

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: P628192

Luminaire Tested: **IFLD-S-SA6D-727-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628192  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-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**

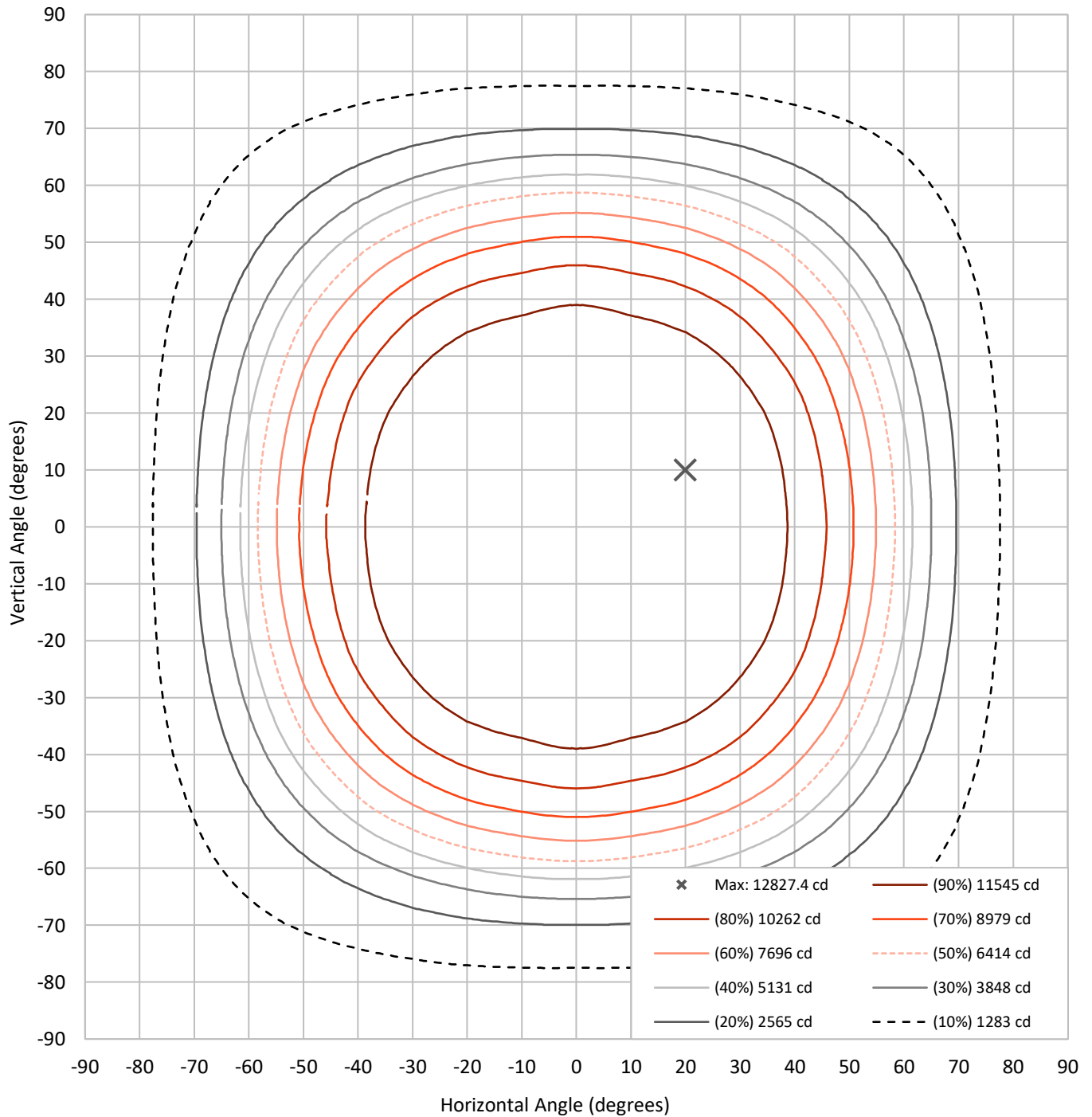
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	39352.6 lumens	Max Intensity:	12827.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	106.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	24147.6 lumens	Field Lumens:	28948.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 368.2  
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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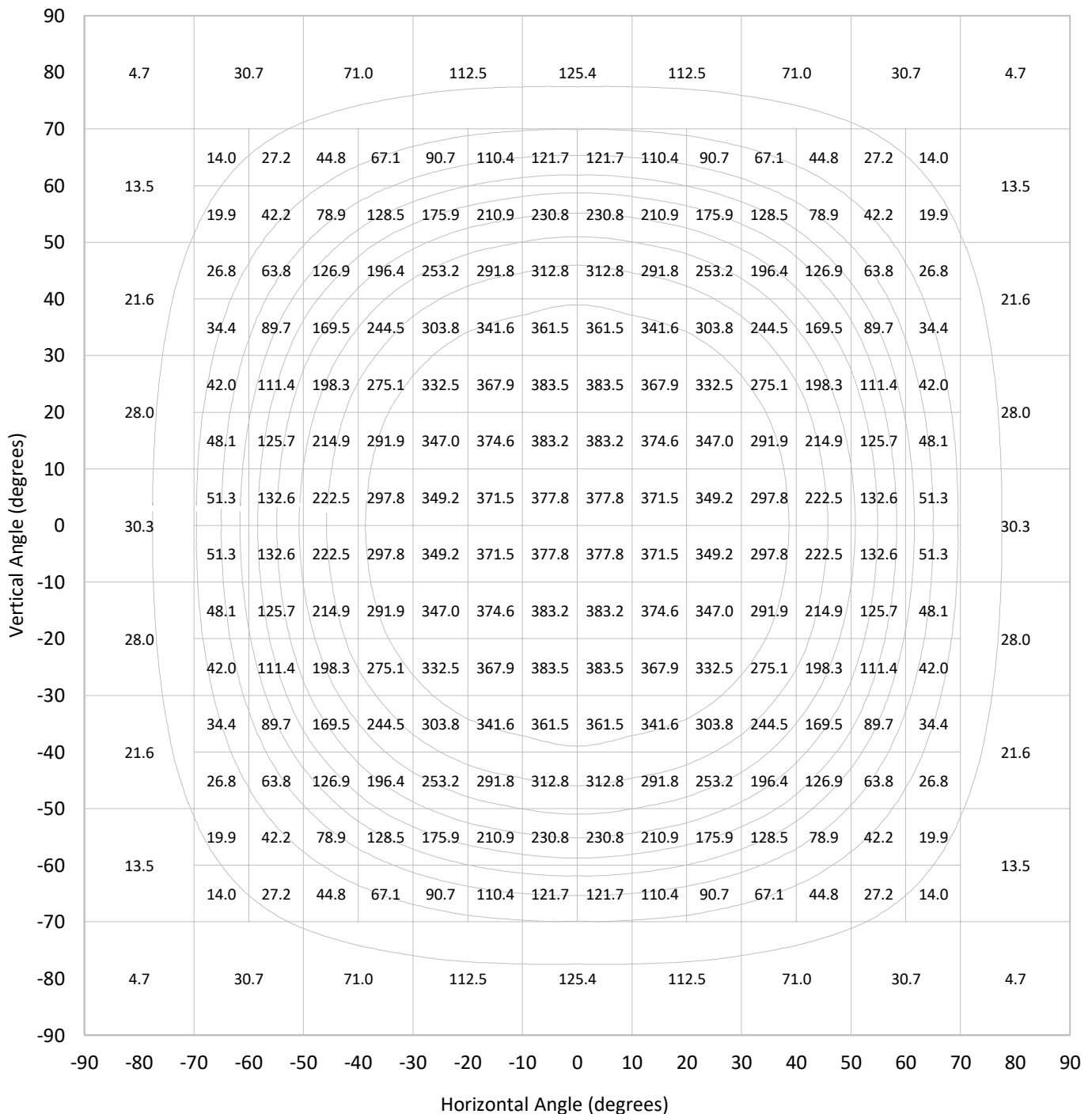
### Iso-Candela Plot





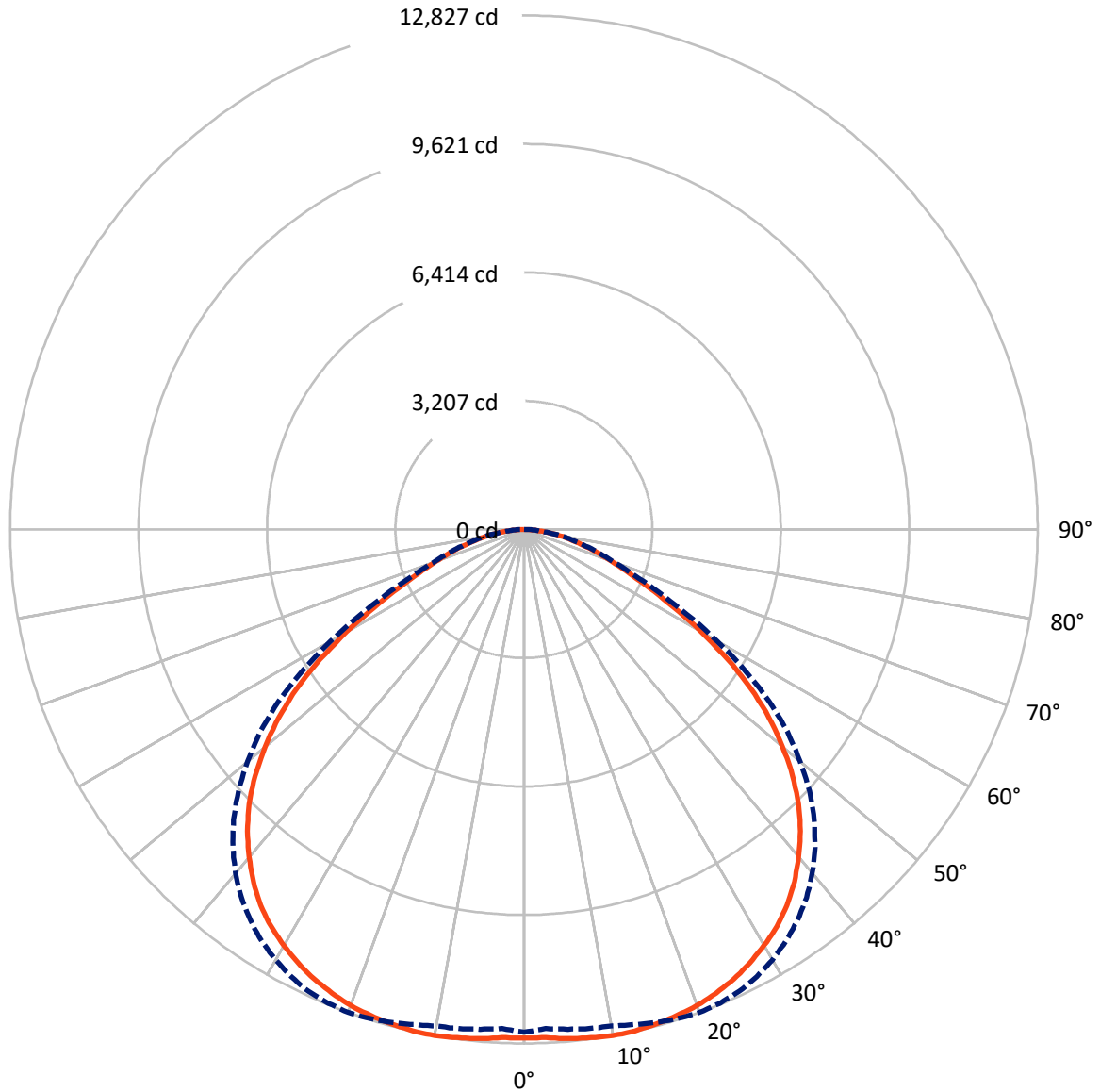
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### Lumen Table



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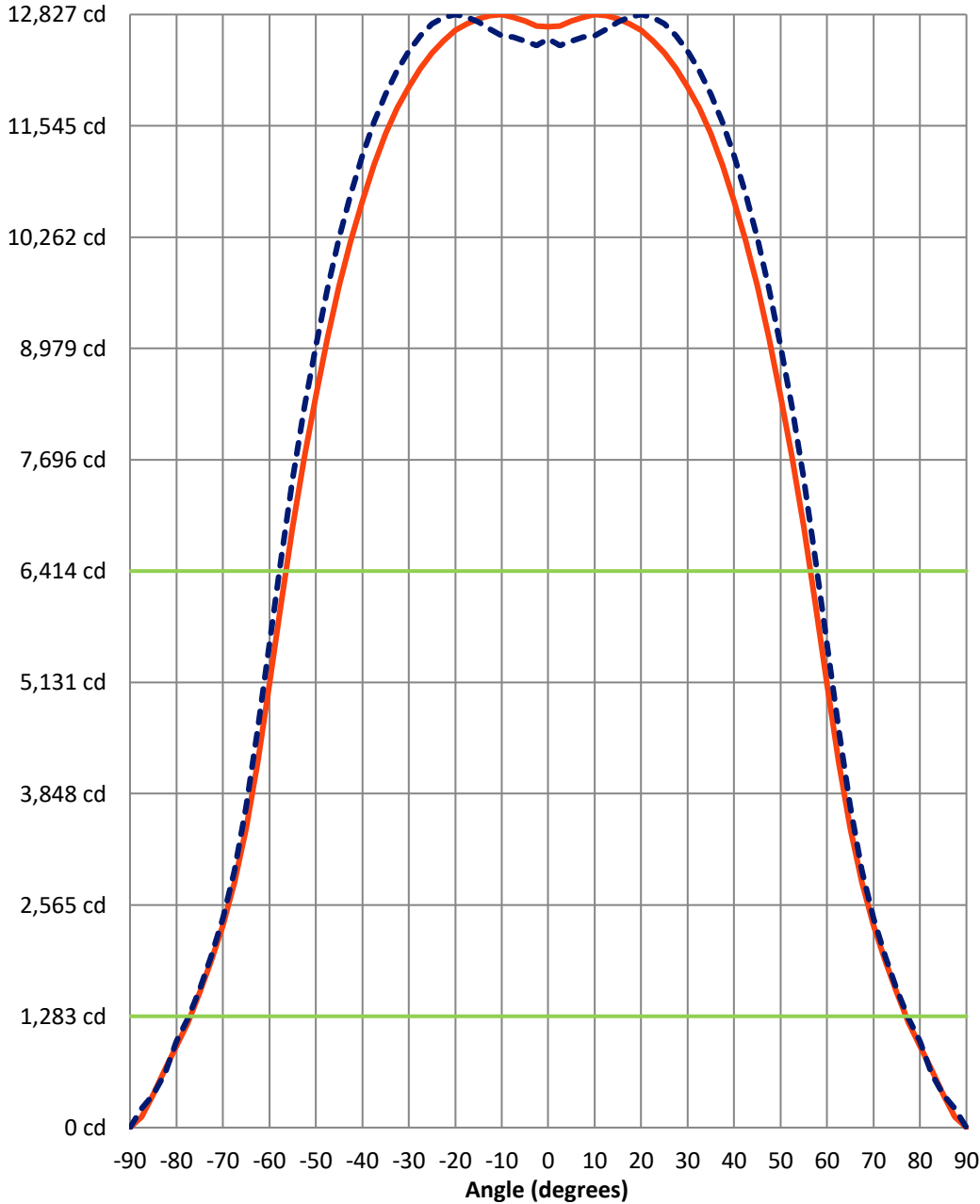
### Luminous Intensity Polar Plot



— 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: 24147.6  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 28948.8  
Efficiency: 73.6%

**Spill:**  
Lumens: 10403.8  
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°	103.5	111.8	115.9	120.1	124.2	128.4	132.5	128.4	124.2	124.2	120.1
85°	277.4	285.7	289.8	318.8	347.8	364.4	385.1	380.9	380.9	376.8	372.6
