

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: EPHESUS

Report Number: P628591

Luminaire Tested: **EPH-VN-08-E-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628591  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-930-U-LAM  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
LAMBERTIAN distribution lens  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	45096.2 lumens	Max Intensity:	14699.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	71.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

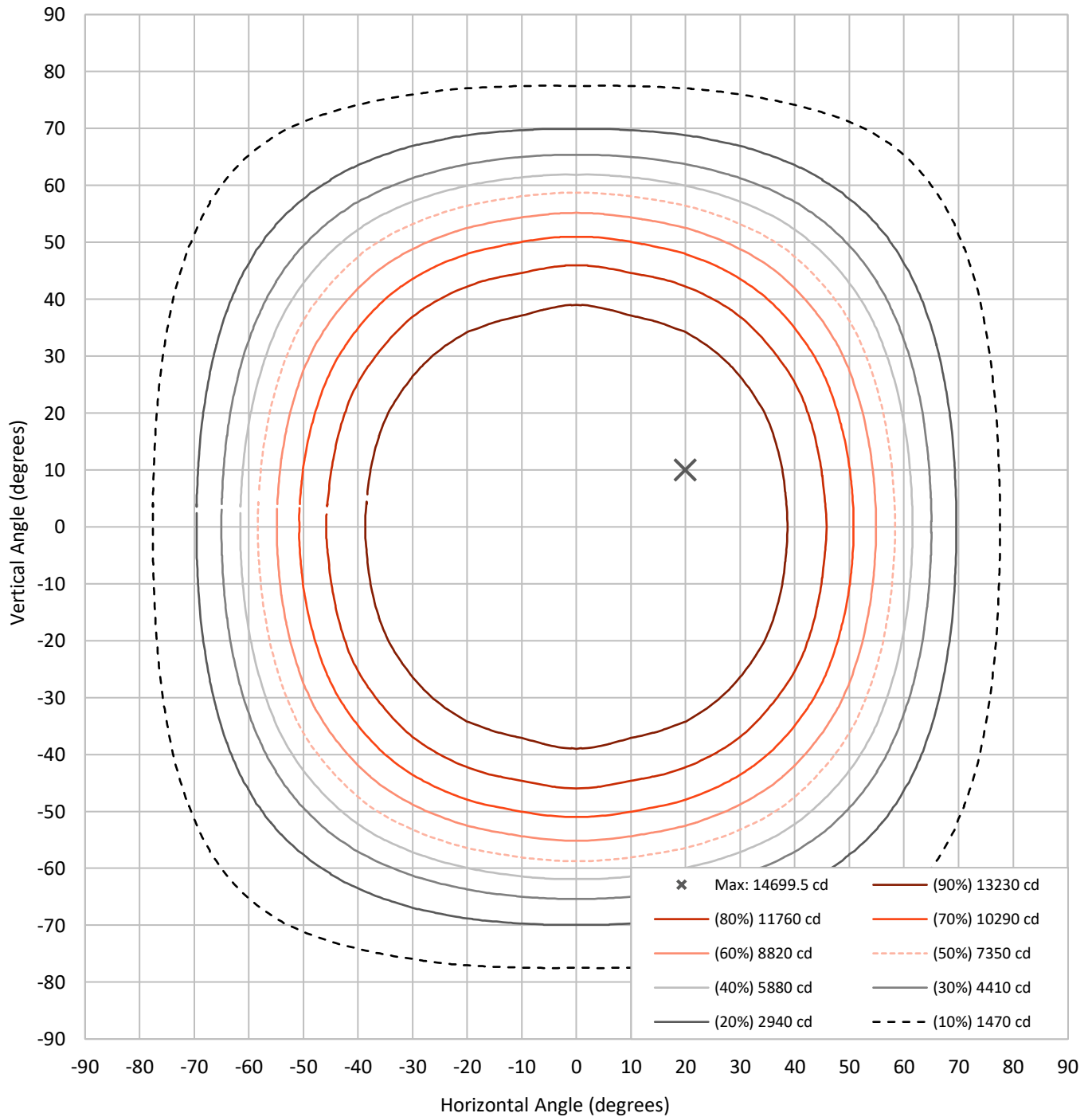
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	27672 lumens	Field Lumens:	33174 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 626.8  
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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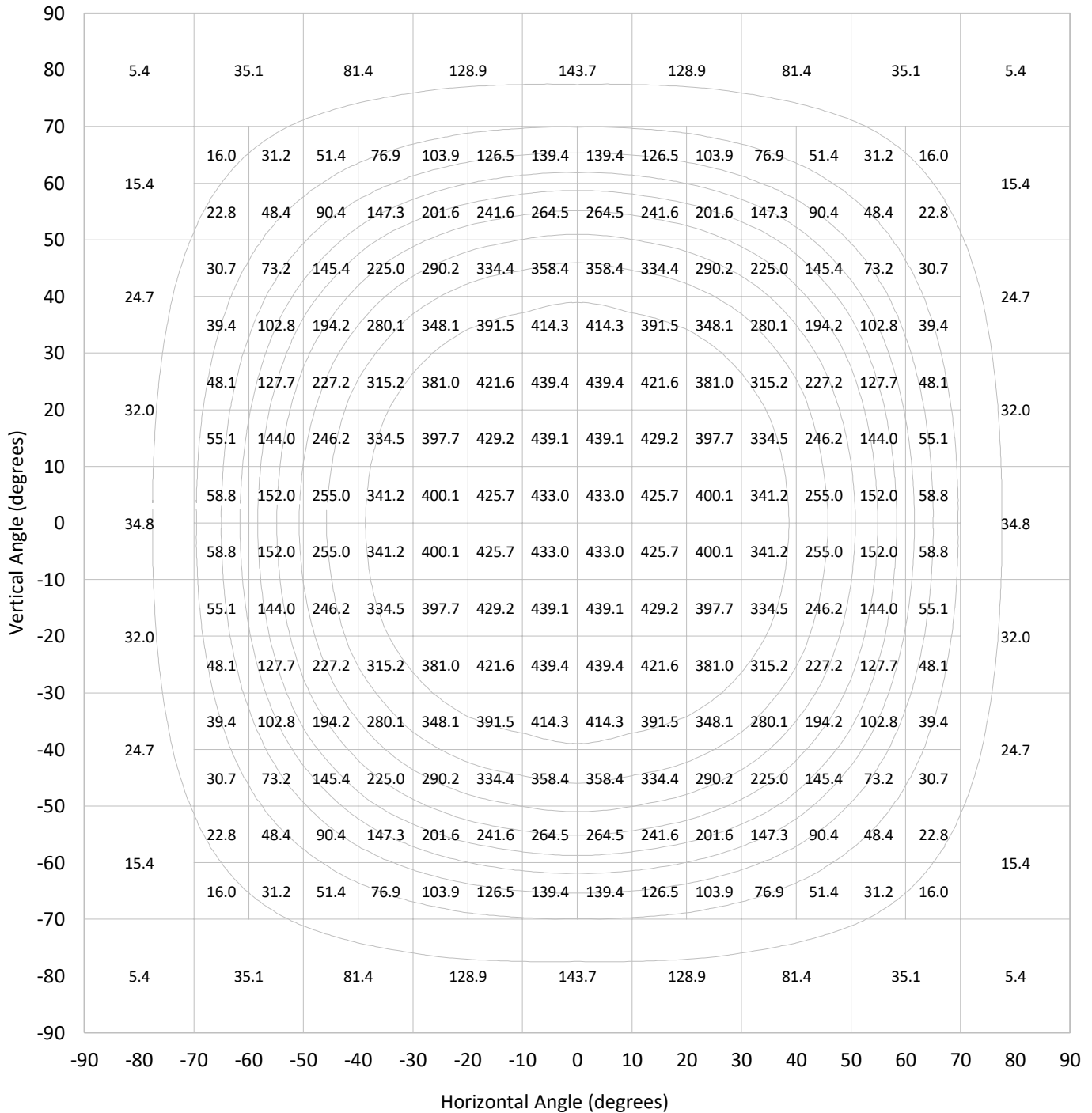
### Iso-Candela Plot





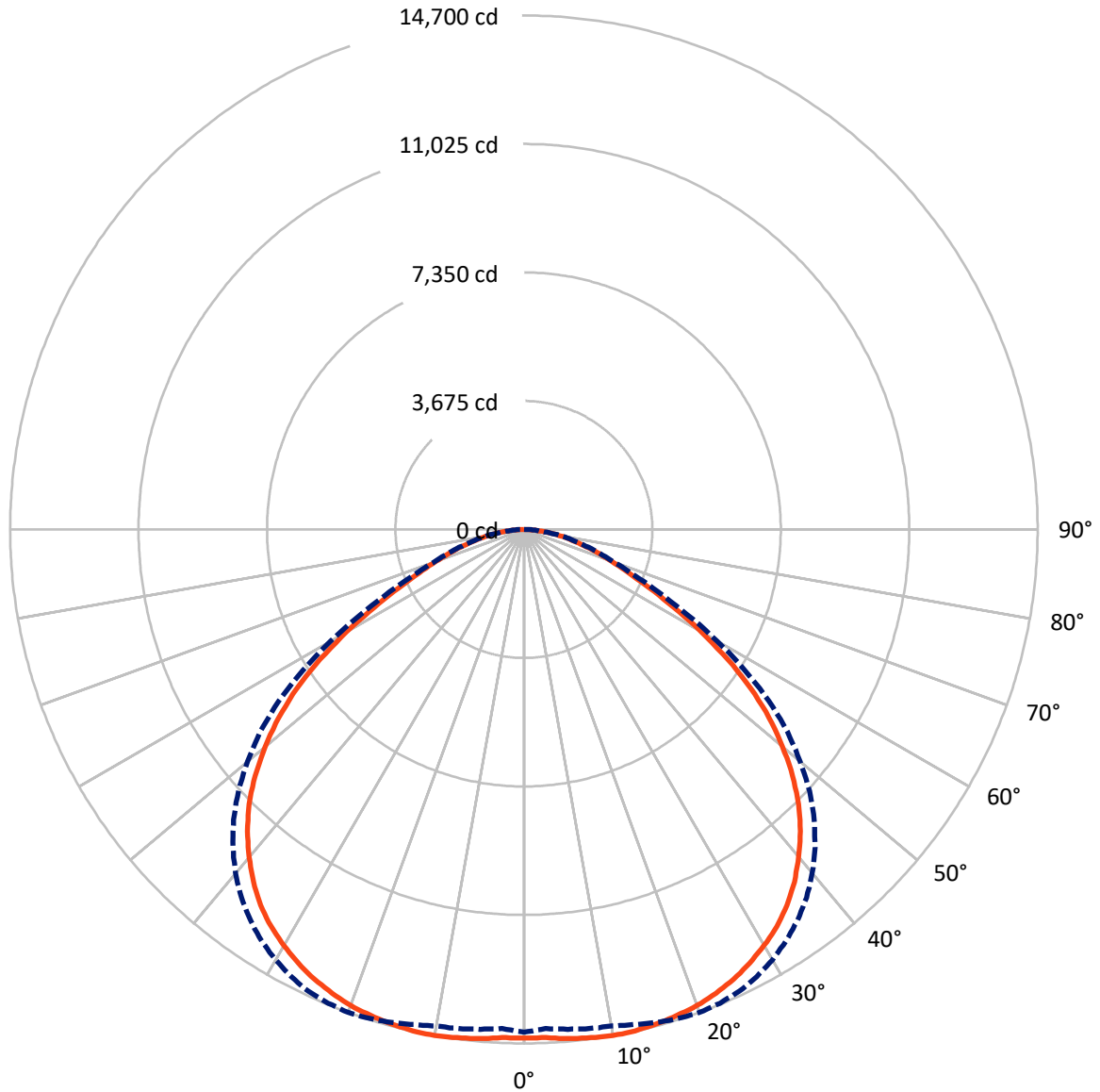
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### Lumen Table



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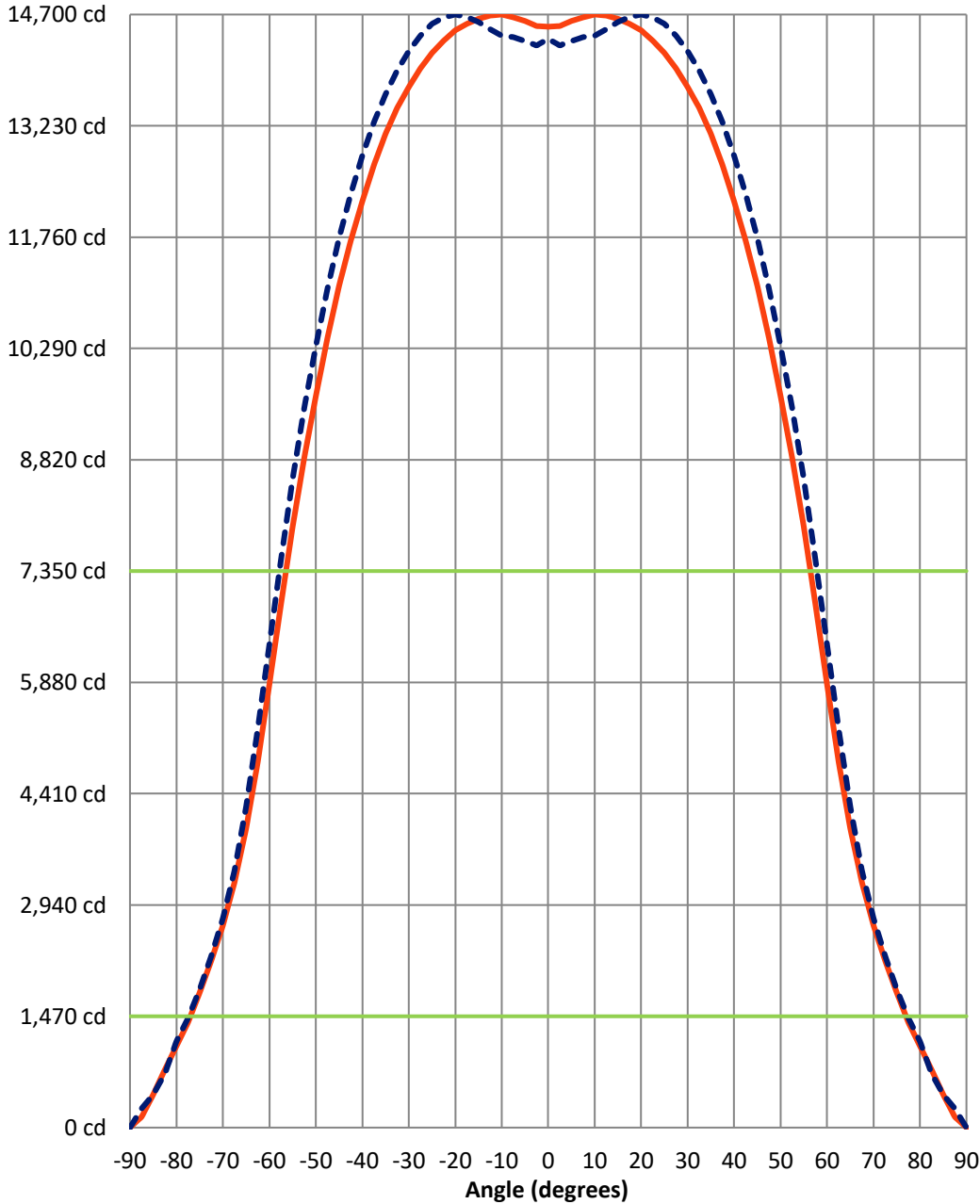
### Luminous Intensity Polar Plot



— 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: 27672  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 33174  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 11922.2  
 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°	118.6	128.1	132.9	137.6	142.3	147.1	151.8	147.1	142.3	142.3	137.6
