

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: P628380

Luminaire Tested: **IFLD-L-SA8C-827-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628380  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38329.5 lumens	Max Intensity:	12493.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	91.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

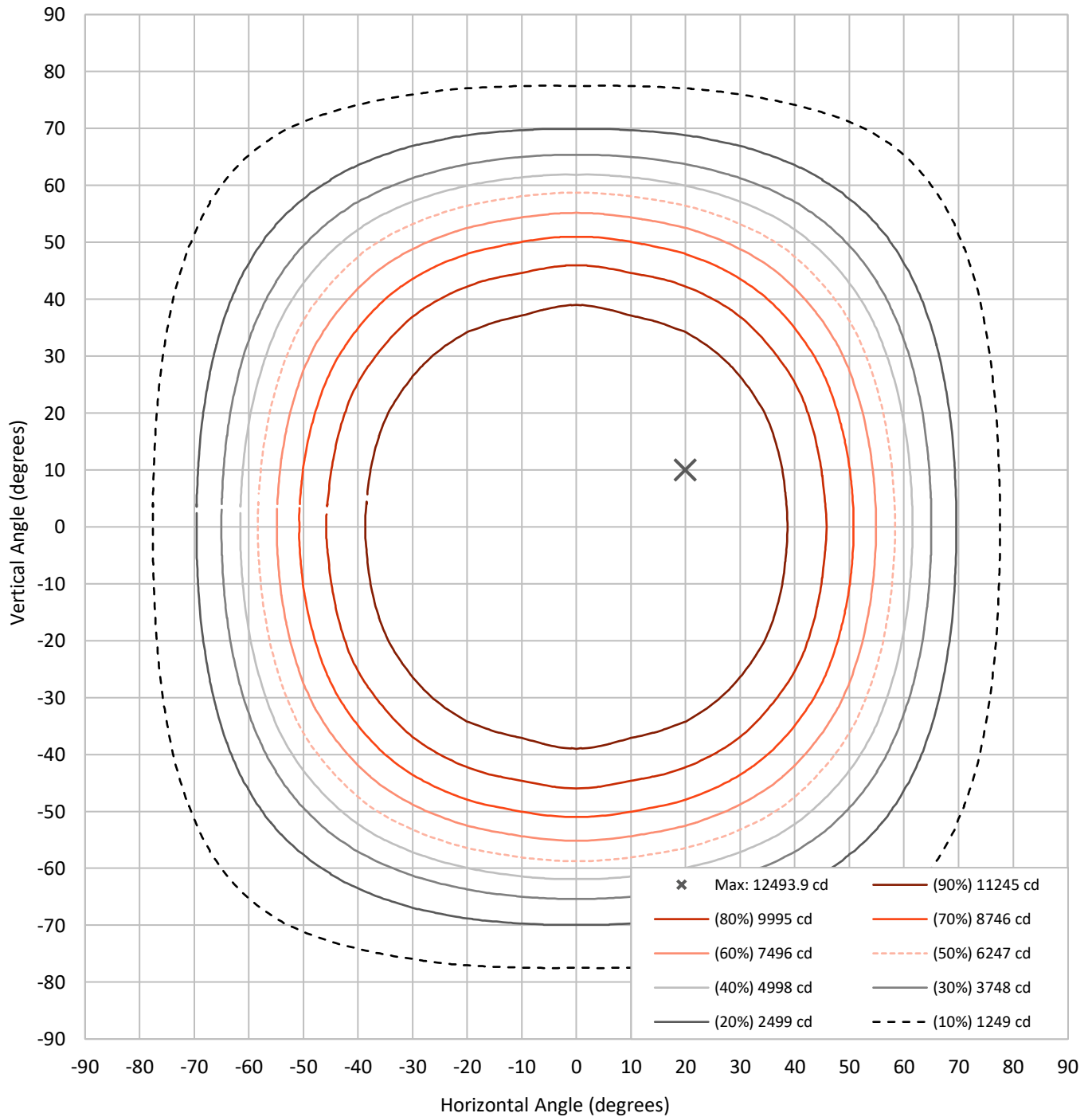
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	23519.8 lumens	Field Lumens:	28196.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3  
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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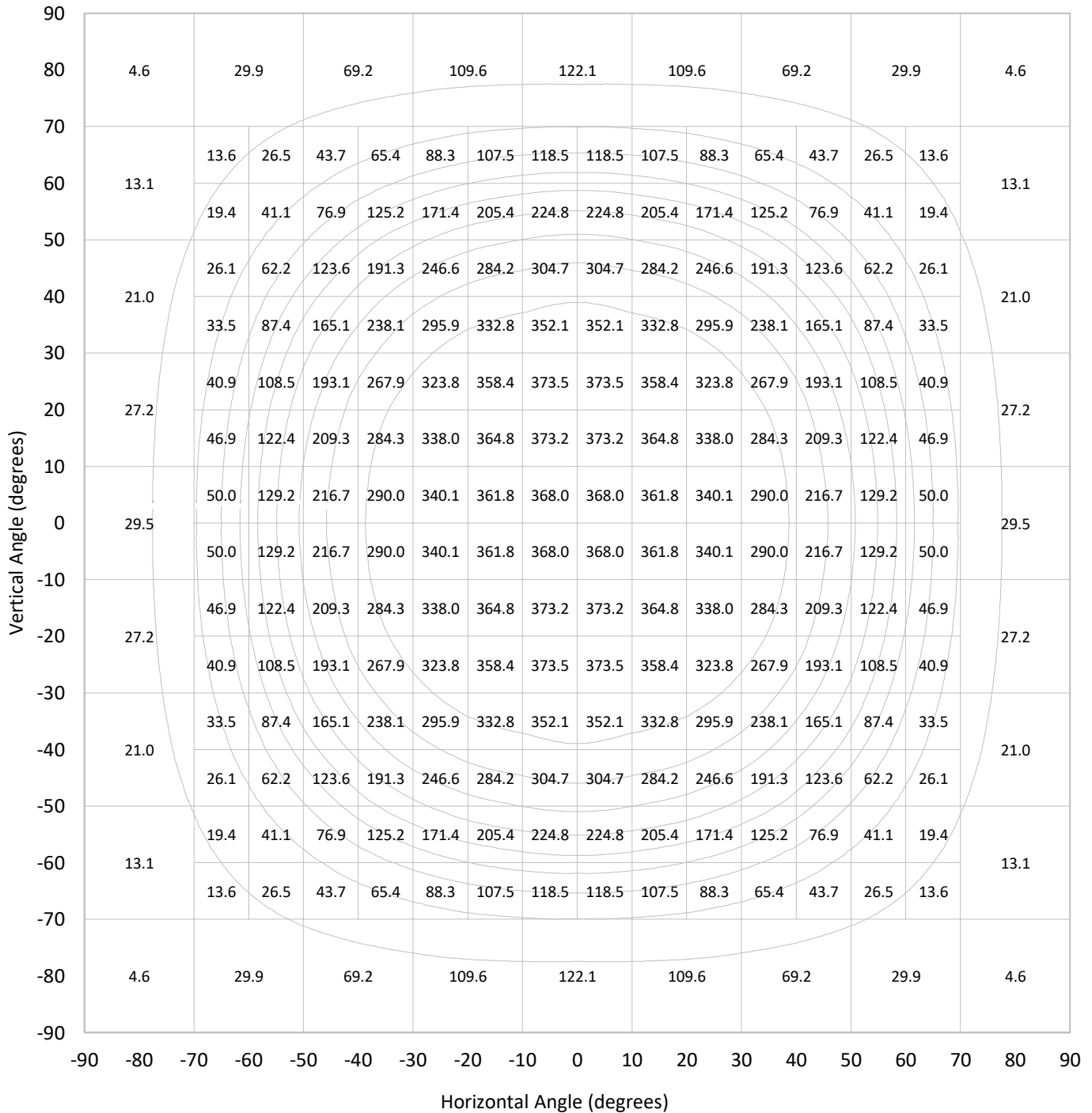
### Iso-Candela Plot





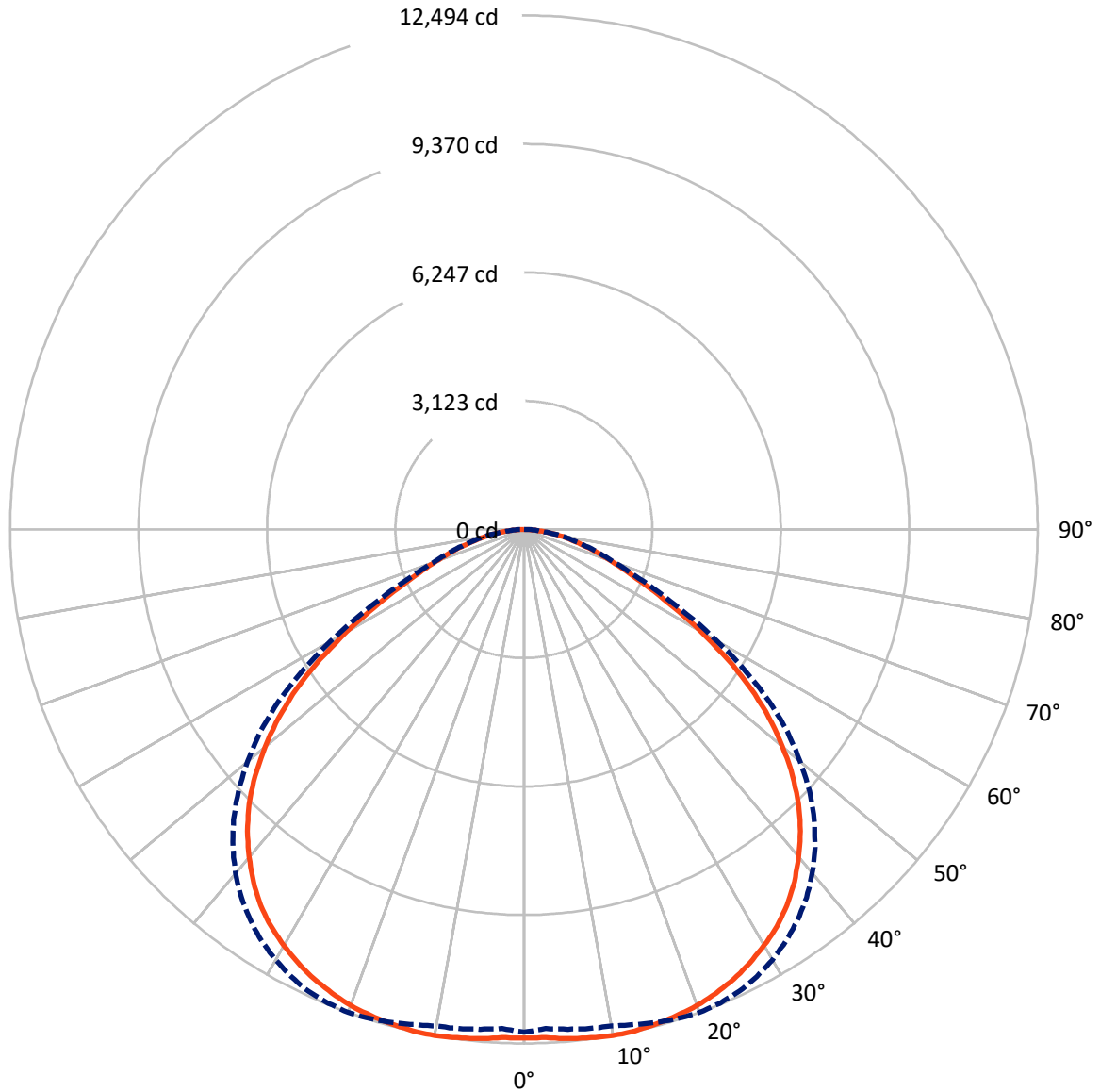
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### Lumen Table



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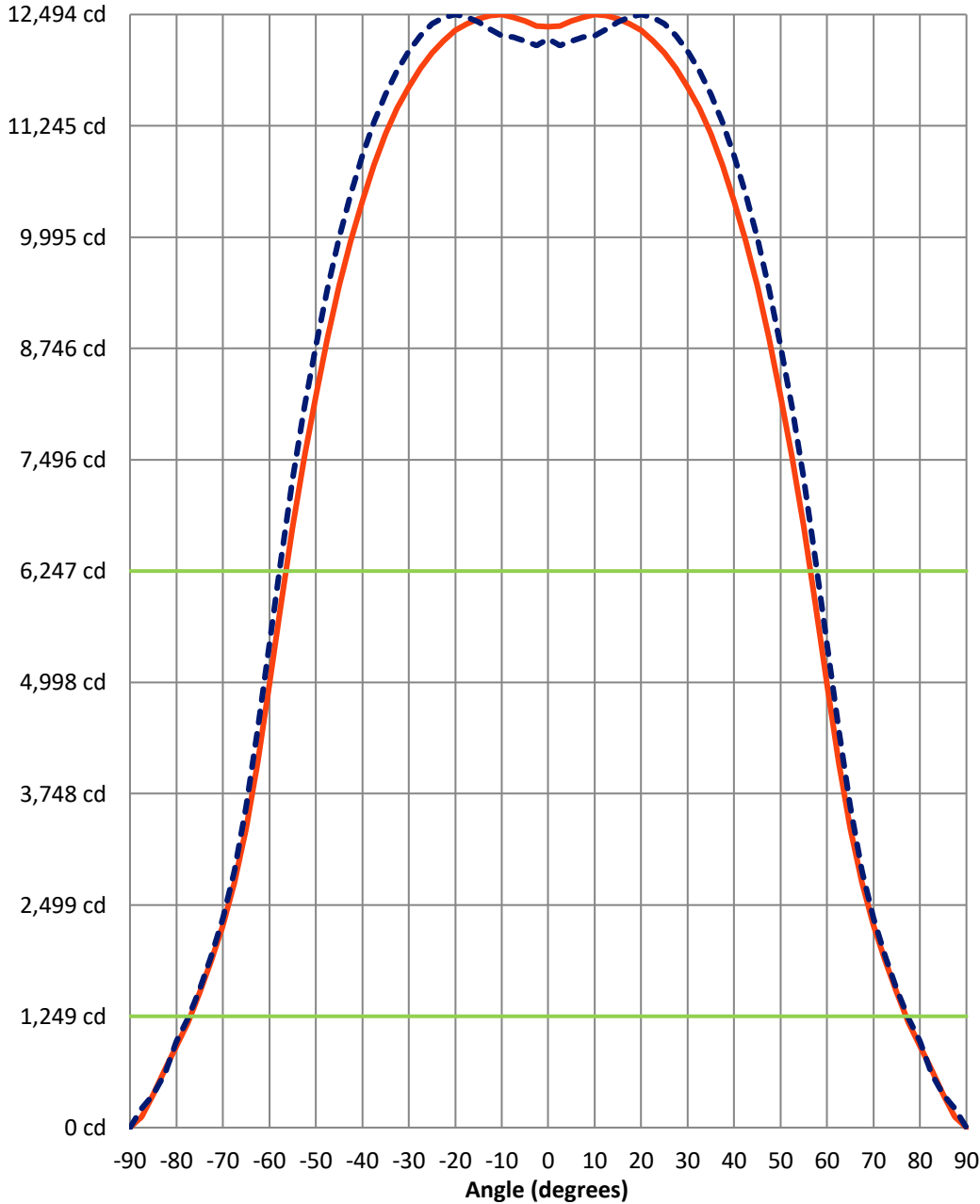
### Luminous Intensity Polar Plot



— 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: 23519.8  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 28196.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 10133.3  
 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°	100.8	108.9	112.9	117.0	121.0	125.0	129.1	125.0	121.0	121.0	117.0
85°	270.2	278.3	282.3	310.5	338.8	354.9	375.1	371.0	371.0	367.0	363.0
82.5°	540.4	564.6	584.8	613.0	629.1	653.3	669.5	657.4	649.3	633.2	621.1
