

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: P628588

Luminaire Tested: **EPH-VN-06-E-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628588  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-930-U-LAM  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
LAMBERTIAN distribution lens  
Light Source: (96) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

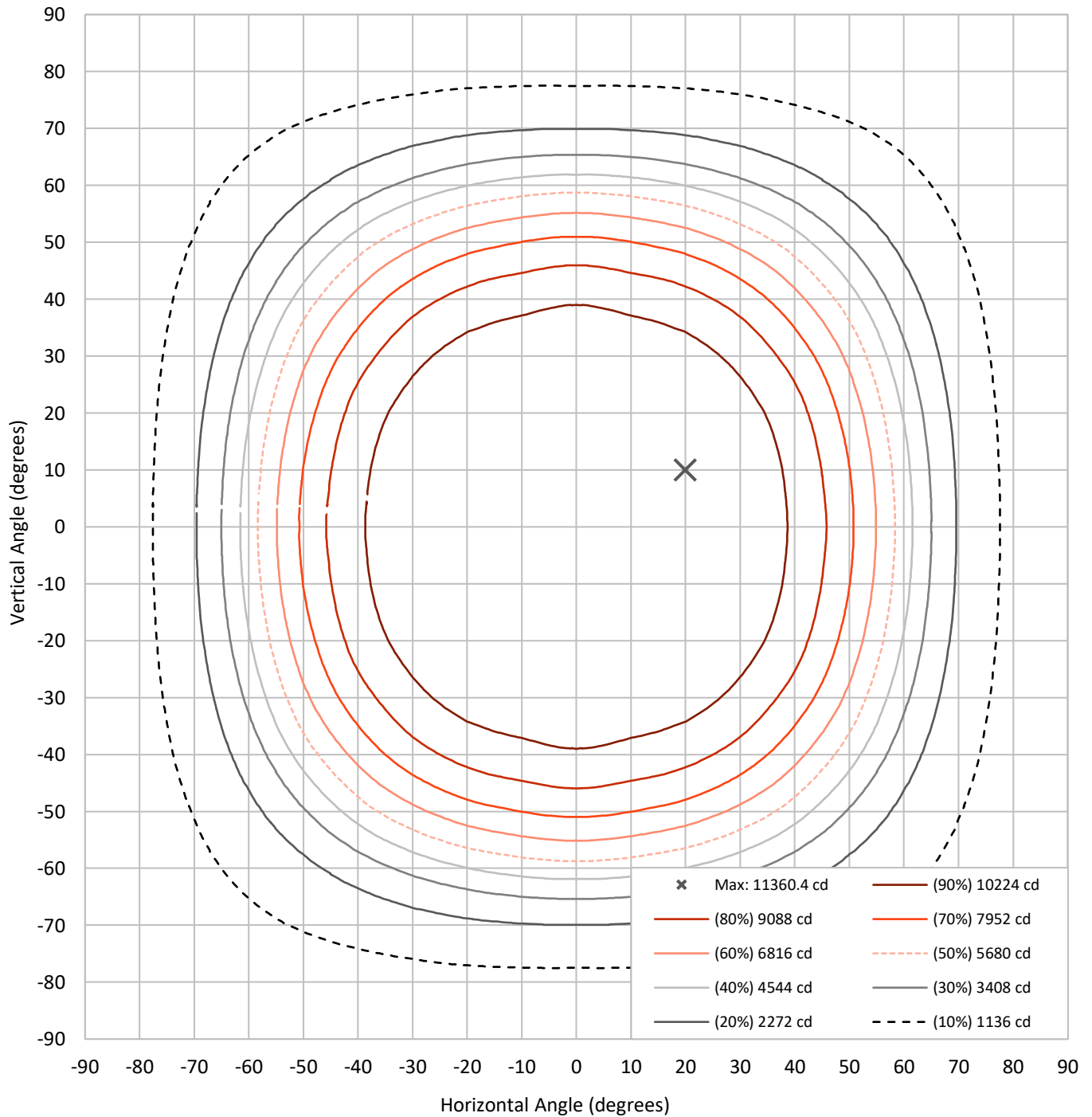
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34852.2 lumens	Max Intensity:	11360.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	75.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21386 lumens	Field Lumens:	25638.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2  
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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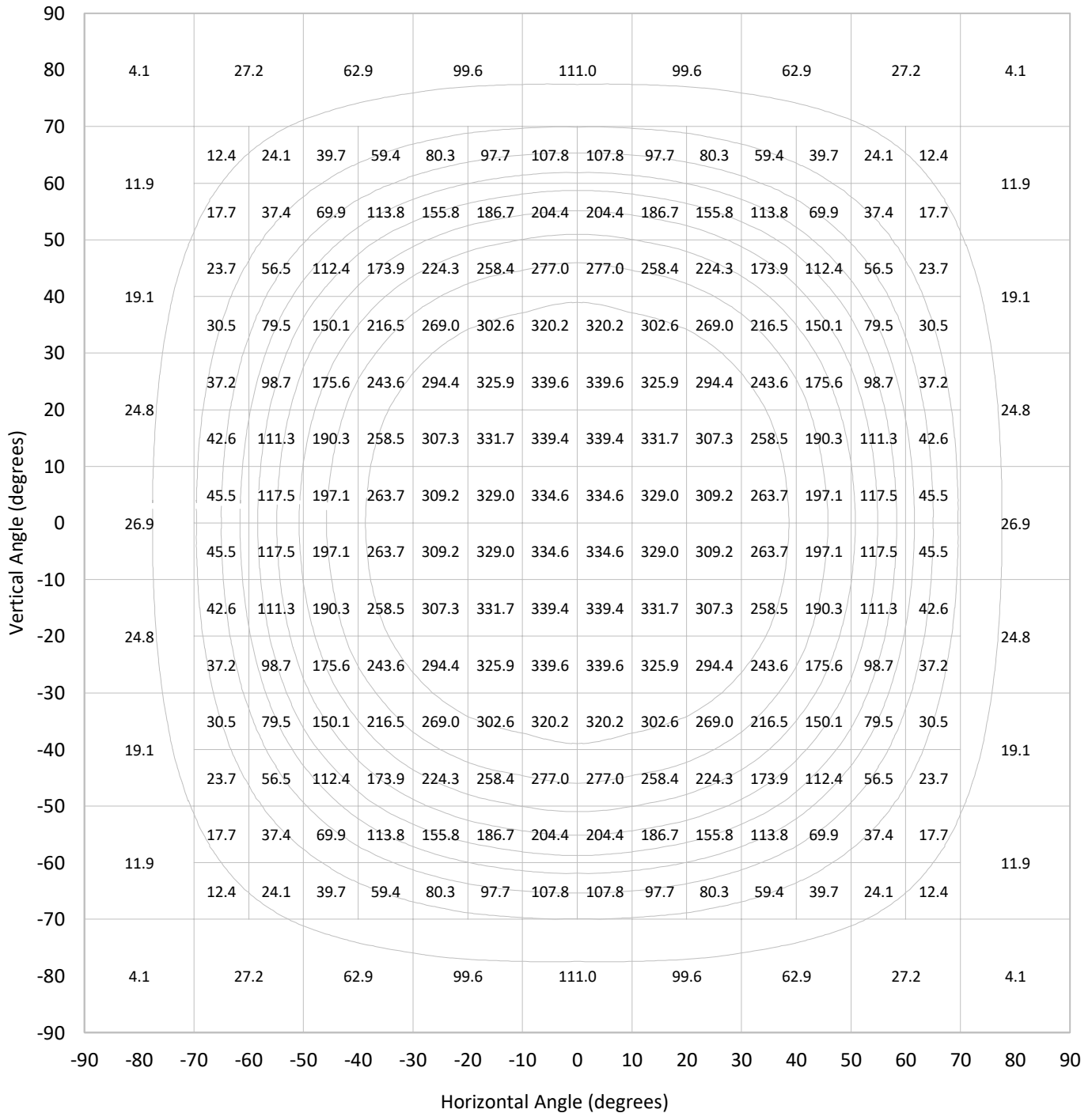
### Iso-Candela Plot





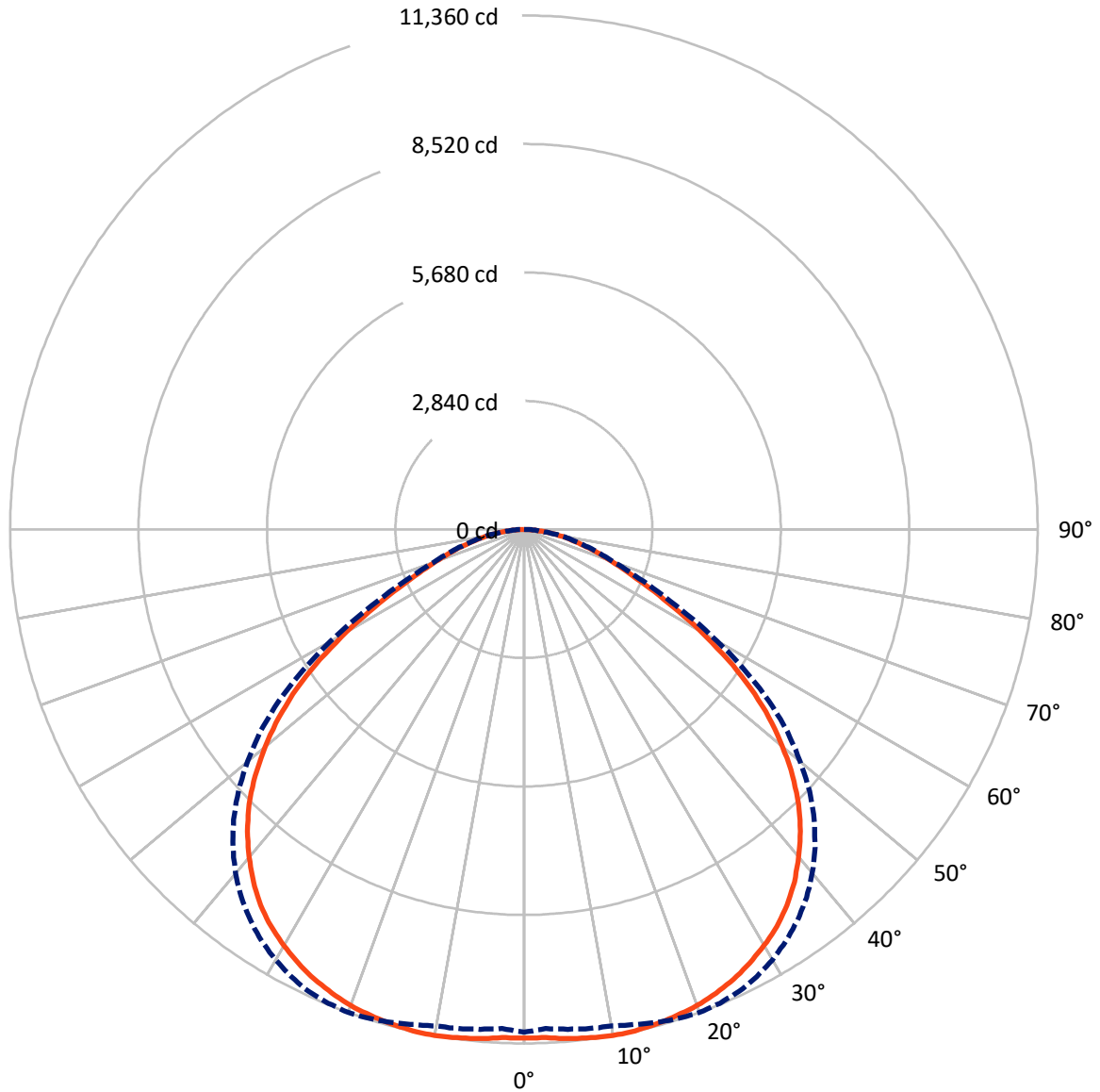
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### Lumen Table



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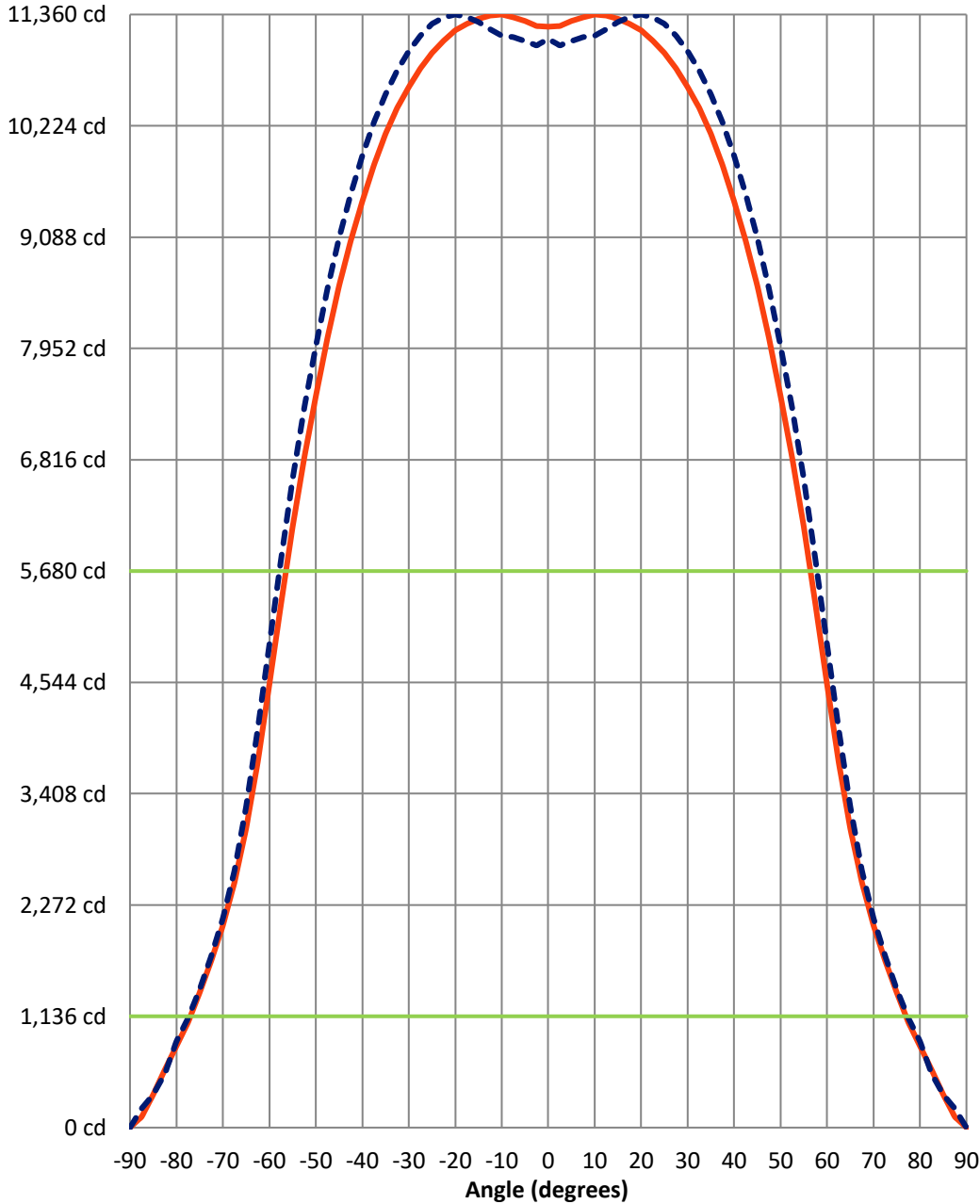
### Luminous Intensity Polar Plot



— 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: 21386  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 25638.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 9214  
 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°	91.7	99.0	102.7	106.3	110.0	113.7	117.3	113.7	110.0	110.0	106.3