85°	317.9	327.4	332.1	365.4	398.6	417.5	441.3	436.5	436.5	431.8	427.0
82.5°	635.8	664.3	688.0	721.2	740.2	768.7	787.6	773.4	763.9	744.9	730.7
80°	1129.3	1138.8	1143.5	1148.3	1124.5	1119.8	1110.3	1096.1	1077.1	1053.4	1029.6
77.5°	1437.7	1447.2	1456.7	1447.2	1442.4	1437.7	1423.5	1409.2	1390.2	1371.3	1342.8
75°	1902.7	1902.7	1902.7	1888.5	1879.0	1864.7	1841.0	1817.3	1784.1	1746.1	1703.4
72.5°	2396.2	2391.4	2386.7	2358.2	2334.5	2306.0	2272.8	2244.3	2206.4	2163.7	2106.7
70°	2913.3	2922.8	2927.6	2889.6	2861.1	2823.2	2780.5	2728.3	2671.4	2609.7	2529.0
67.5°	3625.1	3615.6	3606.1	3553.9	3515.9	3463.7	3402.1	3326.1	3240.7	3145.8	3032.0
65°	4507.6	4521.8	4493.4	4441.2	4370.0	4284.6	4189.7	4080.6	3952.5	3810.1	3648.8
62.5°	5575.2	5598.9	5565.7	5499.3	5409.1	5295.3	5162.4	5005.8	4830.3	4631.0	4431.7
60°	6789.9	6785.1	6723.5	6633.3	6514.7	6372.3	6225.2	6054.4	5855.1	5622.6	5380.7
57.5°	7904.9	7895.4	7819.5	7729.4	7610.7	7458.9	7302.3	7122.0	6913.2	6666.5	6386.6
55°	8906.1	8896.6	8820.7	8725.8	8602.4	8450.6	8308.2	8137.4	7933.4	7672.4	7373.5
52.5°	9793.4	9798.1	9731.7	9627.3	9494.4	9347.4	9209.8	9038.9	8844.4	8583.4	8294.0
50°	10609.5	10604.7	10533.6	10438.7	10315.3	10173.0	10035.4	9864.5	9660.5	9409.0	9129.1
47.5°	11368.7	11359.2	11278.5	11174.1	11046.0	10922.6	10794.5	10642.7	10429.2	10177.7	9897.8
45°	12004.5	11985.5	11904.8	11805.2	11681.8	11572.7	11458.8	11344.9	11117.2	10884.7	10619.0
42.5°	12550.1	12545.4	12464.7	12365.1	12241.7	12146.8	12042.4	11900.1	11710.3	11496.8	11235.8
