11553.4	11379.9	11133.1	10828.4	10512.2	10134.3	9702.4	9235.8	8622.6	8028.8	7346.2
15°	11642.1	11472.4	11248.7	10940.2	10631.7	10257.7	9825.8	9343.7	8773.0	8167.6	7492.7
12.5°	11703.8	11522.5	11314.3	11028.9	10720.4	10350.2	9929.9	9455.6	8900.3	8291.0	7620.0
10°	11719.2	11553.4	11345.1	11090.6	10789.8	10431.2	10018.6	9548.1	9004.4	8387.4	7724.1
7.5°	11726.9	11568.8	11379.9	11136.9	10840.0	10492.9	10084.1	9621.4	9081.5	8468.4	7801.2
5°	11723.1	11572.7	11403.0	11167.8	10870.8	10527.6	10126.6	9671.5	9135.5	8522.4	7859.1
2.5°	11711.5	11576.5	11418.4	11190.9	10905.5	10566.2	10169.0	9729.4	9193.3	8568.6	7905.4
0°	11742.3	11626.7	11426.1	11183.2	10913.2	10566.2	10165.1	9737.1	9201.1	8564.8	7901.5





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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°	96.4	92.6	92.6	88.7	84.8	81.0	73.3	69.4	61.7	50.1	38.6
85°	208.2	196.7	185.1	177.4	169.7	162.0	150.4	138.8	123.4	100.3	77.1
82.5°	366.3	343.2	320.1	293.1	269.9	246.8	227.5	208.2	185.1	150.4	115.7
80°	524.5	489.7	455.0	416.5	381.8	343.2	308.5	277.7	246.8	200.5	154.3
77.5°	682.6	636.3	586.2	539.9	489.7	439.6	389.5	347.1	300.8	246.8	192.8
75°	829.1	775.1	728.8	663.3	601.6	536.0	470.5	412.6	354.8	289.2	231.4
72.5°	975.6	906.2	840.7	779.0	709.6	628.6	555.3	482.0	408.8	331.6	262.2
70°	1122.2	1037.3	956.4	883.1	806.0	725.0	636.3	551.4	462.8	370.2	289.2
67.5°	1272.6	1176.2	1083.6	991.1	902.4	809.8	717.3	620.9	516.7	408.8	320.1
65°	1438.4	1318.8	1207.0	1102.9	998.8	898.5	794.4	690.3	574.6	451.2	347.1
62.5°	1604.2	1473.1	1342.0	1210.9	1095.2	983.3	871.5	755.8	628.6	497.5	374.1
60°	1781.6	1631.2	1480.8	1334.3	1191.6	1068.2	944.8	821.4	686.4	539.9	401.1
57.5°	1978.3	1797.0	1627.3	1461.5	1299.6	1153.0	1018.1	886.9	736.5	582.3	431.9
55°	2201.9	1978.3	1777.7	1592.6	1415.3	1237.9	1091.3	956.4	794.4	624.7	466.6
52.5°	2437.2	2178.8	1935.8	1727.6	1538.7	1338.1	1160.7	1010.3	852.2	667.1	497.5
50°	2711.0	2383.2	2113.2	1858.7	1646.6	1438.4	1234.0	1072.0	910.1	717.3	528.3
47.5°	2992.5	2630.0	2290.6	2013.0	1762.3	1534.8	1318.8	1126.0	964.1	763.5	559.2
45°	3320.2	2865.2	2491.2	2163.4	1874.1	1635.1	1403.7	1183.9	1010.3	809.8	590.0
42.5°	3636.5	3142.9	2699.4	2329.2	2001.4	1731.5	1480.8	1245.6	1056.6	856.1	617.0
40°	4010.5	3420.5	2899.9	2487.3	2128.7	1824.0	1557.9	1311.1	1099.0	898.5	644.0