82.5°	554.8	579.7	600.4	629.4	645.9	670.8	687.3	674.9	666.6	650.1	637.6
80°	985.4	993.7	997.9	1002.0	981.3	977.2	968.9	956.5	939.9	919.2	898.5
77.5°	1254.6	1262.9	1271.1	1262.9	1258.7	1254.6	1242.2	1229.7	1213.2	1196.6	1171.8
75°	1660.4	1660.4	1660.4	1647.9	1639.6	1627.2	1606.5	1585.8	1556.8	1523.7	1486.5
72.5°	2091.0	2086.8	2082.7	2057.8	2037.1	2012.3	1983.3	1958.5	1925.3	1888.1	1838.4
70°	2542.3	2550.6	2554.7	2521.6	2496.7	2463.6	2426.4	2380.8	2331.1	2277.3	2206.9
67.5°	3163.4	3155.1	3146.8	3101.3	3068.1	3022.6	2968.8	2902.5	2828.0	2745.2	2645.8
65°	3933.5	3945.9	3921.1	3875.5	3813.4	3738.9	3656.1	3560.9	3449.1	3324.8	3184.1
62.5°	4865.1	4885.8	4856.8	4798.9	4720.2	4620.8	4504.9	4368.3	4215.1	4041.2	3867.3
60°	5925.1	5921.0	5867.1	5788.5	5684.9	5560.7	5432.4	5283.3	5109.4	4906.5	4695.4
57.5°	6898.1	6889.8	6823.6	6744.9	6641.4	6508.9	6372.3	6214.9	6032.8	5817.4	5573.2
55°	7771.8	7763.5	7697.2	7614.4	7506.8	7374.3	7250.1	7101.0	6923.0	6695.2	6434.4
52.5°	8546.1	8550.2	8492.2	8401.1	8285.2	8156.8	8036.8	7887.7	7717.9	7490.2	7237.6
50°	9258.2	9254.1	9192.0	9109.2	9001.5	8877.3	8757.2	8608.2	8430.1	8210.7	7966.4
47.5°	9920.7	9912.4	9842.0	9750.9	9639.2	9531.5	9419.7	9287.2	9100.9	8881.4	8637.1
45°	10475.5	10459.0	10388.6	10301.6	10194.0	10098.8	9999.4	9900.0	9701.3	9498.4	9266.5
42.5°	10951.7	10947.6	10877.2	10790.2	10682.6	10599.8	10508.7	10384.4	10218.8	10032.5	9804.8
40°	11407.2	11374.0	11303.6	11220.8	11121.5	11051.1	10960.0	10835.8	10674.3	10492.1	10272.7