40°	13072.1	13034.1	12953.4	12858.5	12744.7	12664.0	12559.6	12417.3	12232.2	12023.5	11772.0
37.5°	13461.1	13465.9	13380.5	13276.1	13176.5	13100.5	13005.6	12872.8	12711.5	12507.4	12256.0
35°	13831.2	13807.5	13736.3	13646.2	13556.0	13470.6	13371.0	13257.1	13124.3	12934.5	12697.2
32.5°	14073.2	14106.4	14021.0	13926.1	13873.9	13807.5	13703.1	13584.5	13465.9	13276.1	13062.6
30°	14338.9	14310.5	14244.0	14163.4	14125.4	14082.7	13992.6	13878.7	13741.1	13570.3	13371.0
27.5°	14524.0	14509.8	14429.1	14353.2	14334.2	14296.2	14225.1	14125.4	13987.8	13821.8	13636.7
25°	14604.7	14614.1	14538.2	14495.5	14495.5	14471.8	14414.9	14329.5	14191.9	14040.0	13859.7
22.5°	14642.6	14633.1	14580.9	14571.4	14595.2	14576.2	14552.5	14476.5	14353.2	14229.8	14078.0
20°	14666.3	14599.9	14552.5	14590.4	14618.9	14614.1	14595.2	14547.7	14490.8	14386.4	14253.5
17.5°	14614.1	14571.4	14514.5	14571.4	14633.1	14637.9	14618.9	14590.4	14576.2	14509.8	14391.1
15°	14486.0	14452.8	14462.3	14519.2	14590.4	14614.1	14628.4	14661.6	14642.6	14590.4	14486.0
12.5°	14400.6	14357.9	14400.6	14457.6	14495.5	14509.8	14623.6	14685.3	14685.3	14637.9	14571.4
10°	14376.9	14291.5	14348.4	14400.6	14419.6	14505.0	14599.9	14666.3	14699.5	14661.6	14576.2
7.5°	14329.5	14272.5	14296.2	14320.0	14429.1	14490.8	14543.0	14614.1	14661.6	14656.8	14580.9
5°	14305.7	14234.6	14244.0	14343.7	14419.6	14462.3	14481.3	14543.0	14614.1	14628.4	14571.4
