

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: P628511

Luminaire Tested: **IFLD-S-SA6D-940-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628511  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-940-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34002.4 lumens	Max Intensity:	11083.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	92.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

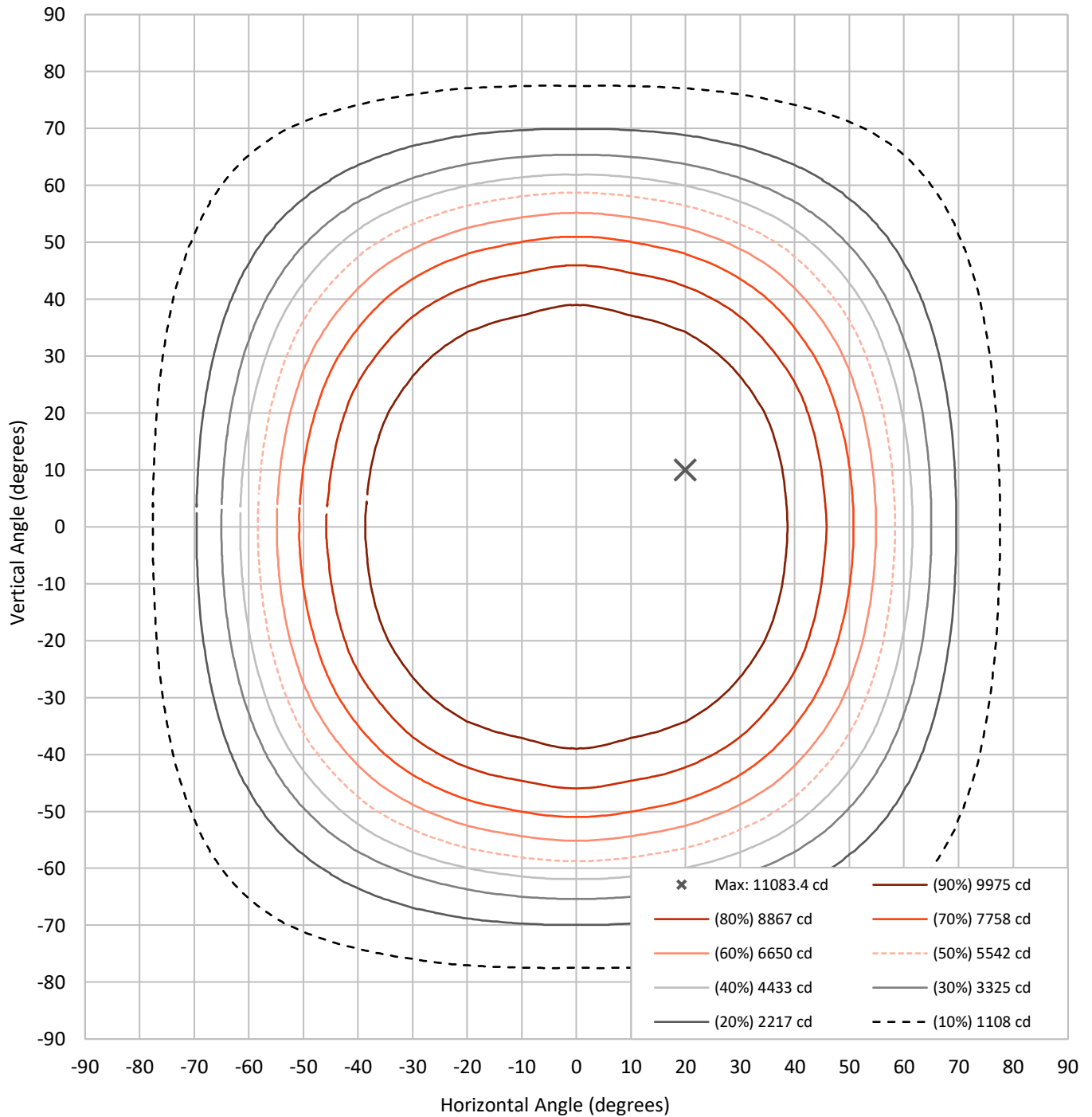
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20864.6 lumens	Field Lumens:	25013.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 368.2  
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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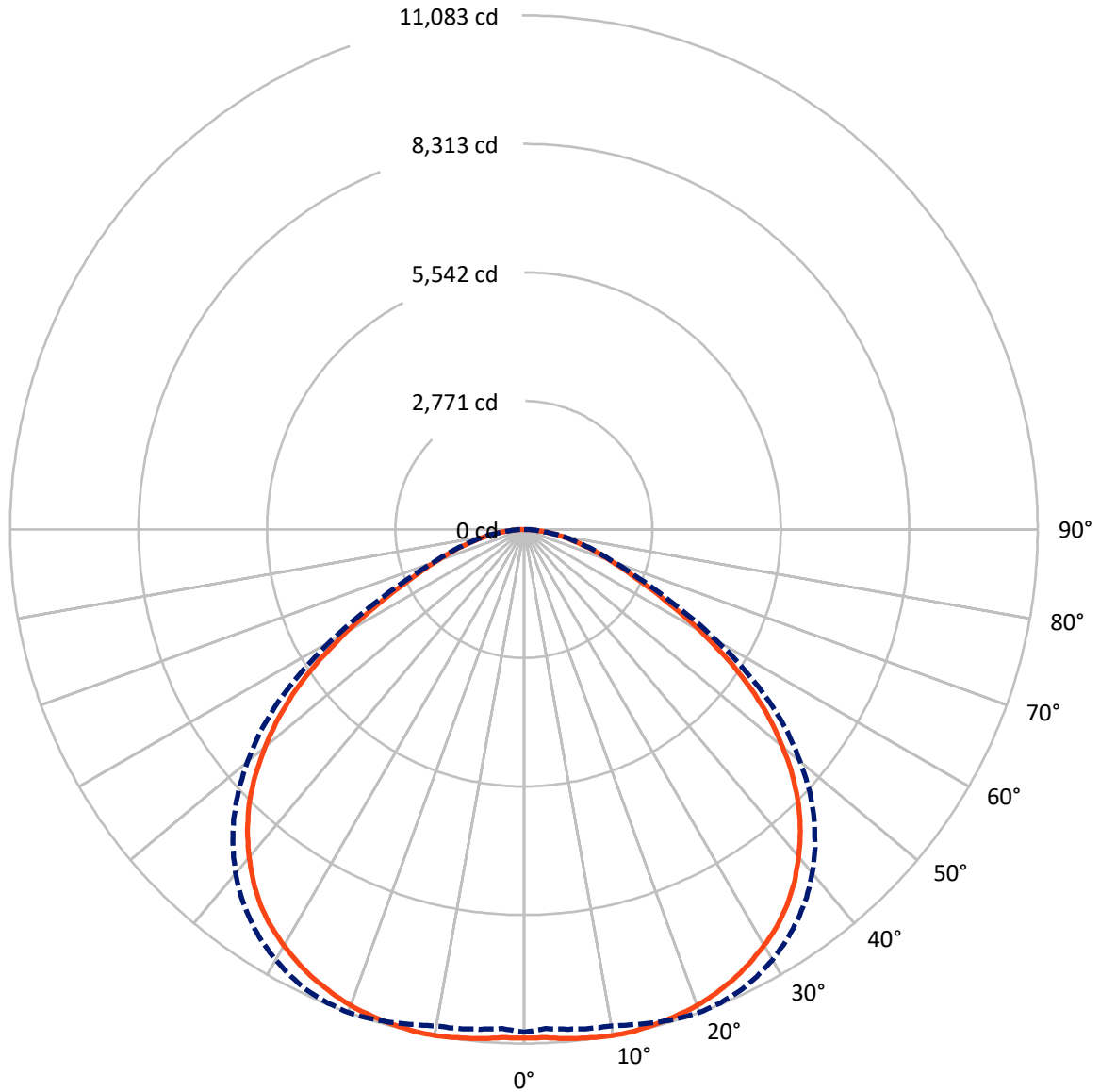
### Iso-Candela Plot





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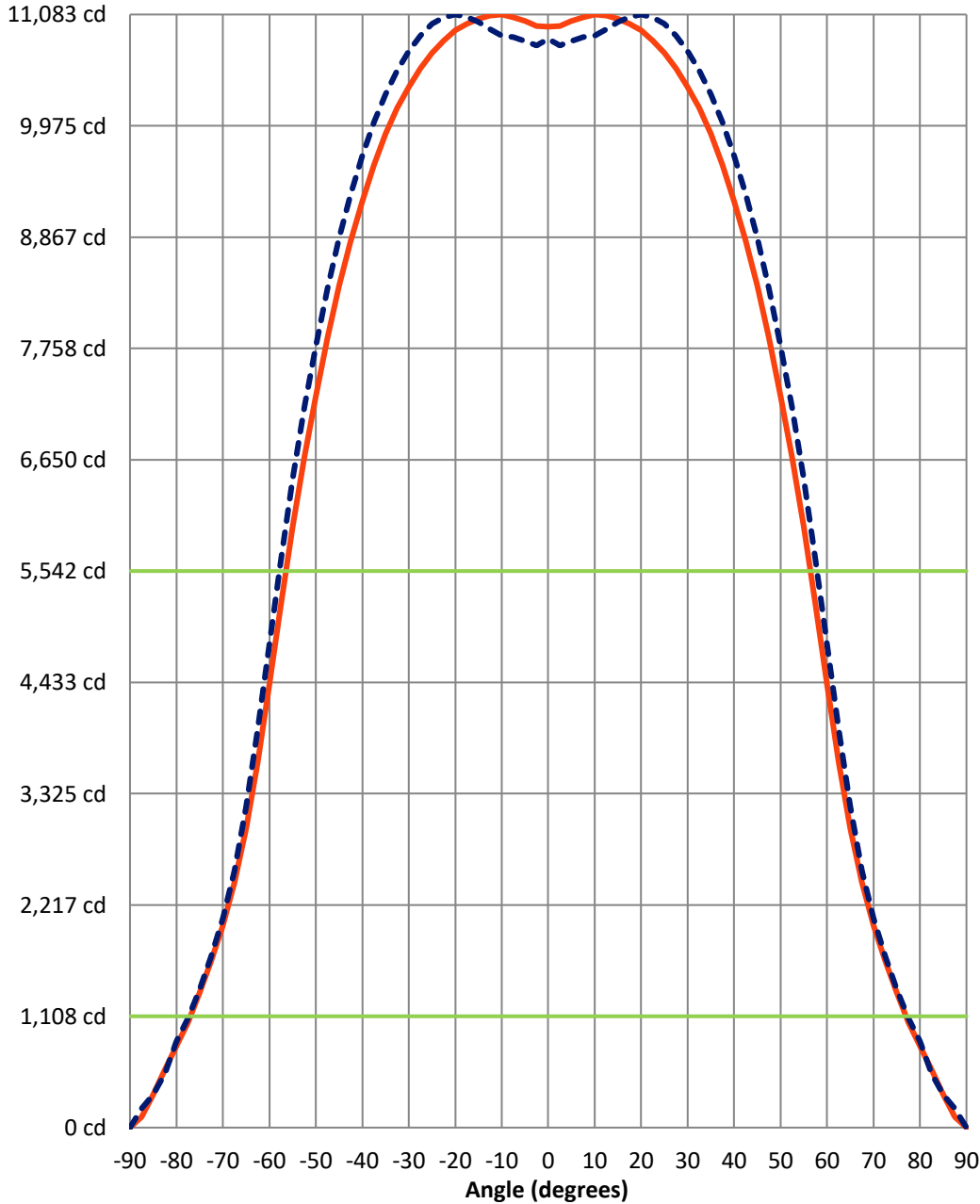
### Luminous Intensity Polar Plot



— 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: 20864.6  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 25013.1  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 8989.3  
 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°	89.4	96.6	100.2	103.8	107.3	110.9	114.5	110.9	107.3	107.3	103.8
85°	239.7	246.9	250.4	275.5	300.5	314.8	332.7	329.1	329.1	325.6	322.0
82.5°	479.4	500.9	518.8	543.8	558.1	579.6	593.9	583.1	576.0	561.7	551.0
80°	851.5	858.6	862.2	865.8	847.9	844.3	837.2	826.4	812.1	794.2	776.3
77.5°	1084.0	1091.2	1098.3	1091.2	1087.6	1084.0	1073.3	1062.5	1048.2	1033.9	1012.5
75°	1434.6	1434.6	1434.6	1423.9	1416.7	1406.0	1388.1	1370.2	1345.2	1316.6	1284.4
