

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: P628437

Luminaire Tested: **IFLD-L-SA8B-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628437  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

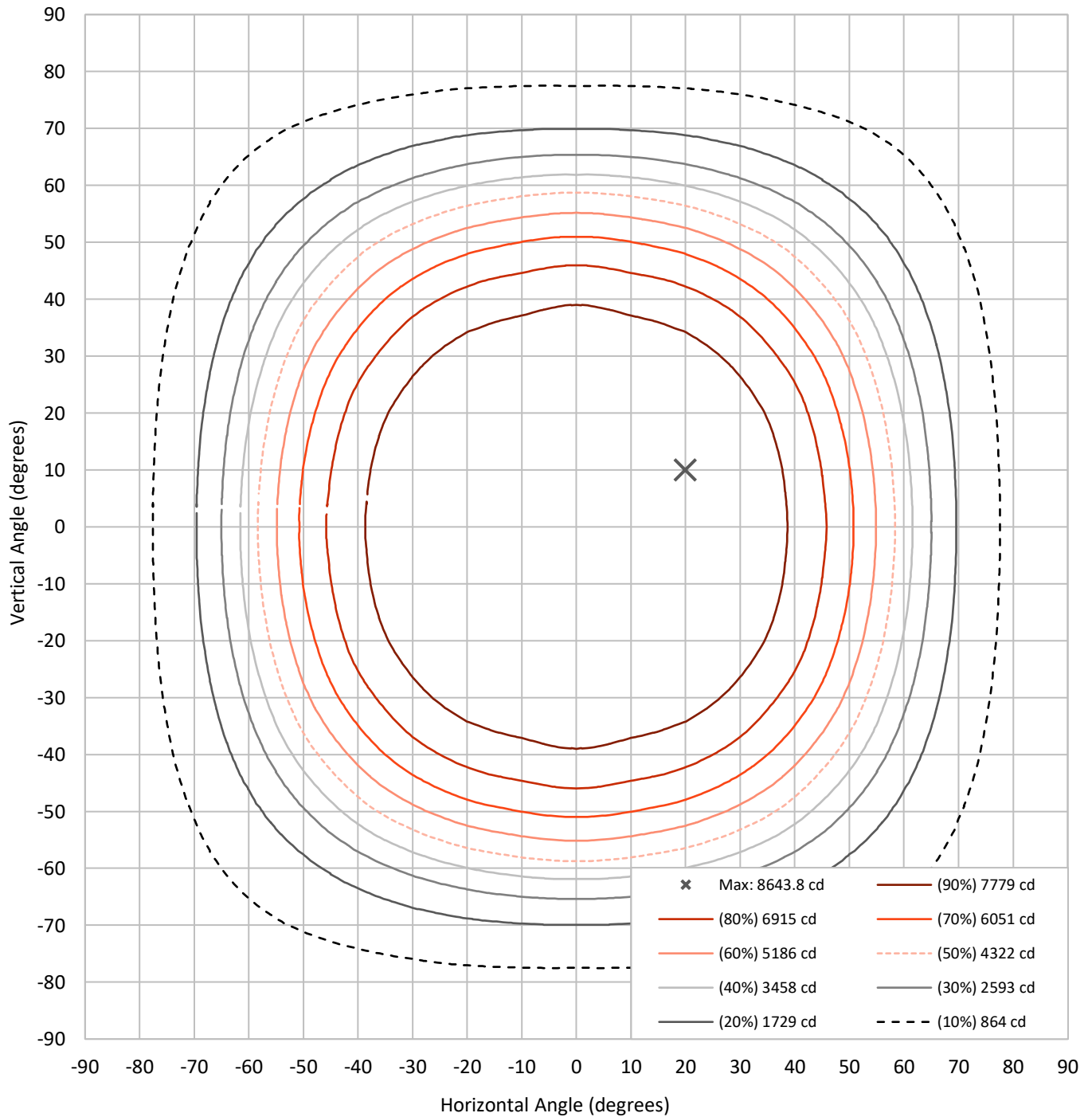
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26518 lumens	Max Intensity:	8643.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	82.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	16272 lumens	Field Lumens:	19507.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320  
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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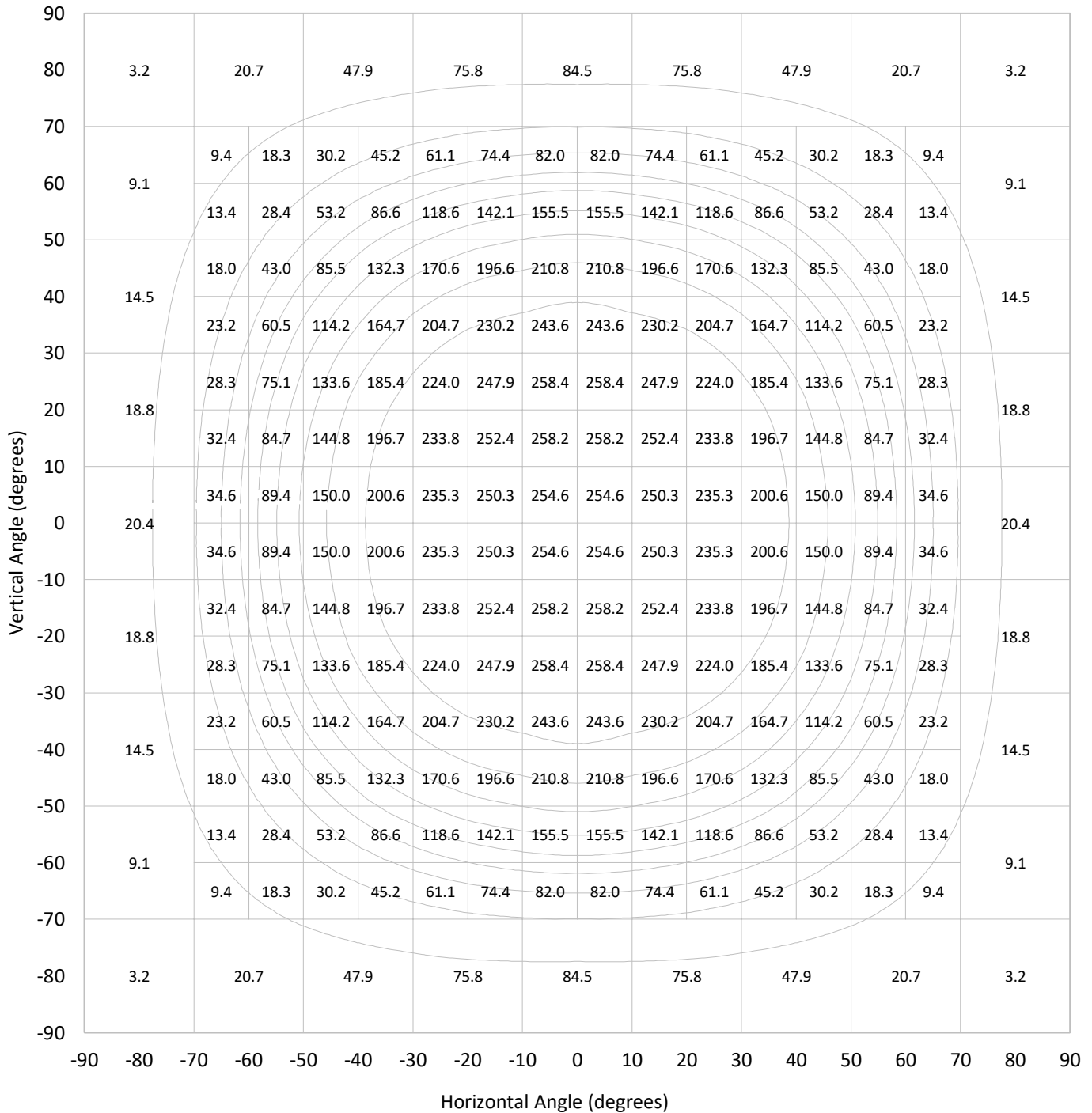
### Iso-Candela Plot





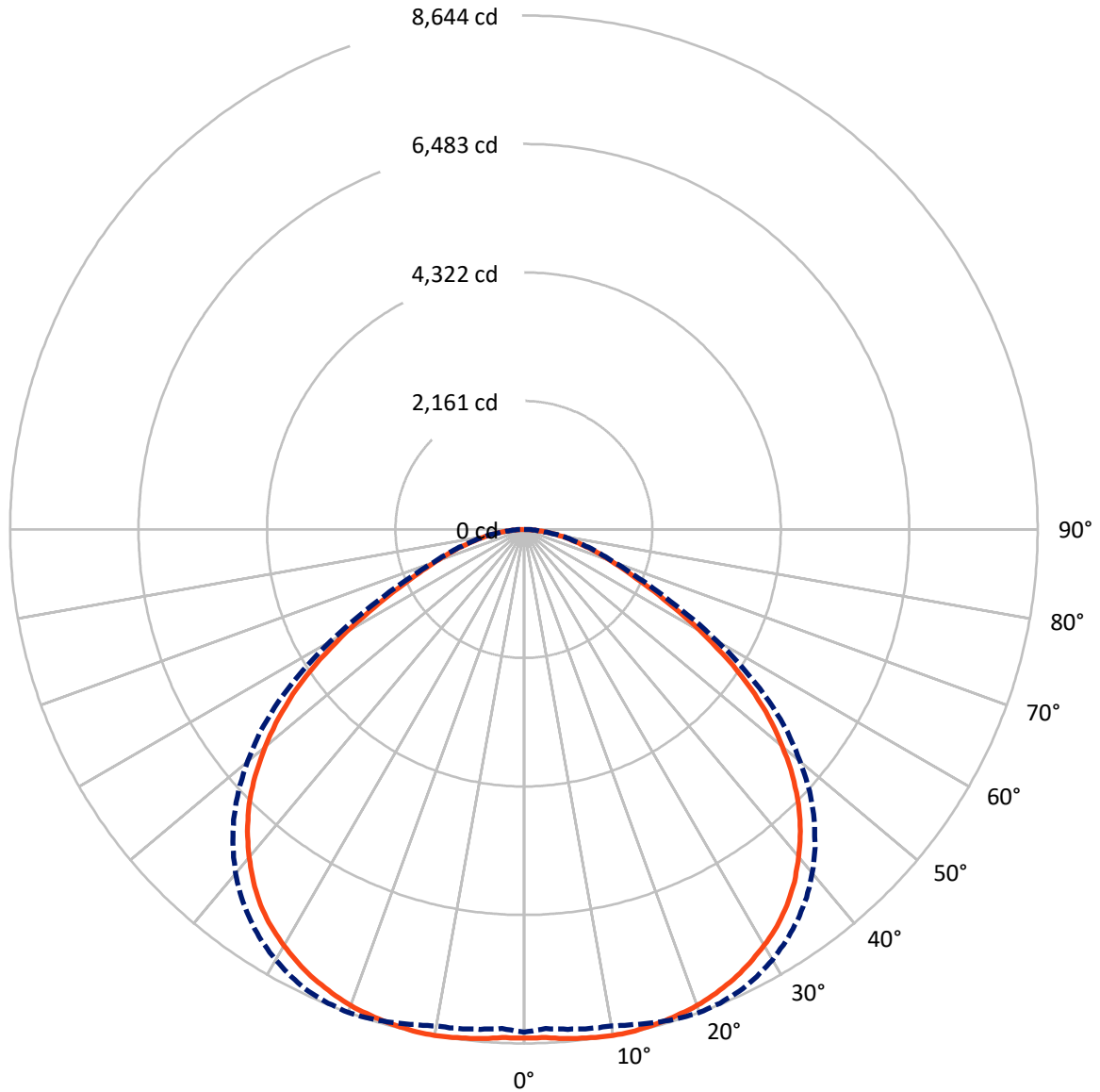
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### Lumen Table



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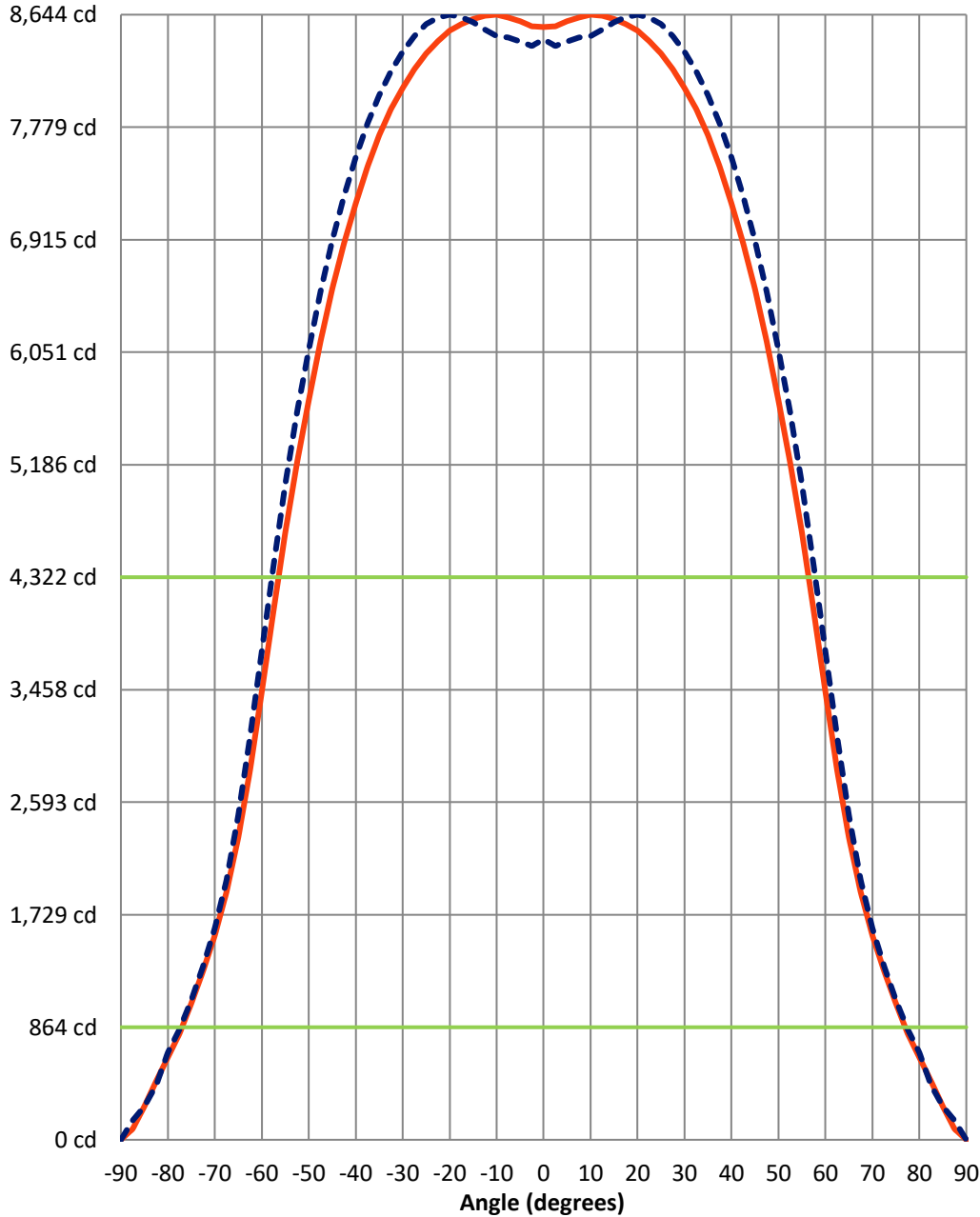
### Luminous Intensity Polar Plot



— 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: 16272  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 19507.3  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 7010.6  
 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°	69.8	75.3	78.1	80.9	83.7	86.5	89.3	86.5	83.7	83.7	80.9
85°	186.9	192.5	195.3	214.8	234.4	245.5	259.5	256.7	256.7	253.9	251.1
