

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: P628288

Luminaire Tested: **IFLD-L-SA7C-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628288  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

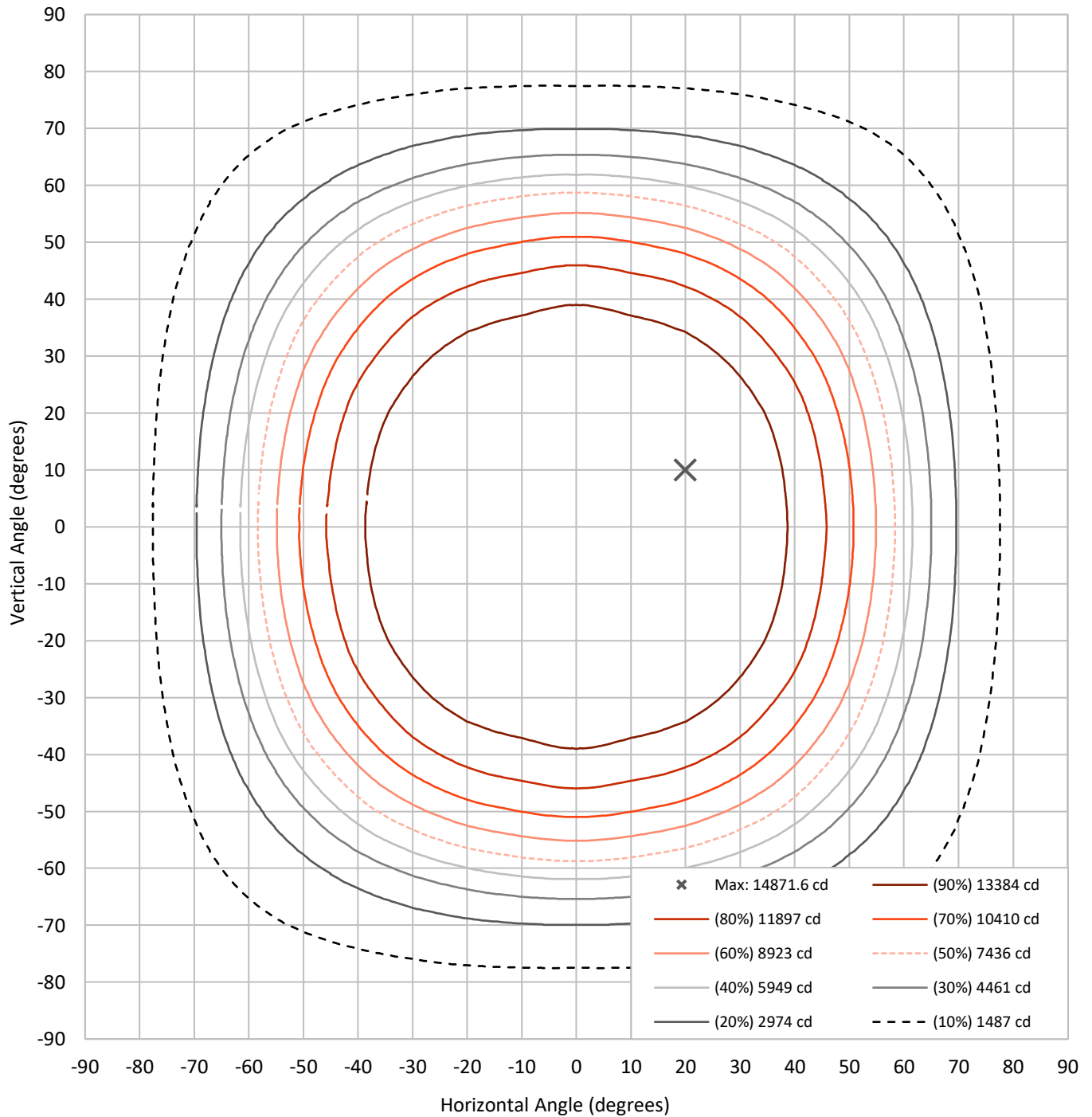
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	45624 lumens	Max Intensity:	14871.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	123.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	27995.9 lumens	Field Lumens:	33562.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369  
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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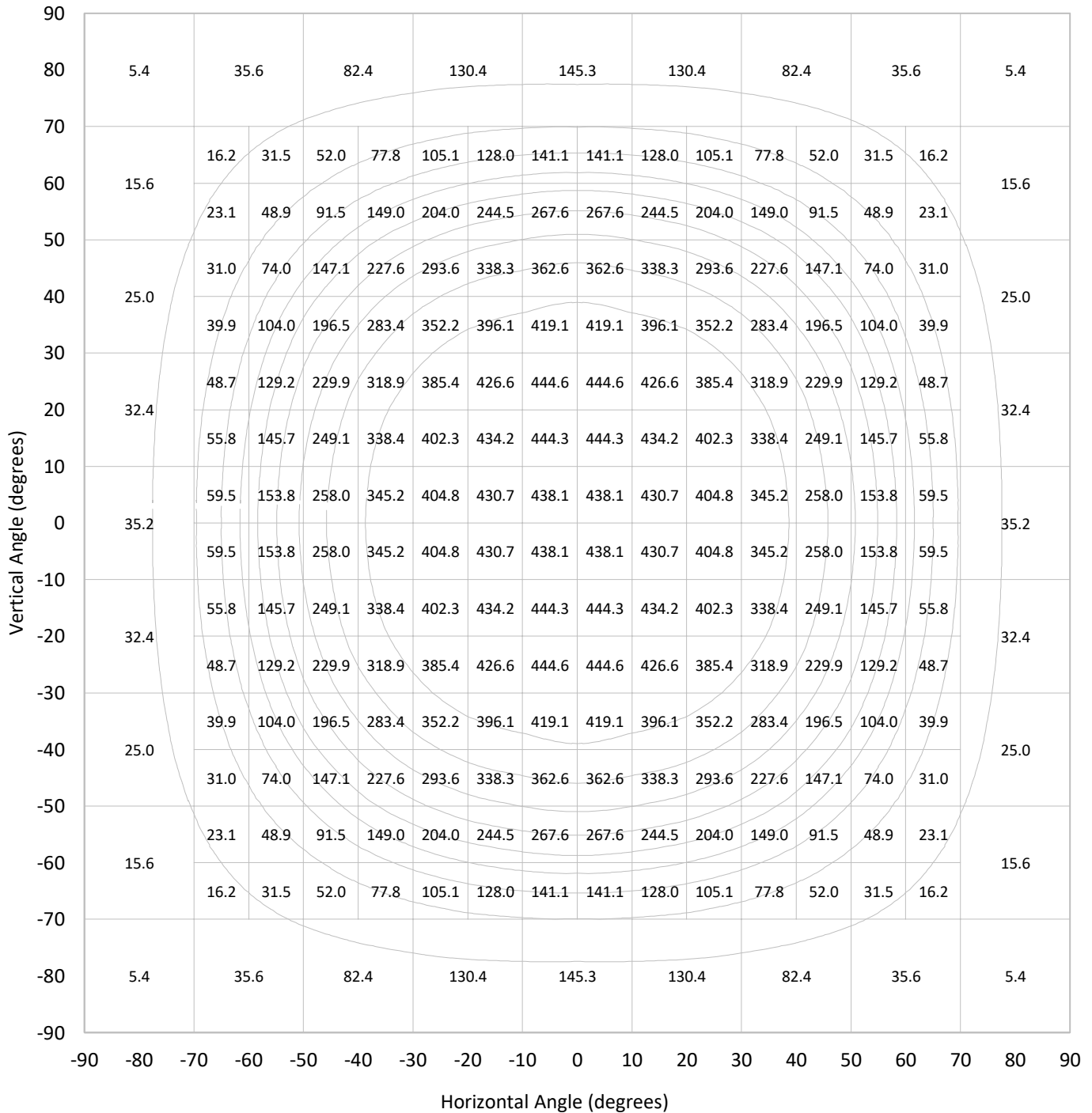
### Iso-Candela Plot