85°	245.7	253.0	256.7	282.4	308.0	322.7	341.0	337.4	337.4	333.7	330.0
82.5°	491.4	513.4	531.7	557.4	572.1	594.1	608.7	597.7	590.4	575.7	564.7
80°	872.7	880.1	883.7	887.4	869.1	865.4	858.1	847.1	832.4	814.1	795.7
77.5°	1111.1	1118.4	1125.8	1118.4	1114.8	1111.1	1100.1	1089.1	1074.4	1059.8	1037.8
75°	1470.5	1470.5	1470.5	1459.5	1452.1	1441.1	1422.8	1404.5	1378.8	1349.5	1316.5
72.5°	1851.8	1848.2	1844.5	1822.5	1804.2	1782.2	1756.5	1734.5	1705.2	1672.2	1628.2
70°	2251.5	2258.9	2262.5	2233.2	2211.2	2181.9	2148.9	2108.5	2064.5	2016.9	1954.5
67.5°	2801.6	2794.3	2786.9	2746.6	2717.3	2676.9	2629.2	2570.6	2504.6	2431.2	2343.2
65°	3483.7	3494.7	3472.7	3432.3	3377.3	3311.3	3238.0	3153.6	3054.6	2944.6	2819.9
62.5°	4308.7	4327.1	4301.4	4250.1	4180.4	4092.4	3989.7	3868.7	3733.0	3579.0	3425.0
60°	5247.5	5243.8	5196.2	5126.5	5034.8	4924.8	4811.1	4679.1	4525.1	4345.4	4158.4
57.5°	6109.2	6101.9	6043.2	5973.6	5881.9	5764.5	5643.5	5504.2	5342.8	5152.2	4935.8
55°	6883.0	6875.6	6817.0	6743.6	6648.3	6530.9	6420.9	6288.9	6131.2	5929.6	5698.5
52.5°	7568.7	7572.4	7521.0	7440.4	7337.7	7224.0	7117.7	6985.7	6835.3	6633.6	6409.9
50°	8199.4	8195.8	8140.8	8067.4	7972.1	7862.1	7755.7	7623.7	7466.0	7271.7	7055.3
47.5°	8786.2	8778.8	8716.5	8635.8	8536.8	8441.5	8342.5	8225.1	8060.1	7865.7	7649.4
45°	9277.5	9262.9	9200.5	9123.5	9028.2	8943.8	8855.8	8767.8	8591.8	8412.1	8206.8
42.5°	9699.2	9695.6	9633.2	9556.2	9460.9	9387.5	9306.9	9196.9	9050.2	8885.2	8683.5
