

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: P628191

Luminaire Tested: **IFLD-S-SA6C-727-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628191  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	35763.5 lumens	Max Intensity:	11657.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	111.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

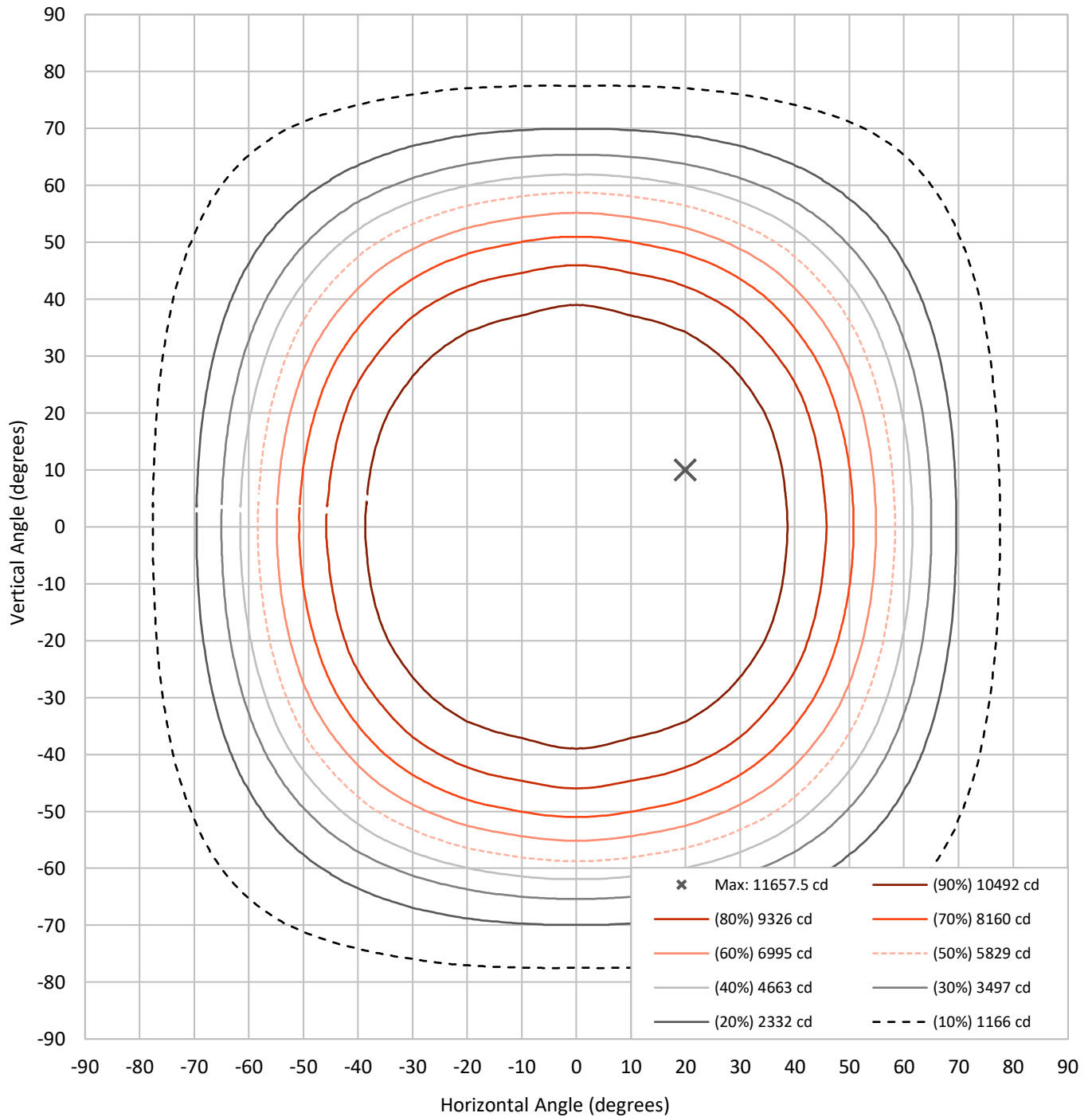
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21945.2 lumens	Field Lumens:	26308.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5  
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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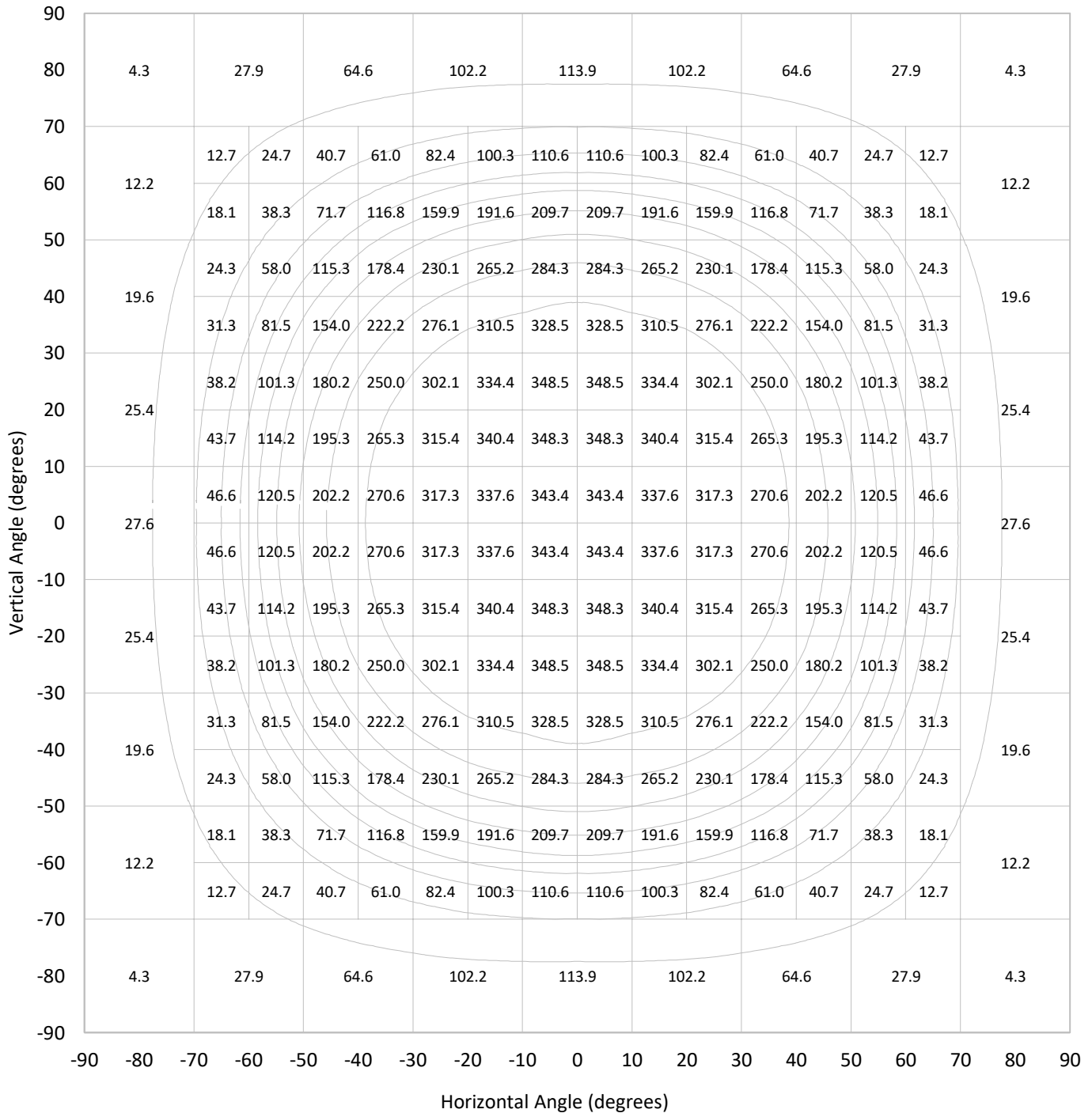
### Iso-Candela Plot





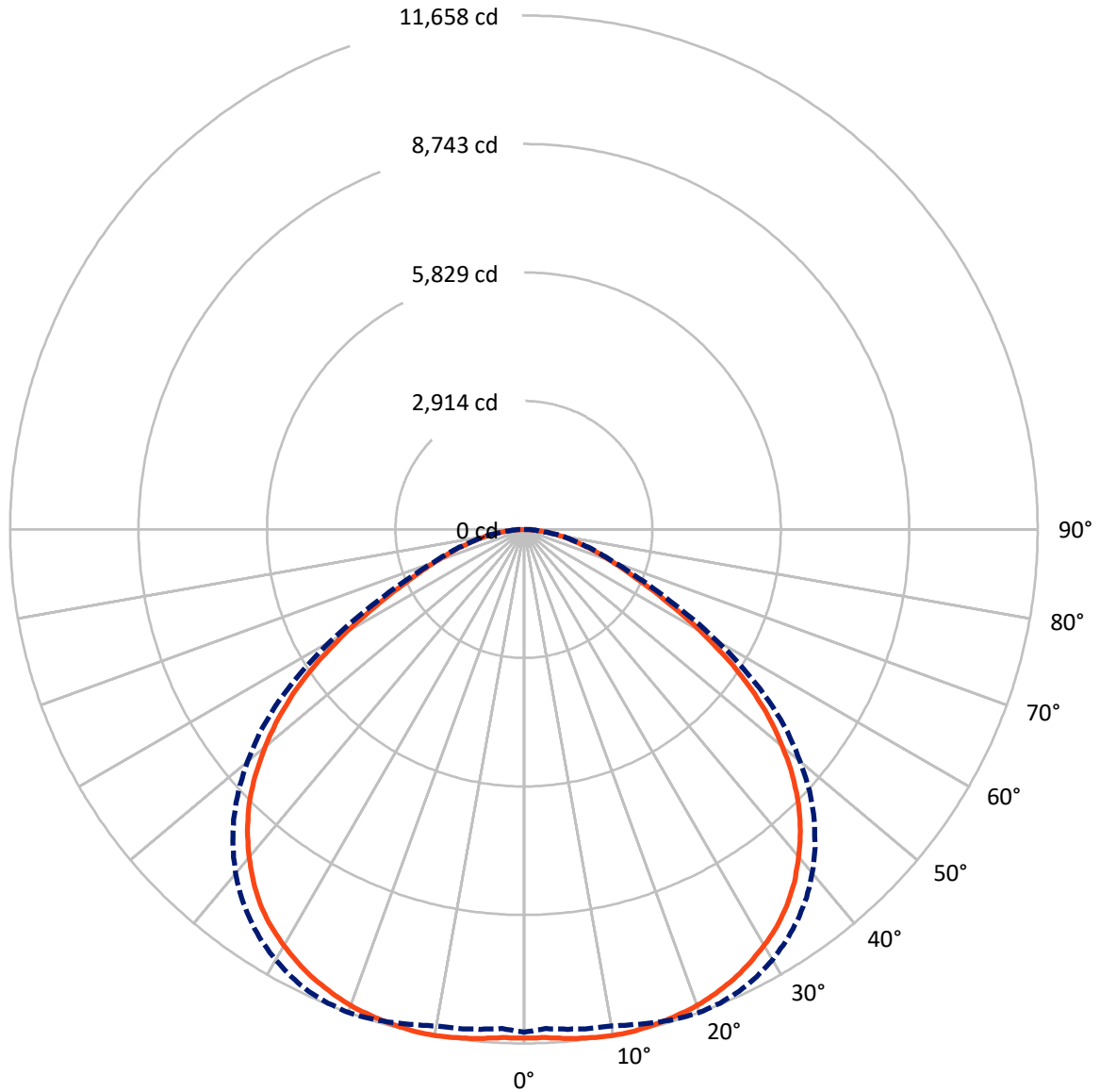
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### Lumen Table



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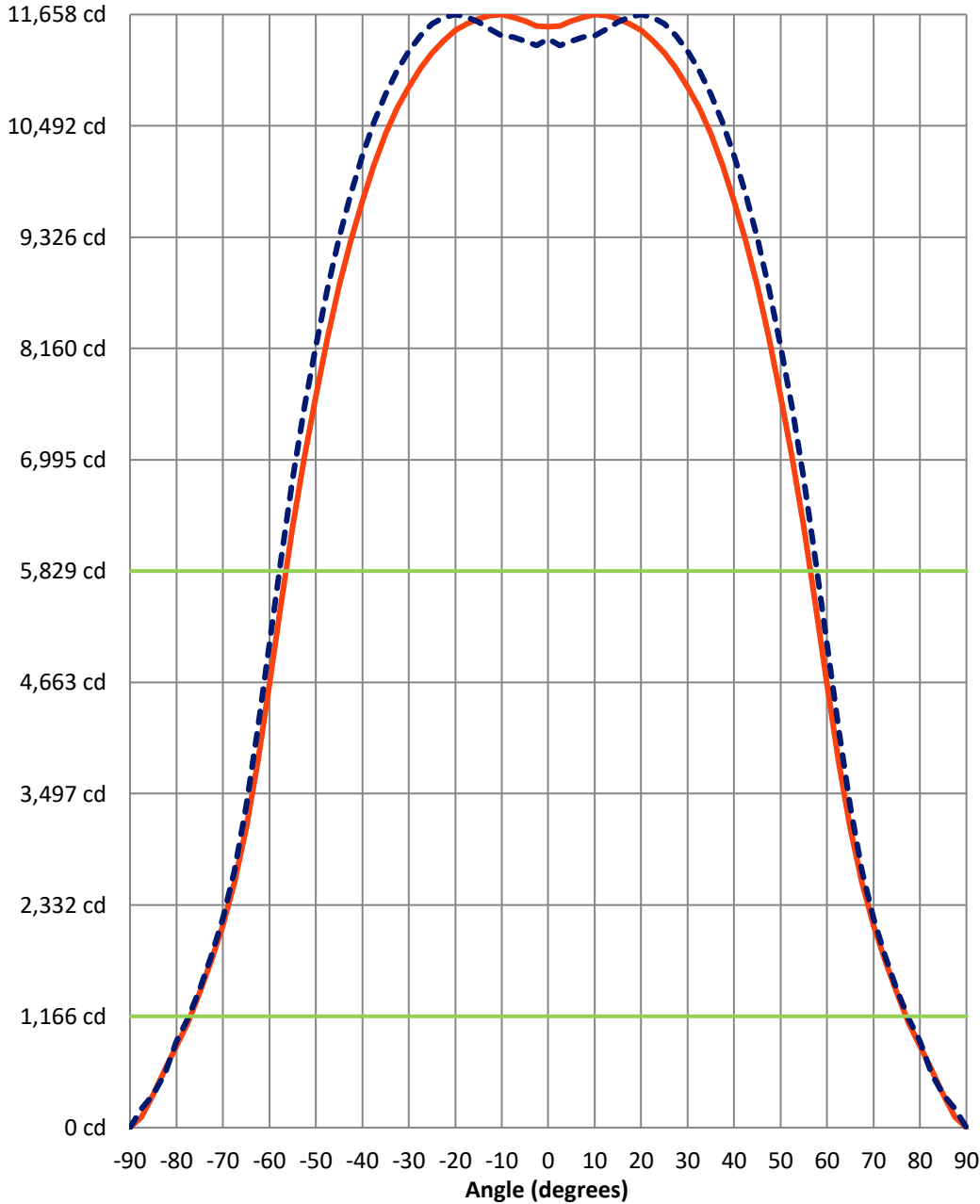
### Luminous Intensity Polar Plot



— 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: 21945.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 26308.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 9454.9  
 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°	94.1	101.6	105.4	109.1	112.9	116.6	120.4	116.6	112.9	112.9	109.1
85°	252.1	259.6	263.4	289.7	316.1	331.1	349.9	346.2	346.2	342.4	338.7
82.5°	504.2	526.8	545.6	572.0	587.0	609.6	624.6	613.4	605.8	590.8	579.5
