

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: P628207

Luminaire Tested: **IFLD-L-SA8D-727-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628207  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-727-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	47981.8 lumens	Max Intensity:	15640.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

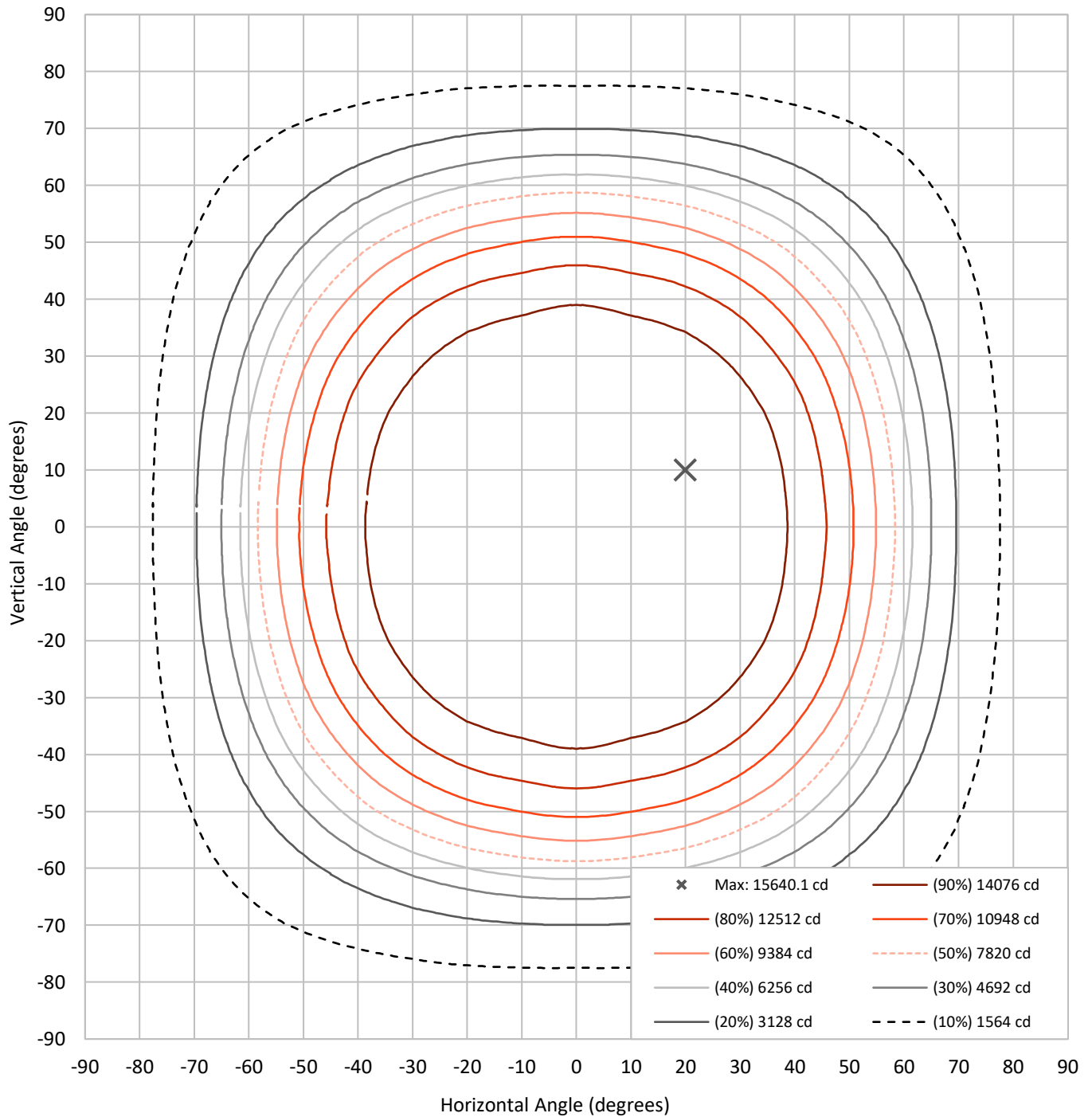
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	29442.6 lumens	Field Lumens:	35296.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 488.3  
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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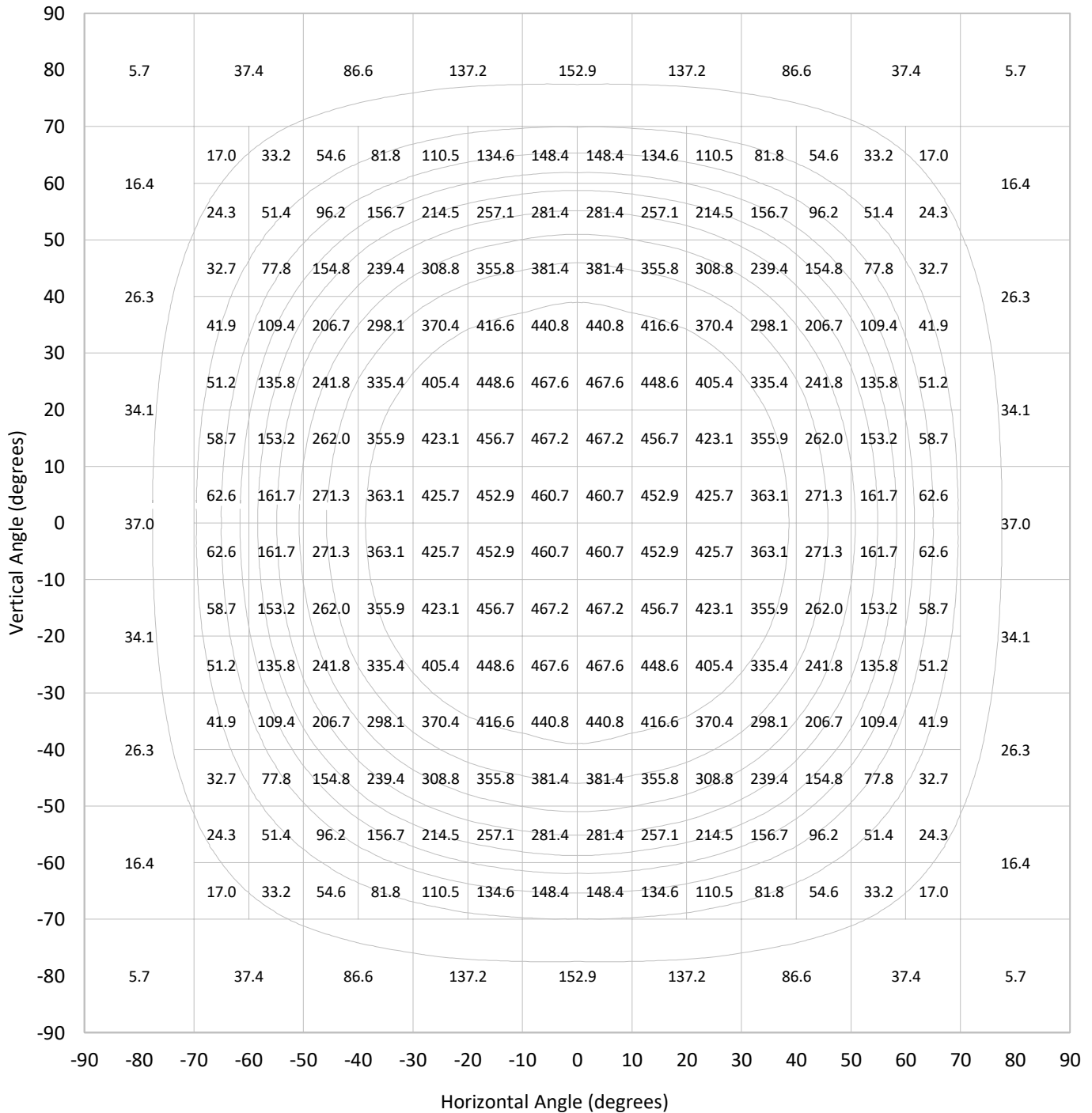
### Iso-Candela Plot





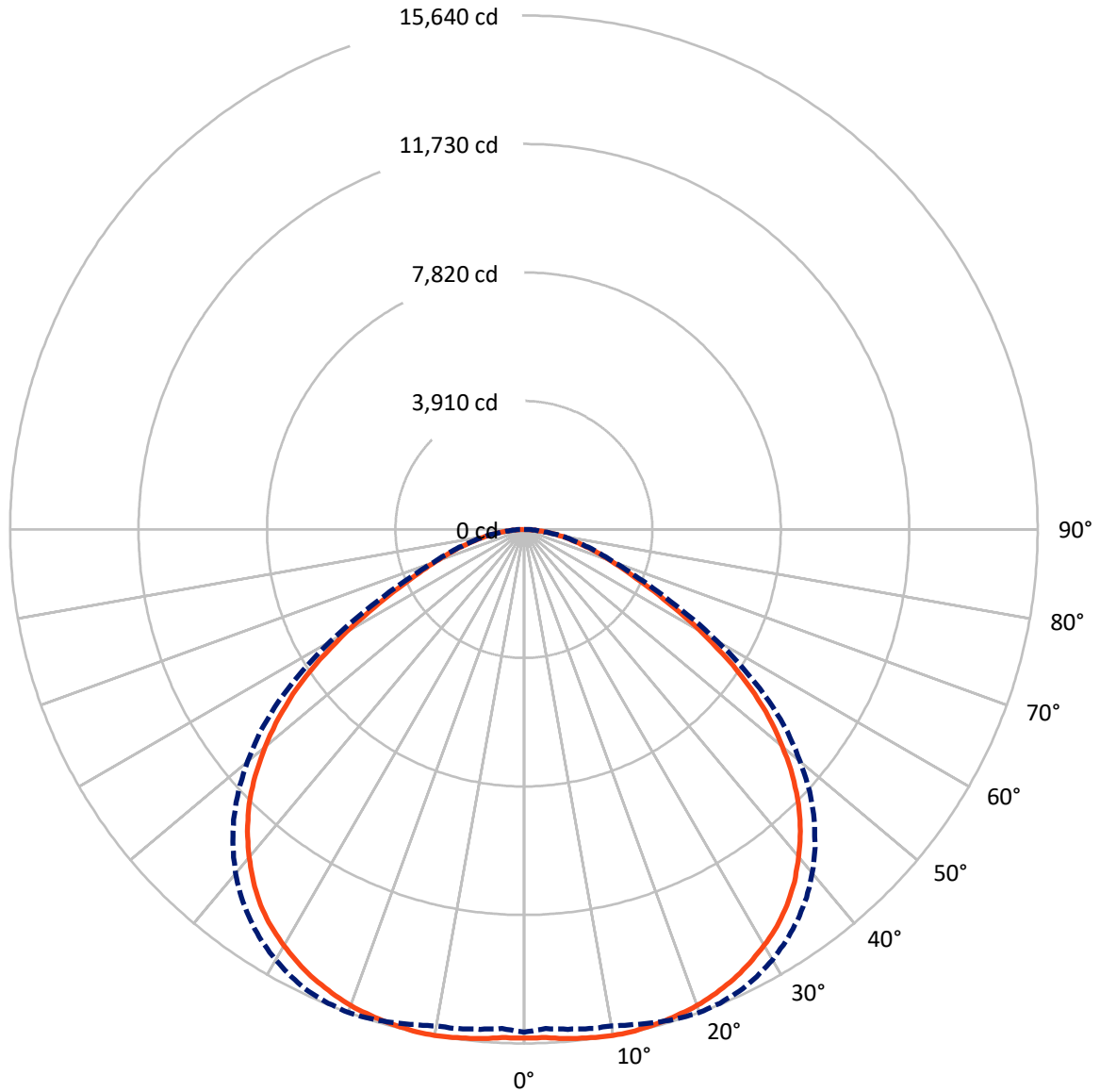
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### Lumen Table



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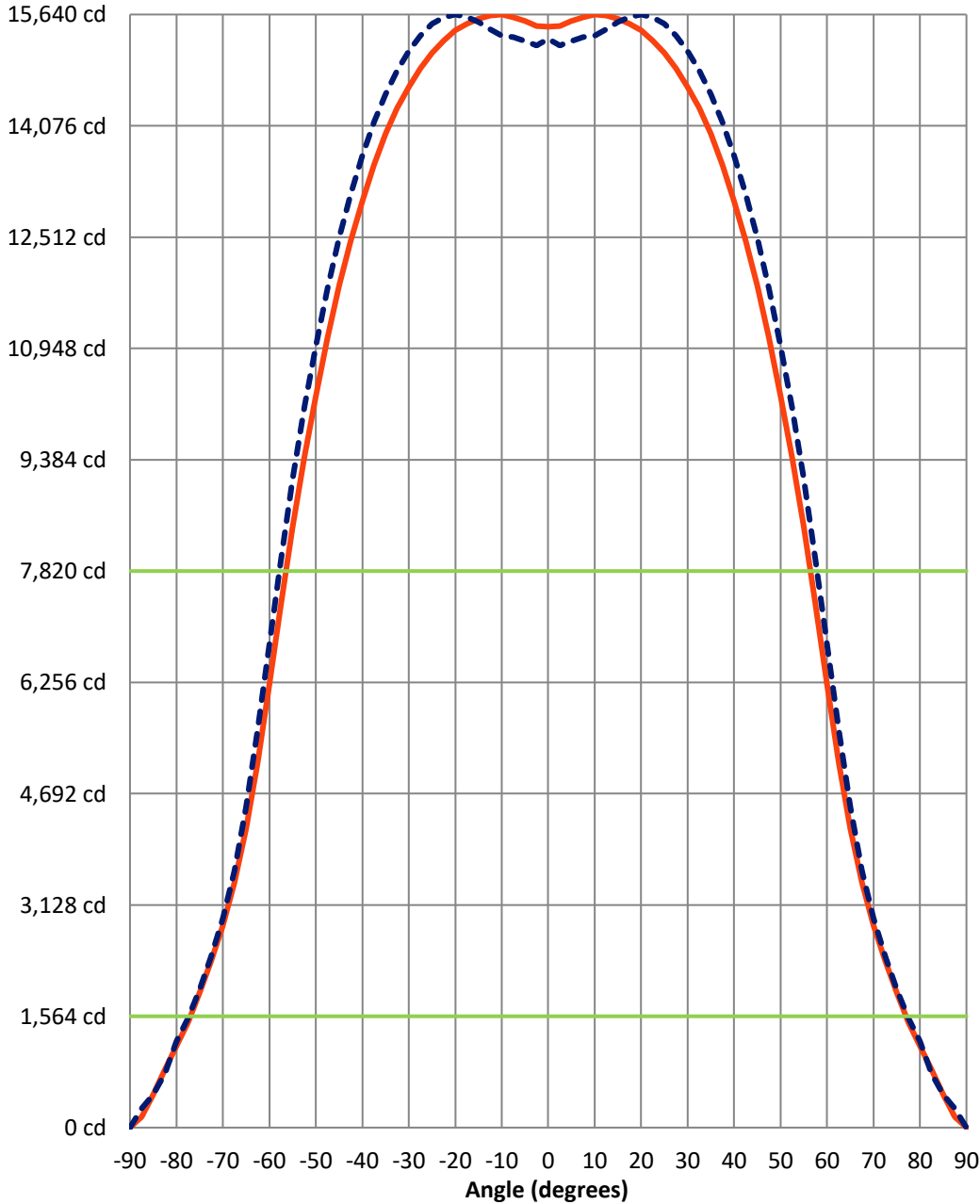
### Luminous Intensity Polar Plot



— 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: 29442.6  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 35296.7  
Efficiency: 73.6%

**Spill:**  
Lumens: 12685.1  
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°	126.2	136.3	141.4	146.4	151.5	156.5	161.6	156.5	151.5	151.5	146.4
85°	338.2	348.3	353.4	388.7	424.1	444.3	469.5	464.5	464.5	459.4	454.4
82.5°	676.5	706.8	732.0	767.4	787.6	817.9	838.0	822.9	812.8	792.6	777.5
