

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: P628248

Luminaire Tested: **IFLD-S-SA6B-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628248  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33882.8 lumens	Max Intensity:	11044.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	138.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

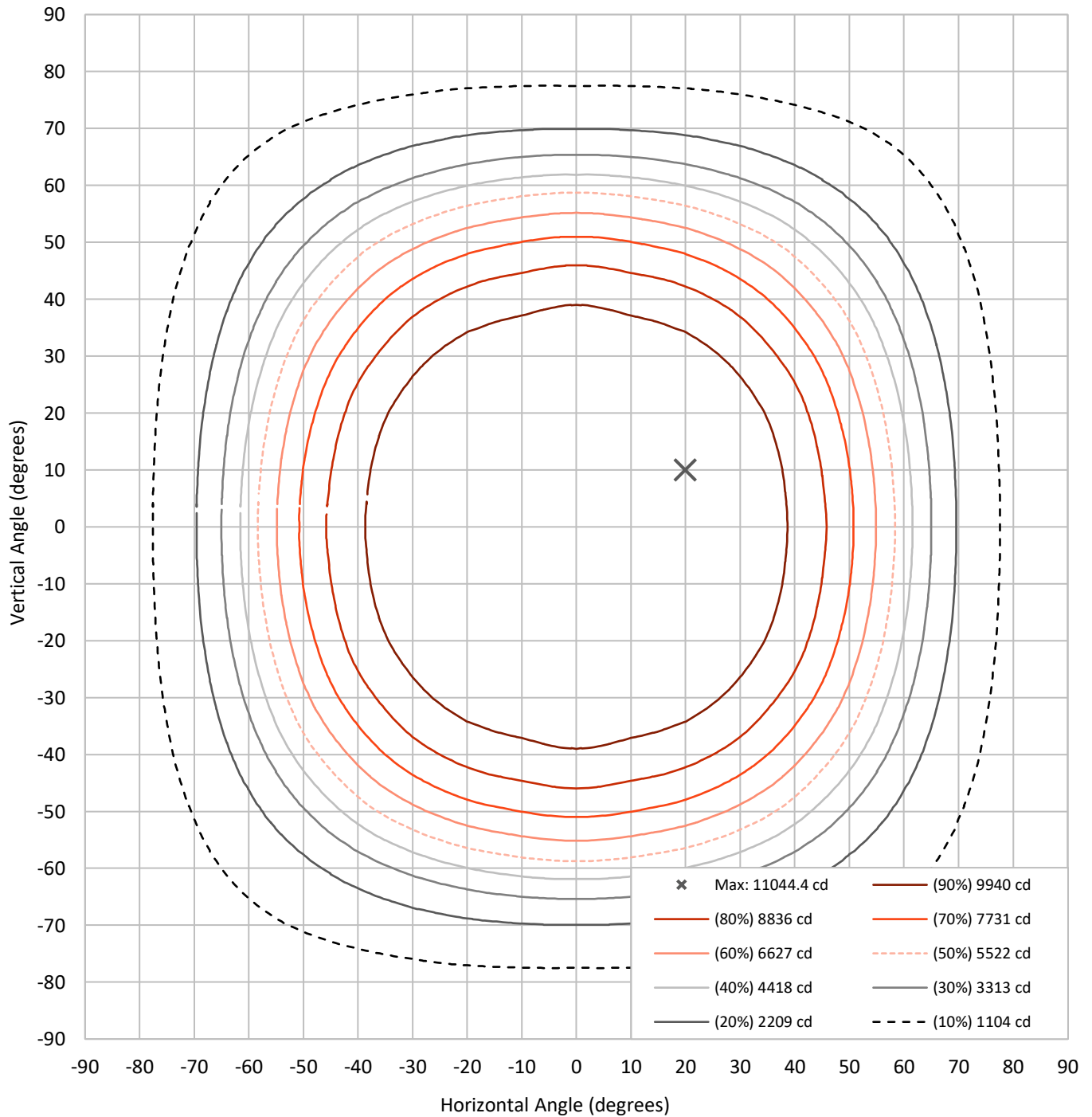
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20791.2 lumens	Field Lumens:	24925.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9  
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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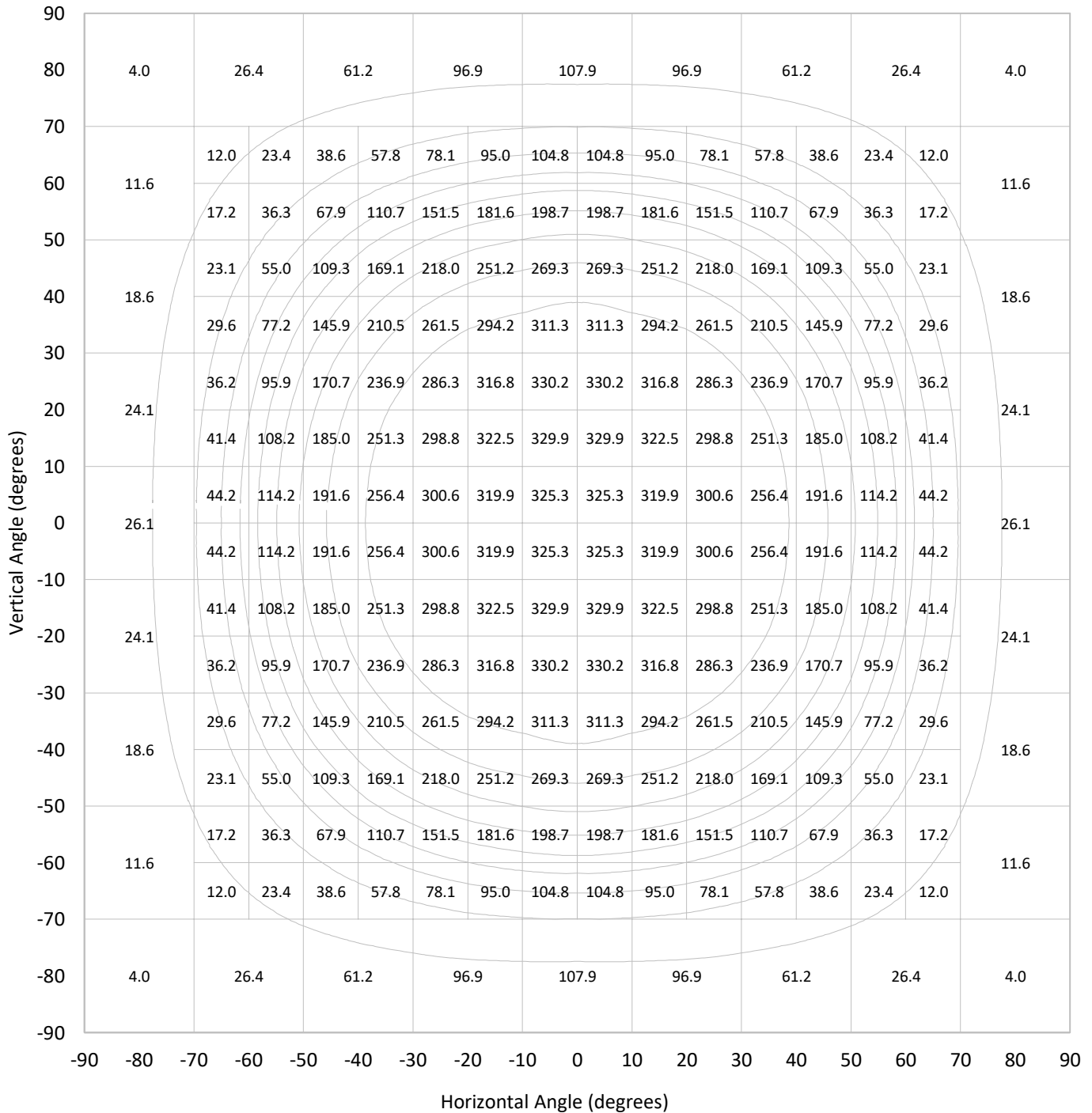
### Iso-Candela Plot





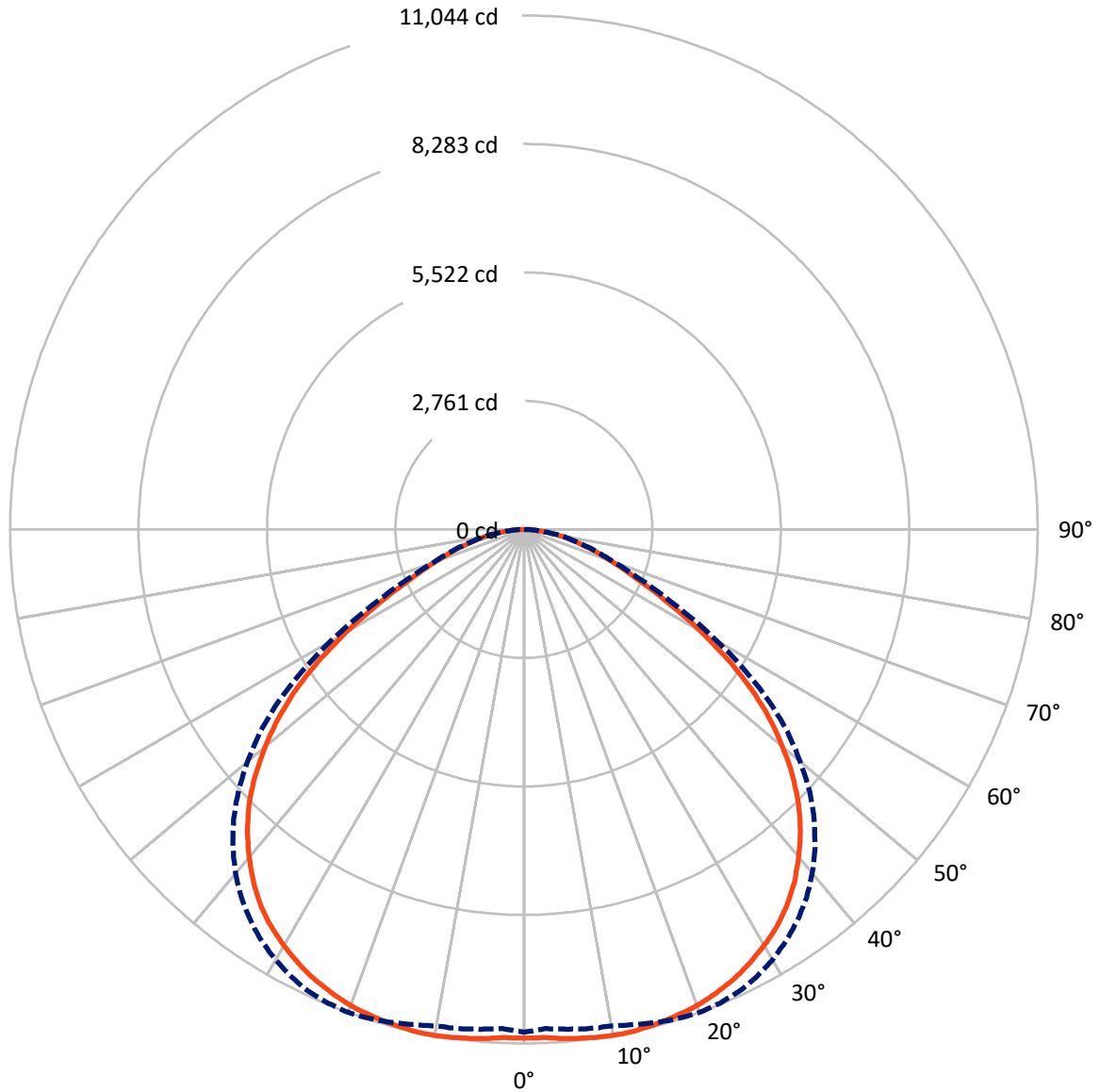
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### Lumen Table



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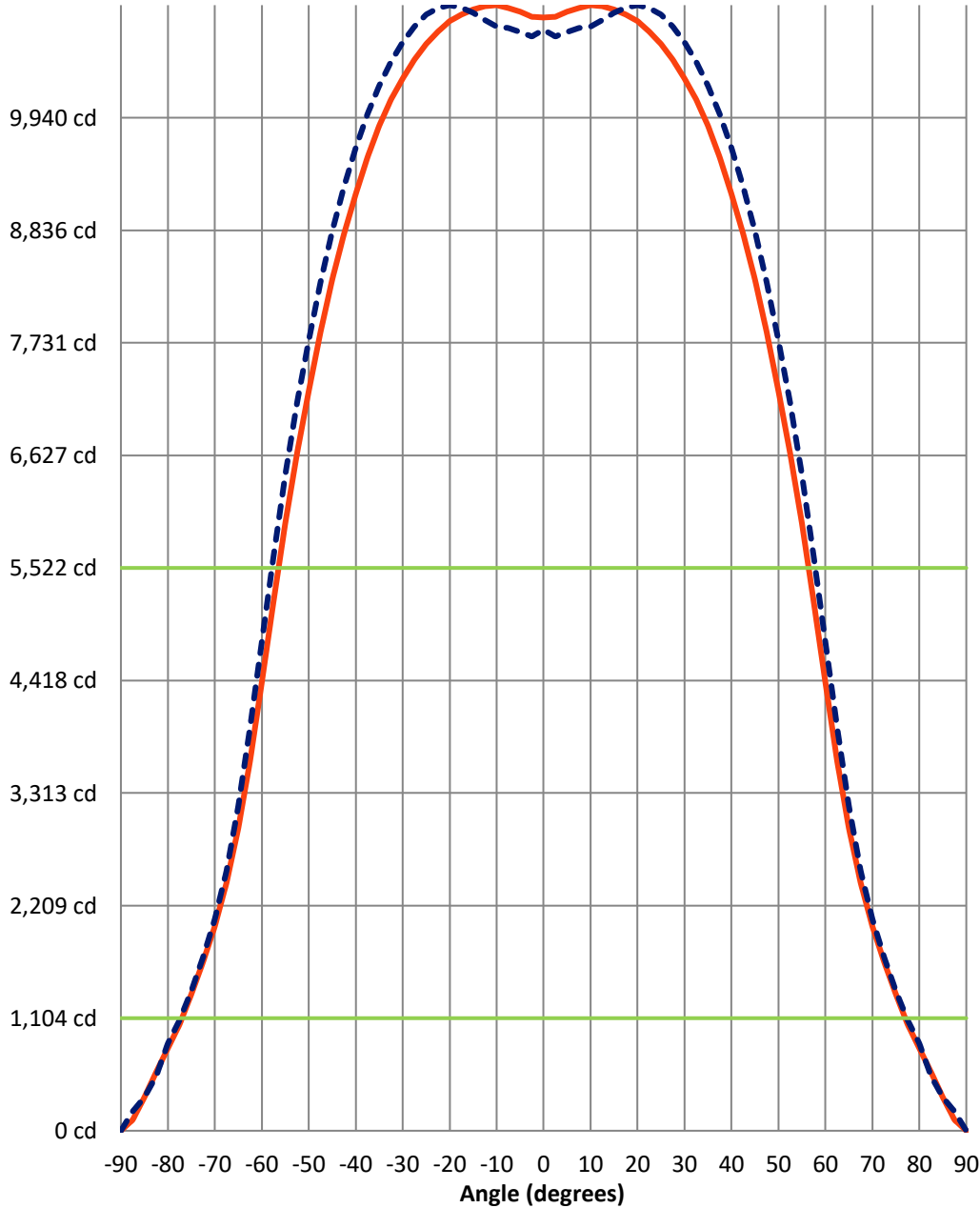
### Luminous Intensity Polar Plot



— 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: 20791.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 24925.1  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 8957.7  
 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°	89.1	96.3	99.8	103.4	107.0	110.5	114.1	110.5	107.0	107.0	103.4
85°	238.9	246.0	249.6	274.5	299.5	313.7	331.5	328.0	328.0	324.4	320.9
82.5°	477.7	499.1	516.9	541.9	556.1	577.5	591.8	581.1	574.0	559.7	549.0
