

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: P628409

Luminaire Tested: **IFLD-L-SA8C-830-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628409  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	41431.9 lumens	Max Intensity:	13505.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

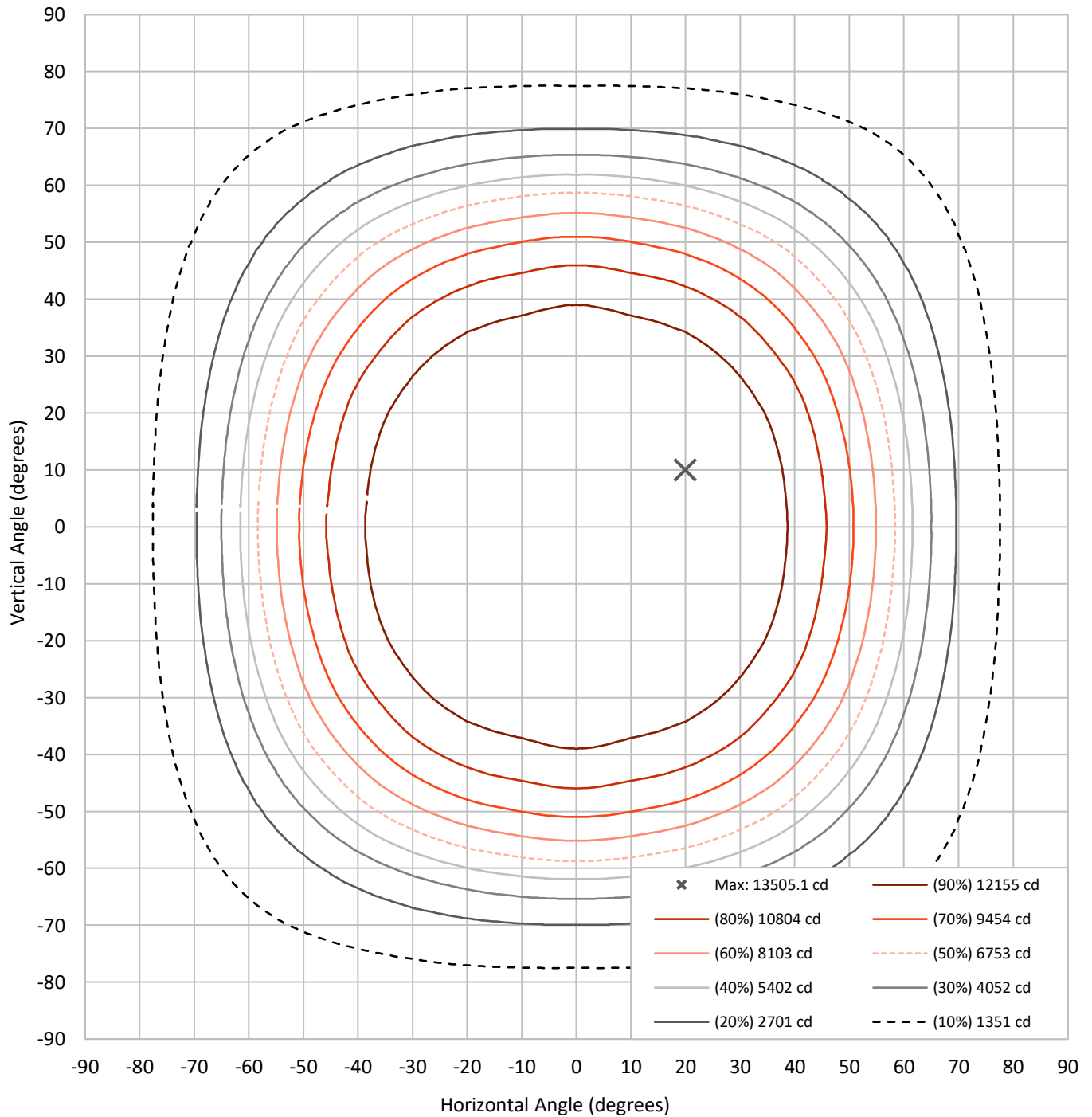
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	25423.5 lumens	Field Lumens:	30478.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3  
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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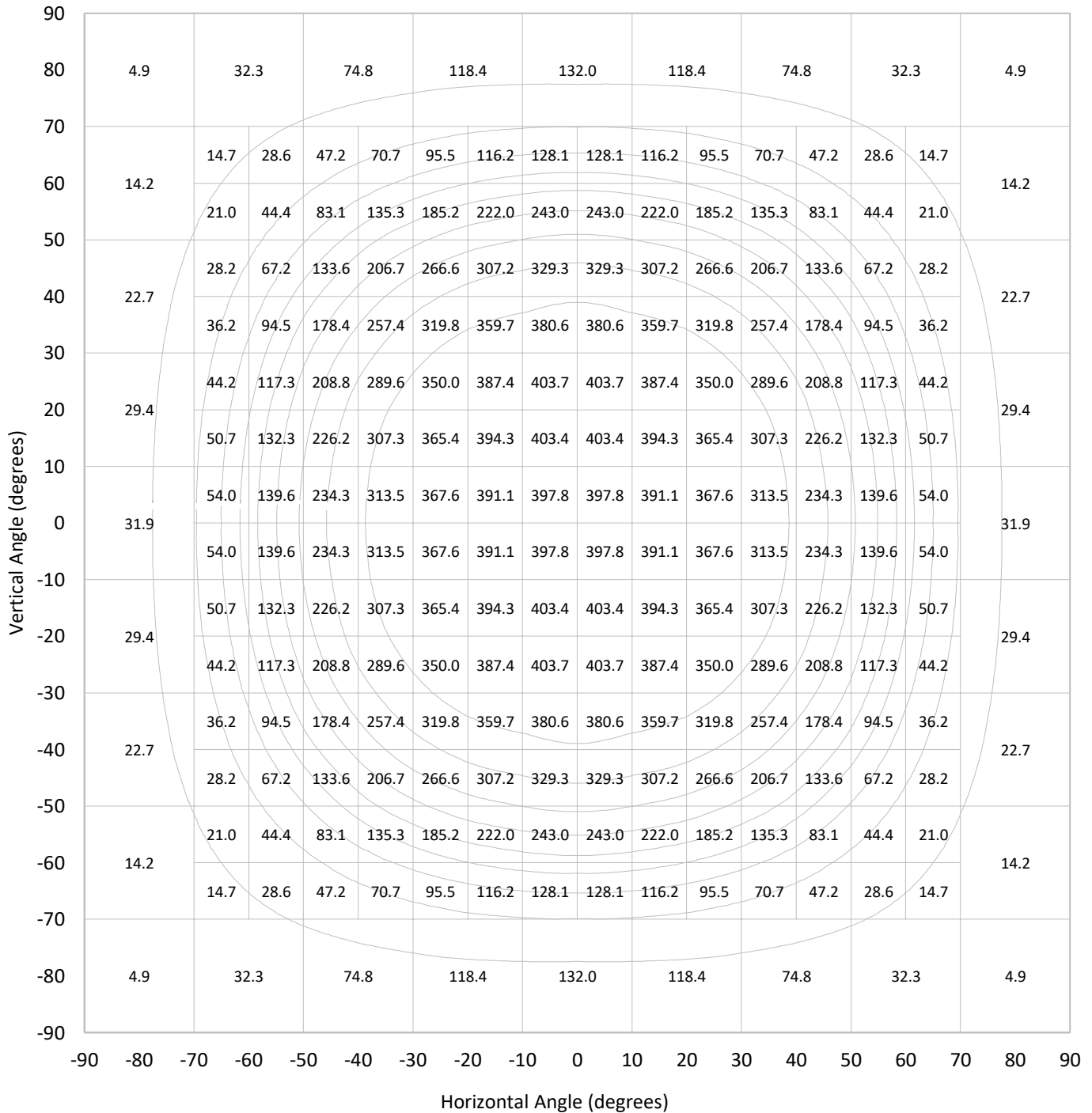
### Iso-Candela Plot





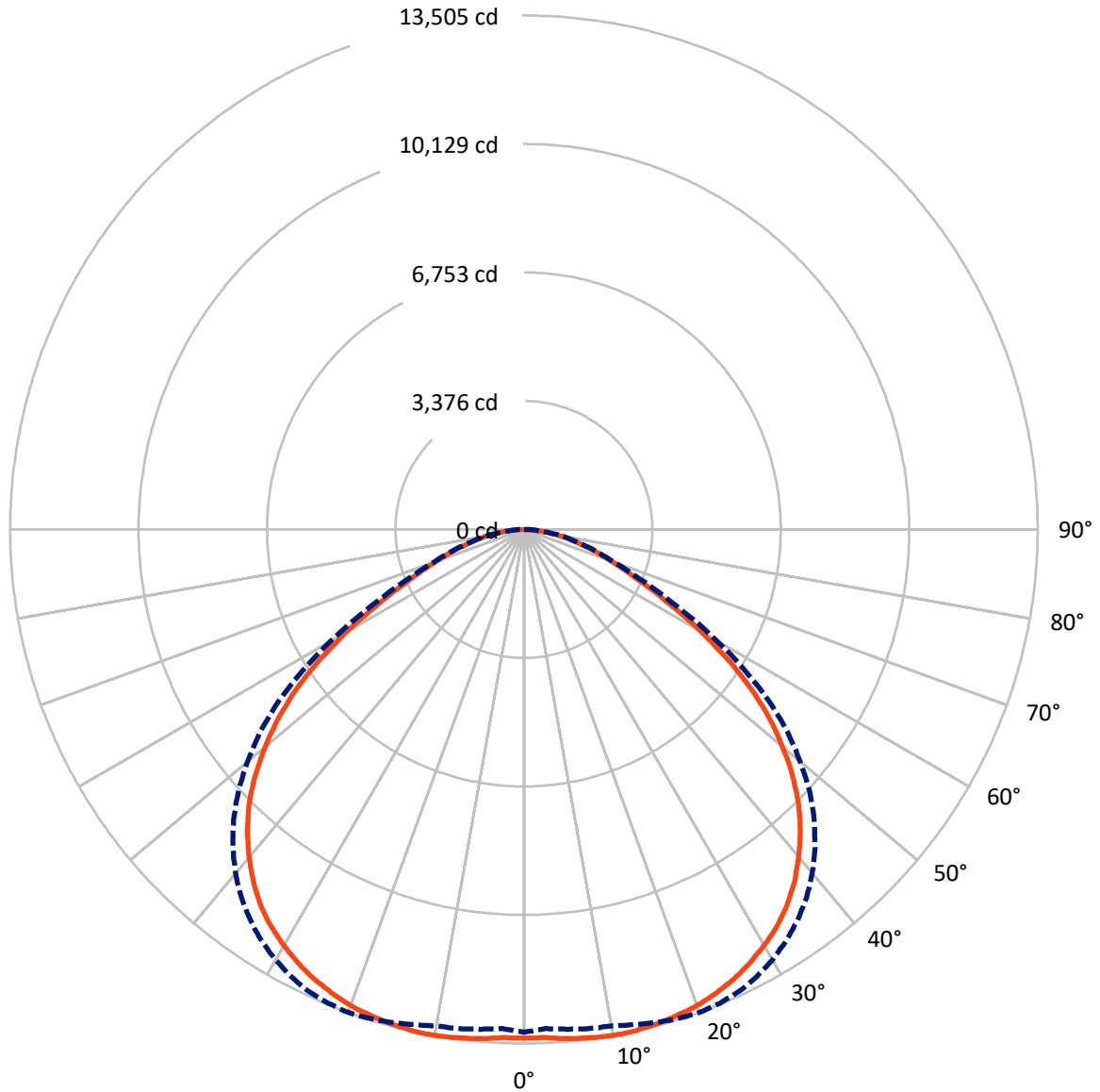
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### Lumen Table



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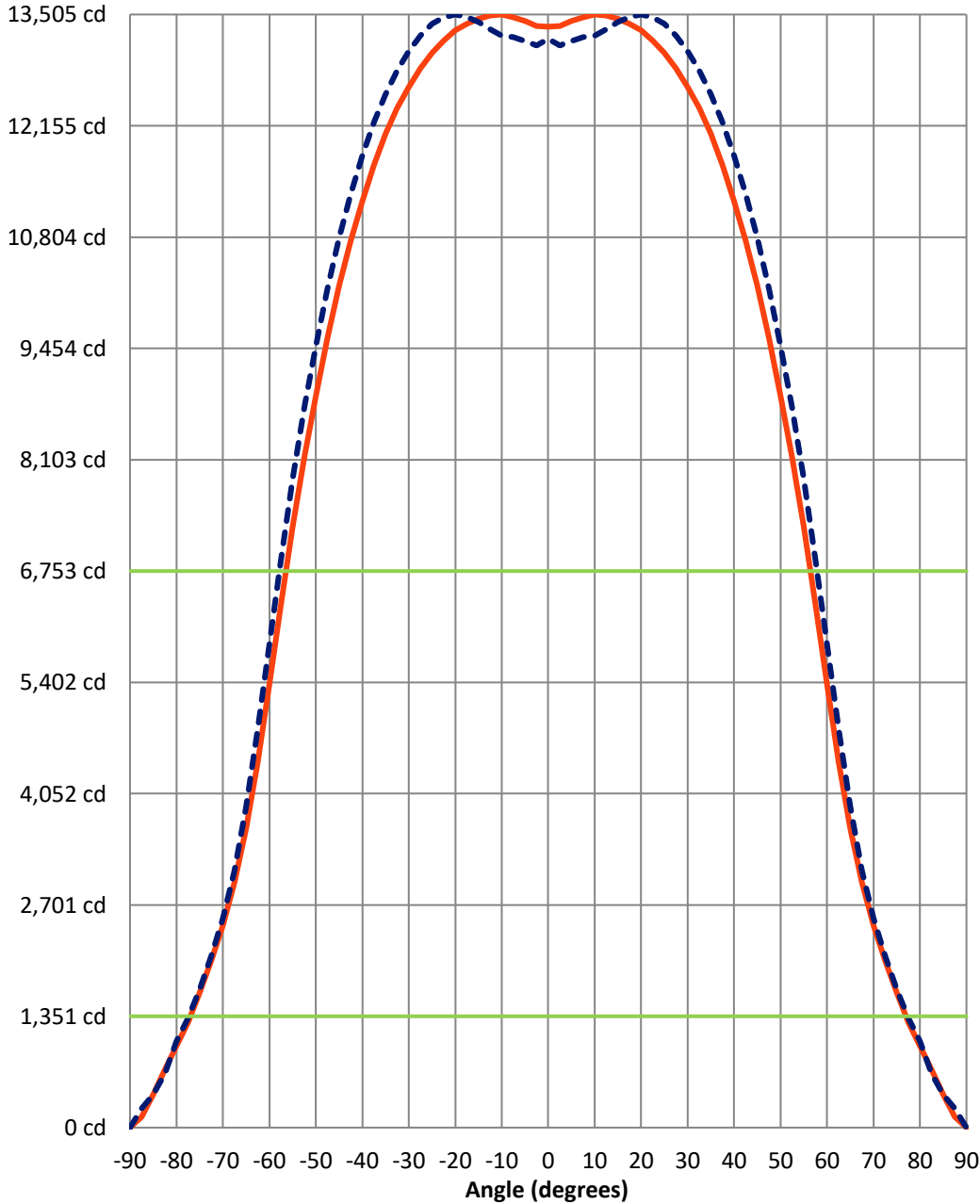
### Luminous Intensity Polar Plot



— 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: 25423.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 30478.4  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 10953.5  
 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°	109.0	117.7	122.1	126.4	130.8	135.1	139.5	135.1	130.8	130.8	126.4
85°	292.1	300.8	305.2	335.7	366.2	383.6	405.4	401.1	401.1	396.7	392.3
82.5°	584.1	610.3	632.1	662.6	680.1	706.2	723.6	710.6	701.8	684.4	671.3
80°	1037.5	1046.2	1050.6	1055.0	1033.2	1028.8	1020.1	1007.0	989.6	967.8	946.0
