

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: P628256

Luminaire Tested: **IFLD-M-SA4E-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628256  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36750.2 lumens	Max Intensity:	11979.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	116.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

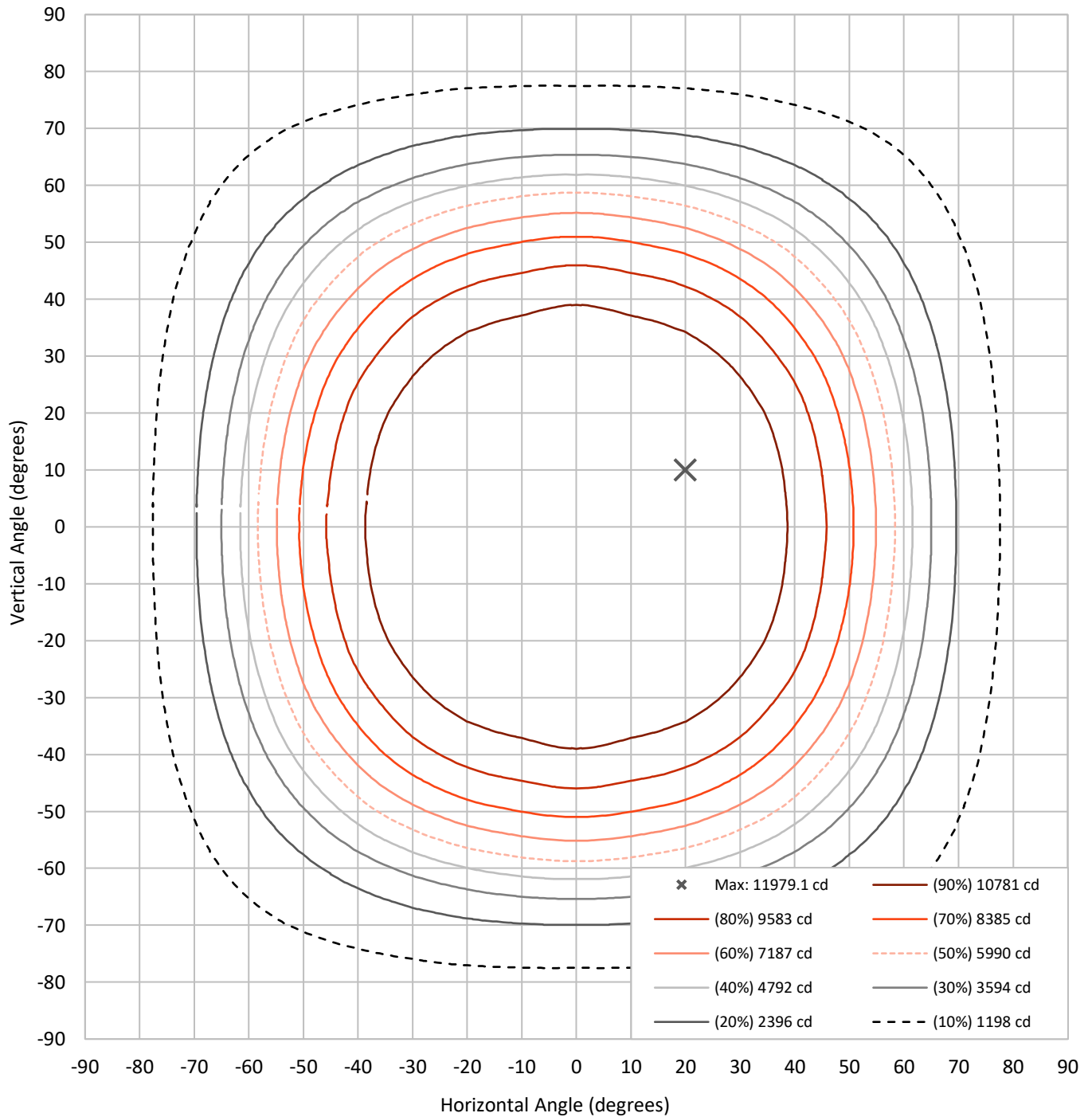
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22550.7 lumens	Field Lumens:	27034.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 314.8  
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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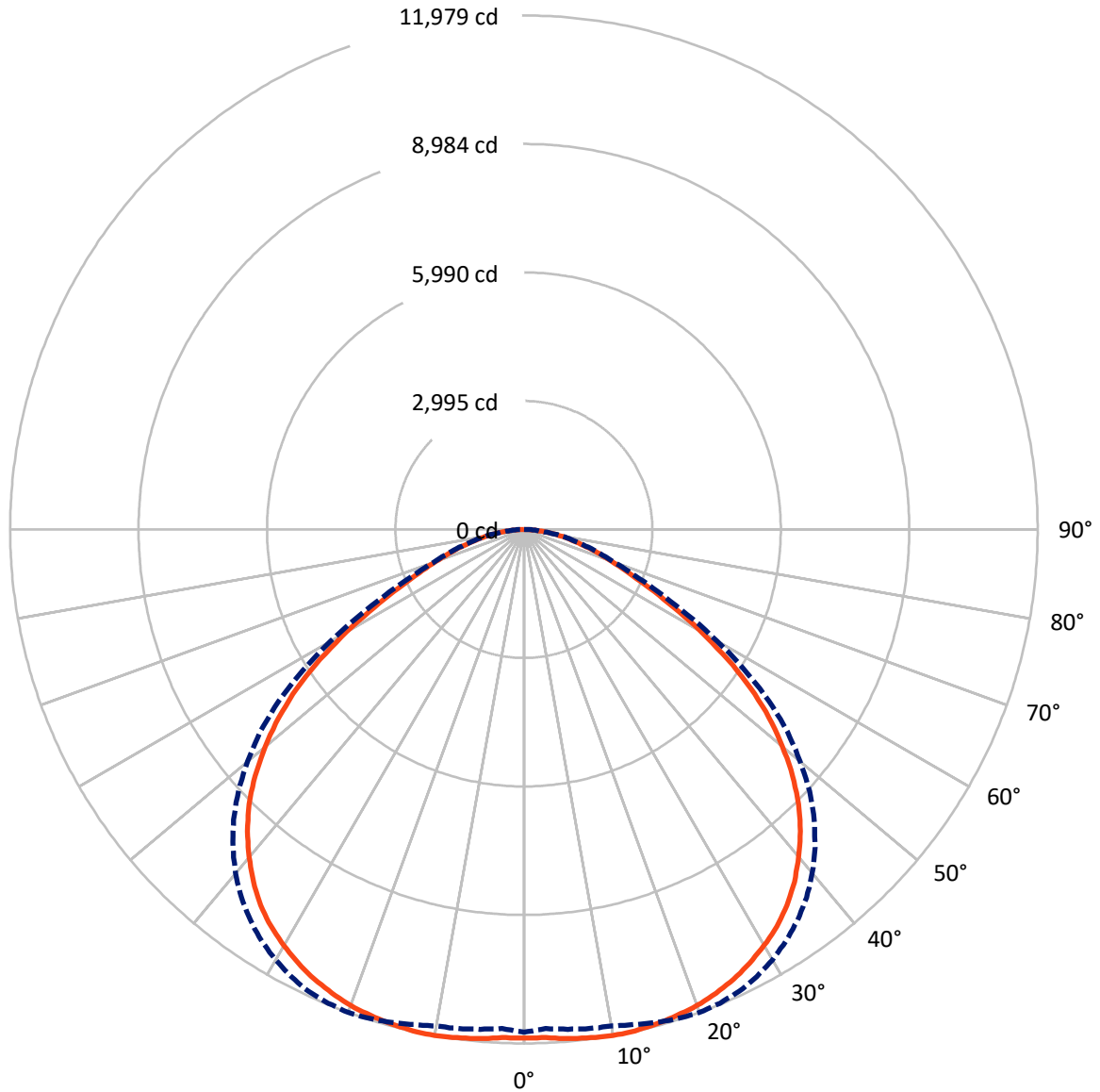
### Iso-Candela Plot





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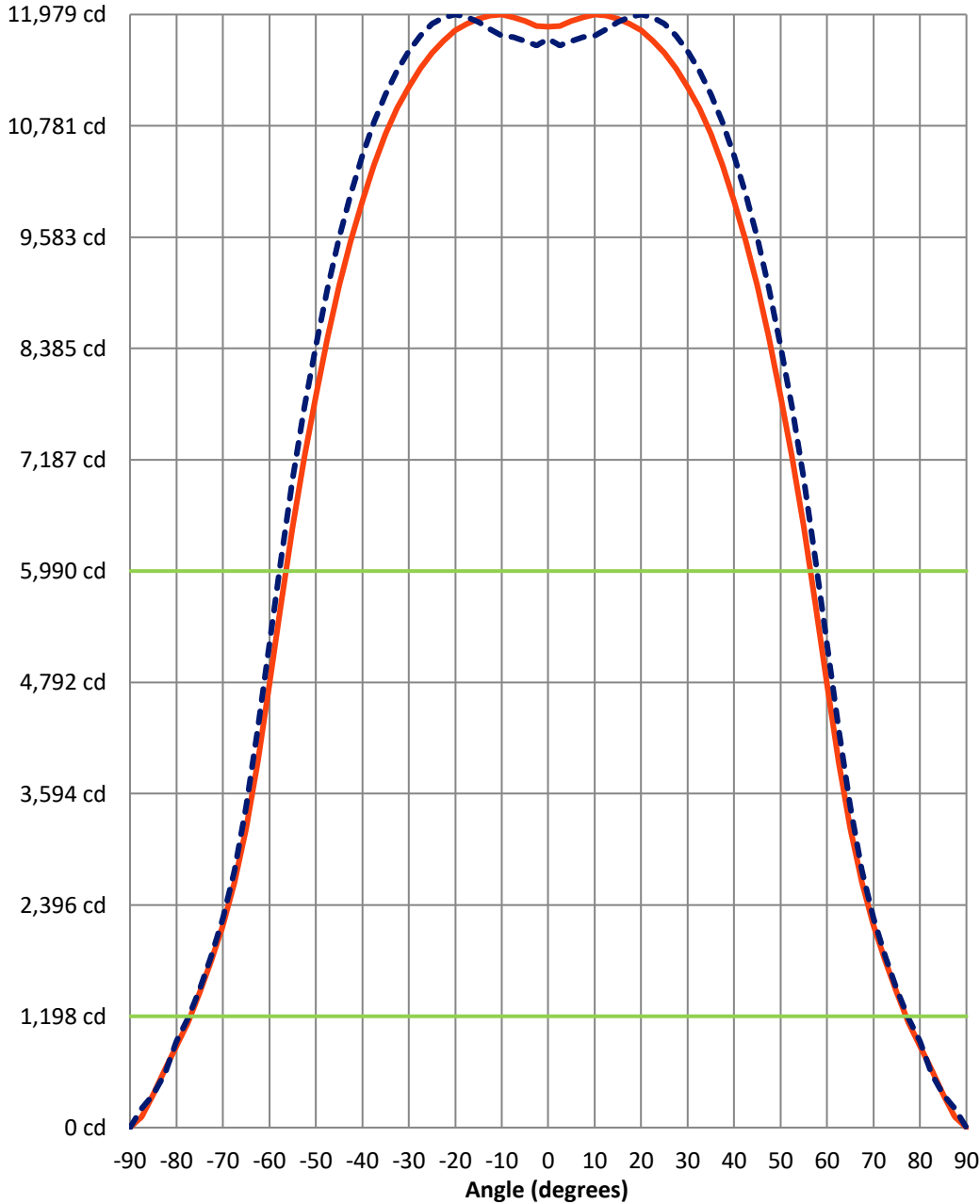
### Luminous Intensity Polar Plot



— 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: 22550.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 27034.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 9715.8  
 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°	96.7	104.4	108.3	112.1	116.0	119.9	123.7	119.9	116.0	116.0	112.1
85°	259.1	266.8	270.7	297.7	324.8	340.3	359.6	355.7	355.7	351.9	348.0
82.5°	518.1	541.3	560.7	587.7	603.2	626.4	641.9	630.3	622.5	607.1	595.5
80°	920.3	928.0	931.9	935.7	916.4	912.5	904.8	893.2	877.7	858.4	839.1
77.5°	1171.6	1179.3	1187.1	1179.3	1175.5	1171.6	1160.0	1148.4	1132.9	1117.5	1094.3
75°	1550.6	1550.6	1550.6	1539.0	1531.2	1519.6	1500.3	1481.0	1453.9	1423.0	1388.2
72.5°	1952.7	1948.8	1945.0	1921.8	1902.4	1879.2	1852.2	1829.0	1798.0	1763.2	1716.8