80°	959.8	967.9	971.9	976.0	955.8	951.8	943.7	931.6	915.5	895.3	875.1
77.5°	1222.0	1230.0	1238.1	1230.0	1226.0	1222.0	1209.9	1197.8	1181.6	1165.5	1141.3
75°	1617.2	1617.2	1617.2	1605.1	1597.0	1584.9	1564.8	1544.6	1516.4	1484.1	1447.8
72.5°	2036.6	2032.6	2028.5	2004.3	1984.2	1960.0	1931.8	1907.6	1875.3	1839.0	1790.6
70°	2476.2	2484.3	2488.3	2456.0	2431.8	2399.6	2363.3	2318.9	2270.5	2218.1	2149.5
67.5°	3081.1	3073.1	3065.0	3020.6	2988.4	2944.0	2891.6	2827.1	2754.5	2673.8	2577.0
65°	3831.2	3843.3	3819.1	3774.8	3714.3	3641.7	3561.0	3468.3	3359.4	3238.4	3101.3
62.5°	4738.6	4758.8	4730.6	4674.1	4597.5	4500.7	4387.8	4254.7	4105.5	3936.1	3766.7
60°	5771.1	5767.0	5714.6	5638.0	5537.2	5416.2	5291.1	5146.0	4976.6	4779.0	4573.3
57.5°	6718.8	6710.7	6646.2	6569.6	6468.7	6339.7	6206.6	6053.4	5875.9	5666.2	5428.3
55°	7569.7	7561.7	7497.1	7416.5	7311.6	7182.6	7061.6	6916.4	6743.0	6521.2	6267.1
52.5°	8323.9	8327.9	8271.4	8182.7	8069.8	7944.8	7827.8	7682.6	7517.3	7295.5	7049.5
50°	9017.5	9013.5	8953.0	8872.3	8767.5	8646.5	8529.6	8384.4	8211.0	7997.2	7759.3
47.5°	9662.8	9654.7	9586.2	9497.4	9388.6	9283.7	9174.8	9045.8	8864.3	8650.5	8412.6
45°	10203.2	10187.1	10118.5	10033.8	9929.0	9836.2	9739.4	9642.6	9449.0	9251.4	9025.6
42.5°	10667.0	10662.9	10594.4	10509.7	10404.8	10324.2	10235.5	10114.5	9953.2	9771.7	9549.9
40°	11110.6	11078.3	11009.8	10929.1	10832.3	10763.8	10675.0	10554.1	10396.8	10219.3	10005.6