80°	848.5	855.6	859.2	862.7	844.9	841.3	834.2	823.5	809.3	791.4	773.6
77.5°	1080.2	1087.3	1094.5	1087.3	1083.8	1080.2	1069.5	1058.8	1044.5	1030.3	1008.9
75°	1429.6	1429.6	1429.6	1418.9	1411.7	1401.1	1383.2	1365.4	1340.4	1311.9	1279.8
72.5°	1800.3	1796.8	1793.2	1771.8	1754.0	1732.6	1707.6	1686.3	1657.7	1625.6	1582.9
70°	2188.9	2196.0	2199.6	2171.1	2149.7	2121.2	2089.1	2049.9	2007.1	1960.8	1900.2
67.5°	2723.7	2716.5	2709.4	2670.2	2641.7	2602.5	2556.1	2499.1	2434.9	2363.6	2278.0
65°	3386.8	3397.5	3376.1	3336.9	3283.4	3219.2	3147.9	3065.9	2969.7	2862.7	2741.5
62.5°	4188.9	4206.7	4181.8	4131.9	4064.1	3978.6	3878.7	3761.1	3629.2	3479.5	3329.7
60°	5101.5	5098.0	5051.6	4983.9	4894.8	4787.8	4677.3	4549.0	4399.2	4224.5	4042.7
57.5°	5939.3	5932.2	5875.1	5807.4	5718.3	5604.2	5486.6	5351.1	5194.2	5008.8	4798.5
55°	6691.5	6684.4	6627.4	6556.1	6463.4	6349.3	6242.3	6114.0	5960.7	5764.6	5540.0
52.5°	7358.2	7361.8	7311.8	7233.4	7133.6	7023.1	6919.7	6791.4	6645.2	6449.1	6231.6
50°	7971.4	7967.8	7914.3	7843.0	7750.3	7643.4	7540.0	7411.7	7258.4	7069.4	6859.1
47.5°	8541.8	8534.6	8474.0	8395.6	8299.4	8206.7	8110.4	7996.3	7835.9	7647.0	7436.6
45°	9019.5	9005.2	8944.6	8869.8	8777.1	8695.1	8609.5	8523.9	8352.8	8178.1	7978.5
42.5°	9429.5	9425.9	9365.3	9290.4	9197.7	9126.4	9048.0	8941.1	8798.5	8638.0	8442.0
40°	9821.6	9793.1	9732.5	9661.2	9575.6	9515.0	9436.6	9329.6	9190.6	9033.7	8844.8