37.5°	11746.7	11750.8	11676.3	11585.2	11498.3	11432.0	11349.2	11233.3	11092.5	10914.4	10695.0
35°	12069.6	12048.9	11986.8	11908.2	11829.5	11755.0	11668.0	11568.6	11452.7	11287.1	11080.1
32.5°	12280.8	12309.8	12235.3	12152.5	12106.9	12048.9	11957.8	11854.3	11750.8	11585.2	11398.9
30°	12512.7	12487.8	12429.9	12359.5	12326.4	12289.1	12210.4	12111.0	11991.0	11841.9	11668.0
27.5°	12674.2	12661.7	12591.3	12525.1	12508.5	12475.4	12413.3	12326.4	12206.3	12061.4	11899.9
25°	12744.5	12752.8	12686.6	12649.3	12649.3	12628.6	12578.9	12504.4	12384.3	12251.8	12094.5
22.5°	12777.7	12769.4	12723.8	12715.6	12736.3	12719.7	12699.0	12632.8	12525.1	12417.4	12285.0
20°	12798.4	12740.4	12699.0	12732.1	12757.0	12752.8	12736.3	12694.9	12645.2	12554.1	12438.2
17.5°	12752.8	12715.6	12665.9	12715.6	12769.4	12773.5	12757.0	12732.1	12719.7	12661.7	12558.2
15°	12641.0	12612.1	12620.3	12670.0	12732.1	12752.8	12765.3	12794.2	12777.7	12732.1	12641.0
12.5°	12566.5	12529.2	12566.5	12616.2	12649.3	12661.7	12761.1	12814.9	12814.9	12773.5	12715.6
10°	12545.8	12471.3	12521.0	12566.5	12583.1	12657.6	12740.4	12798.4	12827.4	12794.2	12719.7
7.5°	12504.4	12454.7	12475.4	12496.1	12591.3	12645.2	12690.7	12752.8	12794.2	12790.1	12723.8
5°	12483.7	12421.6	12429.9	12516.8	12583.1	12620.3	12636.9	12690.7	12752.8	12765.3	12715.6
2.5°	12429.9	12400.9	12463.0	12471.3	12521.0	12549.9	12566.5	12616.2	12694.9	12723.8	12703.1