70°	2374.2	2381.9	2385.8	2354.8	2331.6	2300.7	2265.9	2223.4	2177.0	2126.7	2061.0
67.5°	2954.2	2946.4	2938.7	2896.2	2865.2	2822.7	2772.4	2710.6	2641.0	2563.6	2470.8
65°	3673.4	3685.0	3661.8	3619.3	3561.2	3491.6	3414.3	3325.4	3221.0	3105.0	2973.5
62.5°	4543.4	4562.7	4535.7	4481.5	4408.1	4315.3	4207.0	4079.4	3936.3	3773.9	3611.5
60°	5533.3	5529.4	5479.1	5405.7	5309.0	5193.0	5073.1	4933.9	4771.5	4582.1	4384.9
57.5°	6442.0	6434.2	6372.4	6298.9	6202.2	6078.5	5950.9	5803.9	5633.8	5432.7	5204.6
55°	7257.8	7250.1	7188.2	7110.9	7010.4	6886.6	6770.6	6631.4	6465.2	6252.5	6008.9
52.5°	7980.9	7984.8	7930.6	7845.6	7737.3	7617.4	7505.3	7366.1	7207.6	6994.9	6759.0
50°	8646.0	8642.1	8584.1	8506.8	8406.2	8290.2	8178.1	8038.9	7872.6	7667.7	7439.6
47.5°	9264.7	9256.9	9191.2	9106.1	9001.7	8901.2	8796.8	8673.1	8499.1	8294.1	8066.0
45°	9782.8	9767.3	9701.6	9620.4	9519.9	9430.9	9338.1	9245.3	9059.7	8870.3	8653.7
42.5°	10227.5	10223.6	10157.9	10076.7	9976.1	9898.8	9813.7	9697.7	9543.1	9369.1	9156.4
40°	10652.8	10621.9	10556.1	10478.8	10386.0	10320.3	10235.2	10119.2	9968.4	9798.3	9593.3
37.5°	10969.9	10973.8	10904.2	10819.1	10737.9	10676.0	10598.7	10490.4	10358.9	10192.7	9987.7
35°	11271.5	11252.2	11194.2	11120.7	11047.2	10977.6	10896.4	10803.6	10695.3	10540.7	10347.3
32.5°	11468.7	11495.8	11426.2	11348.8	11306.3	11252.2	11167.1	11070.4	10973.8	10819.1	10645.1
30°	11685.2	11662.0	11607.9	11542.2	11511.2	11476.4	11403.0	11310.2	11198.0	11058.8	10896.4
27.5°	11836.0	11824.4	11758.7	11696.8	11681.4	11650.4	11592.4	11511.2	11399.1	11263.8	11113.0