37.5°	10113.9	10117.5	10053.3	9974.9	9900.0	9843.0	9771.7	9671.9	9550.7	9397.4	9208.4
35°	10392.0	10374.2	10320.7	10253.0	10185.2	10121.1	10046.2	9960.6	9860.8	9718.2	9540.0
32.5°	10573.8	10598.8	10534.6	10463.3	10424.1	10374.2	10295.8	10206.6	10117.5	9974.9	9814.5
30°	10773.5	10752.1	10702.2	10641.6	10613.0	10581.0	10513.2	10427.7	10324.3	10195.9	10046.2
27.5°	10912.5	10901.8	10841.2	10784.2	10769.9	10741.4	10687.9	10613.0	10509.7	10384.9	10245.9
25°	10973.1	10980.2	10923.2	10891.1	10891.1	10873.3	10830.5	10766.3	10663.0	10548.9	10413.4
22.5°	11001.6	10994.5	10955.3	10948.2	10966.0	10951.7	10933.9	10876.9	10784.2	10691.5	10577.4
20°	11019.5	10969.5	10933.9	10962.4	10983.8	10980.2	10966.0	10930.3	10887.6	10809.1	10709.3
17.5°	10980.2	10948.2	10905.4	10948.2	10994.5	10998.1	10983.8	10962.4	10951.7	10901.8	10812.7
15°	10884.0	10859.0	10866.2	10908.9	10962.4	10980.2	10990.9	11015.9	11001.6	10962.4	10884.0
12.5°	10819.8	10787.7	10819.8	10862.6	10891.1	10901.8	10987.4	11033.7	11033.7	10998.1	10948.2
10°	10802.0	10737.8	10780.6	10819.8	10834.1	10898.2	10969.5	11019.5	11044.4	11015.9	10951.7
7.5°	10766.3	10723.6	10741.4	10759.2	10841.2	10887.6	10926.8	10980.2	11015.9	11012.3	10955.3
5°	10748.5	10695.0	10702.2	10777.0	10834.1	10866.2	10880.4	10926.8	10980.2	10990.9	10948.2
2.5°	10702.2	10677.2	10730.7	10737.8	10780.6	10805.6	10819.8	10862.6	10930.3	10955.3	10937.5