0°	12400.9	12359.5	12318.1	12351.2	12434.0	12496.1	12521.0	12595.5	12686.6	12715.6	12670.0



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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°	115.9	111.8	107.7	103.5	107.7	107.7	107.7	103.5	107.7	103.5	103.5
85°	360.2	343.7	331.2	314.7	298.1	285.7	269.1	252.6	248.4	244.3	236.0
82.5°	621.1	600.4	579.7	554.8	530.0	501.0	472.0	438.9	430.6	422.3	409.9
80°	873.7	844.7	815.7	786.7	761.9	732.9	699.7	662.5	637.6	616.9	592.1
77.5°	1138.6	1097.2	1055.8	1006.1	977.2	948.2	915.1	877.8	840.5	807.4	770.1
75°	1440.9	1395.4	1354.0	1304.3	1250.4	1196.6	1142.8	1093.1	1039.3	989.6	939.9
72.5°	1776.3	1710.0	1643.8	1581.7	1515.4	1449.2	1378.8	1312.5	1246.3	1180.1	1109.7
70°	2128.2	2045.4	1962.6	1879.8	1792.8	1705.9	1623.1	1540.3	1457.5	1370.5	1291.8
67.5°	2542.3	2447.1	2339.4	2223.5	2095.1	1983.3	1875.7	1776.3	1676.9	1577.5	1478.2
65°	3059.9	2927.4	2782.4	2625.1	2476.0	2327.0	2169.6	2020.6	1904.6	1788.7	1676.9
62.5°	3697.5	3511.2	3308.3	3105.4	2923.2	2728.6	2546.4	2351.8	2169.6	2004.0	1867.4
60°	4459.4	4206.8	3958.3	3697.5	3444.9	3179.9	2948.1	2707.9	2480.2	2277.3	2078.5
57.5°	5299.9	5005.9	4707.8	4389.0	4045.3	3734.8	3420.1	3105.4	2836.3	2567.1	2343.5
55°	6152.8	5842.3	5506.9	5146.7	4769.9	4372.4	3945.9	3594.0	3225.5	2910.8	2621.0
52.5°	6964.4	6641.4	6293.6	5962.4	5511.0	5055.6	4587.7	4124.0	3693.4	3291.7	2939.8
50°	7689.0	7374.3	7038.9	6653.8	6235.6	5751.2	5229.5	4707.8	4198.5	3726.5	3287.6
