

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: P628255

Luminaire Tested: **IFLD-M-SA4D-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628255  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

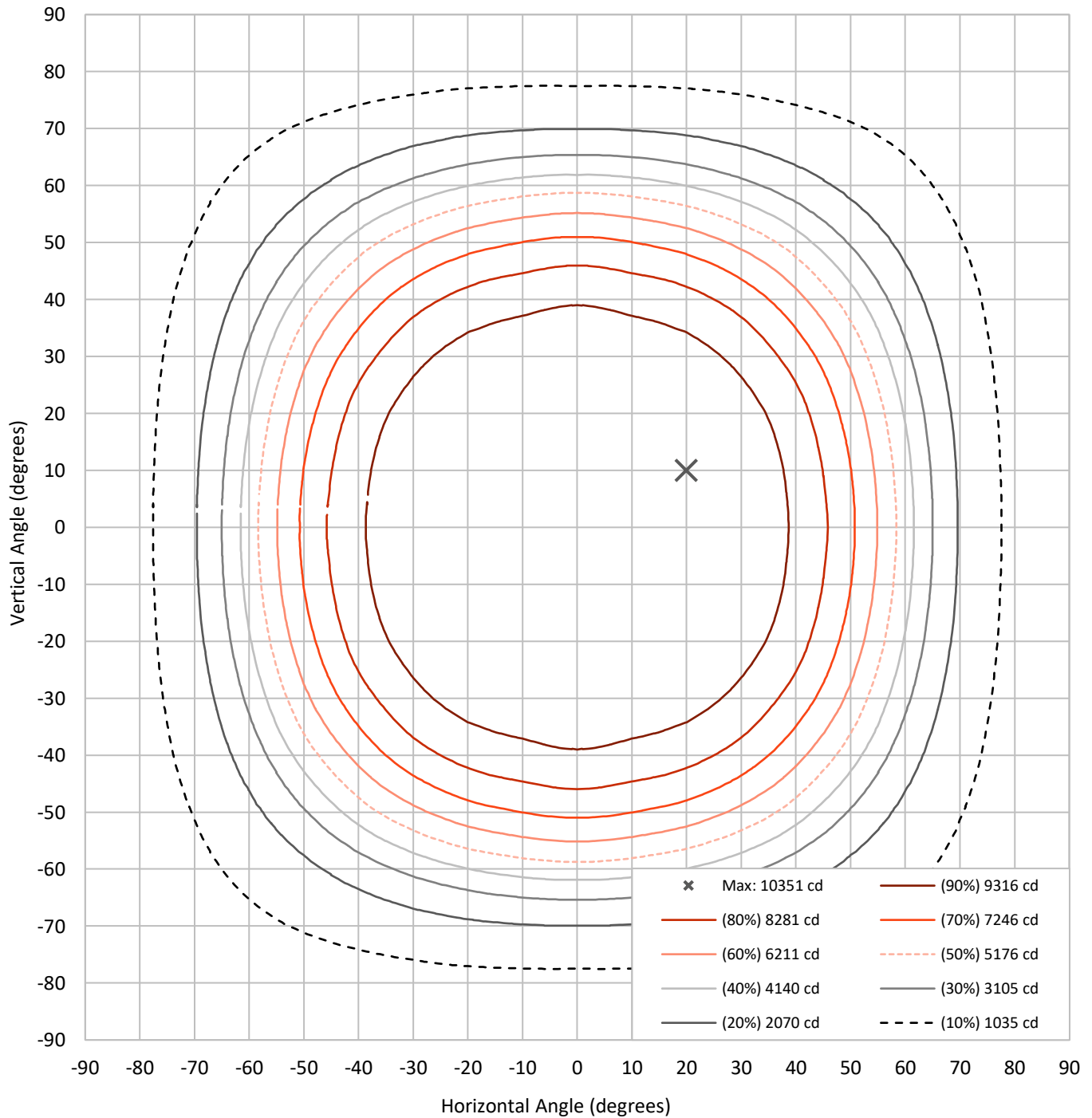
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31755.4 lumens	Max Intensity:	10351 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	127.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19485.8 lumens	Field Lumens:	23360.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	249.7		
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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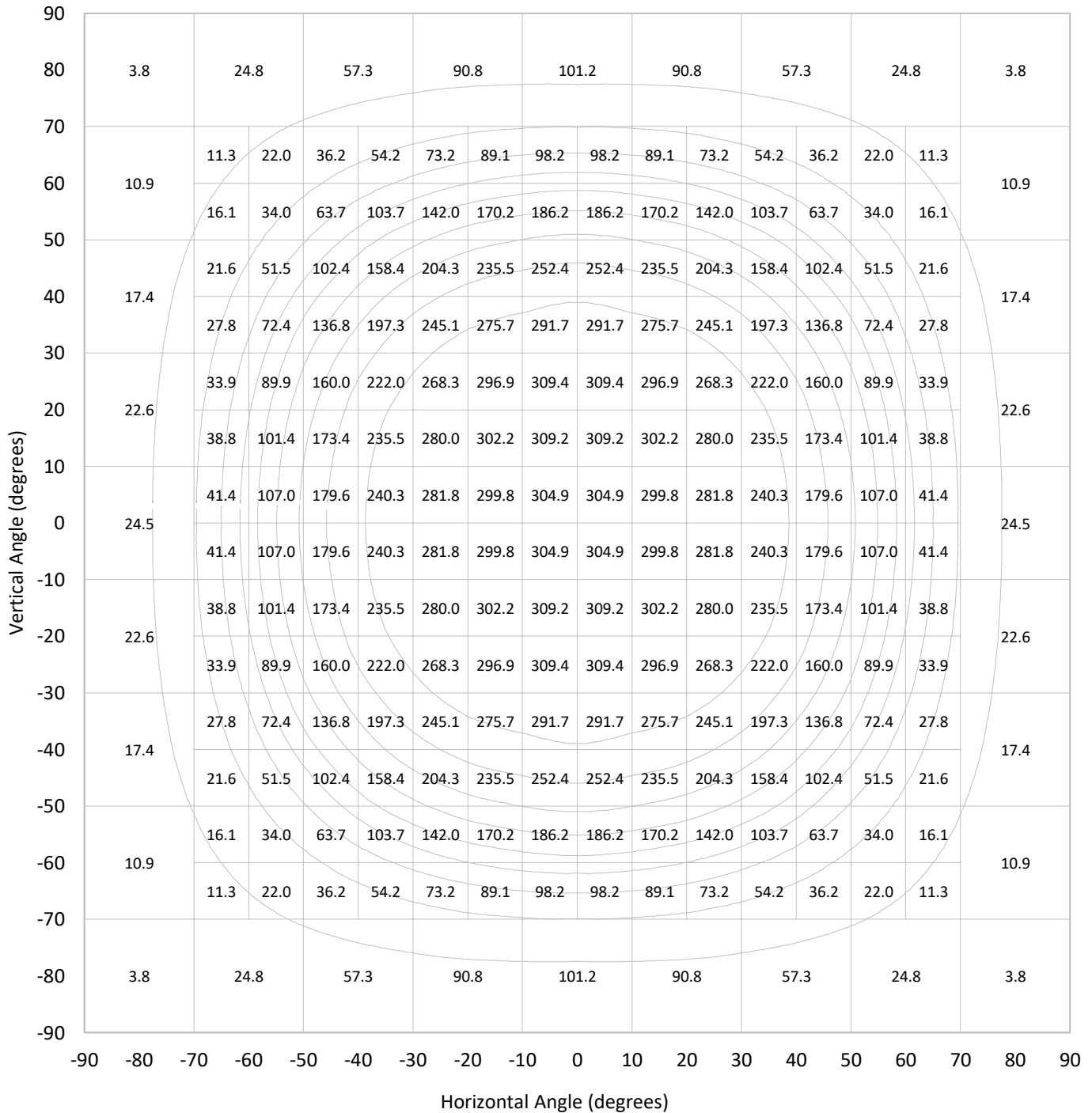
### Iso-Candela Plot





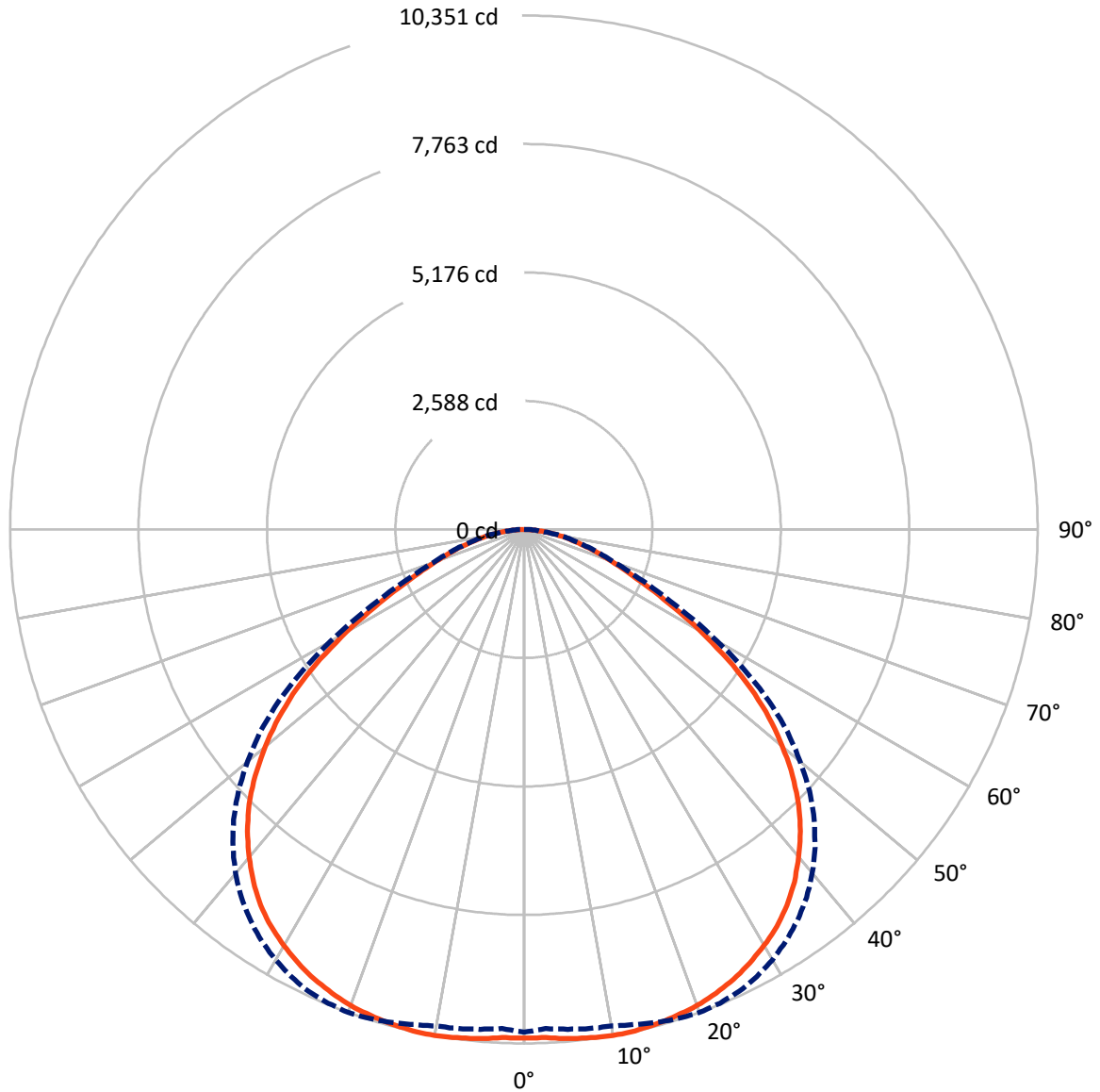
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### Lumen Table



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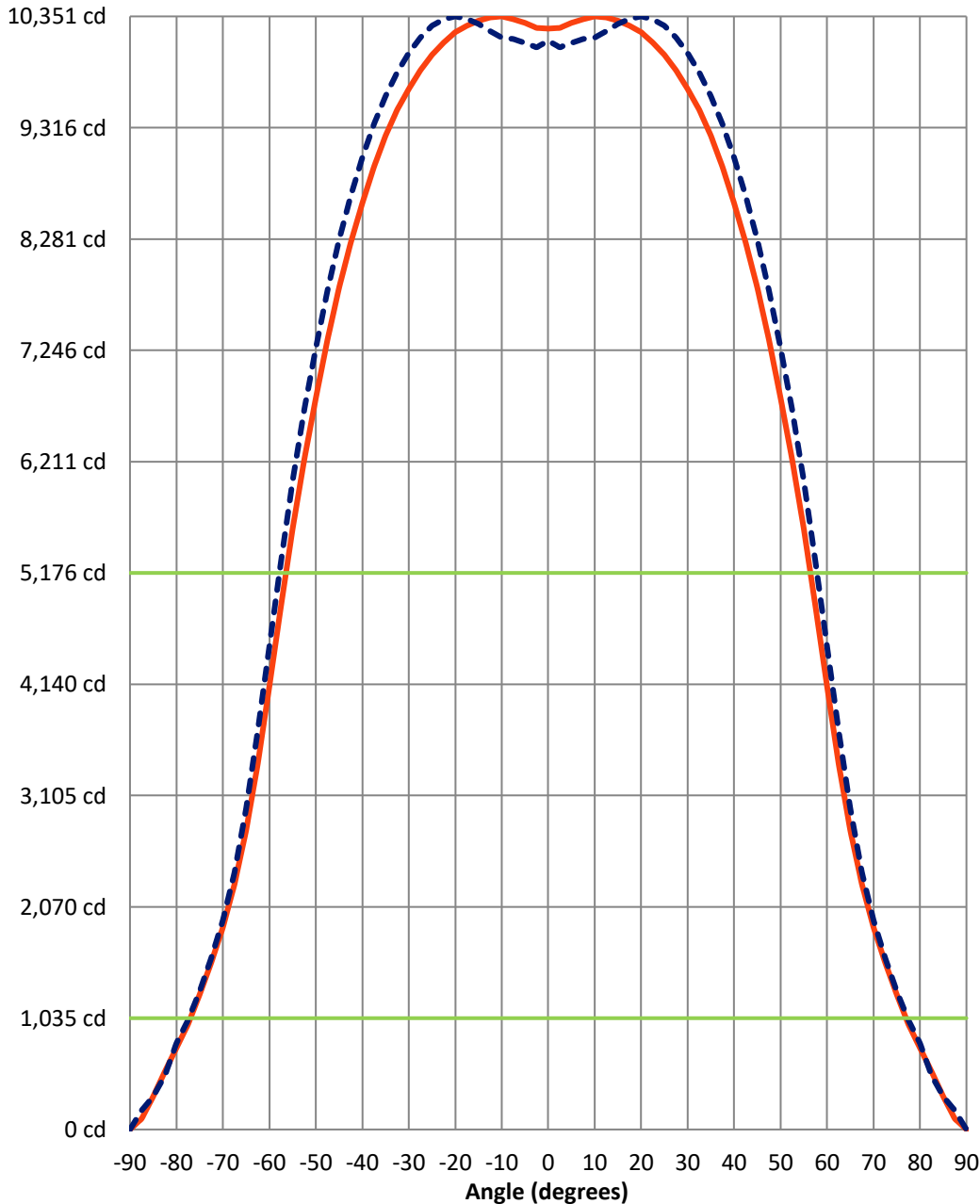
### Luminous Intensity Polar Plot



— 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: 19485.8  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 23360.1  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 8395.3  
 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°	83.5	90.2	93.6	96.9	100.2	103.6	106.9	103.6	100.2	100.2	96.9
85°	223.9	230.5	233.9	257.3	280.7	294.0	310.7	307.4	307.4	304.0	300.7
82.5°	447.7	467.8	484.5	507.9	521.2	541.3	554.6	544.6	537.9	524.6	514.5