0°	10677.2	10641.6	10605.9	10634.4	10705.7	10759.2	10780.6	10844.8	10923.2	10948.2	10908.9



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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°	99.8	96.3	92.7	89.1	92.7	92.7	92.7	89.1	92.7	89.1	89.1
85°	310.2	295.9	285.2	270.9	256.7	246.0	231.7	217.5	213.9	210.3	203.2
82.5°	534.8	516.9	499.1	477.7	456.3	431.4	406.4	377.9	370.8	363.6	352.9
80°	752.2	727.3	702.3	677.4	656.0	631.0	602.5	570.4	549.0	531.2	509.8
77.5°	980.4	944.7	909.1	866.3	841.3	816.4	787.9	755.8	723.7	695.2	663.1
75°	1240.6	1201.4	1165.8	1123.0	1076.6	1030.3	983.9	941.2	894.8	852.0	809.3
72.5°	1529.4	1472.4	1415.3	1361.8	1304.8	1247.8	1187.1	1130.1	1073.1	1016.0	955.4
70°	1832.4	1761.1	1689.8	1618.5	1543.7	1468.8	1397.5	1326.2	1254.9	1180.0	1112.3
67.5°	2188.9	2106.9	2014.2	1914.4	1803.9	1707.6	1615.0	1529.4	1443.8	1358.3	1272.7
65°	2634.5	2520.5	2395.7	2260.2	2131.9	2003.5	1868.1	1739.7	1639.9	1540.1	1443.8
62.5°	3183.6	3023.1	2848.4	2673.8	2516.9	2349.3	2192.5	2024.9	1868.1	1725.5	1607.8
60°	3839.5	3622.1	3408.2	3183.6	2966.1	2737.9	2538.3	2331.5	2135.4	1960.8	1789.6
57.5°	4563.2	4310.1	4053.4	3778.9	3483.0	3215.6	2944.7	2673.8	2442.0	2210.3	2017.8
55°	5297.6	5030.2	4741.5	4431.3	4106.9	3764.7	3397.5	3094.4	2777.1	2506.2	2256.7
52.5°	5996.4	5718.3	5418.8	5133.6	4745.0	4352.9	3950.0	3550.8	3180.0	2834.2	2531.2
50°	6620.2	6349.3	6060.5	5729.0	5368.9	4951.8	4502.6	4053.4	3614.9	3208.5	2830.6