37.5°	11441.3	11445.3	11372.7	11284.0	11199.3	11134.8	11054.1	10941.2	10804.1	10630.7	10416.9
35°	11755.9	11735.7	11675.2	11598.6	11522.0	11449.4	11364.7	11267.9	11155.0	10993.6	10792.0
32.5°	11961.5	11989.8	11917.2	11836.5	11792.2	11735.7	11647.0	11546.1	11445.3	11284.0	11102.5
30°	12187.4	12163.2	12106.7	12038.2	12005.9	11969.6	11893.0	11796.2	11679.2	11534.0	11364.7
27.5°	12344.7	12332.6	12264.0	12199.5	12183.3	12151.1	12090.6	12005.9	11888.9	11747.8	11590.5
25°	12413.2	12421.3	12356.8	12320.5	12320.5	12300.3	12251.9	12179.3	12062.4	11933.3	11780.1
22.5°	12445.5	12437.4	12393.1	12385.0	12405.2	12389.0	12368.9	12304.3	12199.5	12094.6	11965.6
20°	12465.6	12409.2	12368.9	12401.1	12425.3	12421.3	12405.2	12364.8	12316.4	12227.7	12114.8
17.5°	12421.3	12385.0	12336.6	12385.0	12437.4	12441.4	12425.3	12401.1	12389.0	12332.6	12231.7
15°	12312.4	12284.2	12292.2	12340.6	12401.1	12421.3	12433.4	12461.6	12445.5	12401.1	12312.4
12.5°	12239.8	12203.5	12239.8	12288.2	12320.5	12332.6	12429.3	12481.8	12481.8	12441.4	12385.0
10°	12219.6	12147.0	12195.4	12239.8	12255.9	12328.5	12409.2	12465.6	12493.9	12461.6	12389.0
7.5°	12179.3	12130.9	12151.1	12171.2	12264.0	12316.4	12360.8	12421.3	12461.6	12457.6	12393.1
5°	12159.1	12098.7	12106.7	12191.4	12255.9	12292.2	12308.4	12360.8	12421.3	12433.4	12385.0
2.5°	12106.7	12078.5	12139.0	12147.0	12195.4	12223.7	12239.8	12288.2	12364.8	12393.1	12372.9