80°	795.2	801.9	805.2	808.6	791.9	788.5	781.8	771.8	758.4	741.7	725.0
77.5°	1012.4	1019.1	1025.7	1019.1	1015.7	1012.4	1002.4	992.3	979.0	965.6	945.6
75°	1339.8	1339.8	1339.8	1329.8	1323.1	1313.1	1296.4	1279.7	1256.3	1229.6	1199.5
72.5°	1687.3	1684.0	1680.6	1660.6	1643.9	1623.8	1600.4	1580.4	1553.7	1523.6	1483.5
70°	2051.5	2058.2	2061.5	2034.8	2014.7	1988.0	1957.9	1921.2	1881.1	1837.7	1780.9
67.5°	2552.7	2546.0	2539.3	2502.5	2475.8	2439.1	2395.6	2342.2	2282.0	2215.2	2135.0
65°	3174.1	3184.1	3164.1	3127.3	3077.2	3017.1	2950.3	2873.4	2783.2	2683.0	2569.4
62.5°	3925.9	3942.6	3919.2	3872.4	3808.9	3728.8	3635.2	3524.9	3401.3	3261.0	3120.7
60°	4781.2	4777.9	4734.5	4671.0	4587.4	4487.2	4383.6	4263.4	4123.0	3959.3	3788.9
57.5°	5566.4	5559.7	5506.3	5442.8	5359.3	5252.3	5142.1	5015.1	4868.1	4694.4	4497.2
55°	6271.4	6264.7	6211.3	6144.4	6057.6	5950.6	5850.4	5730.1	5586.5	5402.7	5192.2
52.5°	6896.2	6899.5	6852.8	6779.3	6685.7	6582.1	6485.2	6365.0	6228.0	6044.2	5840.4
50°	7470.9	7467.5	7417.4	7350.6	7263.7	7163.5	7066.6	6946.3	6802.7	6625.6	6428.4
47.5°	8005.5	7998.8	7942.0	7868.5	7778.3	7691.4	7601.2	7494.3	7343.9	7166.8	6969.7
45°	8453.2	8439.8	8383.0	8312.9	8226.0	8149.1	8069.0	7988.8	7828.4	7664.7	7477.6
42.5°	8837.4	8834.1	8777.3	8707.1	8620.3	8553.4	8479.9	8379.7	8246.0	8095.7	7911.9
40°	9205.0	9178.2	9121.4	9054.6	8974.4	8917.6	8844.1	8743.9	8613.6	8466.6	8289.5