47.5°	7190.6	6926.8	6638.1	6306.5	5978.5	5515.1	5062.3	4566.8	4078.4	3611.4	3169.3
45°	7725.4	7458.0	7158.5	6841.3	6463.4	6049.8	5582.8	5083.7	4559.7	4035.6	3525.8
42.5°	8210.2	7942.9	7639.8	7311.8	6937.5	6527.5	6074.8	5572.1	5044.5	4474.1	3914.4
40°	8634.5	8374.2	8081.9	7739.6	7390.3	6958.9	6513.3	6035.6	5490.1	4916.2	4299.4
37.5°	9005.2	8762.8	8474.0	8135.4	7764.6	7379.6	6919.7	6442.0	5950.0	5326.1	4695.1
35°	9333.2	9108.6	8812.7	8491.9	8128.2	7721.8	7290.5	6823.4	6292.2	5707.6	5094.4
32.5°	9618.4	9390.2	9119.3	8798.5	8445.5	8064.1	7622.0	7151.4	6648.8	6053.4	5386.7
30°	9860.8	9639.8	9383.1	9080.1	8741.4	8363.5	7932.2	7458.0	6944.6	6352.9	5693.3
27.5°	10071.2	9860.8	9611.3	9329.6	9005.2	8641.6	8206.7	7729.0	7204.9	6634.5	5975.0
25°	10253.0	10049.8	9818.0	9550.7	9229.8	8873.3	8463.3	7964.2	7440.2	6866.2	6213.8
22.5°	10417.0	10220.9	9989.2	9728.9	9436.6	9080.1	8666.5	8171.0	7639.8	7073.0	6431.3
20°	10563.1	10381.3	10153.2	9885.8	9593.5	9233.4	8823.4	8352.8	7818.1	7261.9	6627.4
17.5°	10680.8	10520.4	10292.2	10010.6	9718.2	9368.9	8969.6	8538.2	7971.4	7422.4	6791.4
15°	10762.8	10605.9	10399.1	10113.9	9828.7	9482.9	9083.7	8638.0	8110.4	7550.7	6926.8
12.5°	10819.8	10652.3	10459.8	10195.9	9910.7	9568.5	9179.9	8741.4	8228.1	7664.8	7044.5
10°	10834.1	10680.8	10488.3	10253.0	9974.9	9643.4	9261.9	8827.0	8324.3	7753.9	7140.7
7.5°	10841.2	10695.0	10520.4	10295.8	10021.3	9700.4	9322.5	8894.7	8395.6	7828.8	7212.0