47.5°	8351.4	8045.0	7709.7	7324.6	6943.7	6405.4	5879.6	5304.0	4736.8	4194.4	3680.9
45°	8972.5	8662.0	8314.2	7945.7	7506.8	7026.5	6484.1	5904.4	5295.7	4687.1	4095.0
42.5°	9535.6	9225.1	8873.2	8492.2	8057.5	7581.3	7055.5	6471.6	5858.8	5196.4	4546.3
40°	10028.4	9726.1	9386.6	8989.1	8583.3	8082.3	7564.7	7009.9	6376.4	5709.8	4993.5
37.5°	10459.0	10177.4	9842.0	9448.7	9018.1	8570.9	8036.8	7481.9	6910.5	6186.0	5453.1
35°	10839.9	10579.1	10235.4	9862.7	9440.4	8968.4	8467.4	7925.0	7308.0	6629.0	5916.8
32.5°	11171.1	10906.2	10591.5	10218.8	9808.9	9365.9	8852.5	8305.9	7722.1	7030.6	6256.3
30°	11452.7	11196.0	10897.9	10545.9	10152.6	9713.7	9212.7	8662.0	8065.8	7378.4	6612.4
27.5°	11697.0	11452.7	11162.9	10835.8	10459.0	10036.6	9531.5	8976.7	8368.0	7705.5	6939.5
25°	11908.2	11672.2	11403.0	11092.5	10719.8	10305.8	9829.6	9249.9	8641.3	7974.7	7216.9
22.5°	12098.6	11870.9	11601.8	11299.5	10960.0	10545.9	10065.6	9490.1	8873.2	8214.8	7469.5
20°	12268.4	12057.2	11792.2	11481.7	11142.2	10724.0	10247.8	9701.3	9080.2	8434.3	7697.2
17.5°	12405.0	12218.7	11953.7	11626.6	11287.1	10881.3	10417.6	9916.6	9258.2	8620.6	7887.7
15°	12500.3	12318.1	12077.9	11746.7	11415.4	11013.8	10550.1	10032.5	9419.7	8769.6	8045.0
12.5°	12566.5	12371.9	12148.3	11841.9	11510.7	11113.2	10661.9	10152.6	9556.3	8902.1	8181.7
10°	12583.1	12405.0	12181.4	11908.2	11585.2	11200.1	10757.1	10252.0	9668.1	9005.7	8293.5