0°	12078.5	12038.2	11997.8	12030.1	12110.8	12171.2	12195.4	12268.0	12356.8	12385.0	12340.6



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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°	112.9	108.9	104.9	100.8	104.9	104.9	104.9	100.8	104.9	100.8	100.8
85°	350.9	334.7	322.6	306.5	290.4	278.3	262.1	246.0	242.0	237.9	229.9
82.5°	604.9	584.8	564.6	540.4	516.2	488.0	459.7	427.5	419.4	411.4	399.3
80°	850.9	822.7	794.5	766.2	742.1	713.8	681.6	645.3	621.1	600.9	576.7
77.5°	1109.0	1068.7	1028.4	980.0	951.8	923.5	891.3	855.0	818.7	786.4	750.1
75°	1403.4	1359.1	1318.8	1270.4	1217.9	1165.5	1113.1	1064.7	1012.3	963.9	915.5
72.5°	1730.1	1665.6	1601.1	1540.6	1476.0	1411.5	1343.0	1278.4	1213.9	1149.4	1080.8
70°	2072.9	1992.2	1911.6	1830.9	1746.2	1661.5	1580.9	1500.2	1419.6	1334.9	1258.3
67.5°	2476.2	2383.4	2278.6	2165.7	2040.6	1931.8	1826.9	1730.1	1633.3	1536.5	1439.7
65°	2980.3	2851.2	2710.1	2556.8	2411.7	2266.5	2113.2	1968.0	1855.1	1742.2	1633.3
62.5°	3601.4	3419.9	3222.3	3024.7	2847.2	2657.7	2480.2	2290.7	2113.2	1951.9	1818.8
60°	4343.4	4097.4	3855.4	3601.4	3355.4	3097.3	2871.4	2637.5	2415.7	2218.1	2024.5
57.5°	5162.1	4875.8	4585.4	4274.9	3940.1	3637.7	3331.2	3024.7	2762.5	2500.4	2282.6
55°	5992.9	5690.4	5363.7	5012.9	4645.9	4258.7	3843.3	3500.5	3141.6	2835.1	2552.8
52.5°	6783.3	6468.7	6130.0	5807.4	5367.8	4924.2	4468.4	4016.8	3597.3	3206.1	2863.3
50°	7489.1	7182.6	6855.9	6480.8	6073.5	5601.7	5093.5	4585.4	4089.3	3629.6	3202.1