5°	10837.6	10698.6	10541.7	10324.3	10049.8	9732.5	9361.7	8941.1	8445.5	7878.7	7265.5
2.5°	10826.9	10702.2	10556.0	10345.7	10081.9	9768.1	9400.9	8994.5	8499.0	7921.5	7308.3
0°	10855.5	10748.5	10563.1	10338.5	10089.0	9768.1	9397.4	9001.7	8506.1	7917.9	7304.7





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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°	89.1	85.6	85.6	82.0	78.4	74.9	67.7	64.2	57.0	46.3	35.7
85°	192.5	181.8	171.1	164.0	156.9	149.7	139.0	128.3	114.1	92.7	71.3
82.5°	338.7	317.3	295.9	270.9	249.6	228.2	210.3	192.5	171.1	139.0	107.0
80°	484.8	452.8	420.7	385.0	352.9	317.3	285.2	256.7	228.2	185.4	142.6
77.5°	631.0	588.2	541.9	499.1	452.8	406.4	360.1	320.9	278.1	228.2	178.3
75°	766.5	716.6	673.8	613.2	556.1	495.5	434.9	381.5	328.0	267.4	213.9
72.5°	901.9	837.8	777.2	720.1	656.0	581.1	513.4	445.6	377.9	306.6	242.4
70°	1037.4	959.0	884.1	816.4	745.1	670.2	588.2	509.8	427.8	342.2	267.4
67.5°	1176.5	1087.3	1001.8	916.2	834.2	748.7	663.1	574.0	477.7	377.9	295.9
65°	1329.8	1219.2	1115.8	1019.6	923.3	830.6	734.4	638.1	531.2	417.1	320.9
62.5°	1483.0	1361.8	1240.6	1119.4	1012.5	909.1	805.7	698.7	581.1	459.9	345.8
60°	1647.0	1508.0	1369.0	1233.5	1101.6	987.5	873.4	759.3	634.6	499.1	370.8
57.5°	1828.9	1661.3	1504.4	1351.1	1201.4	1065.9	941.2	820.0	680.9	538.3	399.3
55°	2035.6	1828.9	1643.5	1472.4	1308.4	1144.4	1008.9	884.1	734.4	577.5	431.4