37.5°	9478.9	9482.3	9422.1	9348.6	9278.5	9225.0	9158.2	9064.6	8951.0	8807.4	8630.3
35°	9739.6	9722.8	9672.7	9609.2	9545.8	9485.6	9415.5	9335.3	9241.7	9108.1	8941.0
32.5°	9910.0	9933.3	9873.2	9806.4	9769.6	9722.8	9649.3	9565.8	9482.3	9348.6	9198.3
30°	10097.1	10077.0	10030.2	9973.4	9946.7	9916.6	9853.2	9773.0	9676.1	9555.8	9415.5
27.5°	10227.4	10217.3	10160.5	10107.1	10093.7	10067.0	10016.9	9946.7	9849.8	9732.9	9602.6
25°	10284.2	10290.8	10237.4	10207.3	10207.3	10190.6	10150.5	10090.4	9993.5	9886.6	9759.6
22.5°	10310.9	10304.2	10267.5	10260.8	10277.5	10264.1	10247.4	10194.0	10107.1	10020.2	9913.3
20°	10327.6	10280.8	10247.4	10274.1	10294.2	10290.8	10277.5	10244.1	10204.0	10130.5	10036.9
17.5°	10290.8	10260.8	10220.7	10260.8	10304.2	10307.6	10294.2	10274.1	10264.1	10217.3	10133.8
15°	10200.6	10177.2	10183.9	10224.0	10274.1	10290.8	10300.9	10324.3	10310.9	10274.1	10200.6
12.5°	10140.5	10110.4	10140.5	10180.6	10207.3	10217.3	10297.5	10341.0	10341.0	10307.6	10260.8
10°	10123.8	10063.6	10103.7	10140.5	10153.9	10214.0	10280.8	10327.6	10351.0	10324.3	10264.1
7.5°	10090.4	10050.3	10067.0	10083.7	10160.5	10204.0	10240.7	10290.8	10324.3	10320.9	10267.5
5°	10073.7	10023.6	10030.2	10100.4	10153.9	10183.9	10197.3	10240.7	10290.8	10300.9	10260.8
2.5°	10030.2	10006.8	10057.0	10063.6	10103.7	10127.1	10140.5	10180.6	10244.1	10267.5	10250.8