47.5°	8134.3	7835.9	7509.2	7134.2	6763.1	6238.9	5726.7	5166.1	4613.6	4085.3	3585.2
45°	8739.3	8436.8	8098.0	7739.1	7311.6	6843.8	6315.5	5750.9	5158.1	4565.2	3988.5
42.5°	9287.7	8985.3	8642.5	8271.4	7848.0	7384.2	6872.0	6303.4	5706.5	5061.3	4428.1
40°	9767.6	9473.2	9142.5	8755.4	8360.2	7872.2	7368.1	6827.7	6210.6	5561.3	4863.7
37.5°	10187.1	9912.8	9586.2	9203.0	8783.6	8348.1	7827.8	7287.4	6730.9	6025.1	5311.3
35°	10558.1	10304.0	9969.3	9606.3	9195.0	8735.2	8247.2	7718.9	7118.0	6456.6	5763.0
32.5°	10880.7	10622.6	10316.1	9953.2	9553.9	9122.4	8622.3	8090.0	7521.3	6847.8	6093.7
30°	11155.0	10904.9	10614.6	10271.8	9888.6	9461.1	8973.2	8436.8	7856.1	7186.6	6440.5
27.5°	11392.9	11155.0	10872.7	10554.1	10187.1	9775.7	9283.7	8743.3	8150.5	7505.2	6759.1
25°	11598.6	11368.7	11106.6	10804.1	10441.1	10037.8	9574.1	9009.5	8416.6	7767.3	7029.3
22.5°	11784.1	11562.3	11300.1	11005.7	10675.0	10271.8	9803.9	9243.4	8642.5	8001.2	7275.3
20°	11949.4	11743.8	11485.7	11183.2	10852.5	10445.2	9981.4	9449.0	8844.1	8215.0	7497.1
17.5°	12082.5	11901.0	11642.9	11324.3	10993.6	10598.4	10146.7	9658.8	9017.5	8396.5	7682.6
15°	12175.3	11997.8	11763.9	11441.3	11118.7	10727.5	10275.8	9771.7	9174.8	8541.6	7835.9
12.5°	12239.8	12050.3	11832.5	11534.0	11211.4	10824.3	10384.7	9888.6	9307.9	8670.7	7969.0
10°	12255.9	12082.5	11864.7	11598.6	11284.0	10909.0	10477.4	9985.4	9416.8	8771.5	8077.9
7.5°	12264.0	12098.7	11901.0	11647.0	11336.4	10973.5	10546.0	10062.0	9497.4	8856.2	8158.5