77.5°	1320.9	1329.6	1338.3	1329.6	1325.2	1320.9	1307.8	1294.7	1277.3	1259.8	1233.7
75°	1748.1	1748.1	1748.1	1735.0	1726.3	1713.2	1691.4	1669.6	1639.1	1604.2	1565.0
72.5°	2201.5	2197.1	2192.7	2166.6	2144.8	2118.6	2088.1	2062.0	2027.1	1987.8	1935.5
70°	2676.6	2685.3	2689.7	2654.8	2628.7	2593.8	2554.6	2506.6	2454.3	2397.6	2323.5
67.5°	3330.5	3321.8	3313.1	3265.1	3230.2	3182.3	3125.6	3055.9	2977.4	2890.2	2785.6
65°	4141.3	4154.4	4128.3	4080.3	4014.9	3936.5	3849.3	3749.0	3631.3	3500.5	3352.3
62.5°	5122.2	5144.0	5113.5	5052.4	4969.6	4865.0	4742.9	4599.1	4437.8	4254.7	4071.6
60°	6238.2	6233.8	6177.1	6094.3	5985.3	5854.6	5719.4	5562.5	5379.4	5165.8	4943.5
57.5°	7262.6	7253.9	7184.1	7101.3	6992.3	6852.8	6709.0	6543.3	6351.5	6124.8	5867.6
55°	8182.4	8173.7	8104.0	8016.8	7903.4	7763.9	7633.2	7476.2	7288.8	7049.0	6774.4
52.5°	8997.6	9002.0	8940.9	8845.0	8723.0	8587.8	8461.4	8304.5	8125.8	7886.0	7620.1
50°	9747.4	9743.1	9677.7	9590.5	9477.1	9346.4	9219.9	9063.0	8875.6	8644.5	8387.3
47.5°	10444.9	10436.2	10362.1	10266.2	10148.5	10035.1	9917.4	9777.9	9581.8	9350.7	9093.5
45°	11029.1	11011.6	10937.5	10846.0	10732.6	10632.4	10527.7	10423.1	10213.9	10000.3	9756.1
42.5°	11530.4	11526.0	11451.9	11360.4	11247.0	11159.8	11063.9	10933.2	10758.8	10562.6	10322.8
40°	12009.9	11975.0	11900.9	11813.7	11709.1	11635.0	11539.1	11408.3	11238.3	11046.5	10815.5
37.5°	12367.4	12371.7	12293.3	12197.4	12105.8	12036.1	11948.9	11826.8	11678.6	11491.1	11260.1