2.5°	14244.0	14210.8	14282.0	14291.5	14348.4	14381.6	14400.6	14457.6	14547.7	14580.9	14557.2
0°	14210.8	14163.4	14115.9	14153.9	14248.8	14320.0	14348.4	14433.8	14538.2	14571.4	14519.2



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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°	132.9	128.1	123.4	118.6	123.4	123.4	123.4	118.6	123.4	118.6	118.6
85°	412.8	393.8	379.6	360.6	341.6	327.4	308.4	289.4	284.7	279.9	270.5
82.5°	711.7	688.0	664.3	635.8	607.3	574.1	540.9	503.0	493.5	484.0	469.7
80°	1001.2	967.9	934.7	901.5	873.1	839.8	801.9	759.2	730.7	707.0	678.5
77.5°	1304.8	1257.4	1209.9	1153.0	1119.8	1086.6	1048.6	1005.9	963.2	925.2	882.5
75°	1651.2	1599.0	1551.6	1494.6	1432.9	1371.3	1309.6	1252.6	1191.0	1134.0	1077.1
72.5°	2035.5	1959.6	1883.7	1812.5	1736.6	1660.7	1580.0	1504.1	1428.2	1352.3	1271.6
70°	2438.9	2344.0	2249.1	2154.2	2054.5	1954.9	1860.0	1765.1	1670.2	1570.5	1480.4
67.5°	2913.3	2804.2	2680.8	2548.0	2400.9	2272.8	2149.4	2035.5	1921.7	1807.8	1693.9
65°	3506.4	3354.6	3188.5	3008.2	2837.4	2666.6	2486.3	2315.5	2182.6	2049.8	1921.7
62.5°	4237.2	4023.6	3791.1	3558.6	3349.9	3126.9	2918.1	2695.1	2486.3	2296.5	2139.9
60°	5110.2	4820.8	4536.1	4237.2	3947.7	3644.0	3378.3	3103.1	2842.2	2609.7	2381.9
57.5°	6073.4	5736.5	5394.9	5029.5	4635.7	4279.9	3919.2	3558.6	3250.2	2941.8	2685.6
55°	7050.8	6695.0	6310.7	5897.9	5466.1	5010.6	4521.8	4118.5	3696.2	3335.6	3003.5
52.5°	7980.8	7610.7	7212.2	6832.6	6315.4	5793.5	5257.3	4725.9	4232.4	3772.2	3368.8