80°	1201.5	1211.6	1216.7	1221.7	1196.5	1191.4	1181.3	1166.2	1146.0	1120.8	1095.5
77.5°	1529.7	1539.8	1549.9	1539.8	1534.7	1529.7	1514.5	1499.4	1479.2	1459.0	1428.7
75°	2024.4	2024.4	2024.4	2009.3	1999.2	1984.0	1958.8	1933.6	1898.2	1857.8	1812.4
72.5°	2549.5	2544.4	2539.4	2509.1	2483.8	2453.6	2418.2	2387.9	2347.5	2302.1	2241.5
70°	3099.8	3109.9	3114.9	3074.5	3044.2	3003.8	2958.4	2902.9	2842.3	2776.7	2690.8
67.5°	3857.0	3846.9	3836.8	3781.3	3740.9	3685.4	3619.7	3539.0	3448.1	3347.1	3226.0
65°	4796.0	4811.2	4780.9	4725.4	4649.6	4558.8	4457.8	4341.7	4205.4	4053.9	3882.3
62.5°	5931.9	5957.2	5921.8	5851.2	5755.2	5634.1	5492.7	5326.1	5139.3	4927.3	4715.3
60°	7224.3	7219.3	7153.7	7057.7	6931.5	6780.1	6623.6	6441.8	6229.8	5982.4	5725.0
57.5°	8410.7	8400.6	8319.9	8223.9	8097.7	7936.2	7769.6	7577.7	7355.6	7093.1	6795.2
55°	9476.0	9465.9	9385.1	9284.1	9152.9	8991.3	8839.9	8658.1	8441.0	8163.4	7845.3
52.5°	10420.0	10425.1	10354.4	10243.3	10102.0	9945.5	9799.1	9617.3	9410.3	9132.7	8824.7
50°	11288.4	11283.3	11207.6	11106.6	10975.3	10823.9	10677.5	10495.7	10278.7	10011.1	9713.2
47.5°	12096.1	12086.0	12000.2	11889.1	11752.8	11621.6	11485.2	11323.7	11096.5	10828.9	10531.1
45°	12772.6	12752.4	12666.6	12560.6	12429.3	12313.2	12192.0	12070.9	11828.5	11581.2	11298.4
42.5°	13353.2	13348.1	13262.3	13156.3	13025.0	12924.1	12813.0	12661.5	12459.6	12232.4	11954.7
40°	13908.5	13868.1	13782.3	13681.3	13560.2	13474.3	13363.3	13211.8	13014.9	12792.8	12525.2