52.5°	2253.1	2014.2	1789.6	1597.1	1422.4	1237.1	1073.1	934.0	787.9	616.7	459.9
50°	2506.2	2203.2	1953.6	1718.3	1522.3	1329.8	1140.8	991.1	841.3	663.1	488.4
47.5°	2766.5	2431.3	2117.6	1860.9	1629.2	1418.9	1219.2	1041.0	891.3	705.9	516.9
45°	3069.5	2648.8	2303.0	2000.0	1732.6	1511.6	1297.7	1094.5	934.0	748.7	545.4
42.5°	3361.8	2905.5	2495.5	2153.3	1850.2	1600.7	1369.0	1151.5	976.8	791.4	570.4
40°	3707.6	3162.2	2680.9	2299.4	1967.9	1686.3	1440.3	1212.1	1016.0	830.6	595.4
37.5°	4039.2	3422.4	2905.5	2459.9	2082.0	1771.8	1511.6	1269.1	1051.7	869.9	627.4
35°	4367.1	3711.2	3119.4	2609.6	2199.6	1868.1	1582.9	1322.6	1087.3	901.9	656.0
32.5°	4680.9	3982.1	3336.9	2777.1	2328.0	1957.2	1647.0	1372.5	1123.0	930.5	684.5
30°	4973.2	4238.8	3550.8	2948.3	2445.6	2039.2	1707.6	1422.4	1165.8	955.4	713.0
27.5°	5240.6	4488.4	3764.7	3108.7	2556.1	2114.1	1771.8	1468.8	1201.4	980.4	738.0
25°	5483.0	4712.9	3960.7	3254.9	2655.9	2196.0	1832.4	1515.1	1233.5	1001.8	759.3
22.5°	5711.2	4919.7	4139.0	3401.0	2777.1	2278.0	1889.5	1557.9	1265.6	1023.2	780.7
20°	5910.8	5108.7	4310.1	3547.2	2884.1	2352.9	1939.4	1597.1	1294.1	1037.4	802.1
17.5°	6071.2	5276.2	4463.4	3675.5	2976.8	2417.1	1982.1	1632.8	1319.1	1055.2	816.4
15°	6213.8	5418.8	4591.7	3786.0	3058.8	2470.6	2021.4	1661.3	1340.4	1065.9	834.2
12.5°	6335.0	5540.0	4702.3	3882.3	3130.1	2516.9	2053.4	1682.7	1358.3	1076.6	844.9
10°	6434.9	5636.3	4794.9	3957.2	3187.1	2552.5	2078.4	1704.1	1372.5	1087.3	855.6