82.5°	373.9	390.6	404.6	424.1	435.3	452.0	463.2	454.8	449.2	438.0	429.7
80°	664.0	669.6	672.4	675.2	661.3	658.5	652.9	644.5	633.4	619.4	605.5
77.5°	845.4	851.0	856.6	851.0	848.2	845.4	837.0	828.7	817.5	806.3	789.6
75°	1118.8	1118.8	1118.8	1110.5	1104.9	1096.5	1082.6	1068.6	1049.1	1026.8	1001.7
72.5°	1409.0	1406.2	1403.4	1386.7	1372.7	1356.0	1336.5	1319.7	1297.4	1272.3	1238.8
70°	1713.1	1718.7	1721.5	1699.2	1682.4	1660.1	1635.0	1604.3	1570.8	1534.6	1487.1
67.5°	2131.7	2126.1	2120.5	2089.8	2067.5	2036.8	2000.5	1955.9	1905.7	1849.8	1782.9
65°	2650.6	2659.0	2642.2	2611.6	2569.7	2519.5	2463.7	2399.5	2324.2	2240.5	2145.6
62.5°	3278.4	3292.3	3272.8	3233.7	3180.7	3113.8	3035.6	2943.6	2840.3	2723.2	2606.0
60°	3992.7	3989.9	3953.6	3900.6	3830.8	3747.1	3660.6	3560.2	3443.0	3306.3	3164.0
57.5°	4648.3	4642.8	4598.1	4545.1	4475.4	4386.1	4294.0	4188.0	4065.2	3920.1	3755.5
55°	5237.1	5231.5	5186.8	5131.0	5058.5	4969.2	4885.5	4785.1	4665.1	4511.6	4335.8
52.5°	5758.8	5761.6	5722.5	5661.2	5583.0	5496.5	5415.6	5315.2	5200.8	5047.3	4877.1
50°	6238.7	6235.9	6194.1	6138.3	6065.7	5982.0	5901.1	5800.7	5680.7	5532.8	5368.2
47.5°	6685.1	6679.5	6632.1	6570.7	6495.4	6422.9	6347.5	6258.2	6132.7	5984.8	5820.2
45°	7059.0	7047.8	7000.4	6941.8	6869.3	6805.1	6738.1	6671.2	6537.2	6400.5	6244.3
42.5°	7379.9	7377.1	7329.6	7271.1	7198.5	7142.7	7081.3	6997.6	6886.0	6760.5	6607.0