37.5°	14322.5	14327.5	14236.7	14125.6	14019.6	13938.8	13837.8	13696.5	13524.8	13307.7	13040.2
35°	14716.3	14691.0	14615.3	14519.4	14423.4	14332.6	14226.6	14105.4	13964.0	13762.1	13509.7
32.5°	14973.7	15009.1	14918.2	14817.2	14761.7	14691.0	14579.9	14453.7	14327.5	14125.6	13898.4
30°	15256.4	15226.1	15155.5	15069.6	15029.3	14983.8	14887.9	14766.7	14620.3	14438.6	14226.6
27.5°	15453.3	15438.2	15352.4	15271.6	15251.4	15211.0	15135.3	15029.3	14882.9	14706.2	14509.3
25°	15539.2	15549.3	15468.5	15423.0	15423.0	15397.8	15337.2	15246.3	15099.9	14938.4	14746.5
22.5°	15579.5	15569.4	15513.9	15503.8	15529.1	15508.9	15483.6	15402.8	15271.6	15140.3	14978.8
20°	15604.8	15534.1	15483.6	15524.0	15554.3	15549.3	15529.1	15478.6	15418.0	15306.9	15165.6
17.5°	15549.3	15503.8	15443.2	15503.8	15569.4	15574.5	15554.3	15524.0	15508.9	15438.2	15312.0
15°	15412.9	15377.6	15387.7	15448.3	15524.0	15549.3	15564.4	15599.7	15579.5	15524.0	15412.9
12.5°	15322.1	15276.6	15322.1	15382.7	15423.0	15438.2	15559.3	15625.0	15625.0	15574.5	15503.8
10°	15296.8	15206.0	15266.5	15322.1	15342.3	15433.1	15534.1	15604.8	15640.1	15599.7	15508.9
7.5°	15246.3	15185.8	15211.0	15236.2	15352.4	15418.0	15473.5	15549.3	15599.7	15594.7	15513.9
5°	15221.1	15145.4	15155.5	15261.5	15342.3	15387.7	15407.9	15473.5	15549.3	15564.4	15503.8
2.5°	15155.5	15120.1	15195.9	15206.0	15266.5	15301.9	15322.1	15382.7	15478.6	15513.9	15488.7
0°	15120.1	15069.6	15019.2	15059.6	15160.5	15236.2	15266.5	15357.4	15468.5	15503.8	15448.3