80°	895.6	903.1	906.9	910.6	891.8	888.0	880.5	869.2	854.2	835.4	816.5
77.5°	1140.2	1147.7	1155.2	1147.7	1143.9	1140.2	1128.9	1117.6	1102.5	1087.5	1064.9
75°	1508.9	1508.9	1508.9	1497.6	1490.1	1478.8	1460.0	1441.2	1414.8	1384.7	1350.9
72.5°	1900.3	1896.5	1892.7	1870.2	1851.3	1828.8	1802.4	1779.8	1749.7	1715.9	1670.7
70°	2310.4	2317.9	2321.7	2291.6	2269.0	2238.9	2205.1	2163.7	2118.5	2069.6	2005.6
67.5°	2874.9	2867.3	2859.8	2818.4	2788.3	2746.9	2698.0	2637.8	2570.1	2494.8	2404.5
65°	3574.8	3586.0	3563.5	3522.1	3465.6	3397.9	3322.6	3236.1	3134.5	3021.6	2893.7
62.5°	4421.4	4440.2	4413.9	4361.2	4289.7	4199.4	4094.0	3969.9	3830.6	3672.6	3514.5
60°	5384.7	5380.9	5332.0	5260.5	5166.5	5053.6	4936.9	4801.5	4643.4	4459.0	4267.1
57.5°	6269.0	6261.5	6201.3	6129.8	6035.7	5915.3	5791.1	5648.1	5482.5	5286.9	5064.9
55°	7063.0	7055.4	6995.2	6920.0	6822.1	6701.7	6588.8	6453.4	6291.6	6084.6	5847.5
52.5°	7766.6	7770.4	7717.7	7634.9	7529.6	7412.9	7303.8	7168.3	7014.0	6807.1	6577.5
50°	8413.8	8410.1	8353.6	8278.4	8180.5	8067.6	7958.5	7823.1	7661.3	7461.8	7239.8
47.5°	9015.9	9008.4	8944.4	8861.6	8760.0	8662.2	8560.6	8440.2	8270.8	8071.4	7849.4
45°	9520.1	9505.1	9441.1	9362.1	9264.3	9177.7	9087.4	8997.1	8816.5	8632.1	8421.4
42.5°	9952.9	9949.1	9885.1	9806.1	9708.3	9633.0	9550.2	9437.3	9286.8	9117.5	8910.5
40°	10366.8	10336.7	10272.7	10197.4	10107.1	10043.2	9960.4	9847.5	9700.7	9535.2	9335.7