0°	10006.8	9973.4	9940.0	9966.8	10033.6	10083.7	10103.7	10163.9	10237.4	10260.8	10224.0



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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°	93.6	90.2	86.9	83.5	86.9	86.9	86.9	83.5	86.9	83.5	83.5
85°	290.7	277.3	267.3	253.9	240.6	230.5	217.2	203.8	200.5	197.1	190.4
82.5°	501.2	484.5	467.8	447.7	427.7	404.3	380.9	354.2	347.5	340.8	330.8
80°	705.0	681.6	658.2	634.8	614.8	591.4	564.7	534.6	514.5	497.8	477.8
77.5°	918.8	885.4	852.0	811.9	788.5	765.1	738.4	708.3	678.3	651.5	621.5
75°	1162.7	1126.0	1092.6	1052.5	1009.0	965.6	922.2	882.1	838.6	798.5	758.4
72.5°	1433.4	1379.9	1326.5	1276.3	1222.9	1169.4	1112.6	1059.2	1005.7	952.2	895.4
70°	1717.4	1650.5	1583.7	1516.9	1446.7	1376.6	1309.7	1242.9	1176.1	1105.9	1042.4
67.5°	2051.5	1974.6	1887.8	1794.2	1690.6	1600.4	1513.6	1433.4	1353.2	1273.0	1192.8
65°	2469.1	2362.2	2245.3	2118.3	1998.0	1877.7	1750.8	1630.5	1536.9	1443.4	1353.2
62.5°	2983.7	2833.3	2669.6	2505.9	2358.9	2201.8	2054.8	1897.8	1750.8	1617.1	1506.9
60°	3598.5	3394.6	3194.2	2983.7	2779.9	2566.0	2378.9	2185.1	2001.4	1837.7	1677.3
57.5°	4276.7	4039.5	3798.9	3541.7	3264.3	3013.7	2759.8	2505.9	2288.7	2071.5	1891.1
55°	4965.0	4714.4	4443.8	4153.1	3849.0	3528.3	3184.1	2900.1	2602.8	2348.9	2115.0
52.5°	5619.9	5359.3	5078.6	4811.3	4447.1	4079.6	3702.0	3327.8	2980.3	2656.2	2372.2
50°	6204.6	5950.6	5680.0	5369.3	5031.8	4640.9	4219.9	3798.9	3388.0	3007.1	2652.9