40°	7686.8	7664.5	7617.0	7561.2	7494.3	7446.8	7385.4	7301.7	7192.9	7070.2	6922.3
37.5°	7915.6	7918.4	7868.1	7806.8	7748.2	7703.5	7647.7	7569.6	7474.7	7354.8	7206.9
35°	8133.2	8119.2	8077.4	8024.4	7971.4	7921.1	7862.6	7795.6	7717.5	7605.9	7466.4
32.5°	8275.5	8295.0	8244.8	8189.0	8158.3	8119.2	8057.9	7988.1	7918.4	7806.8	7681.2
30°	8431.7	8415.0	8375.9	8328.5	8306.2	8281.1	8228.1	8161.1	8080.2	7979.7	7862.6
27.5°	8540.6	8532.2	8484.8	8440.1	8429.0	8406.6	8364.8	8306.2	8225.3	8127.6	8018.8
25°	8588.0	8593.6	8548.9	8523.8	8523.8	8509.9	8476.4	8426.2	8345.2	8256.0	8149.9
22.5°	8610.3	8604.7	8574.0	8568.5	8582.4	8571.2	8557.3	8512.7	8440.1	8367.6	8278.3
20°	8624.3	8585.2	8557.3	8579.6	8596.4	8593.6	8582.4	8554.5	8521.0	8459.6	8381.5
17.5°	8593.6	8568.5	8535.0	8568.5	8604.7	8607.5	8596.4	8579.6	8571.2	8532.2	8462.4
15°	8518.2	8498.7	8504.3	8537.8	8579.6	8593.6	8601.9	8621.5	8610.3	8579.6	8518.2
12.5°	8468.0	8442.9	8468.0	8501.5	8523.8	8532.2	8599.1	8635.4	8635.4	8607.5	8568.5
10°	8454.1	8403.8	8437.3	8468.0	8479.2	8529.4	8585.2	8624.3	8643.8	8621.5	8571.2
7.5°	8426.2	8392.7	8406.6	8420.6	8484.8	8521.0	8551.7	8593.6	8621.5	8618.7	8574.0
5°	8412.2	8370.4	8375.9	8434.5	8479.2	8504.3	8515.4	8551.7	8593.6	8601.9	8568.5
2.5°	8375.9	8356.4	8398.3	8403.8	8437.3	8456.9	8468.0	8501.5	8554.5	8574.0	8560.1
0°	8356.4	8328.5	8300.6	8322.9	8378.7	8420.6	8437.3	8487.5	8548.9	8568.5	8537.8