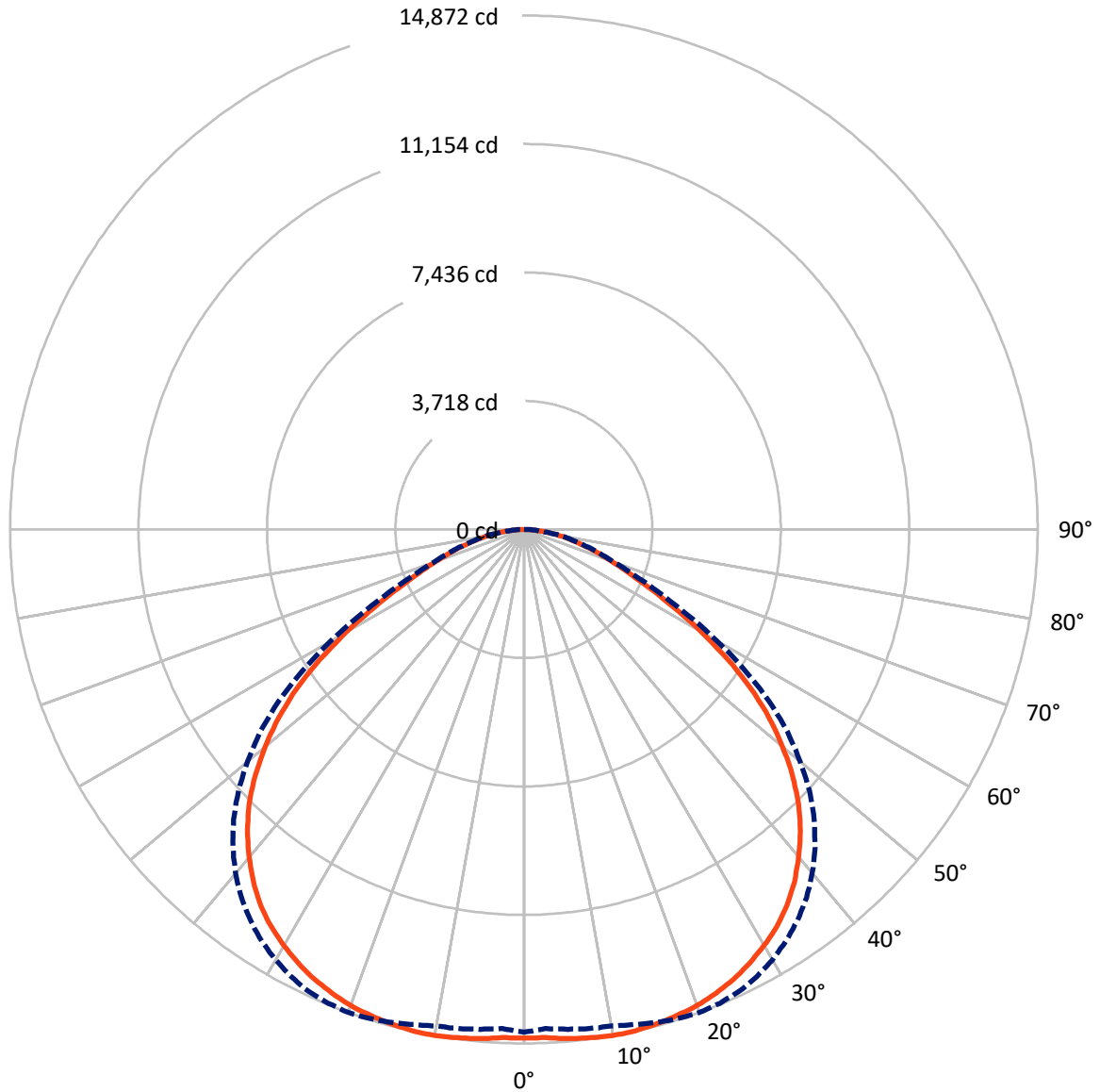
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### Lumen Table