7.5°	12591.3	12421.6	12218.7	11957.8	11639.0	11266.4	10827.5	10330.6	9750.9	9092.6	8376.3
5°	12587.2	12425.7	12243.5	11991.0	11672.2	11303.6	10873.0	10384.4	9808.9	9150.6	8438.4
2.5°	12574.8	12429.9	12260.1	12015.8	11709.4	11345.1	10918.6	10446.6	9871.0	9200.3	8488.1
0°	12607.9	12483.7	12268.4	12007.5	11717.7	11345.1	10914.4	10454.8	9879.3	9196.1	8483.9





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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°	103.5	99.4	99.4	95.2	91.1	87.0	78.7	74.5	66.2	53.8	41.4
85°	223.6	211.2	198.7	190.5	182.2	173.9	161.5	149.1	132.5	107.7	82.8
82.5°	393.4	368.5	343.7	314.7	289.8	265.0	244.3	223.6	198.7	161.5	124.2
80°	563.1	525.8	488.6	447.2	409.9	368.5	331.2	298.1	265.0	215.3	165.6
77.5°	732.9	683.2	629.4	579.7	525.8	472.0	418.2	372.6	323.0	265.0	207.0
75°	890.2	832.2	782.6	712.2	645.9	575.5	505.1	443.0	380.9	310.5	248.4
72.5°	1047.6	973.0	902.6	836.4	761.9	674.9	596.2	517.6	438.9	356.1	281.6
70°	1204.9	1113.8	1026.9	948.2	865.4	778.4	683.2	592.1	496.9	397.5	310.5
67.5°	1366.4	1262.9	1163.5	1064.1	968.9	869.5	770.1	666.6	554.8	438.9	343.7
65°	1544.4	1416.1	1296.0	1184.2	1072.4	964.7	852.9	741.2	616.9	484.4	372.6
62.5°	1722.5	1581.7	1440.9	1300.1	1175.9	1055.8	935.8	811.5	674.9	534.1	401.6
60°	1912.9	1751.4	1590.0	1432.6	1279.4	1146.9	1014.4	881.9	737.0	579.7	430.6
57.5°	2124.1	1929.5	1747.3	1569.3	1395.4	1238.0	1093.1	952.3	790.8	625.2	463.7
55°	2364.2	2124.1	1908.8	1710.0	1519.6	1329.1	1171.8	1026.9	852.9	670.8	501.0