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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°	78.1	75.3	72.5	69.8	72.5	72.5	72.5	69.8	72.5	69.8	69.8
85°	242.7	231.6	223.2	212.0	200.9	192.5	181.4	170.2	167.4	164.6	159.0
82.5°	418.5	404.6	390.6	373.9	357.1	337.6	318.1	295.8	290.2	284.6	276.2
80°	588.7	569.2	549.7	530.1	513.4	493.9	471.5	446.4	429.7	415.7	399.0
77.5°	767.3	739.4	711.5	678.0	658.5	638.9	616.6	591.5	566.4	544.1	519.0
75°	971.0	940.3	912.4	878.9	842.6	806.3	770.1	736.6	700.3	666.8	633.4
72.5°	1197.0	1152.3	1107.7	1065.8	1021.2	976.5	929.1	884.5	839.8	795.2	747.8
70°	1434.1	1378.3	1322.5	1266.7	1208.1	1149.5	1093.7	1037.9	982.1	923.5	870.5
67.5°	1713.1	1649.0	1576.4	1498.3	1411.8	1336.5	1263.9	1197.0	1130.0	1063.0	996.1
65°	2061.9	1972.6	1875.0	1768.9	1668.5	1568.0	1462.0	1361.6	1283.5	1205.3	1130.0
62.5°	2491.6	2366.0	2229.3	2092.6	1969.8	1838.7	1715.9	1584.8	1462.0	1350.4	1258.3
60°	3005.0	2834.8	2667.4	2491.6	2321.4	2142.8	1986.6	1824.7	1671.3	1534.6	1400.6
57.5°	3571.4	3373.3	3172.4	2957.5	2725.9	2516.7	2304.6	2092.6	1911.2	1729.9	1579.2
55°	4146.1	3936.9	3710.9	3468.1	3214.2	2946.4	2659.0	2421.8	2173.5	1961.5	1766.1
52.5°	4693.0	4475.4	4241.0	4017.8	3713.6	3406.7	3091.5	2779.0	2488.8	2218.1	1981.0
50°	5181.3	4969.2	4743.2	4483.7	4201.9	3875.5	3523.9	3172.4	2829.2	2511.1	2215.4
47.5°	5627.7	5421.2	5195.2	4935.7	4679.0	4316.3	3962.0	3574.1	3191.9	2826.4	2480.4