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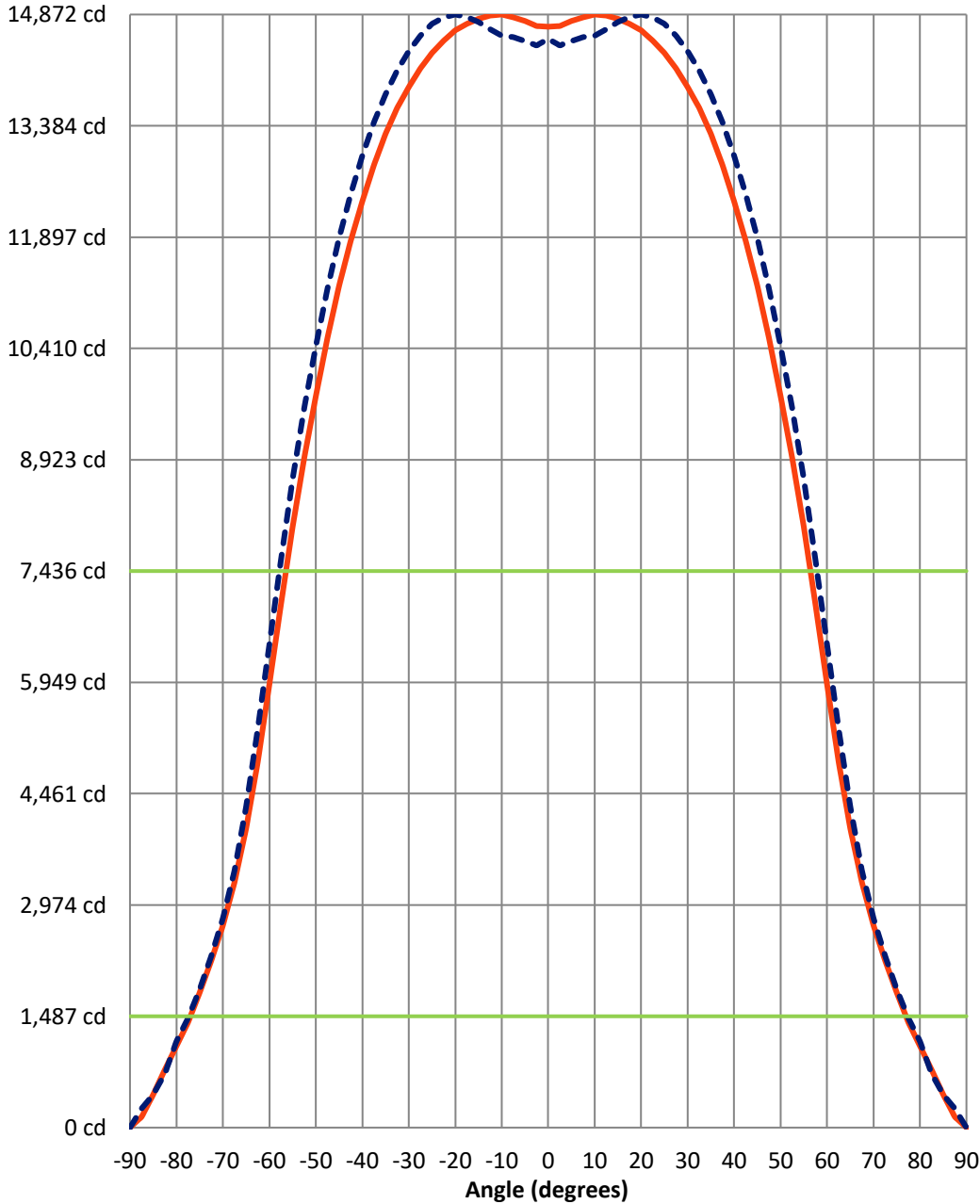
### Luminous Intensity Polar Plot