37.5°	10675.3	10679.1	10611.4	10528.6	10449.6	10389.4	10314.1	10208.7	10080.8	9919.0	9719.6
35°	10968.8	10950.0	10893.6	10822.1	10750.6	10682.9	10603.8	10513.5	10408.2	10257.7	10069.5
32.5°	11160.7	11187.1	11119.4	11044.1	11002.7	10950.0	10867.2	10773.2	10679.1	10528.6	10359.3
30°	11371.5	11348.9	11296.2	11232.2	11202.1	11168.3	11096.8	11006.5	10897.3	10761.9	10603.8
27.5°	11518.2	11506.9	11443.0	11382.8	11367.7	11337.6	11281.2	11202.1	11093.0	10961.3	10814.6
25°	11582.2	11589.7	11529.5	11495.6	11495.6	11476.8	11431.7	11363.9	11254.8	11134.4	10991.4
22.5°	11612.3	11604.8	11563.4	11555.9	11574.7	11559.6	11540.8	11480.6	11382.8	11284.9	11164.5
20°	11631.1	11578.4	11540.8	11570.9	11593.5	11589.7	11574.7	11537.0	11491.9	11409.1	11303.7
17.5°	11589.7	11555.9	11510.7	11555.9	11604.8	11608.5	11593.5	11570.9	11559.6	11506.9	11412.9
15°	11488.1	11461.8	11469.3	11514.5	11570.9	11589.7	11601.0	11627.3	11612.3	11570.9	11488.1
12.5°	11420.4	11386.5	11420.4	11465.5	11495.6	11506.9	11597.2	11646.2	11646.2	11608.5	11555.9
10°	11401.6	11333.8	11379.0	11420.4	11435.4	11503.2	11578.4	11631.1	11657.5	11627.3	11559.6
7.5°	11363.9	11318.8	11337.6	11356.4	11443.0	11491.9	11533.3	11589.7	11627.3	11623.6	11563.4
5°	11345.1	11288.7	11296.2	11375.2	11435.4	11469.3	11484.4	11533.3	11589.7	11601.0	11555.9
2.5°	11296.2	11269.9	11326.3	11333.8	11379.0	11405.3	11420.4	11465.5	11537.0	11563.4	11544.6