47.5°	6739.2	6491.9	6221.3	5910.6	5603.2	5168.8	4744.5	4280.1	3822.3	3384.6	2970.3
45°	7240.3	6989.8	6709.1	6411.7	6057.6	5670.0	5232.3	4764.5	4273.4	3782.2	3304.4
42.5°	7694.7	7444.2	7160.2	6852.8	6501.9	6117.7	5693.4	5222.3	4727.8	4193.2	3668.6
40°	8092.3	7848.4	7574.5	7253.7	6926.3	6522.0	6104.3	5656.6	5145.4	4607.5	4029.5
37.5°	8439.8	8212.6	7942.0	7624.6	7277.1	6916.3	6485.2	6037.5	5576.4	4991.7	4400.3
35°	8747.2	8536.7	8259.4	7958.7	7617.9	7237.0	6832.7	6395.0	5897.2	5349.2	4774.6
32.5°	9014.5	8800.7	8546.7	8246.0	7915.3	7557.8	7143.5	6702.4	6231.3	5673.3	5048.5
30°	9241.7	9034.6	8794.0	8510.0	8192.6	7838.4	7434.1	6989.8	6508.6	5954.0	5335.9
27.5°	9438.8	9241.7	9007.8	8743.9	8439.8	8099.0	7691.4	7243.7	6752.5	6217.9	5599.8
25°	9609.2	9418.8	9201.6	8951.0	8650.3	8316.2	7932.0	7464.2	6973.1	6435.1	5823.7
22.5°	9762.9	9579.2	9362.0	9118.1	8844.1	8510.0	8122.4	7658.0	7160.2	6628.9	6027.5
20°	9899.9	9729.5	9515.7	9265.1	8991.1	8653.7	8269.4	7828.4	7327.2	6806.0	6211.3
17.5°	10010.2	9859.8	9646.0	9382.0	9108.1	8780.6	8406.4	8002.1	7470.9	6956.3	6365.0
15°	10087.0	9940.0	9746.2	9478.9	9211.6	8887.5	8513.3	8095.7	7601.2	7076.6	6491.9
12.5°	10140.5	9983.5	9803.0	9555.8	9288.5	8967.7	8603.5	8192.6	7711.5	7183.5	6602.2
10°	10153.9	10010.2	9829.8	9609.2	9348.6	9037.9	8680.4	8272.8	7801.7	7267.1	6692.4
7.5°	10160.5	10023.6	9859.8	9649.3	9392.1	9091.4	8737.2	8336.3	7868.5	7337.2	6759.2