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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°	141.4	136.3	131.3	126.2	131.3	131.3	131.3	126.2	131.3	126.2	126.2
85°	439.2	419.0	403.9	383.7	363.5	348.3	328.1	308.0	302.9	297.9	287.8
82.5°	757.3	732.0	706.8	676.5	646.2	610.9	575.5	535.1	525.0	514.9	499.8
80°	1065.2	1029.9	994.5	959.2	928.9	893.6	853.2	807.8	777.5	752.2	721.9
77.5°	1388.3	1337.8	1287.4	1226.8	1191.4	1156.1	1115.7	1070.3	1024.8	984.4	939.0
75°	1756.9	1701.3	1650.8	1590.3	1524.6	1459.0	1393.4	1332.8	1267.2	1206.6	1146.0
72.5°	2165.8	2085.0	2004.2	1928.5	1847.7	1767.0	1681.1	1600.4	1519.6	1438.8	1353.0
70°	2594.9	2493.9	2393.0	2292.0	2186.0	2080.0	1979.0	1878.0	1777.1	1671.0	1575.1
67.5°	3099.8	2983.6	2852.4	2711.0	2554.5	2418.2	2287.0	2165.8	2044.6	1923.5	1802.3
65°	3730.8	3569.3	3392.6	3200.7	3019.0	2837.2	2645.4	2463.6	2322.3	2180.9	2044.6
62.5°	4508.3	4281.1	4033.7	3786.3	3564.2	3326.9	3104.8	2867.5	2645.4	2443.5	2276.9
60°	5437.2	5129.2	4826.3	4508.3	4200.3	3877.2	3594.5	3301.7	3024.0	2776.7	2534.3
57.5°	6462.0	6103.6	5740.1	5351.4	4932.3	4553.7	4170.0	3786.3	3458.2	3130.0	2857.4
55°	7502.0	7123.4	6714.4	6275.2	5815.8	5331.2	4811.2	4382.1	3932.7	3549.1	3195.7
52.5°	8491.5	8097.7	7673.7	7269.8	6719.5	6164.2	5593.7	5028.3	4503.2	4013.5	3584.4
50°	9375.0	8991.3	8582.4	8112.9	7603.0	7012.3	6376.2	5740.1	5119.1	4543.6	4008.5