0°	11269.9	11232.2	11194.6	11224.7	11300.0	11356.4	11379.0	11446.7	11529.5	11555.9	11514.5



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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°	105.4	101.6	97.8	94.1	97.8	97.8	97.8	94.1	97.8	94.1	94.1
85°	327.4	312.3	301.0	286.0	270.9	259.6	244.6	229.5	225.8	222.0	214.5
82.5°	564.4	545.6	526.8	504.2	481.7	455.3	429.0	398.9	391.3	383.8	372.5
80°	794.0	767.6	741.3	715.0	692.4	666.0	635.9	602.1	579.5	560.7	538.1
77.5°	1034.8	997.2	959.5	914.4	888.0	861.7	831.6	797.7	763.9	733.8	699.9
75°	1309.5	1268.1	1230.5	1185.3	1136.4	1087.5	1038.6	993.4	944.5	899.3	854.2
72.5°	1614.3	1554.1	1493.9	1437.4	1377.2	1317.0	1253.0	1192.8	1132.6	1072.4	1008.5
70°	1934.1	1858.9	1783.6	1708.4	1629.3	1550.3	1475.1	1399.8	1324.5	1245.5	1174.0
67.5°	2310.4	2223.9	2126.0	2020.7	1904.0	1802.4	1704.6	1614.3	1524.0	1433.7	1343.4
65°	2780.8	2660.4	2528.7	2385.7	2250.2	2114.7	1971.8	1836.3	1730.9	1625.6	1524.0
62.5°	3360.3	3190.9	3006.6	2822.2	2656.6	2479.7	2314.2	2137.3	1971.8	1821.2	1697.1
60°	4052.6	3823.1	3597.3	3360.3	3130.7	2889.9	2679.2	2460.9	2254.0	2069.6	1889.0
57.5°	4816.5	4549.3	4278.4	3988.7	3676.3	3394.1	3108.2	2822.2	2577.6	2333.0	2129.8
55°	5591.7	5309.4	5004.7	4677.3	4334.9	3973.6	3586.0	3266.2	2931.3	2645.3	2381.9
52.5°	6329.2	6035.7	5719.6	5418.6	5008.4	4594.5	4169.3	3747.8	3356.5	2991.5	2671.7
50°	6987.7	6701.7	6396.9	6047.0	5666.9	5226.7	4752.5	4278.4	3815.6	3386.6	2987.7