5°	10157.2	10026.9	9879.9	9676.1	9418.8	9121.4	8773.9	8379.7	7915.3	7384.0	6809.3
2.5°	10147.2	10030.2	9893.2	9696.1	9448.9	9154.8	8810.7	8429.8	7965.4	7424.1	6849.4
0°	10173.9	10073.7	9899.9	9689.4	9455.6	9154.8	8807.4	8436.5	7972.1	7420.8	6846.1





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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°	83.5	80.2	80.2	76.8	73.5	70.2	63.5	60.1	53.5	43.4	33.4
85°	180.4	170.4	160.4	153.7	147.0	140.3	130.3	120.3	106.9	86.9	66.8
82.5°	317.4	297.4	277.3	253.9	233.9	213.8	197.1	180.4	160.4	130.3	100.2
80°	454.4	424.3	394.3	360.8	330.8	297.4	267.3	240.6	213.8	173.7	133.6
77.5°	591.4	551.3	507.9	467.8	424.3	380.9	337.5	300.7	260.6	213.8	167.1
75°	718.4	671.6	631.5	574.7	521.2	464.4	407.6	357.5	307.4	250.6	200.5
72.5°	845.3	785.2	728.4	674.9	614.8	544.6	481.1	417.6	354.2	287.3	227.2
70°	972.3	898.8	828.6	765.1	698.3	628.1	551.3	477.8	400.9	320.8	250.6
67.5°	1102.6	1019.1	938.9	858.7	781.8	701.6	621.5	537.9	447.7	354.2	277.3
65°	1246.3	1142.7	1045.8	955.6	865.4	778.5	688.3	598.1	497.8	390.9	300.7
62.5°	1389.9	1276.3	1162.7	1049.1	948.9	852.0	755.1	654.9	544.6	431.0	324.1
60°	1543.6	1413.3	1283.0	1156.0	1032.4	925.5	818.6	711.7	594.7	467.8	347.5
57.5°	1714.0	1557.0	1410.0	1266.3	1126.0	999.0	882.1	768.5	638.2	504.5	374.2
55°	1907.8	1714.0	1540.3	1379.9	1226.2	1072.5	945.6	828.6	688.3	541.3	404.3