25°	11901.8	11909.5	11847.6	11812.8	11812.8	11793.5	11747.1	11677.5	11565.4	11441.6	11294.7
22.5°	11932.7	11925.0	11882.4	11874.7	11894.0	11878.6	11859.2	11797.4	11696.8	11596.3	11472.6
20°	11952.0	11897.9	11859.2	11890.2	11913.4	11909.5	11894.0	11855.4	11809.0	11723.9	11615.6
17.5°	11909.5	11874.7	11828.3	11874.7	11925.0	11928.8	11913.4	11890.2	11878.6	11824.4	11727.8
15°	11805.1	11778.0	11785.8	11832.2	11890.2	11909.5	11921.1	11948.2	11932.7	11890.2	11805.1
12.5°	11735.5	11700.7	11735.5	11781.9	11812.8	11824.4	11917.2	11967.5	11967.5	11928.8	11874.7
10°	11716.2	11646.6	11693.0	11735.5	11751.0	11820.6	11897.9	11952.0	11979.1	11948.2	11878.6
7.5°	11677.5	11631.1	11650.4	11669.8	11758.7	11809.0	11851.5	11909.5	11948.2	11944.3	11882.4
5°	11658.2	11600.2	11607.9	11689.1	11751.0	11785.8	11801.2	11851.5	11909.5	11921.1	11874.7
2.5°	11607.9	11580.8	11638.8	11646.6	11693.0	11720.0	11735.5	11781.9	11855.4	11882.4	11863.1
0°	11580.8	11542.2	11503.5	11534.4	11611.8	11669.8	11693.0	11762.6	11847.6	11874.7	11832.2



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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°	108.3	104.4	100.5	96.7	100.5	100.5	100.5	96.7	100.5	96.7	96.7
85°	336.4	320.9	309.3	293.9	278.4	266.8	251.3	235.9	232.0	228.1	220.4
82.5°	580.0	560.7	541.3	518.1	494.9	467.9	440.8	409.9	402.1	394.4	382.8
80°	815.9	788.8	761.7	734.7	711.5	684.4	653.5	618.7	595.5	576.1	552.9
77.5°	1063.3	1024.7	986.0	939.6	912.5	885.5	854.5	819.7	784.9	754.0	719.2
75°	1345.6	1303.1	1264.4	1218.0	1167.7	1117.5	1067.2	1020.8	970.5	924.1	877.7
72.5°	1658.8	1597.0	1535.1	1477.1	1415.2	1353.4	1287.6	1225.8	1163.9	1102.0	1036.3