47.5°	7589.8	7311.3	7006.5	6656.6	6310.4	5821.2	5343.3	4820.3	4304.8	3811.8	3345.2
45°	8154.2	7872.0	7555.9	7221.0	6822.1	6385.6	5892.7	5365.9	4812.7	4259.6	3721.5
42.5°	8665.9	8383.7	8063.9	7717.7	7322.6	6889.9	6412.0	5881.4	5324.5	4722.4	4131.7
40°	9113.7	8839.0	8530.5	8169.2	7800.5	7345.2	6874.8	6370.6	5794.9	5189.0	4538.1
37.5°	9505.1	9249.2	8944.4	8586.9	8195.6	7789.2	7303.8	6799.6	6280.3	5621.8	4955.7
35°	9851.3	9614.2	9301.9	8963.2	8579.4	8150.4	7695.1	7202.2	6641.5	6024.4	5377.2
32.5°	10152.3	9911.5	9625.5	9286.8	8914.3	8511.7	8045.1	7548.4	7017.8	6389.4	5685.7
30°	10408.2	10174.9	9903.9	9584.1	9226.6	8827.8	8372.4	7872.0	7330.1	6705.5	6009.3
27.5°	10630.2	10408.2	10144.8	9847.5	9505.1	9121.3	8662.2	8158.0	7604.8	7002.7	6306.6
25°	10822.1	10607.6	10363.0	10080.8	9742.1	9365.8	8933.1	8406.3	7853.2	7247.3	6558.7
22.5°	10995.2	10788.2	10543.6	10268.9	9960.4	9584.1	9147.6	8624.6	8063.9	7465.6	6788.3
20°	11149.5	10957.6	10716.7	10434.5	10126.0	9745.9	9313.2	8816.5	8252.0	7665.0	6995.2
17.5°	11273.6	11104.3	10863.5	10566.2	10257.7	9888.9	9467.4	9012.1	8413.8	7834.3	7168.3
15°	11360.2	11194.6	10976.4	10675.3	10374.3	10009.3	9587.9	9117.5	8560.6	7969.8	7311.3
12.5°	11420.4	11243.5	11040.3	10761.9	10460.9	10099.6	9689.5	9226.6	8684.8	8090.2	7435.5
10°	11435.4	11273.6	11070.4	10822.1	10528.6	10178.6	9776.0	9316.9	8786.4	8184.3	7537.1
7.5°	11443.0	11288.7	11104.3	10867.2	10577.5	10238.8	9840.0	9388.4	8861.6	8263.3	7612.3