72.5°	1806.7	1803.1	1799.5	1778.1	1760.2	1738.7	1713.7	1692.2	1663.6	1631.4	1588.5
70°	2196.6	2203.8	2207.4	2178.8	2157.3	2128.7	2096.5	2057.1	2014.2	1967.7	1906.9
67.5°	2733.3	2726.1	2719.0	2679.6	2651.0	2611.6	2565.1	2507.9	2443.5	2371.9	2286.1
65°	3398.7	3409.5	3388.0	3348.6	3295.0	3230.6	3159.0	3076.7	2980.1	2872.8	2751.2
62.5°	4203.7	4221.6	4196.5	4146.4	4078.5	3992.6	3892.4	3774.4	3642.0	3491.7	3341.5
60°	5119.5	5116.0	5069.5	5001.5	4912.0	4804.7	4693.8	4565.0	4414.8	4239.5	4057.0
57.5°	5960.3	5953.1	5895.9	5827.9	5738.5	5624.0	5505.9	5370.0	5212.6	5026.5	4815.4
55°	6715.2	6708.0	6650.8	6579.2	6486.2	6371.7	6264.4	6135.6	5981.7	5785.0	5559.6
52.5°	7384.2	7387.7	7337.7	7258.9	7158.8	7047.9	6944.1	6815.3	6668.6	6471.9	6253.6
50°	7999.5	7995.9	7942.3	7870.7	7777.7	7670.4	7566.6	7437.8	7284.0	7094.4	6883.3
47.5°	8571.9	8564.8	8504.0	8425.2	8328.7	8235.6	8139.0	8024.6	7863.6	7674.0	7462.9
45°	9051.3	9037.0	8976.2	8901.1	8808.1	8725.8	8639.9	8554.0	8382.3	8207.0	8006.7
42.5°	9462.8	9459.2	9398.4	9323.2	9230.2	9158.7	9079.9	8972.6	8829.5	8668.5	8471.8
40°	9856.3	9827.7	9766.8	9695.3	9609.4	9548.6	9469.9	9362.6	9223.1	9065.6	8876.0
37.5°	10149.7	10153.2	10088.8	10010.1	9935.0	9877.8	9806.2	9706.0	9584.4	9430.6	9240.9
35°	10428.7	10410.8	10357.2	10289.2	10221.2	10156.8	10081.7	9995.8	9895.6	9752.5	9573.7
32.5°	10611.2	10636.2	10571.8	10500.3	10460.9	10410.8	10332.1	10242.7	10153.2	10010.1	9849.1
30°	10811.5	10790.0	10740.0	10679.1	10650.5	10618.3	10550.3	10464.5	10360.7	10231.9	10081.7
27.5°	10951.0	10940.3	10879.5	10822.2	10807.9	10779.3	10725.6	10650.5	10546.8	10421.5	10282.0