45°	6046.2	5836.9	5602.6	5354.2	5058.5	4734.8	4369.3	3978.7	3568.6	3158.4	2759.4
42.5°	6425.6	6216.4	5979.2	5722.5	5429.6	5108.7	4754.4	4361.0	3948.0	3501.6	3063.6
40°	6757.7	6554.0	6325.2	6057.3	5783.9	5446.3	5097.5	4723.7	4296.8	3847.6	3364.9
37.5°	7047.8	6858.1	6632.1	6367.1	6076.9	5775.5	5415.6	5041.7	4656.7	4168.4	3674.6
35°	7304.5	7128.8	6897.2	6646.1	6361.5	6043.4	5705.8	5340.3	4924.6	4467.0	3987.1
32.5°	7527.7	7349.2	7137.1	6886.0	6609.8	6311.2	5965.3	5597.0	5203.6	4737.6	4215.9
30°	7717.5	7544.5	7343.6	7106.4	6841.4	6545.6	6208.0	5836.9	5435.2	4972.0	4455.8
27.5°	7882.1	7717.5	7522.2	7301.7	7047.8	6763.2	6422.9	6049.0	5638.8	5192.4	4676.2
25°	8024.4	7865.3	7684.0	7474.7	7223.6	6944.6	6623.7	6233.1	5823.0	5373.8	4863.2
22.5°	8152.7	7999.3	7817.9	7614.2	7385.4	7106.4	6782.8	6395.0	5979.2	5535.6	5033.4
20°	8267.1	8124.8	7946.3	7737.0	7508.2	7226.4	6905.5	6537.2	6118.7	5683.5	5186.8
17.5°	8359.2	8233.6	8055.1	7834.7	7605.9	7332.4	7019.9	6682.3	6238.7	5809.0	5315.2
15°	8423.4	8300.6	8138.8	7915.6	7692.4	7421.7	7109.2	6760.5	6347.5	5909.5	5421.2
12.5°	8468.0	8336.9	8186.2	7979.7	7756.5	7488.7	7184.6	6841.4	6439.6	5998.8	5513.3
10°	8479.2	8359.2	8208.5	8024.4	7806.8	7547.3	7248.7	6908.3	6514.9	6068.5	5588.6
7.5°	8484.8	8370.4	8233.6	8057.9	7843.0	7591.9	7296.2	6961.3	6570.7	6127.1	5644.4