35°	12707.4	12685.6	12620.2	12537.4	12454.6	12376.1	12284.5	12179.9	12057.9	11883.5	11665.5
32.5°	12929.7	12960.2	12881.8	12794.6	12746.6	12685.6	12589.7	12480.7	12371.7	12197.4	12001.2
30°	13173.8	13147.7	13086.7	13012.5	12977.7	12938.4	12855.6	12751.0	12624.6	12467.6	12284.5
27.5°	13343.9	13330.8	13256.7	13186.9	13169.5	13134.6	13069.2	12977.7	12851.3	12698.7	12528.7
25°	13418.0	13426.7	13356.9	13317.7	13317.7	13295.9	13243.6	13165.1	13038.7	12899.2	12733.5
22.5°	13452.8	13444.1	13396.2	13387.4	13409.2	13391.8	13370.0	13300.3	13186.9	13073.6	12934.1
20°	13474.6	13413.6	13370.0	13404.9	13431.0	13426.7	13409.2	13365.6	13313.3	13217.4	13095.4
17.5°	13426.7	13387.4	13335.1	13387.4	13444.1	13448.5	13431.0	13404.9	13391.8	13330.8	13221.8
15°	13309.0	13278.5	13287.2	13339.5	13404.9	13426.7	13439.8	13470.3	13452.8	13404.9	13309.0
12.5°	13230.5	13191.3	13230.5	13282.8	13317.7	13330.8	13435.4	13492.1	13492.1	13448.5	13387.4
10°	13208.7	13130.2	13182.6	13230.5	13247.9	13326.4	13413.6	13474.6	13505.1	13470.3	13391.8
7.5°	13165.1	13112.8	13134.6	13156.4	13256.7	13313.3	13361.3	13426.7	13470.3	13465.9	13396.2
5°	13143.3	13077.9	13086.7	13178.2	13247.9	13287.2	13304.6	13361.3	13426.7	13439.8	13387.4
2.5°	13086.7	13056.1	13121.5	13130.2	13182.6	13213.1	13230.5	13282.8	13365.6	13396.2	13374.4
0°	13056.1	13012.5	12969.0	13003.8	13091.0	13156.4	13182.6	13261.0	13356.9	13387.4	13339.5