50°	8811.2	8450.6	8066.2	7625.0	7145.7	6590.6	5992.7	5394.9	4811.3	4270.4	3767.4
47.5°	9570.4	9219.2	8834.9	8393.6	7957.1	7340.3	6737.7	6078.2	5428.1	4806.5	4218.2
45°	10282.1	9926.2	9527.7	9105.4	8602.4	8052.0	7430.4	6766.2	6068.7	5371.2	4692.7
42.5°	10927.4	10571.5	10168.2	9731.7	9233.5	8687.8	8085.2	7416.2	6714.0	5954.8	5209.8
40°	11492.0	11145.7	10756.6	10301.1	9836.1	9262.0	8668.8	8033.0	7307.1	6543.2	5722.3
37.5°	11985.5	11662.8	11278.5	10827.8	10334.3	9821.8	9209.8	8573.9	7919.2	7088.8	6249.0
35°	12422.0	12123.1	11729.3	11302.2	10818.3	10277.3	9703.2	9081.6	8374.7	7596.5	6780.4
32.5°	12801.6	12497.9	12137.3	11710.3	11240.6	10732.9	10144.5	9518.2	8849.1	8056.8	7169.5
30°	13124.3	12830.1	12488.4	12085.1	11634.4	11131.4	10557.3	9926.2	9243.0	8455.3	7577.5
27.5°	13404.2	13124.3	12792.1	12417.3	11985.5	11501.5	10922.6	10286.8	9589.3	8830.2	7952.4
25°	13646.2	13375.7	13067.3	12711.5	12284.4	11809.9	11264.3	10600.0	9902.5	9138.6	8270.3
22.5°	13864.5	13603.5	13295.1	12948.7	12559.6	12085.1	11534.7	10875.2	10168.2	9413.8	8559.7
20°	14059.0	13817.0	13513.3	13157.5	12768.4	12289.2	11743.5	11117.2	10405.5	9665.3	8820.7
17.5°	14215.6	14002.1	13698.4	13323.5	12934.5	12469.5	11938.0	11363.9	10609.5	9878.8	9038.9
15°	14324.7	14115.9	13840.7	13461.1	13081.6	12621.3	12089.9	11496.8	10794.5	10049.6	9219.2
12.5°	14400.6	14177.6	13921.4	13570.3	13190.7	12735.2	12218.0	11634.4	10951.1	10201.4	9375.8
10°	14419.6	14215.6	13959.4	13646.2	13276.1	12834.8	12327.1	11748.3	11079.2	10320.1	9503.9