5°	8482.0	8373.1	8250.4	8080.2	7865.3	7617.0	7326.9	6997.6	6609.8	6166.2	5686.3
2.5°	8473.6	8375.9	8261.5	8096.9	7890.5	7644.9	7357.5	7039.5	6651.6	6199.6	5719.7
0°	8495.9	8412.2	8267.1	8091.3	7896.0	7644.9	7354.8	7045.1	6657.2	6196.9	5717.0





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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°	69.8	67.0	67.0	64.2	61.4	58.6	53.0	50.2	44.6	36.3	27.9
85°	150.7	142.3	133.9	128.3	122.8	117.2	108.8	100.4	89.3	72.5	55.8
82.5°	265.1	248.3	231.6	212.0	195.3	178.6	164.6	150.7	133.9	108.8	83.7
80°	379.5	354.3	329.2	301.3	276.2	248.3	223.2	200.9	178.6	145.1	111.6
77.5°	493.9	460.4	424.1	390.6	354.3	318.1	281.8	251.1	217.6	178.6	139.5
75°	599.9	560.8	527.3	479.9	435.3	387.8	340.4	298.5	256.7	209.3	167.4
72.5°	705.9	655.7	608.2	563.6	513.4	454.8	401.8	348.8	295.8	240.0	189.7
70°	811.9	750.5	691.9	638.9	583.1	524.5	460.4	399.0	334.8	267.9	209.3
67.5°	920.7	851.0	784.0	717.1	652.9	585.9	519.0	449.2	373.9	295.8	231.6
65°	1040.7	954.2	873.3	798.0	722.6	650.1	574.8	499.4	415.7	326.4	251.1
62.5°	1160.7	1065.8	971.0	876.1	792.4	711.5	630.6	546.9	454.8	359.9	270.6
60°	1289.0	1180.2	1071.4	965.4	862.1	772.9	683.6	594.3	496.6	390.6	290.2
57.5°	1431.3	1300.2	1177.4	1057.5	940.3	834.2	736.6	641.7	532.9	421.3	312.5
55°	1593.2	1431.3	1286.2	1152.3	1024.0	895.6	789.6	691.9	574.8	452.0	337.6
52.5°	1763.4	1576.4	1400.6	1250.0	1113.3	968.2	839.8	731.0	616.6	482.7	359.9