25°	11011.9	11019.0	10961.8	10929.6	10929.6	10911.7	10868.7	10804.4	10700.6	10586.1	10450.2
22.5°	11040.5	11033.3	10994.0	10986.8	11004.7	10990.4	10972.5	10915.3	10822.2	10729.2	10614.7
20°	11058.4	11008.3	10972.5	11001.1	11022.6	11019.0	11004.7	10968.9	10926.0	10847.3	10747.1
17.5°	11019.0	10986.8	10943.9	10986.8	11033.3	11036.9	11022.6	11001.1	10990.4	10940.3	10850.9
15°	10922.4	10897.4	10904.5	10947.5	11001.1	11019.0	11029.7	11054.8	11040.5	11001.1	10922.4
12.5°	10858.0	10825.8	10858.0	10900.9	10929.6	10940.3	11026.2	11072.7	11072.7	11036.9	10986.8
10°	10840.1	10775.7	10818.7	10858.0	10872.3	10936.7	11008.3	11058.4	11083.4	11054.8	10990.4
7.5°	10804.4	10761.4	10779.3	10797.2	10879.5	10926.0	10965.3	11019.0	11054.8	11051.2	10994.0
5°	10786.5	10732.8	10740.0	10815.1	10872.3	10904.5	10918.8	10965.3	11019.0	11029.7	10986.8
2.5°	10740.0	10714.9	10768.6	10775.7	10818.7	10843.7	10858.0	10900.9	10968.9	10994.0	10976.1
0°	10714.9	10679.1	10643.4	10672.0	10743.5	10797.2	10818.7	10883.1	10961.8	10986.8	10947.5



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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°	100.2	96.6	93.0	89.4	93.0	93.0	93.0	89.4	93.0	89.4	89.4
85°	311.3	296.9	286.2	271.9	257.6	246.9	232.5	218.2	214.7	211.1	203.9
82.5°	536.6	518.8	500.9	479.4	457.9	432.9	407.8	379.2	372.1	364.9	354.2
80°	754.9	729.8	704.8	679.7	658.3	633.2	604.6	572.4	551.0	533.1	511.6
77.5°	983.8	948.1	912.3	869.4	844.3	819.3	790.6	758.5	726.3	697.6	665.4
75°	1245.0	1205.7	1169.9	1126.9	1080.4	1033.9	987.4	944.5	898.0	855.0	812.1