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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°	122.1	117.7	113.3	109.0	113.3	113.3	113.3	109.0	113.3	109.0	109.0
85°	379.3	361.8	348.7	331.3	313.9	300.8	283.4	265.9	261.6	257.2	248.5
82.5°	653.9	632.1	610.3	584.1	558.0	527.5	497.0	462.1	453.4	444.6	431.6
80°	919.8	889.3	858.8	828.3	802.1	771.6	736.7	697.5	671.3	649.5	623.4
77.5°	1198.8	1155.2	1111.6	1059.3	1028.8	998.3	963.4	924.2	884.9	850.1	810.8
75°	1517.0	1469.1	1425.5	1373.2	1316.5	1259.8	1203.2	1150.9	1094.2	1041.9	989.6
72.5°	1870.1	1800.4	1730.6	1665.3	1595.5	1525.8	1451.7	1381.9	1312.2	1242.4	1168.3
70°	2240.7	2153.5	2066.3	1979.1	1887.6	1796.0	1708.9	1621.7	1534.5	1442.9	1360.1
67.5°	2676.6	2576.4	2463.0	2341.0	2205.8	2088.1	1974.8	1870.1	1765.5	1660.9	1556.3
65°	3221.5	3082.0	2929.5	2763.8	2606.9	2449.9	2284.3	2127.3	2005.3	1883.2	1765.5
62.5°	3892.9	3696.7	3483.1	3269.5	3077.7	2872.8	2681.0	2476.1	2284.3	2109.9	1966.0
60°	4695.0	4429.1	4167.5	3892.9	3626.9	3348.0	3103.8	2851.0	2611.2	2397.6	2188.4
57.5°	5579.9	5270.4	4956.5	4620.9	4259.0	3932.1	3600.8	3269.5	2986.1	2702.8	2467.4
55°	6477.9	6151.0	5797.9	5418.6	5021.9	4603.4	4154.4	3783.9	3395.9	3064.6	2759.4
52.5°	7332.4	6992.3	6626.2	6277.4	5802.2	5322.7	4830.1	4341.9	3888.5	3465.7	3095.1
50°	8095.2	7763.9	7410.8	7005.4	6565.1	6055.1	5505.8	4956.5	4420.3	3923.4	3461.3