5°	11439.2	11292.5	11126.9	10897.3	10607.6	10272.7	9881.4	9437.3	8914.3	8316.0	7668.8
2.5°	11427.9	11296.2	11141.9	10919.9	10641.5	10310.3	9922.8	9493.8	8970.7	8361.2	7713.9
0°	11458.0	11345.1	11149.5	10912.4	10649.0	10310.3	9919.0	9501.3	8978.3	8357.4	7710.2





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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°	94.1	90.3	90.3	86.5	82.8	79.0	71.5	67.7	60.2	48.9	37.6
85°	203.2	191.9	180.6	173.1	165.6	158.0	146.8	135.5	120.4	97.8	75.3
82.5°	357.5	334.9	312.3	286.0	263.4	240.8	222.0	203.2	180.6	146.8	112.9
80°	511.8	477.9	444.0	406.4	372.5	334.9	301.0	270.9	240.8	195.7	150.5
77.5°	666.0	620.9	572.0	526.8	477.9	429.0	380.1	338.7	293.5	240.8	188.1
75°	809.0	756.3	711.2	647.2	587.0	523.0	459.1	402.6	346.2	282.2	225.8
72.5°	952.0	884.3	820.3	760.1	692.4	613.4	541.9	470.4	398.9	323.6	255.9
70°	1095.0	1012.2	933.2	861.7	786.4	707.4	620.9	538.1	451.5	361.2	282.2
67.5°	1241.8	1147.7	1057.4	967.1	880.5	790.2	699.9	605.8	504.2	398.9	312.3
65°	1403.6	1286.9	1177.8	1076.2	974.6	876.8	775.2	673.6	560.7	440.3	338.7
62.5°	1565.4	1437.4	1309.5	1181.5	1068.7	959.5	850.4	737.5	613.4	485.4	365.0
60°	1738.5	1591.7	1445.0	1302.0	1162.7	1042.3	921.9	801.5	669.8	526.8	391.3
57.5°	1930.4	1753.5	1587.9	1426.1	1268.1	1125.1	993.4	865.5	718.7	568.2	421.4
55°	2148.6	1930.4	1734.7	1554.1	1381.0	1207.9	1064.9	933.2	775.2	609.6	455.3