47.5°	10182.7	9809.2	9400.2	8930.7	8466.3	7810.0	7168.8	6467.1	5775.4	5114.1	4488.1
45°	10940.0	10561.4	10137.3	9688.0	9152.9	8567.2	7905.9	7199.1	6457.0	5714.9	4992.9
42.5°	11626.6	11248.0	10818.8	10354.4	9824.3	9243.7	8602.6	7890.7	7143.6	6335.8	5543.2
40°	12227.4	11858.8	11444.9	10960.2	10465.5	9854.6	9223.5	8547.0	7774.6	6961.8	6088.4
37.5°	12752.4	12409.1	12000.2	11520.6	10995.5	10450.3	9799.1	9122.6	8425.9	7542.4	6648.8
35°	13216.9	12898.8	12479.8	12025.4	11510.5	10935.0	10324.1	9662.7	8910.5	8082.6	7214.2
32.5°	13620.7	13297.6	12914.0	12459.6	11959.8	11419.6	10793.6	10127.2	9415.4	8572.3	7628.2
30°	13964.0	13651.0	13287.5	12858.4	12378.8	11843.7	11232.8	10561.4	9834.4	8996.4	8062.4
27.5°	14261.9	13964.0	13610.6	13211.8	12752.4	12237.5	11621.6	10945.1	10202.9	9395.2	8461.2
25°	14519.4	14231.6	13903.5	13524.8	13070.5	12565.6	11985.0	11278.3	10536.1	9723.3	8799.5
22.5°	14751.6	14473.9	14145.8	13777.2	13363.3	12858.4	12272.8	11571.1	10818.8	10016.1	9107.4
20°	14958.6	14701.1	14378.0	13999.4	13585.4	13075.5	12494.9	11828.5	11071.3	10283.7	9385.1
17.5°	15125.2	14898.0	14574.9	14176.1	13762.1	13267.3	12701.9	12091.1	11288.4	10510.9	9617.3
15°	15241.3	15019.2	14726.4	14322.5	13918.6	13428.9	12863.5	12232.4	11485.2	10692.6	9809.2
12.5°	15322.1	15084.8	14812.2	14438.6	14034.7	13550.1	12999.8	12378.8	11651.8	10854.2	9975.8
10°	15342.3	15125.2	14852.6	14519.4	14125.6	13656.1	13115.9	12500.0	11788.1	10980.4	10112.1