47.5°	8792.7	8470.1	8117.0	7711.6	7310.6	6743.9	6190.2	5584.3	4987.1	4416.0	3875.4
45°	9446.6	9119.7	8753.5	8365.5	7903.4	7397.8	6826.7	6216.4	5575.6	4934.7	4311.4
42.5°	10039.5	9712.5	9342.0	8940.9	8483.2	7981.9	7428.3	6813.6	6168.4	5470.9	4786.5
40°	10558.3	10240.0	9882.6	9464.1	9036.9	8509.4	7964.5	7380.3	6713.3	6011.5	5257.3
37.5°	11011.6	10715.2	10362.1	9947.9	9494.6	9023.8	8461.4	7877.3	7275.7	6512.8	5741.2
35°	11412.7	11138.0	10776.2	10383.9	9939.2	9442.3	8914.8	8343.7	7694.2	6979.3	6229.5
32.5°	11761.4	11482.4	11151.1	10758.8	10327.2	9860.8	9320.2	8744.8	8130.1	7402.1	6586.9
30°	12057.9	11787.6	11473.7	11103.2	10689.0	10226.9	9699.5	9119.7	8491.9	7768.3	6961.8
27.5°	12315.1	12057.9	11752.7	11408.3	11011.6	10567.0	10035.1	9451.0	8810.2	8112.7	7306.2
25°	12537.4	12288.9	12005.5	11678.6	11286.3	10850.3	10349.0	9738.7	9097.9	8396.0	7598.3
22.5°	12737.9	12498.1	12214.8	11896.6	11539.1	11103.2	10597.5	9991.5	9342.0	8648.9	7864.2
20°	12916.6	12694.3	12415.3	12088.4	11730.9	11290.6	10789.3	10213.9	9560.0	8879.9	8104.0
17.5°	13060.5	12864.3	12585.3	12240.9	11883.5	11456.3	10968.0	10440.6	9747.4	9076.1	8304.5
15°	13160.8	12969.0	12716.1	12367.4	12018.6	11595.8	11107.5	10562.6	9917.4	9233.0	8470.1
12.5°	13230.5	13025.6	12790.2	12467.6	12118.9	11700.4	11225.2	10689.0	10061.3	9372.5	8614.0
10°	13247.9	13060.5	12825.1	12537.4	12197.4	11791.9	11325.5	10793.7	10179.0	9481.5	8731.7
7.5°	13256.7	13077.9	12864.3	12589.7	12254.0	11861.7	11399.6	10876.5	10266.2	9573.0	8818.9