72.5°	1534.8	1477.5	1420.3	1366.6	1309.4	1252.2	1191.3	1134.1	1076.9	1019.6	958.8
70°	1838.9	1767.3	1695.8	1624.2	1549.1	1474.0	1402.4	1330.9	1259.3	1184.2	1116.2
67.5°	2196.6	2114.4	2021.3	1921.2	1810.3	1713.7	1620.7	1534.8	1448.9	1363.1	1277.2
65°	2643.8	2529.4	2404.1	2268.2	2139.4	2010.6	1874.7	1745.9	1645.7	1545.5	1448.9
62.5°	3194.8	3033.8	2858.5	2683.2	2525.8	2357.6	2200.2	2032.1	1874.7	1731.6	1613.5
60°	3853.1	3634.8	3420.2	3194.8	2976.6	2747.6	2547.3	2339.8	2143.0	1967.7	1796.0
57.5°	4579.3	4325.3	4067.7	3792.3	3495.3	3227.0	2955.1	2683.2	2450.7	2218.1	2024.9
55°	5316.3	5048.0	4758.2	4447.0	4121.4	3777.9	3409.5	3105.4	2787.0	2515.1	2264.6
52.5°	6017.5	5738.5	5438.0	5151.7	4761.8	4368.2	3964.0	3563.3	3191.2	2844.2	2540.1
50°	6643.6	6371.7	6081.9	5749.2	5387.9	4969.3	4518.5	4067.7	3627.7	3219.8	2840.6
47.5°	7216.0	6951.3	6661.5	6328.8	5999.6	5534.5	5080.2	4582.9	4092.8	3624.1	3180.5
45°	7752.7	7484.3	7183.8	6865.4	6486.2	6071.2	5602.5	5101.7	4575.7	4049.8	3538.2
42.5°	8239.2	7970.9	7666.8	7337.7	6962.0	6550.6	6096.2	5591.8	5062.3	4489.9	3928.2
40°	8664.9	8403.8	8110.4	7767.0	7416.4	6983.5	6536.3	6056.9	5509.5	4933.5	4314.6
37.5°	9037.0	8793.7	8504.0	8164.1	7792.0	7405.6	6944.1	6464.7	5971.0	5344.9	4711.7
35°	9366.2	9140.8	8843.8	8521.8	8156.9	7749.1	7316.2	6847.5	6314.5	5727.7	5112.4
32.5°	9652.4	9423.4	9151.5	8829.5	8475.3	8092.5	7648.9	7176.7	6672.2	6074.8	5405.8
30°	9895.6	9673.8	9416.2	9112.1	8772.3	8393.0	7960.2	7484.3	6969.2	6375.3	5713.4
27.5°	10106.7	9895.6	9645.2	9362.6	9037.0	8672.1	8235.6	7756.2	7230.3	6657.9	5996.1
25°	10289.2	10085.3	9852.7	9584.4	9262.4	8904.6	8493.2	7992.4	7466.5	6890.5	6235.8