70°	1987.5	1910.2	1832.8	1755.5	1674.3	1593.1	1515.8	1438.4	1361.1	1279.9	1206.4
67.5°	2374.2	2285.2	2184.7	2076.4	1956.6	1852.2	1751.6	1658.8	1566.0	1473.2	1380.4
65°	2857.5	2733.8	2598.4	2451.5	2312.3	2173.1	2026.2	1887.0	1778.7	1670.4	1566.0
62.5°	3453.0	3279.0	3089.5	2900.0	2729.9	2548.2	2378.0	2196.3	2026.2	1871.5	1743.9
60°	4164.5	3928.6	3696.6	3453.0	3217.1	2969.6	2753.1	2528.8	2316.2	2126.7	1941.1
57.5°	4949.4	4674.9	4396.5	4098.7	3777.8	3487.8	3193.9	2900.0	2648.7	2397.4	2188.6
55°	5745.9	5455.9	5142.7	4806.3	4454.5	4083.3	3685.0	3356.3	3012.2	2718.3	2447.6
52.5°	6503.8	6202.2	5877.4	5568.1	5146.6	4721.3	4284.3	3851.3	3449.1	3074.0	2745.4
50°	7180.5	6886.6	6573.4	6213.8	5823.3	5370.9	4883.7	4396.5	3920.9	3480.0	3070.2
47.5°	7799.2	7513.0	7199.8	6840.2	6484.5	5981.8	5490.7	4953.3	4423.5	3917.0	3437.5
45°	8379.2	8089.2	7764.4	7420.2	7010.4	6561.8	6055.3	5513.9	4945.5	4377.1	3824.2
42.5°	8905.1	8615.1	8286.4	7930.6	7524.6	7080.0	6588.9	6043.7	5471.4	4852.7	4245.7
40°	9365.2	9082.9	8765.9	8394.6	8015.7	7547.8	7064.5	6546.4	5954.7	5332.2	4663.3
37.5°	9767.3	9504.4	9191.2	8823.9	8421.7	8004.1	7505.3	6987.2	6453.6	5776.9	5092.5
35°	10123.1	9879.5	9558.5	9210.5	8816.1	8375.3	7907.4	7400.9	6824.8	6190.6	5525.5
32.5°	10432.4	10184.9	9891.1	9543.1	9160.3	8746.5	8267.0	7756.6	7211.4	6565.7	5842.6
30°	10695.3	10455.6	10177.2	9848.5	9481.2	9071.3	8603.5	8089.2	7532.4	6890.5	6175.2
27.5°	10923.5	10695.3	10424.7	10119.2	9767.3	9372.9	8901.2	8383.0	7814.6	7196.0	6480.6
25°	11120.7	10900.3	10648.9	10358.9	10010.9	9624.3	9179.6	8638.3	8069.8	7447.3	6739.7