5°	13252.3	13082.3	12890.5	12624.6	12288.9	11900.9	11447.6	10933.2	10327.2	9634.1	8884.3
2.5°	13239.2	13086.7	12907.9	12650.7	12328.1	11944.5	11495.5	10998.5	10392.6	9686.4	8936.6
0°	13274.1	13143.3	12916.6	12642.0	12336.9	11944.5	11491.1	11007.3	10401.3	9682.0	8932.2





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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°	109.0	104.6	104.6	100.3	95.9	91.5	82.8	78.5	69.7	56.7	43.6
85°	235.4	222.3	209.2	200.5	191.8	183.1	170.0	156.9	139.5	113.3	87.2
82.5°	414.1	388.0	361.8	331.3	305.2	279.0	257.2	235.4	209.2	170.0	130.8
80°	592.9	553.6	514.4	470.8	431.6	388.0	348.7	313.9	279.0	226.7	174.4
77.5°	771.6	719.3	662.6	610.3	553.6	497.0	440.3	392.3	340.0	279.0	218.0
75°	937.3	876.2	823.9	749.8	680.1	605.9	531.8	466.4	401.1	326.9	261.6
72.5°	1102.9	1024.4	950.3	880.6	802.1	710.6	627.7	544.9	462.1	374.9	296.4
70°	1268.6	1172.7	1081.1	998.3	911.1	819.6	719.3	623.4	523.1	418.5	326.9
67.5°	1438.6	1329.6	1225.0	1120.3	1020.1	915.5	810.8	701.8	584.1	462.1	361.8
65°	1626.0	1490.9	1364.5	1246.8	1129.1	1015.7	898.0	780.3	649.5	510.0	392.3
62.5°	1813.5	1665.3	1517.0	1368.8	1238.0	1111.6	985.2	854.4	710.6	562.4	422.9
60°	2014.0	1844.0	1674.0	1508.3	1347.0	1207.5	1068.0	928.5	776.0	610.3	453.4
57.5°	2236.3	2031.4	1839.6	1652.2	1469.1	1303.4	1150.9	1002.6	832.6	658.3	488.2
55°	2489.2	2236.3	2009.6	1800.4	1599.9	1399.3	1233.7	1081.1	898.0	706.2	527.5