22.5°	10453.7	10257.0	10024.4	9763.3	9469.9	9112.1	8697.1	8199.9	7666.8	7098.0	6454.0
20°	10600.4	10418.0	10189.0	9920.7	9627.3	9266.0	8854.6	8382.3	7845.7	7287.6	6650.8
17.5°	10718.5	10557.5	10328.5	10045.9	9752.5	9401.9	9001.2	8568.4	7999.5	7448.6	6815.3
15°	10800.8	10643.4	10435.9	10149.7	9863.4	9516.4	9115.7	8668.5	8139.0	7577.4	6951.3
12.5°	10858.0	10689.9	10496.7	10231.9	9945.7	9602.3	9212.3	8772.3	8257.1	7691.8	7069.3
10°	10872.3	10718.5	10525.3	10289.2	10010.1	9677.4	9294.6	8858.1	8353.7	7781.3	7165.9
7.5°	10879.5	10732.8	10557.5	10332.1	10056.6	9734.6	9355.4	8926.1	8425.2	7856.4	7237.5
5°	10875.9	10736.4	10579.0	10360.7	10085.3	9766.8	9394.8	8972.6	8475.3	7906.5	7291.1
2.5°	10865.2	10740.0	10593.3	10382.2	10117.5	9802.6	9434.1	9026.3	8529.0	7949.4	7334.1
0°	10893.8	10786.5	10600.4	10375.0	10124.6	9802.6	9430.6	9033.4	8536.2	7945.8	7330.5





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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°	89.4	85.9	85.9	82.3	78.7	75.1	68.0	64.4	57.2	46.5	35.8
85°	193.2	182.5	171.7	164.6	157.4	150.3	139.5	128.8	114.5	93.0	71.6
82.5°	339.9	318.4	296.9	271.9	250.4	229.0	211.1	193.2	171.7	139.5	107.3
80°	486.6	454.4	422.2	386.4	354.2	318.4	286.2	257.6	229.0	186.0	143.1
77.5°	633.2	590.3	543.8	500.9	454.4	407.8	361.3	322.0	279.1	229.0	178.9
75°	769.2	719.1	676.2	615.3	558.1	497.3	436.5	382.8	329.1	268.3	214.7
72.5°	905.1	840.7	779.9	722.7	658.3	583.1	515.2	447.2	379.2	307.7	243.3
70°	1041.1	962.4	887.2	819.3	747.7	672.6	590.3	511.6	429.3	343.4	268.3
67.5°	1180.6	1091.2	1005.3	919.4	837.2	751.3	665.4	576.0	479.4	379.2	296.9