5°	12260.0	12102.7	11925.2	11679.2	11368.7	11009.8	10590.4	10114.5	9553.9	8912.7	8219.0
2.5°	12247.9	12106.7	11941.4	11703.4	11405.0	11050.1	10634.7	10175.0	9614.4	8961.1	8267.4
0°	12280.1	12159.1	11949.4	11695.4	11413.1	11050.1	10630.7	10183.0	9622.5	8957.0	8263.4





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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°	100.8	96.8	96.8	92.8	88.7	84.7	76.6	72.6	64.5	52.4	40.3
85°	217.8	205.7	193.6	185.5	177.4	169.4	157.3	145.2	129.1	104.9	80.7
82.5°	383.1	358.9	334.7	306.5	282.3	258.1	237.9	217.8	193.6	157.3	121.0
80°	548.5	512.2	475.9	435.6	399.3	358.9	322.6	290.4	258.1	209.7	161.3
77.5°	713.8	665.4	613.0	564.6	512.2	459.7	407.3	363.0	314.6	258.1	201.6
75°	867.1	810.6	762.2	693.7	629.1	560.6	492.0	431.5	371.0	302.5	242.0
72.5°	1020.3	947.7	879.2	814.6	742.1	657.4	580.7	504.1	427.5	346.8	274.2
70°	1173.6	1084.8	1000.2	923.5	842.9	758.2	665.4	576.7	483.9	387.2	302.5
67.5°	1330.9	1230.0	1133.2	1036.5	943.7	846.9	750.1	649.3	540.4	427.5	334.7
65°	1504.3	1379.2	1262.3	1153.4	1044.5	939.7	830.8	721.9	600.9	471.8	363.0
62.5°	1677.7	1540.6	1403.4	1266.3	1145.3	1028.4	911.4	790.4	657.4	520.2	391.2
60°	1863.2	1705.9	1548.6	1395.4	1246.2	1117.1	988.1	859.0	717.9	564.6	419.4
57.5°	2068.9	1879.3	1701.9	1528.5	1359.1	1205.8	1064.7	927.6	770.3	609.0	451.7
55°	2302.8	2068.9	1859.2	1665.6	1480.1	1294.6	1141.3	1000.2	830.8	653.3	488.0