22.5°	11298.6	11085.9	10834.6	10552.3	10235.2	9848.5	9400.0	8862.5	8286.4	7671.6	6975.6
20°	11457.1	11259.9	11012.4	10722.4	10405.3	10014.8	9570.1	9059.7	8479.7	7876.5	7188.2
17.5°	11584.7	11410.7	11163.2	10857.8	10540.7	10161.7	9728.7	9260.8	8646.0	8050.5	7366.1
15°	11673.6	11503.5	11279.2	10969.9	10660.5	10285.5	9852.4	9369.1	8796.8	8189.7	7513.0
12.5°	11735.5	11553.8	11345.0	11058.8	10749.5	10378.3	9956.8	9481.2	8924.4	8313.4	7640.6
10°	11751.0	11584.7	11375.9	11120.7	10819.1	10459.5	10045.7	9574.0	9028.8	8410.1	7745.0
7.5°	11758.7	11600.2	11410.7	11167.1	10869.4	10521.3	10111.5	9647.5	9106.1	8491.3	7822.4
5°	11754.8	11604.0	11433.9	11198.0	10900.3	10556.1	10154.0	9697.7	9160.3	8545.5	7880.4
2.5°	11743.2	11607.9	11449.4	11221.2	10935.1	10594.8	10196.5	9755.7	9218.3	8591.9	7926.8
0°	11774.2	11658.2	11457.1	11213.5	10942.8	10594.8	10192.7	9763.5	9226.0	8588.0	7922.9





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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°	96.7	92.8	92.8	88.9	85.1	81.2	73.5	69.6	61.9	50.3	38.7
85°	208.8	197.2	185.6	177.9	170.1	162.4	150.8	139.2	123.7	100.5	77.3
82.5°	367.3	344.1	320.9	293.9	270.7	247.5	228.1	208.8	185.6	150.8	116.0
80°	525.9	491.1	456.3	417.6	382.8	344.1	309.3	278.4	247.5	201.1	154.7
77.5°	684.4	638.0	587.7	541.3	491.1	440.8	390.5	348.0	301.6	247.5	193.3
75°	831.3	777.2	730.8	665.1	603.2	537.5	471.7	413.7	355.7	290.0	232.0
72.5°	978.3	908.7	842.9	781.1	711.5	630.3	556.8	483.3	409.9	332.5	262.9
70°	1125.2	1040.1	958.9	885.5	808.1	726.9	638.0	552.9	464.0	371.2	290.0
67.5°	1276.0	1179.3	1086.5	993.7	904.8	812.0	719.2	622.5	518.1	409.9	320.9