52.5°	2111.6	1887.8	1677.3	1496.9	1333.1	1159.4	1005.7	875.4	738.4	578.0	431.0
50°	2348.9	2064.9	1831.0	1610.5	1426.7	1246.3	1069.2	928.8	788.5	621.5	457.7
47.5°	2592.8	2278.7	1984.7	1744.1	1526.9	1329.8	1142.7	975.6	835.3	661.6	484.5
45°	2876.8	2482.5	2158.4	1874.4	1623.8	1416.7	1216.2	1025.7	875.4	701.6	511.2
42.5°	3150.7	2723.1	2338.8	2018.1	1734.1	1500.2	1283.0	1079.2	915.5	741.7	534.6
40°	3474.8	2963.6	2512.6	2155.1	1844.3	1580.4	1349.8	1136.0	952.2	778.5	558.0
37.5°	3785.6	3207.5	2723.1	2305.4	1951.3	1660.6	1416.7	1189.5	985.6	815.2	588.0
35°	4093.0	3478.2	2923.5	2445.7	2061.5	1750.8	1483.5	1239.6	1019.1	845.3	614.8
32.5°	4387.0	3732.1	3127.3	2602.8	2181.8	1834.3	1543.6	1286.4	1052.5	872.0	641.5
30°	4661.0	3972.7	3327.8	2763.2	2292.1	1911.2	1600.4	1333.1	1092.6	895.4	668.2
27.5°	4911.5	4206.6	3528.3	2913.5	2395.6	1981.3	1660.6	1376.6	1126.0	918.8	691.6
25°	5138.7	4417.0	3712.1	3050.5	2489.2	2058.2	1717.4	1420.0	1156.0	938.9	711.7
22.5°	5352.6	4610.8	3879.1	3187.5	2602.8	2135.0	1770.8	1460.1	1186.1	958.9	731.7
20°	5539.7	4787.9	4039.5	3324.5	2703.0	2205.2	1817.6	1496.9	1212.8	972.3	751.8
17.5°	5690.0	4945.0	4183.2	3444.8	2789.9	2265.3	1857.7	1530.3	1236.2	989.0	765.1
15°	5823.7	5078.6	4303.4	3548.3	2866.7	2315.4	1894.5	1557.0	1256.3	999.0	781.8
12.5°	5937.3	5192.2	4407.0	3638.5	2933.6	2358.9	1924.5	1577.0	1273.0	1009.0	791.9
10°	6030.8	5282.4	4493.9	3708.7	2987.0	2392.3	1947.9	1597.1	1286.4	1019.1	801.9