40°	10102.6	10073.3	10010.9	9937.6	9849.6	9787.3	9706.6	9596.6	9453.6	9292.2	9097.9
37.5°	10403.3	10407.0	10341.0	10260.3	10183.3	10124.6	10051.3	9948.6	9823.9	9666.2	9471.9
35°	10689.3	10671.0	10616.0	10546.3	10476.7	10410.6	10333.6	10245.6	10143.0	9996.3	9812.9
32.5°	10876.4	10902.0	10836.0	10762.7	10722.3	10671.0	10590.3	10498.7	10407.0	10260.3	10095.3
30°	11081.7	11059.7	11008.4	10946.0	10916.7	10883.7	10814.0	10726.0	10619.7	10487.7	10333.6
27.5°	11224.7	11213.7	11151.4	11092.7	11078.0	11048.7	10993.7	10916.7	10810.3	10682.0	10539.0
25°	11287.1	11294.4	11235.7	11202.7	11202.7	11184.4	11140.4	11074.4	10968.0	10850.7	10711.3
22.5°	11316.4	11309.1	11268.7	11261.4	11279.7	11265.1	11246.7	11188.1	11092.7	10997.4	10880.0
20°	11334.7	11283.4	11246.7	11276.1	11298.1	11294.4	11279.7	11243.1	11199.1	11118.4	11015.7
17.5°	11294.4	11261.4	11217.4	11261.4	11309.1	11312.7	11298.1	11276.1	11265.1	11213.7	11122.0
15°	11195.4	11169.7	11177.1	11221.1	11276.1	11294.4	11305.4	11331.1	11316.4	11276.1	11195.4
12.5°	11129.4	11096.4	11129.4	11173.4	11202.7	11213.7	11301.7	11349.4	11349.4	11312.7	11261.4
10°	11111.0	11045.0	11089.0	11129.4	11144.0	11210.1	11283.4	11334.7	11360.4	11331.1	11265.1
7.5°	11074.4	11030.4	11048.7	11067.0	11151.4	11199.1	11239.4	11294.4	11331.1	11327.4	11268.7
5°	11056.0	11001.0	11008.4	11085.4	11144.0	11177.1	11191.7	11239.4	11294.4	11305.4	11261.4