7.5°	14429.1	14234.6	14002.1	13703.1	13337.8	12910.7	12407.8	11838.4	11174.1	10419.7	9598.8
5°	14424.3	14239.3	14030.5	13741.1	13375.7	12953.4	12460.0	11900.1	11240.6	10486.1	9670.0
2.5°	14410.1	14244.0	14049.5	13769.6	13418.4	13000.9	12512.2	11971.3	11311.7	10543.1	9726.9
0°	14448.1	14305.7	14059.0	13760.1	13427.9	13000.9	12507.4	11980.8	11321.2	10538.3	9722.2





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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°	118.6	113.9	113.9	109.1	104.4	99.6	90.2	85.4	75.9	61.7	47.4
85°	256.2	242.0	227.8	218.3	208.8	199.3	185.0	170.8	151.8	123.4	94.9
82.5°	450.8	422.3	393.8	360.6	332.1	303.7	279.9	256.2	227.8	185.0	142.3
80°	645.3	602.6	559.9	512.4	469.7	422.3	379.6	341.6	303.7	246.7	189.8
77.5°	839.8	782.9	721.2	664.3	602.6	540.9	479.2	427.0	370.1	303.7	237.2
75°	1020.1	953.7	896.8	816.1	740.2	659.5	578.9	507.7	436.5	355.9	284.7
72.5°	1200.4	1115.0	1034.4	958.5	873.1	773.4	683.3	593.1	503.0	408.1	322.6
70°	1380.8	1276.4	1176.7	1086.6	991.7	892.0	782.9	678.5	569.4	455.5	355.9
67.5°	1565.8	1447.2	1333.3	1219.4	1110.3	996.4	882.5	763.9	635.8	503.0	393.8
65°	1769.8	1622.7	1485.1	1357.0	1228.9	1105.6	977.4	849.3	707.0	555.1	427.0
62.5°	1973.9	1812.5	1651.2	1489.9	1347.5	1209.9	1072.3	930.0	773.4	612.1	460.3
60°	2192.1	2007.1	1822.0	1641.7	1466.2	1314.3	1162.5	1010.7	844.6	664.3	493.5
57.5°	2434.1	2211.1	2002.3	1798.3	1599.0	1418.7	1252.6	1091.3	906.3	716.5	531.4