7.5°	15352.4	15145.4	14898.0	14579.9	14191.2	13736.9	13201.7	12595.9	11889.1	11086.4	10213.0
5°	15347.3	15150.4	14928.3	14620.3	14231.6	13782.3	13257.3	12661.5	11959.8	11157.1	10288.8
2.5°	15332.2	15155.5	14948.5	14650.6	14277.0	13832.8	13312.8	12737.3	12035.5	11217.7	10349.3
0°	15372.6	15221.1	14958.6	14640.5	14287.1	13832.8	13307.7	12747.4	12045.6	11212.6	10344.3





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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°	126.2	121.2	121.2	116.1	111.1	106.0	95.9	90.9	80.8	65.6	50.5
85°	272.6	257.5	242.3	232.2	222.1	212.0	196.9	181.7	161.6	131.3	101.0
82.5°	479.6	449.3	419.0	383.7	353.4	323.1	297.9	272.6	242.3	196.9	151.5
80°	686.6	641.2	595.7	545.2	499.8	449.3	403.9	363.5	323.1	262.5	201.9
77.5°	893.6	833.0	767.4	706.8	641.2	575.5	509.9	454.4	393.8	323.1	252.4
75°	1085.4	1014.7	954.2	868.3	787.6	701.7	615.9	540.2	464.5	378.6	302.9
72.5°	1277.3	1186.4	1100.6	1019.8	928.9	822.9	727.0	631.1	535.1	434.2	343.3
70°	1469.1	1358.0	1252.0	1156.1	1055.1	949.1	833.0	721.9	605.8	484.7	378.6
67.5°	1666.0	1539.8	1418.6	1297.5	1181.3	1060.2	939.0	812.8	676.5	535.1	419.0
65°	1883.1	1726.6	1580.2	1443.9	1307.6	1176.3	1040.0	903.7	752.2	590.7	454.4
62.5°	2100.2	1928.5	1756.9	1585.2	1433.8	1287.4	1141.0	989.5	822.9	651.3	489.7
60°	2332.4	2135.5	1938.6	1746.8	1560.0	1398.4	1236.9	1075.3	898.6	706.8	525.0
57.5°	2589.9	2352.6	2130.4	1913.4	1701.3	1509.5	1332.8	1161.1	964.3	762.3	565.4
55°	2882.7	2589.9	2327.3	2085.0	1852.8	1620.6	1428.7	1252.0	1040.0	817.9	610.9