65°	1334.4	1223.5	1119.8	1023.2	926.6	833.6	737.0	640.4	533.1	418.6	322.0
62.5°	1488.3	1366.6	1245.0	1123.4	1016.0	912.3	808.5	701.2	583.1	461.5	347.0
60°	1652.9	1513.3	1373.8	1237.8	1105.5	991.0	876.5	762.0	636.8	500.9	372.1
57.5°	1835.3	1667.2	1509.7	1355.9	1205.7	1069.7	944.5	822.8	683.3	540.2	400.7
55°	2042.8	1835.3	1649.3	1477.5	1313.0	1148.4	1012.5	887.2	737.0	579.6	432.9
52.5°	2261.0	2021.3	1796.0	1602.8	1427.5	1241.4	1076.9	937.3	790.6	618.9	461.5
50°	2515.1	2211.0	1960.5	1724.4	1527.6	1334.4	1144.8	994.6	844.3	665.4	490.1
47.5°	2776.2	2439.9	2125.1	1867.5	1635.0	1423.9	1223.5	1044.7	894.4	708.4	518.8
45°	3080.3	2658.2	2311.1	2007.0	1738.7	1516.9	1302.2	1098.3	937.3	751.3	547.4
42.5°	3373.7	2915.7	2504.3	2160.9	1856.8	1606.3	1373.8	1155.6	980.3	794.2	572.4
40°	3720.7	3173.3	2690.4	2307.6	1974.8	1692.2	1445.4	1216.4	1019.6	833.6	597.5
37.5°	4053.4	3434.5	2915.7	2468.5	2089.3	1778.1	1516.9	1273.6	1055.4	872.9	629.7
35°	4382.6	3724.3	3130.4	2618.8	2207.4	1874.7	1588.5	1327.3	1091.2	905.1	658.3
32.5°	4697.4	3996.2	3348.6	2787.0	2336.2	1964.1	1652.9	1377.4	1126.9	933.8	686.9
30°	4990.8	4253.8	3563.3	2958.7	2454.2	2046.4	1713.7	1427.5	1169.9	958.8	715.5
27.5°	5259.1	4504.2	3777.9	3119.7	2565.1	2121.5	1778.1	1474.0	1205.7	983.8	740.6
25°	5502.3	4729.6	3974.7	3266.3	2665.3	2203.8	1838.9	1520.5	1237.8	1005.3	762.0
22.5°	5731.3	4937.1	4153.6	3413.0	2787.0	2286.1	1896.1	1563.4	1270.0	1026.8	783.5
20°	5931.7	5126.7	4325.3	3559.7	2894.3	2361.2	1946.2	1602.8	1298.7	1041.1	805.0
17.5°	6092.7	5294.8	4479.2	3688.5	2987.3	2425.6	1989.1	1638.5	1323.7	1059.0	819.3