7.5°	6509.7	5707.6	4862.7	4021.3	3233.5	2577.5	2099.8	1718.3	1386.8	1094.5	873.4
5°	6566.8	5768.2	4916.2	4064.1	3269.1	2613.2	2124.7	1736.2	1401.1	1101.6	873.4
2.5°	6609.5	5818.1	4958.9	4099.8	3297.6	2606.0	2124.7	1732.6	1401.1	1101.6	869.9
0°	6602.4	5821.7	4955.4	4099.8	3297.6	2598.9	2124.7	1729.0	1401.1	1101.6	869.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.0	17.8	7.1	0.0
85°	53.5	35.7	17.8	0.0
82.5°	78.4	49.9	25.0	0.0
80°	103.4	67.7	32.1	0.0
77.5°	131.9	85.6	42.8	0.0
75°	156.9	99.8	49.9	0.0
72.5°	181.8	117.6	57.0	0.0
70°	203.2	131.9	64.2	0.0
67.5°	224.6	149.7	74.9	0.0
65°	242.4	164.0	82.0	0.0
62.5°	256.7	181.8	89.1	0.0
60°	274.5	196.1	96.3	0.0
57.5°	288.8	206.8	103.4	0.0
55°	303.0	213.9	110.5	0.0
52.5°	317.3	224.6	117.6	0.0
50°	331.5	235.3	124.8	0.0
47.5°	345.8	242.4	128.3	0.0
45°	367.2	253.1	135.5	0.0
42.5°	385.0	260.2	142.6	0.0
40°	402.8	267.4	146.2	0.0
37.5°	420.7	274.5	153.3	0.0
35°	438.5	281.6	156.9	0.0
32.5°	452.8	288.8	160.4	0.0
30°	467.0	295.9	164.0	0.0
27.5°	481.3	299.5	167.6	0.0
25°	492.0	306.6	171.1	0.0
22.5°	502.7	310.2	174.7	0.0
20°	509.8	313.7	178.3	0.0
17.5°	520.5	317.3	181.8	0.0
15°	524.1	320.9	188.9	0.0
12.5°	531.2	324.4	188.9	0.0
10°	534.8	328.0	188.9	0.0
7.5°	541.9	328.0	188.9	0.0
5°	538.3	328.0	188.9	0.0
2.5°	538.3	328.0	188.9	0.0
0°	534.8	328.0	188.9	0.0

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