50°	1961.5	1724.3	1529.0	1344.8	1191.4	1040.7	892.8	775.7	658.5	519.0	382.2
47.5°	2165.1	1902.9	1657.3	1456.4	1275.1	1110.5	954.2	814.7	697.5	552.4	404.6
45°	2402.3	2073.1	1802.4	1565.3	1356.0	1183.0	1015.6	856.6	731.0	585.9	426.9
42.5°	2631.1	2273.9	1953.1	1685.2	1448.1	1252.8	1071.4	901.2	764.5	619.4	446.4
40°	2901.7	2474.8	2098.2	1799.6	1540.1	1319.7	1127.2	948.6	795.2	650.1	465.9
37.5°	3161.2	2678.5	2273.9	1925.2	1629.4	1386.7	1183.0	993.3	823.1	680.8	491.1
35°	3417.9	2904.5	2441.4	2042.4	1721.5	1462.0	1238.8	1035.1	851.0	705.9	513.4
32.5°	3663.4	3116.6	2611.6	2173.5	1821.9	1531.8	1289.0	1074.2	878.9	728.2	535.7
30°	3892.2	3317.5	2779.0	2307.4	1914.0	1595.9	1336.5	1113.3	912.4	747.8	558.0
27.5°	4101.5	3512.8	2946.4	2433.0	2000.5	1654.5	1386.7	1149.5	940.3	767.3	577.6
25°	4291.2	3688.5	3099.8	2547.4	2078.6	1718.7	1434.1	1185.8	965.4	784.0	594.3
22.5°	4469.8	3850.4	3239.3	2661.8	2173.5	1782.9	1478.8	1219.3	990.5	800.8	611.0
20°	4626.0	3998.2	3373.3	2776.2	2257.2	1841.5	1517.8	1250.0	1012.8	811.9	627.8
17.5°	4751.6	4129.4	3493.2	2876.6	2329.7	1891.7	1551.3	1277.9	1032.3	825.9	638.9
15°	4863.2	4241.0	3593.7	2963.1	2393.9	1933.6	1582.0	1300.2	1049.1	834.2	652.9
12.5°	4958.0	4335.8	3680.2	3038.4	2449.7	1969.8	1607.1	1316.9	1063.0	842.6	661.3
10°	5036.2	4411.2	3752.7	3097.0	2494.4	1997.7	1626.6	1333.7	1074.2	851.0	669.6