15°	6235.8	5438.0	4607.9	3799.4	3069.6	2479.3	2028.5	1667.2	1345.2	1069.7	837.2
12.5°	6357.4	5559.6	4718.9	3896.0	3141.1	2525.8	2060.7	1688.6	1363.1	1080.4	847.9
10°	6457.6	5656.2	4811.9	3971.1	3198.4	2561.6	2085.7	1710.1	1377.4	1091.2	858.6
7.5°	6532.7	5727.7	4879.8	4035.5	3244.9	2586.6	2107.2	1724.4	1391.7	1098.3	876.5
5°	6589.9	5788.6	4933.5	4078.5	3280.7	2622.4	2132.2	1742.3	1406.0	1105.5	876.5
2.5°	6632.9	5838.6	4976.4	4114.2	3309.3	2615.2	2132.2	1738.7	1406.0	1105.5	872.9
0°	6625.7	5842.2	4972.9	4114.2	3309.3	2608.1	2132.2	1735.1	1406.0	1105.5	872.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.0	17.9	7.2	0.0
85°	53.7	35.8	17.9	0.0
82.5°	78.7	50.1	25.0	0.0
80°	103.8	68.0	32.2	0.0
77.5°	132.4	85.9	42.9	0.0
75°	157.4	100.2	50.1	0.0
72.5°	182.5	118.1	57.2	0.0
70°	203.9	132.4	64.4	0.0
67.5°	225.4	150.3	75.1	0.0
65°	243.3	164.6	82.3	0.0
62.5°	257.6	182.5	89.4	0.0
60°	275.5	196.8	96.6	0.0
57.5°	289.8	207.5	103.8	0.0
55°	304.1	214.7	110.9	0.0
52.5°	318.4	225.4	118.1	0.0
50°	332.7	236.1	125.2	0.0
47.5°	347.0	243.3	128.8	0.0
45°	368.5	254.0	135.9	0.0
42.5°	386.4	261.2	143.1	0.0
40°	404.3	268.3	146.7	0.0
37.5°	422.2	275.5	153.8	0.0
35°	440.0	282.6	157.4	0.0
32.5°	454.4	289.8	161.0	0.0
30°	468.7	296.9	164.6	0.0
27.5°	483.0	300.5	168.1	0.0
25°	493.7	307.7	171.7	0.0
22.5°	504.4	311.3	175.3	0.0
20°	511.6	314.8	178.9	0.0
17.5°	522.3	318.4	182.5	0.0
15°	525.9	322.0	189.6	0.0
12.5°	533.1	325.6	189.6	0.0
10°	536.6	329.1	189.6	0.0
7.5°	543.8	329.1	189.6	0.0
5°	540.2	329.1	189.6	0.0
2.5°	540.2	329.1	189.6	0.0
0°	536.6	329.1	189.6	0.0

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