7.5°	6101.0	5349.2	4557.4	3768.9	3030.5	2415.7	1968.0	1610.5	1299.7	1025.7	818.6
5°	6154.5	5406.0	4607.5	3808.9	3063.9	2449.1	1991.3	1627.2	1313.1	1032.4	818.6
2.5°	6194.6	5452.8	4647.6	3842.4	3090.6	2442.4	1991.3	1623.8	1313.1	1032.4	815.2
0°	6187.9	5456.2	4644.2	3842.4	3090.6	2435.7	1991.3	1620.5	1313.1	1032.4	815.2



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.4	16.7	6.7	0.0
85°	50.1	33.4	16.7	0.0
82.5°	73.5	46.8	23.4	0.0
80°	96.9	63.5	30.1	0.0
77.5°	123.6	80.2	40.1	0.0
75°	147.0	93.6	46.8	0.0
72.5°	170.4	110.3	53.5	0.0
70°	190.4	123.6	60.1	0.0
67.5°	210.5	140.3	70.2	0.0
65°	227.2	153.7	76.8	0.0
62.5°	240.6	170.4	83.5	0.0
60°	257.3	183.8	90.2	0.0
57.5°	270.6	193.8	96.9	0.0
55°	284.0	200.5	103.6	0.0
52.5°	297.4	210.5	110.3	0.0
50°	310.7	220.5	116.9	0.0
47.5°	324.1	227.2	120.3	0.0
45°	344.1	237.2	127.0	0.0
42.5°	360.8	243.9	133.6	0.0
40°	377.6	250.6	137.0	0.0
37.5°	394.3	257.3	143.7	0.0
35°	411.0	264.0	147.0	0.0
32.5°	424.3	270.6	150.4	0.0
30°	437.7	277.3	153.7	0.0
27.5°	451.1	280.7	157.0	0.0
25°	461.1	287.3	160.4	0.0
22.5°	471.1	290.7	163.7	0.0
20°	477.8	294.0	167.1	0.0
17.5°	487.8	297.4	170.4	0.0
15°	491.2	300.7	177.1	0.0
12.5°	497.8	304.0	177.1	0.0
10°	501.2	307.4	177.1	0.0
7.5°	507.9	307.4	177.1	0.0
5°	504.5	307.4	177.1	0.0
2.5°	504.5	307.4	177.1	0.0
0°	501.2	307.4	177.1	0.0

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