52.5°	3190.6	2852.4	2534.3	2261.7	2014.3	1751.8	1519.6	1322.7	1115.7	873.4	651.3
50°	3549.1	3119.9	2766.6	2433.4	2155.7	1883.1	1615.5	1403.5	1191.4	939.0	691.6
47.5°	3917.6	3443.0	2998.8	2635.3	2307.1	2009.3	1726.6	1474.1	1262.1	999.6	732.0
45°	4346.7	3751.0	3261.3	2832.2	2453.6	2140.5	1837.6	1549.9	1322.7	1060.2	772.4
42.5°	4760.7	4114.5	3533.9	3049.3	2620.1	2266.8	1938.6	1630.7	1383.3	1120.8	807.8
40°	5250.4	4478.0	3796.4	3256.3	2786.7	2387.9	2039.6	1716.5	1438.8	1176.3	843.1
37.5°	5719.9	4846.5	4114.5	3483.4	2948.3	2509.1	2140.5	1797.3	1489.3	1231.8	888.5
35°	6184.4	5255.4	4417.4	3695.5	3114.9	2645.4	2241.5	1873.0	1539.8	1277.3	928.9
32.5°	6628.6	5639.1	4725.4	3932.7	3296.6	2771.6	2332.4	1943.7	1590.3	1317.6	969.3
30°	7042.6	6002.6	5028.3	4175.1	3463.2	2887.7	2418.2	2014.3	1650.8	1353.0	1009.7
27.5°	7421.2	6356.0	5331.2	4402.3	3619.7	2993.7	2509.1	2080.0	1701.3	1388.3	1045.0
25°	7764.5	6674.1	5608.8	4609.2	3761.1	3109.9	2594.9	2145.6	1746.8	1418.6	1075.3
22.5°	8087.6	6966.9	5861.3	4816.2	3932.7	3226.0	2675.7	2206.2	1792.2	1448.9	1105.6
20°	8370.3	7234.4	6103.6	5023.2	4084.2	3332.0	2746.4	2261.7	1832.6	1469.1	1135.9
17.5°	8597.5	7471.7	6320.7	5205.0	4215.5	3422.9	2806.9	2312.2	1867.9	1494.3	1156.1
15°	8799.5	7673.7	6502.4	5361.5	4331.6	3498.6	2862.5	2352.6	1898.2	1509.5	1181.3
12.5°	8971.1	7845.3	6658.9	5497.8	4432.5	3564.2	2907.9	2382.9	1923.5	1524.6	1196.5