2.5°	11008.4	10982.7	11037.7	11045.0	11089.0	11114.7	11129.4	11173.4	11243.1	11268.7	11250.4
0°	10982.7	10946.0	10909.4	10938.7	11012.0	11067.0	11089.0	11155.0	11235.7	11261.4	11221.1



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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°	102.7	99.0	95.3	91.7	95.3	95.3	95.3	91.7	95.3	91.7	91.7
85°	319.0	304.4	293.4	278.7	264.0	253.0	238.4	223.7	220.0	216.4	209.0
82.5°	550.1	531.7	513.4	491.4	469.4	443.7	418.0	388.7	381.4	374.0	363.0
80°	773.7	748.1	722.4	696.7	674.7	649.1	619.7	586.7	564.7	546.4	524.4
77.5°	1008.4	971.8	935.1	891.1	865.4	839.7	810.4	777.4	744.4	715.1	682.1
75°	1276.1	1235.8	1199.1	1155.1	1107.4	1059.8	1012.1	968.1	920.4	876.4	832.4
72.5°	1573.1	1514.5	1455.8	1400.8	1342.1	1283.5	1221.1	1162.4	1103.8	1045.1	982.8
70°	1884.8	1811.5	1738.2	1664.8	1587.8	1510.8	1437.5	1364.1	1290.8	1213.8	1144.1
67.5°	2251.5	2167.2	2071.9	1969.2	1855.5	1756.5	1661.2	1573.1	1485.1	1397.1	1309.1
65°	2709.9	2592.6	2464.2	2324.9	2192.9	2060.9	1921.5	1789.5	1686.8	1584.1	1485.1
62.5°	3274.6	3109.6	2929.9	2750.3	2588.9	2416.6	2255.2	2082.9	1921.5	1774.8	1653.8
60°	3949.4	3725.7	3505.7	3274.6	3051.0	2816.3	2610.9	2398.2	2196.5	2016.9	1840.8
57.5°	4693.8	4433.4	4169.4	3887.0	3582.7	3307.6	3029.0	2750.3	2511.9	2273.5	2075.5
55°	5449.2	5174.2	4877.1	4558.1	4224.4	3872.4	3494.7	3183.0	2856.6	2577.9	2321.2
52.5°	6167.9	5881.9	5573.9	5280.5	4880.8	4477.4	4063.0	3652.3	3271.0	2915.3	2603.6