52.5°	2616.8	2339.4	2078.5	1855.0	1652.1	1436.8	1246.3	1084.8	915.1	716.3	534.1
50°	2910.8	2558.8	2269.0	1995.7	1768.0	1544.4	1325.0	1151.1	977.2	770.1	567.3
47.5°	3213.1	2823.8	2459.5	2161.4	1892.2	1647.9	1416.1	1209.0	1035.1	819.8	600.4
45°	3565.0	3076.4	2674.8	2322.8	2012.3	1755.6	1507.2	1271.1	1084.8	869.5	633.5
42.5°	3904.5	3374.5	2898.4	2500.9	2148.9	1859.1	1590.0	1337.4	1134.5	919.2	662.5
40°	4306.2	3672.6	3113.7	2670.6	2285.6	1958.5	1672.8	1407.8	1180.1	964.7	691.5
37.5°	4691.2	3974.9	3374.5	2857.0	2418.1	2057.8	1755.6	1474.0	1221.5	1010.3	728.7
35°	5072.1	4310.3	3623.0	3030.9	2554.7	2169.6	1838.4	1536.1	1262.9	1047.6	761.9
32.5°	5436.5	4625.0	3875.5	3225.5	2703.8	2273.2	1912.9	1594.1	1304.3	1080.7	795.0
30°	5776.0	4923.1	4124.0	3424.2	2840.4	2368.4	1983.3	1652.1	1354.0	1109.7	828.1
27.5°	6086.6	5212.9	4372.4	3610.5	2968.8	2455.3	2057.8	1705.9	1395.4	1138.6	857.1
25°	6368.1	5473.8	4600.1	3780.3	3084.7	2550.6	2128.2	1759.7	1432.6	1163.5	881.9
22.5°	6633.1	5713.9	4807.2	3950.1	3225.5	2645.8	2194.5	1809.4	1469.9	1188.3	906.8
20°	6865.0	5933.4	5005.9	4119.8	3349.7	2732.7	2252.4	1855.0	1503.0	1204.9	931.6
17.5°	7051.3	6128.0	5183.9	4268.9	3457.3	2807.3	2302.1	1896.4	1532.0	1225.6	948.2
15°	7216.9	6293.6	5333.0	4397.2	3552.6	2869.4	2347.7	1929.5	1556.8	1238.0	968.9
12.5°	7357.7	6434.4	5461.4	4509.0	3635.4	2923.2	2384.9	1954.3	1577.5	1250.4	981.3