52.5°	2755.1	2463.0	2188.4	1953.0	1739.4	1512.7	1312.2	1142.1	963.4	754.2	562.4
50°	3064.6	2694.1	2388.9	2101.2	1861.4	1626.0	1395.0	1211.9	1028.8	810.8	597.2
47.5°	3382.8	2973.1	2589.4	2275.6	1992.2	1735.0	1490.9	1272.9	1089.8	863.1	632.1
45°	3753.4	3239.0	2816.1	2445.6	2118.6	1848.3	1586.8	1338.3	1142.1	915.5	667.0
42.5°	4110.8	3552.8	3051.5	2633.0	2262.5	1957.3	1674.0	1408.1	1194.5	967.8	697.5
40°	4533.7	3866.7	3278.2	2811.8	2406.3	2062.0	1761.2	1482.2	1242.4	1015.7	728.0
37.5°	4939.1	4184.9	3552.8	3007.9	2545.8	2166.6	1848.3	1551.9	1286.0	1063.7	767.2
35°	5340.2	4538.0	3814.4	3191.0	2689.7	2284.3	1935.5	1617.3	1329.6	1102.9	802.1
32.5°	5723.8	4869.4	4080.3	3395.9	2846.6	2393.3	2014.0	1678.3	1373.2	1137.8	837.0
30°	6081.2	5183.2	4341.9	3605.2	2990.5	2493.5	2088.1	1739.4	1425.5	1168.3	871.9
27.5°	6408.2	5488.4	4603.4	3801.3	3125.6	2585.1	2166.6	1796.0	1469.1	1198.8	902.4
25°	6704.6	5763.0	4843.2	3980.1	3247.7	2685.3	2240.7	1852.7	1508.3	1225.0	928.5
22.5°	6983.6	6015.8	5061.2	4158.8	3395.9	2785.6	2310.4	1905.0	1547.6	1251.1	954.7
20°	7227.7	6246.9	5270.4	4337.5	3526.7	2877.1	2371.5	1953.0	1582.4	1268.6	980.8
17.5°	7423.9	6451.8	5457.9	4494.5	3640.0	2955.6	2423.8	1996.6	1612.9	1290.4	998.3
15°	7598.3	6626.2	5614.8	4629.6	3740.3	3021.0	2471.7	2031.4	1639.1	1303.4	1020.1
12.5°	7746.5	6774.4	5749.9	4747.3	3827.5	3077.7	2511.0	2057.6	1660.9	1316.5	1033.2