50°	6809.6	6530.9	6233.9	5892.9	5522.5	5093.5	4631.4	4169.4	3718.3	3300.3	2911.6
47.5°	7396.4	7125.0	6828.0	6486.9	6149.6	5672.9	5207.2	4697.4	4195.1	3714.7	3260.0
45°	7946.4	7671.4	7363.4	7037.0	6648.3	6222.9	5742.5	5229.2	4690.1	4151.1	3626.7
42.5°	8445.1	8170.1	7858.4	7521.0	7136.0	6714.3	6248.6	5731.5	5188.8	4602.1	4026.4
40°	8881.5	8613.8	8313.1	7961.1	7601.7	7158.0	6699.6	6208.2	5647.2	5056.8	4422.4
37.5°	9262.9	9013.5	8716.5	8368.1	7986.8	7590.7	7117.7	6626.3	6120.2	5478.5	4829.5
35°	9600.2	9369.2	9064.9	8734.8	8360.8	7942.7	7499.0	7018.7	6472.3	5870.9	5240.2
32.5°	9893.6	9658.9	9380.2	9050.2	8687.1	8294.8	7840.1	7356.0	6839.0	6226.6	5540.9
30°	10143.0	9915.6	9651.6	9339.9	8991.5	8602.8	8159.1	7671.4	7143.3	6534.6	5856.2
27.5°	10359.3	10143.0	9886.3	9596.6	9262.9	8888.8	8441.5	7950.1	7411.0	6824.3	6145.9
25°	10546.3	10337.3	10098.9	9823.9	9493.9	9127.2	8705.5	8192.1	7653.1	7062.7	6391.6
22.5°	10715.0	10513.3	10275.0	10007.3	9706.6	9339.9	8914.5	8404.8	7858.4	7275.4	6615.3
20°	10865.4	10678.3	10443.6	10168.6	9867.9	9497.6	9075.9	8591.8	8041.8	7469.7	6817.0
17.5°	10986.4	10821.4	10586.7	10297.0	9996.3	9636.9	9226.2	8782.5	8199.4	7634.7	6985.7
15°	11070.7	10909.4	10696.7	10403.3	10109.9	9754.2	9343.5	8885.2	8342.5	7766.7	7125.0
12.5°	11129.4	10957.0	10759.0	10487.7	10194.3	9842.3	9442.6	8991.5	8463.5	7884.1	7246.0
10°	11144.0	10986.4	10788.3	10546.3	10260.3	9919.3	9526.9	9079.5	8562.5	7975.7	7345.0