52.5°	2548.8	2278.6	2024.5	1806.7	1609.1	1399.4	1213.9	1056.6	891.3	697.7	520.2
50°	2835.1	2492.3	2210.0	1943.9	1722.0	1504.3	1290.5	1121.1	951.8	750.1	552.5
47.5°	3129.5	2750.4	2395.5	2105.2	1843.0	1605.1	1379.2	1177.6	1008.2	798.5	584.8
45°	3472.3	2996.4	2605.2	2262.4	1960.0	1709.9	1468.0	1238.1	1056.6	846.9	617.0
42.5°	3803.0	3286.8	2823.0	2435.9	2093.1	1810.8	1548.6	1302.6	1105.0	895.3	645.3
40°	4194.2	3577.2	3032.7	2601.2	2226.2	1907.6	1629.3	1371.2	1149.4	939.7	673.5
37.5°	4569.3	3871.6	3286.8	2782.7	2355.2	2004.3	1709.9	1435.7	1189.7	984.0	709.8
35°	4940.3	4198.2	3528.8	2952.1	2488.3	2113.2	1790.6	1496.2	1230.0	1020.3	742.1
32.5°	5295.2	4504.7	3774.8	3141.6	2633.5	2214.1	1863.2	1552.7	1270.4	1052.6	774.3
30°	5625.9	4795.1	4016.8	3335.2	2766.6	2306.8	1931.8	1609.1	1318.8	1080.8	806.6
27.5°	5928.3	5077.4	4258.7	3516.7	2891.6	2391.5	2004.3	1661.5	1359.1	1109.0	834.8
25°	6202.6	5331.5	4480.5	3682.0	3004.5	2484.3	2072.9	1714.0	1395.4	1133.2	859.0
22.5°	6460.7	5565.4	4682.2	3847.4	3141.6	2577.0	2137.4	1762.4	1431.7	1157.4	883.2
20°	6686.5	5779.1	4875.8	4012.7	3262.6	2661.7	2193.9	1806.7	1463.9	1173.6	907.4
17.5°	6868.0	5968.7	5049.2	4157.9	3367.5	2734.3	2242.3	1847.1	1492.2	1193.7	923.5
15°	7029.3	6130.0	5194.4	4282.9	3460.2	2794.8	2286.6	1879.3	1516.4	1205.8	943.7
12.5°	7166.4	6267.1	5319.4	4391.8	3540.9	2847.2	2322.9	1903.5	1536.5	1217.9	955.8