55°	2709.3	2434.1	2187.4	1959.6	1741.4	1523.1	1342.8	1176.7	977.4	768.7	574.1
52.5°	2998.7	2680.8	2381.9	2125.7	1893.2	1646.5	1428.2	1243.2	1048.6	820.9	612.1
50°	3335.6	2932.3	2600.2	2287.0	2026.1	1769.8	1518.4	1319.1	1119.8	882.5	650.0
47.5°	3682.0	3236.0	2818.4	2476.8	2168.4	1888.5	1622.7	1385.5	1186.2	939.5	688.0
45°	4085.3	3525.4	3065.2	2661.9	2306.0	2011.8	1727.1	1456.7	1243.2	996.4	726.0
42.5°	4474.4	3867.1	3321.4	2865.9	2462.6	2130.4	1822.0	1532.6	1300.1	1053.4	759.2
40°	4934.6	4208.7	3568.1	3060.4	2619.2	2244.3	1916.9	1613.2	1352.3	1105.6	792.4
37.5°	5375.9	4555.1	3867.1	3273.9	2771.0	2358.2	2011.8	1689.2	1399.7	1157.7	835.1
35°	5812.4	4939.4	4151.7	3473.2	2927.6	2486.3	2106.7	1760.3	1447.2	1200.4	873.1
32.5°	6230.0	5300.0	4441.2	3696.2	3098.4	2604.9	2192.1	1826.8	1494.6	1238.4	911.0
30°	6619.1	5641.6	4725.9	3924.0	3255.0	2714.1	2272.8	1893.2	1551.6	1271.6	949.0
27.5°	6974.9	5973.8	5010.6	4137.5	3402.1	2813.7	2358.2	1954.9	1599.0	1304.8	982.2
25°	7297.6	6272.7	5271.5	4332.0	3534.9	2922.8	2438.9	2016.6	1641.7	1333.3	1010.7
22.5°	7601.3	6547.9	5508.8	4526.6	3696.2	3032.0	2514.8	2073.5	1684.4	1361.8	1039.1
20°	7867.0	6799.4	5736.5	4721.1	3838.6	3131.6	2581.2	2125.7	1722.4	1380.8	1067.6
17.5°	8080.5	7022.4	5940.6	4891.9	3962.0	3217.0	2638.1	2173.1	1755.6	1404.5	1086.6
15°	8270.3	7212.2	6111.4	5039.0	4071.1	3288.2	2690.3	2211.1	1784.1	1418.7	1110.3
12.5°	8431.6	7373.5	6258.5	5167.1	4166.0	3349.9	2733.0	2239.6	1807.8	1432.9	1124.5