7.5°	5094.8	4467.0	3805.7	3147.3	2530.6	2017.3	1643.4	1344.8	1085.4	856.6	683.6
5°	5139.4	4514.4	3847.6	3180.7	2558.5	2045.2	1662.9	1358.8	1096.5	862.1	683.6
2.5°	5172.9	4553.5	3881.1	3208.6	2580.9	2039.6	1662.9	1356.0	1096.5	862.1	680.8
0°	5167.3	4556.3	3878.3	3208.6	2580.9	2034.0	1662.9	1353.2	1096.5	862.1	680.8



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.5	14.0	5.6	0.0
85°	41.9	27.9	14.0	0.0
82.5°	61.4	39.1	19.5	0.0
80°	80.9	53.0	25.1	0.0
77.5°	103.2	67.0	33.5	0.0
75°	122.8	78.1	39.1	0.0
72.5°	142.3	92.1	44.6	0.0
70°	159.0	103.2	50.2	0.0
67.5°	175.8	117.2	58.6	0.0
65°	189.7	128.3	64.2	0.0
62.5°	200.9	142.3	69.8	0.0
60°	214.8	153.5	75.3	0.0
57.5°	226.0	161.8	80.9	0.0
55°	237.2	167.4	86.5	0.0
52.5°	248.3	175.8	92.1	0.0
50°	259.5	184.1	97.7	0.0
47.5°	270.6	189.7	100.4	0.0
45°	287.4	198.1	106.0	0.0
42.5°	301.3	203.7	111.6	0.0
40°	315.3	209.3	114.4	0.0
37.5°	329.2	214.8	120.0	0.0
35°	343.2	220.4	122.8	0.0
32.5°	354.3	226.0	125.6	0.0
30°	365.5	231.6	128.3	0.0
27.5°	376.7	234.4	131.1	0.0
25°	385.0	240.0	133.9	0.0
22.5°	393.4	242.7	136.7	0.0
20°	399.0	245.5	139.5	0.0
17.5°	407.4	248.3	142.3	0.0
15°	410.1	251.1	147.9	0.0
12.5°	415.7	253.9	147.9	0.0
10°	418.5	256.7	147.9	0.0
7.5°	424.1	256.7	147.9	0.0
5°	421.3	256.7	147.9	0.0
2.5°	421.3	256.7	147.9	0.0
0°	418.5	256.7	147.9	0.0

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