52.5°	2378.2	2126.0	1889.0	1685.8	1501.4	1305.7	1132.6	985.9	831.6	651.0	485.4
50°	2645.3	2325.5	2062.1	1813.7	1606.8	1403.6	1204.1	1046.1	888.0	699.9	515.5
47.5°	2920.0	2566.3	2235.2	1964.2	1719.6	1497.6	1286.9	1098.8	940.7	745.1	545.6
45°	3239.9	2795.8	2430.8	2111.0	1828.8	1595.5	1369.7	1155.2	985.9	790.2	575.7
42.5°	3548.4	3066.8	2634.0	2272.8	1952.9	1689.5	1445.0	1215.4	1031.0	835.4	602.1
40°	3913.4	3337.7	2829.7	2427.1	2077.1	1779.8	1520.2	1279.4	1072.4	876.8	628.4
37.5°	4263.4	3612.4	3066.8	2596.4	2197.5	1870.2	1595.5	1339.6	1110.1	918.1	662.3
35°	4609.5	3917.2	3292.5	2754.4	2321.7	1971.8	1670.7	1396.0	1147.7	952.0	692.4
32.5°	4940.7	4203.2	3522.1	2931.3	2457.2	2065.8	1738.5	1448.7	1185.3	982.1	722.5
30°	5249.2	4474.1	3747.8	3111.9	2581.3	2152.4	1802.4	1501.4	1230.5	1008.5	752.6
27.5°	5531.5	4737.5	3973.6	3281.2	2698.0	2231.4	1870.2	1550.3	1268.1	1034.8	778.9
25°	5787.3	4974.5	4180.6	3435.5	2803.4	2317.9	1934.1	1599.2	1302.0	1057.4	801.5
22.5°	6028.2	5192.8	4368.7	3589.8	2931.3	2404.5	1994.3	1644.4	1335.8	1080.0	824.1
20°	6238.9	5392.2	4549.3	3744.1	3044.2	2483.5	2047.0	1685.8	1365.9	1095.0	846.7
17.5°	6408.2	5569.1	4711.1	3879.5	3142.0	2551.2	2092.2	1723.4	1392.3	1113.8	861.7
15°	6558.7	5719.6	4846.6	3996.2	3228.6	2607.7	2133.6	1753.5	1414.8	1125.1	880.5
12.5°	6686.7	5847.5	4963.3	4097.8	3303.8	2656.6	2167.4	1776.1	1433.7	1136.4	891.8