37.5°	4369.2	3702.0	3142.9	2660.8	2252.1	1916.6	1635.1	1372.8	1137.6	940.9	678.7
35°	4723.9	4014.4	3374.2	2822.8	2379.3	2020.7	1712.2	1430.7	1176.2	975.6	709.6
32.5°	5063.3	4307.5	3609.5	3004.0	2518.1	2117.1	1781.6	1484.7	1214.7	1006.5	740.4
30°	5379.5	4585.1	3840.8	3189.1	2645.4	2205.8	1847.2	1538.7	1261.0	1033.5	771.3
27.5°	5668.7	4855.0	4072.2	3362.7	2764.9	2286.8	1916.6	1588.8	1299.6	1060.5	798.2
25°	5930.9	5098.0	4284.3	3520.8	2872.9	2375.5	1982.1	1638.9	1334.3	1083.6	821.4
22.5°	6177.7	5321.7	4477.1	3678.9	3004.0	2464.2	2043.8	1685.2	1369.0	1106.7	844.5
20°	6393.7	5526.0	4662.2	3837.0	3119.7	2545.1	2097.8	1727.6	1399.8	1122.2	867.7
17.5°	6567.2	5707.3	4828.1	3975.8	3220.0	2614.6	2144.1	1766.2	1426.8	1141.5	883.1
15°	6721.5	5861.5	4966.9	4095.4	3308.7	2672.4	2186.5	1797.0	1450.0	1153.0	902.4
12.5°	6852.6	5992.6	5086.4	4199.5	3385.8	2722.5	2221.2	1820.2	1469.2	1164.6	913.9
10°	6960.6	6096.8	5186.7	4280.5	3447.5	2761.1	2248.2	1843.3	1484.7	1176.2	925.5
7.5°	7041.5	6173.9	5260.0	4349.9	3497.6	2788.1	2271.3	1858.7	1500.1	1183.9	944.8
5°	7103.2	6239.4	5317.8	4396.1	3536.2	2826.6	2298.3	1878.0	1515.5	1191.6	944.8
2.5°	7149.5	6293.4	5364.1	4434.7	3567.0	2818.9	2298.3	1874.1	1515.5	1191.6	940.9
0°	7141.8	6297.3	5360.2	4434.7	3567.0	2811.2	2298.3	1870.3	1515.5	1191.6	940.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.0	19.3	7.7	0.0
85°	57.8	38.6	19.3	0.0
82.5°	84.8	54.0	27.0	0.0
80°	111.8	73.3	34.7	0.0
77.5°	142.7	92.6	46.3	0.0
75°	169.7	108.0	54.0	0.0
72.5°	196.7	127.3	61.7	0.0
70°	219.8	142.7	69.4	0.0
67.5°	242.9	162.0	81.0	0.0
65°	262.2	177.4	88.7	0.0
62.5°	277.7	196.7	96.4	0.0
60°	296.9	212.1	104.1	0.0
57.5°	312.4	223.7	111.8	0.0
55°	327.8	231.4	119.5	0.0
52.5°	343.2	242.9	127.3	0.0
50°	358.6	254.5	135.0	0.0
47.5°	374.1	262.2	138.8	0.0
45°	397.2	273.8	146.5	0.0
42.5°	416.5	281.5	154.3	0.0
40°	435.8	289.2	158.1	0.0
37.5°	455.0	296.9	165.8	0.0
35°	474.3	304.6	169.7	0.0
32.5°	489.7	312.4	173.5	0.0
30°	505.2	320.1	177.4	0.0
27.5°	520.6	323.9	181.2	0.0
25°	532.2	331.6	185.1	0.0
22.5°	543.7	335.5	189.0	0.0
20°	551.4	339.4	192.8	0.0
17.5°	563.0	343.2	196.7	0.0
15°	566.9	347.1	204.4	0.0
12.5°	574.6	350.9	204.4	0.0
10°	578.4	354.8	204.4	0.0
7.5°	586.2	354.8	204.4	0.0
5°	582.3	354.8	204.4	0.0
2.5°	582.3	354.8	204.4	0.0
0°	578.4	354.8	204.4	0.0

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