65°	1442.3	1322.4	1210.3	1105.9	1001.5	900.9	796.5	692.1	576.1	452.4	348.0
62.5°	1608.6	1477.1	1345.6	1214.2	1098.1	986.0	873.9	757.9	630.3	498.8	375.1
60°	1786.4	1635.6	1484.8	1337.9	1194.8	1071.1	947.3	823.6	688.3	541.3	402.1
57.5°	1983.6	1801.9	1631.8	1465.5	1303.1	1156.1	1020.8	889.3	738.5	583.9	433.1
55°	2207.9	1983.6	1782.6	1597.0	1419.1	1241.2	1094.3	958.9	796.5	626.4	467.9
52.5°	2443.8	2184.7	1941.1	1732.3	1542.8	1341.8	1163.9	1013.1	854.5	668.9	498.8
50°	2718.3	2389.6	2119.0	1863.8	1651.1	1442.3	1237.4	1074.9	912.5	719.2	529.7
47.5°	3000.6	2637.1	2296.8	2018.4	1767.1	1539.0	1322.4	1129.1	966.7	765.6	560.7
45°	3329.2	2873.0	2497.9	2169.2	1879.2	1639.5	1407.5	1187.1	1013.1	812.0	591.6
42.5°	3646.3	3151.4	2706.7	2335.5	2006.8	1736.2	1484.8	1249.0	1059.5	858.4	618.7
40°	4021.4	3429.8	2907.8	2494.0	2134.4	1829.0	1562.2	1314.7	1102.0	900.9	645.7
37.5°	4381.0	3712.1	3151.4	2668.0	2258.2	1921.8	1639.5	1376.6	1140.7	943.5	680.5
35°	4736.7	4025.3	3383.4	2830.4	2385.8	2026.2	1716.8	1434.6	1179.3	978.3	711.5
32.5°	5077.0	4319.1	3619.3	3012.2	2525.0	2122.8	1786.4	1488.7	1218.0	1009.2	742.4
30°	5394.1	4597.5	3851.3	3197.8	2652.6	2211.8	1852.2	1542.8	1264.4	1036.3	773.3
27.5°	5684.1	4868.2	4083.3	3371.8	2772.4	2293.0	1921.8	1593.1	1303.1	1063.3	800.4
25°	5947.0	5111.8	4295.9	3530.3	2880.7	2381.9	1987.5	1643.4	1337.9	1086.5	823.6
22.5°	6194.5	5336.1	4489.3	3688.9	3012.2	2470.8	2049.4	1689.8	1372.7	1109.7	846.8
20°	6411.0	5541.0	4674.9	3847.4	3128.2	2552.0	2103.5	1732.3	1403.6	1125.2	870.0
17.5°	6585.0	5722.7	4841.1	3986.6	3228.7	2621.6	2149.9	1771.0	1430.7	1144.5	885.5