7.5°	11151.4	11001.0	10821.4	10590.3	10308.0	9977.9	9589.2	9149.2	8635.8	8052.8	7418.4
5°	11147.7	11004.7	10843.4	10619.7	10337.3	10010.9	9629.6	9196.9	8687.1	8104.1	7473.4
2.5°	11136.7	11008.4	10858.0	10641.7	10370.3	10047.6	9669.9	9251.9	8742.2	8148.1	7517.4
0°	11166.0	11056.0	10865.4	10634.3	10377.6	10047.6	9666.2	9259.2	8749.5	8144.4	7513.7





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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°	91.7	88.0	88.0	84.3	80.7	77.0	69.7	66.0	58.7	47.7	36.7
85°	198.0	187.0	176.0	168.7	161.3	154.0	143.0	132.0	117.3	95.3	73.3
82.5°	348.4	326.4	304.4	278.7	256.7	234.7	216.4	198.0	176.0	143.0	110.0
80°	498.7	465.7	432.7	396.0	363.0	326.4	293.4	264.0	234.7	190.7	146.7
77.5°	649.1	605.1	557.4	513.4	465.7	418.0	370.4	330.0	286.0	234.7	183.4
75°	788.4	737.1	693.1	630.7	572.1	509.7	447.4	392.4	337.4	275.0	220.0
72.5°	927.8	861.7	799.4	740.7	674.7	597.7	528.0	458.4	388.7	315.4	249.4
70°	1067.1	986.4	909.4	839.7	766.4	689.4	605.1	524.4	440.0	352.0	275.0
67.5°	1210.1	1118.4	1030.4	942.4	858.1	770.1	682.1	590.4	491.4	388.7	304.4
65°	1367.8	1254.1	1147.8	1048.8	949.8	854.4	755.4	656.4	546.4	429.0	330.0
62.5°	1525.5	1400.8	1276.1	1151.4	1041.4	935.1	828.7	718.7	597.7	473.0	355.7
60°	1694.2	1551.1	1408.1	1268.8	1133.1	1015.8	898.4	781.1	652.7	513.4	381.4
57.5°	1881.2	1708.8	1547.5	1389.8	1235.8	1096.4	968.1	843.4	700.4	553.7	410.7