10°	8564.5	7501.6	6381.8	5266.8	4241.9	3397.3	2766.2	2268.0	1826.8	1447.2	1138.8
7.5°	8664.1	7596.5	6472.0	5352.2	4303.6	3430.5	2794.7	2287.0	1845.7	1456.7	1162.5
5°	8740.0	7677.2	6543.2	5409.1	4351.0	3478.0	2827.9	2310.7	1864.7	1466.2	1162.5
2.5°	8797.0	7743.6	6600.1	5456.6	4389.0	3468.5	2827.9	2306.0	1864.7	1466.2	1157.7
0°	8787.5	7748.3	6595.3	5456.6	4389.0	3459.0	2827.9	2301.3	1864.7	1466.2	1157.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	33.2	23.7	9.5	0.0
85°	71.2	47.4	23.7	0.0
82.5°	104.4	66.4	33.2	0.0
80°	137.6	90.2	42.7	0.0
77.5°	175.6	113.9	56.9	0.0
75°	208.8	132.9	66.4	0.0
72.5°	242.0	156.6	75.9	0.0
70°	270.5	175.6	85.4	0.0
67.5°	298.9	199.3	99.6	0.0
65°	322.6	218.3	109.1	0.0
62.5°	341.6	242.0	118.6	0.0
60°	365.4	261.0	128.1	0.0
57.5°	384.3	275.2	137.6	0.0
55°	403.3	284.7	147.1	0.0
52.5°	422.3	298.9	156.6	0.0
50°	441.3	313.2	166.1	0.0
47.5°	460.3	322.6	170.8	0.0
45°	488.7	336.9	180.3	0.0
42.5°	512.4	346.4	189.8	0.0
40°	536.2	355.9	194.5	0.0
37.5°	559.9	365.4	204.0	0.0
35°	583.6	374.8	208.8	0.0
32.5°	602.6	384.3	213.5	0.0
30°	621.6	393.8	218.3	0.0
27.5°	640.6	398.6	223.0	0.0
25°	654.8	408.1	227.8	0.0
22.5°	669.0	412.8	232.5	0.0
20°	678.5	417.5	237.2	0.0
17.5°	692.7	422.3	242.0	0.0
15°	697.5	427.0	251.5	0.0
12.5°	707.0	431.8	251.5	0.0
10°	711.7	436.5	251.5	0.0
7.5°	721.2	436.5	251.5	0.0
5°	716.5	436.5	251.5	0.0
2.5°	716.5	436.5	251.5	0.0
0°	711.7	436.5	251.5	0.0

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