15°	6739.7	5877.4	4980.3	4106.5	3317.6	2679.6	2192.4	1801.9	1453.9	1156.1	904.8
12.5°	6871.2	6008.9	5100.2	4210.9	3395.0	2729.9	2227.2	1825.1	1473.2	1167.7	916.4
10°	6979.4	6113.3	5200.7	4292.1	3456.8	2768.6	2254.3	1848.3	1488.7	1179.3	928.0
7.5°	7060.6	6190.6	5274.2	4361.7	3507.1	2795.6	2277.5	1863.8	1504.2	1187.1	947.3
5°	7122.5	6256.4	5332.2	4408.1	3545.8	2834.3	2304.6	1883.1	1519.6	1194.8	947.3
2.5°	7168.9	6310.5	5378.6	4446.7	3576.7	2826.6	2304.6	1879.2	1519.6	1194.8	943.5
0°	7161.2	6314.4	5374.7	4446.7	3576.7	2818.8	2304.6	1875.4	1519.6	1194.8	943.5



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.1	19.3	7.7	0.0
85°	58.0	38.7	19.3	0.0
82.5°	85.1	54.1	27.1	0.0
80°	112.1	73.5	34.8	0.0
77.5°	143.1	92.8	46.4	0.0
75°	170.1	108.3	54.1	0.0
72.5°	197.2	127.6	61.9	0.0
70°	220.4	143.1	69.6	0.0
67.5°	243.6	162.4	81.2	0.0
65°	262.9	177.9	88.9	0.0
62.5°	278.4	197.2	96.7	0.0
60°	297.7	212.7	104.4	0.0
57.5°	313.2	224.3	112.1	0.0
55°	328.7	232.0	119.9	0.0
52.5°	344.1	243.6	127.6	0.0
50°	359.6	255.2	135.3	0.0
47.5°	375.1	262.9	139.2	0.0
45°	398.3	274.5	146.9	0.0
42.5°	417.6	282.3	154.7	0.0
40°	436.9	290.0	158.5	0.0
37.5°	456.3	297.7	166.3	0.0
35°	475.6	305.5	170.1	0.0
32.5°	491.1	313.2	174.0	0.0
30°	506.5	320.9	177.9	0.0
27.5°	522.0	324.8	181.7	0.0
25°	533.6	332.5	185.6	0.0
22.5°	545.2	336.4	189.5	0.0
20°	552.9	340.3	193.3	0.0
17.5°	564.5	344.1	197.2	0.0
15°	568.4	348.0	204.9	0.0
12.5°	576.1	351.9	204.9	0.0
10°	580.0	355.7	204.9	0.0
7.5°	587.7	355.7	204.9	0.0
5°	583.9	355.7	204.9	0.0
2.5°	583.9	355.7	204.9	0.0
0°	580.0	355.7	204.9	0.0

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