55°	2093.9	1881.2	1690.5	1514.5	1345.8	1177.1	1037.8	909.4	755.4	594.1	443.7
52.5°	2317.6	2071.9	1840.8	1642.8	1463.1	1272.5	1103.8	960.8	810.4	634.4	473.0
50°	2577.9	2266.2	2009.5	1767.5	1565.8	1367.8	1173.4	1019.4	865.4	682.1	502.4
47.5°	2845.6	2500.9	2178.2	1914.2	1675.8	1459.5	1254.1	1070.8	916.8	726.1	531.7
45°	3157.3	2724.6	2368.9	2057.2	1782.2	1554.8	1334.8	1125.8	960.8	770.1	561.1
42.5°	3458.0	2988.6	2566.9	2214.9	1903.2	1646.5	1408.1	1184.4	1004.8	814.1	586.7
40°	3813.7	3252.6	2757.6	2365.2	2024.2	1734.5	1481.5	1246.8	1045.1	854.4	612.4
37.5°	4154.7	3520.3	2988.6	2530.2	2141.5	1822.5	1554.8	1305.5	1081.8	894.8	645.4
35°	4492.1	3817.4	3208.6	2684.3	2262.5	1921.5	1628.2	1360.5	1118.4	927.8	674.7
32.5°	4814.8	4096.1	3432.3	2856.6	2394.6	2013.2	1694.2	1411.8	1155.1	957.1	704.1
30°	5115.5	4360.1	3652.3	3032.6	2515.6	2097.5	1756.5	1463.1	1199.1	982.8	733.4
27.5°	5390.5	4616.8	3872.4	3197.6	2629.2	2174.5	1822.5	1510.8	1235.8	1008.4	759.1
25°	5639.9	4847.8	4074.0	3348.0	2731.9	2258.9	1884.8	1558.5	1268.8	1030.4	781.1
22.5°	5874.6	5060.5	4257.4	3498.3	2856.6	2343.2	1943.5	1602.5	1301.8	1052.4	803.1
20°	6079.9	5254.8	4433.4	3648.7	2966.6	2420.2	1994.9	1642.8	1331.1	1067.1	825.1
17.5°	6244.9	5427.2	4591.1	3780.7	3062.0	2486.2	2038.9	1679.5	1356.8	1085.4	839.7
15°	6391.6	5573.9	4723.1	3894.4	3146.3	2541.2	2079.2	1708.8	1378.8	1096.4	858.1
12.5°	6516.3	5698.5	4836.8	3993.4	3219.6	2588.9	2112.2	1730.8	1397.1	1107.4	869.1