10°	7868.6	6892.1	5863.3	4838.8	3897.2	3121.3	2541.5	2083.8	1678.3	1329.6	1046.2
7.5°	7960.1	6979.3	5946.1	4917.3	3953.9	3151.8	2567.6	2101.2	1695.8	1338.3	1068.0
5°	8029.9	7053.4	6011.5	4969.6	3997.5	3195.4	2598.1	2123.0	1713.2	1347.0	1068.0
2.5°	8082.2	7114.4	6063.8	5013.2	4032.4	3186.7	2598.1	2118.6	1713.2	1347.0	1063.7
0°	8073.4	7118.8	6059.4	5013.2	4032.4	3177.9	2598.1	2114.3	1713.2	1347.0	1063.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	30.5	21.8	8.7	0.0
85°	65.4	43.6	21.8	0.0
82.5°	95.9	61.0	30.5	0.0
80°	126.4	82.8	39.2	0.0
77.5°	161.3	104.6	52.3	0.0
75°	191.8	122.1	61.0	0.0
72.5°	222.3	143.9	69.7	0.0
70°	248.5	161.3	78.5	0.0
67.5°	274.6	183.1	91.5	0.0
65°	296.4	200.5	100.3	0.0
62.5°	313.9	222.3	109.0	0.0
60°	335.7	239.8	117.7	0.0
57.5°	353.1	252.8	126.4	0.0
55°	370.5	261.6	135.1	0.0
52.5°	388.0	274.6	143.9	0.0
50°	405.4	287.7	152.6	0.0
47.5°	422.9	296.4	156.9	0.0
45°	449.0	309.5	165.7	0.0
42.5°	470.8	318.2	174.4	0.0
40°	492.6	326.9	178.7	0.0
37.5°	514.4	335.7	187.5	0.0
35°	536.2	344.4	191.8	0.0
32.5°	553.6	353.1	196.2	0.0
30°	571.1	361.8	200.5	0.0
27.5°	588.5	366.2	204.9	0.0
25°	601.6	374.9	209.2	0.0
22.5°	614.7	379.3	213.6	0.0
20°	623.4	383.6	218.0	0.0
17.5°	636.5	388.0	222.3	0.0
15°	640.8	392.3	231.0	0.0
12.5°	649.5	396.7	231.0	0.0
10°	653.9	401.1	231.0	0.0
7.5°	662.6	401.1	231.0	0.0
5°	658.3	401.1	231.0	0.0
2.5°	658.3	401.1	231.0	0.0
0°	653.9	401.1	231.0	0.0

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