10°	6792.0	5949.1	5061.1	4176.8	3364.0	2694.2	2193.8	1798.7	1448.7	1147.7	903.1
7.5°	6871.0	6024.4	5132.6	4244.5	3412.9	2720.6	2216.3	1813.7	1463.8	1155.2	921.9
5°	6931.3	6088.4	5189.0	4289.7	3450.6	2758.2	2242.7	1832.5	1478.8	1162.7	921.9
2.5°	6976.4	6141.0	5234.2	4327.3	3480.7	2750.7	2242.7	1828.8	1478.8	1162.7	918.1
0°	6968.9	6144.8	5230.4	4327.3	3480.7	2743.2	2242.7	1825.0	1478.8	1162.7	918.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	26.3	18.8	7.5	0.0
85°	56.4	37.6	18.8	0.0
82.5°	82.8	52.7	26.3	0.0
80°	109.1	71.5	33.9	0.0
77.5°	139.2	90.3	45.2	0.0
75°	165.6	105.4	52.7	0.0
72.5°	191.9	124.2	60.2	0.0
70°	214.5	139.2	67.7	0.0
67.5°	237.1	158.0	79.0	0.0
65°	255.9	173.1	86.5	0.0
62.5°	270.9	191.9	94.1	0.0
60°	289.7	207.0	101.6	0.0
57.5°	304.8	218.2	109.1	0.0
55°	319.8	225.8	116.6	0.0
52.5°	334.9	237.1	124.2	0.0
50°	349.9	248.4	131.7	0.0
47.5°	365.0	255.9	135.5	0.0
45°	387.6	267.2	143.0	0.0
42.5°	406.4	274.7	150.5	0.0
40°	425.2	282.2	154.3	0.0
37.5°	444.0	289.7	161.8	0.0
35°	462.8	297.3	165.6	0.0
32.5°	477.9	304.8	169.3	0.0
30°	492.9	312.3	173.1	0.0
27.5°	508.0	316.1	176.9	0.0
25°	519.3	323.6	180.6	0.0
22.5°	530.6	327.4	184.4	0.0
20°	538.1	331.1	188.1	0.0
17.5°	549.4	334.9	191.9	0.0
15°	553.1	338.7	199.4	0.0
12.5°	560.7	342.4	199.4	0.0
10°	564.4	346.2	199.4	0.0
7.5°	572.0	346.2	199.4	0.0
5°	568.2	346.2	199.4	0.0
2.5°	568.2	346.2	199.4	0.0
0°	564.4	346.2	199.4	0.0

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