10°	6619.0	5797.5	4932.1	4070.4	3278.3	2625.6	2137.9	1752.8	1411.8	1118.4	880.1
7.5°	6696.0	5870.9	5001.8	4136.4	3326.0	2651.2	2159.9	1767.5	1426.5	1125.8	898.4
5°	6754.6	5933.2	5056.8	4180.4	3362.6	2687.9	2185.5	1785.8	1441.1	1133.1	898.4
2.5°	6798.6	5984.6	5100.8	4217.1	3392.0	2680.6	2185.5	1782.2	1441.1	1133.1	894.8
0°	6791.3	5988.2	5097.1	4217.1	3392.0	2673.3	2185.5	1778.5	1441.1	1133.1	894.8



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.7	18.3	7.3	0.0
85°	55.0	36.7	18.3	0.0
82.5°	80.7	51.3	25.7	0.0
80°	106.3	69.7	33.0	0.0
77.5°	135.7	88.0	44.0	0.0
75°	161.3	102.7	51.3	0.0
72.5°	187.0	121.0	58.7	0.0
70°	209.0	135.7	66.0	0.0
67.5°	231.0	154.0	77.0	0.0
65°	249.4	168.7	84.3	0.0
62.5°	264.0	187.0	91.7	0.0
60°	282.4	201.7	99.0	0.0
57.5°	297.0	212.7	106.3	0.0
55°	311.7	220.0	113.7	0.0
52.5°	326.4	231.0	121.0	0.0
50°	341.0	242.0	128.3	0.0
47.5°	355.7	249.4	132.0	0.0
45°	377.7	260.4	139.3	0.0
42.5°	396.0	267.7	146.7	0.0
40°	414.4	275.0	150.3	0.0
37.5°	432.7	282.4	157.7	0.0
35°	451.0	289.7	161.3	0.0
32.5°	465.7	297.0	165.0	0.0
30°	480.4	304.4	168.7	0.0
27.5°	495.0	308.0	172.3	0.0
25°	506.0	315.4	176.0	0.0
22.5°	517.0	319.0	179.7	0.0
20°	524.4	322.7	183.4	0.0
17.5°	535.4	326.4	187.0	0.0
15°	539.1	330.0	194.4	0.0
12.5°	546.4	333.7	194.4	0.0
10°	550.1	337.4	194.4	0.0
7.5°	557.4	337.4	194.4	0.0
5°	553.7	337.4	194.4	0.0
2.5°	553.7	337.4	194.4	0.0
0°	550.1	337.4	194.4	0.0

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