10°	7473.7	6546.2	5569.0	4596.0	3701.6	2964.6	2413.9	1979.2	1594.1	1262.9	993.7
7.5°	7560.6	6629.0	5647.7	4670.5	3755.5	2993.6	2438.8	1995.7	1610.7	1271.1	1014.4
5°	7626.9	6699.4	5709.8	4720.2	3796.9	3035.0	2467.8	2016.4	1627.2	1279.4	1014.4
2.5°	7676.5	6757.3	5759.5	4761.6	3830.0	3026.7	2467.8	2012.3	1627.2	1279.4	1010.3
0°	7668.3	6761.5	5755.3	4761.6	3830.0	3018.4	2467.8	2008.2	1627.2	1279.4	1010.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	29.0	20.7	8.3	0.0
85°	62.1	41.4	20.7	0.0
82.5°	91.1	58.0	29.0	0.0
80°	120.1	78.7	37.3	0.0
77.5°	153.2	99.4	49.7	0.0
75°	182.2	115.9	58.0	0.0
72.5°	211.2	136.6	66.2	0.0
70°	236.0	153.2	74.5	0.0
67.5°	260.9	173.9	87.0	0.0
65°	281.6	190.5	95.2	0.0
62.5°	298.1	211.2	103.5	0.0
60°	318.8	227.7	111.8	0.0
57.5°	335.4	240.2	120.1	0.0
55°	351.9	248.4	128.4	0.0
52.5°	368.5	260.9	136.6	0.0
50°	385.1	273.3	144.9	0.0
47.5°	401.6	281.6	149.1	0.0
45°	426.5	294.0	157.3	0.0
42.5°	447.2	302.3	165.6	0.0
40°	467.9	310.5	169.8	0.0
37.5°	488.6	318.8	178.0	0.0
35°	509.3	327.1	182.2	0.0
32.5°	525.8	335.4	186.3	0.0
30°	542.4	343.7	190.5	0.0
27.5°	559.0	347.8	194.6	0.0
25°	571.4	356.1	198.7	0.0
22.5°	583.8	360.2	202.9	0.0
20°	592.1	364.4	207.0	0.0
17.5°	604.5	368.5	211.2	0.0
15°	608.7	372.6	219.4	0.0
12.5°	616.9	376.8	219.4	0.0
10°	621.1	380.9	219.4	0.0
7.5°	629.4	380.9	219.4	0.0
5°	625.2	380.9	219.4	0.0
2.5°	625.2	380.9	219.4	0.0
0°	621.1	380.9	219.4	0.0

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