10°	7279.4	6376.0	5424.2	4476.5	3605.4	2887.5	2351.2	1927.7	1552.7	1230.0	967.9
7.5°	7364.0	6456.6	5500.9	4549.1	3657.8	2915.8	2375.4	1943.9	1568.8	1238.1	988.1
5°	7428.6	6525.2	5561.3	4597.5	3698.2	2956.1	2403.6	1964.0	1584.9	1246.2	988.1
2.5°	7477.0	6581.7	5609.7	4637.8	3730.4	2948.0	2403.6	1960.0	1584.9	1246.2	984.0
0°	7468.9	6585.7	5605.7	4637.8	3730.4	2940.0	2403.6	1955.9	1584.9	1246.2	984.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	28.2	20.2	8.1	0.0
85°	60.5	40.3	20.2	0.0
82.5°	88.7	56.5	28.2	0.0
80°	117.0	76.6	36.3	0.0
77.5°	149.2	96.8	48.4	0.0
75°	177.4	112.9	56.5	0.0
72.5°	205.7	133.1	64.5	0.0
70°	229.9	149.2	72.6	0.0
67.5°	254.1	169.4	84.7	0.0
65°	274.2	185.5	92.8	0.0
62.5°	290.4	205.7	100.8	0.0
60°	310.5	221.8	108.9	0.0
57.5°	326.7	233.9	117.0	0.0
55°	342.8	242.0	125.0	0.0
52.5°	358.9	254.1	133.1	0.0
50°	375.1	266.2	141.2	0.0
47.5°	391.2	274.2	145.2	0.0
45°	415.4	286.3	153.2	0.0
42.5°	435.6	294.4	161.3	0.0
40°	455.7	302.5	165.3	0.0
37.5°	475.9	310.5	173.4	0.0
35°	496.0	318.6	177.4	0.0
32.5°	512.2	326.7	181.5	0.0
30°	528.3	334.7	185.5	0.0
27.5°	544.4	338.8	189.5	0.0
25°	556.5	346.8	193.6	0.0
22.5°	568.6	350.9	197.6	0.0
20°	576.7	354.9	201.6	0.0
17.5°	588.8	358.9	205.7	0.0
15°	592.8	363.0	213.7	0.0
12.5°	600.9	367.0	213.7	0.0
10°	604.9	371.0	213.7	0.0
7.5°	613.0	371.0	213.7	0.0
5°	609.0	371.0	213.7	0.0
2.5°	609.0	371.0	213.7	0.0
0°	604.9	371.0	213.7	0.0

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