10°	9112.5	7981.6	6790.2	5603.8	4513.3	3614.7	2943.3	2413.2	1943.7	1539.8	1211.6
7.5°	9218.5	8082.6	6886.1	5694.7	4579.0	3650.0	2973.5	2433.4	1963.9	1549.9	1236.9
5°	9299.3	8168.4	6961.8	5755.2	4629.4	3700.5	3008.9	2458.6	1984.0	1560.0	1236.9
2.5°	9359.8	8239.1	7022.4	5805.7	4669.8	3690.4	3008.9	2453.6	1984.0	1560.0	1231.8
0°	9349.7	8244.1	7017.4	5805.7	4669.8	3680.3	3008.9	2448.5	1984.0	1560.0	1231.8



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	35.3	25.2	10.1	0.0
85°	75.7	50.5	25.2	0.0
82.5°	111.1	70.7	35.3	0.0
80°	146.4	95.9	45.4	0.0
77.5°	186.8	121.2	60.6	0.0
75°	222.1	141.4	70.7	0.0
72.5°	257.5	166.6	80.8	0.0
70°	287.8	186.8	90.9	0.0
67.5°	318.1	212.0	106.0	0.0
65°	343.3	232.2	116.1	0.0
62.5°	363.5	257.5	126.2	0.0
60°	388.7	277.7	136.3	0.0
57.5°	408.9	292.8	146.4	0.0
55°	429.1	302.9	156.5	0.0
52.5°	449.3	318.1	166.6	0.0
50°	469.5	333.2	176.7	0.0
47.5°	489.7	343.3	181.7	0.0
45°	520.0	358.4	191.8	0.0
42.5°	545.2	368.5	201.9	0.0
40°	570.5	378.6	207.0	0.0
37.5°	595.7	388.7	217.1	0.0
35°	621.0	398.8	222.1	0.0
32.5°	641.2	408.9	227.2	0.0
30°	661.3	419.0	232.2	0.0
27.5°	681.5	424.1	237.3	0.0
25°	696.7	434.2	242.3	0.0
22.5°	711.8	439.2	247.4	0.0
20°	721.9	444.3	252.4	0.0
17.5°	737.1	449.3	257.5	0.0
15°	742.1	454.4	267.6	0.0
12.5°	752.2	459.4	267.6	0.0
10°	757.3	464.5	267.6	0.0
7.5°	767.4	464.5	267.6	0.0
5°	762.3	464.5	267.6	0.0
2.5°	762.3	464.5	267.6	0.0
0°	757.3	464.5	267.6	0.0

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