— 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: 27995.9  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 33562.3  
Efficiency: 73.6%

**Spill:**  
Lumens: 12061.8  
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°	120.0	129.6	134.4	139.2	144.0	148.8	153.6	148.8	144.0	144.0	139.2
85°	321.6	331.2	336.0	369.6	403.2	422.4	446.4	441.6	441.6	436.8	432.0
82.5°	643.3	672.1	696.1	729.7	748.9	777.7	796.9	782.5	772.9	753.7	739.3
80°	1142.5	1152.1	1156.9	1161.7	1137.7	1132.9	1123.3	1108.9	1089.7	1065.7	1041.7
77.5°	1454.5	1464.1	1473.7	1464.1	1459.3	1454.5	1440.1	1425.7	1406.5	1387.3	1358.5
75°	1925.0	1925.0	1925.0	1910.6	1901.0	1886.6	1862.5	1838.5	1804.9	1766.5	1723.3
72.5°	2424.2	2419.4	2414.6	2385.8	2361.8	2333.0	2299.4	2270.6	2232.2	2189.0	2131.4
70°	2947.4	2957.0	2961.8	2923.4	2894.6	2856.2	2813.0	2760.2	2702.6	2640.2	2558.6
67.5°	3667.5	3657.9	3648.3	3595.5	3557.1	3504.3	3441.9	3365.1	3278.7	3182.7	3067.4
65°	4560.4	4574.8	4546.0	4493.2	4421.2	4334.7	4238.7	4128.3	3998.7	3854.7	3691.5
62.5°	5640.5	5664.5	5630.9	5563.6	5472.4	5357.2	5222.8	5064.4	4886.8	4685.2	4483.6
60°	6869.4	6864.6	6802.1	6710.9	6590.9	6446.9	6298.1	6125.3	5923.7	5688.5	5443.6
57.5°	7997.4	7987.8	7911.0	7819.8	7699.8	7546.2	7387.8	7205.4	6994.2	6744.5	6461.3
55°	9010.3	9000.7	8923.9	8827.9	8703.1	8549.5	8405.5	8232.7	8026.2	7762.2	7459.8
52.5°	9908.0	9912.8	9845.6	9740.0	9605.6	9456.8	9317.6	9144.7	8947.9	8683.9	8391.1
50°	10733.7	10728.9	10656.9	10560.9	10436.0	10292.0	10152.8	9980.0	9773.6	9519.2	9235.9
47.5°	11501.7	11492.1	11410.5	11304.9	11175.3	11050.5	10920.9	10767.3	10551.2	10296.8	10013.6
45°	12145.0	12125.8	12044.2	11943.4	11818.6	11708.1	11592.9	11477.7	11247.3	11012.1	10743.3
42.5°	12697.0	12692.2	12610.6	12509.8	12385.0	12289.0	12183.4	12039.4	11847.4	11631.3	11367.3
40°	13225.1	13186.7	13105.1	13009.0	12893.8	12812.2	12706.6	12562.6	12375.4	12164.2	11909.8
37.5°	13618.7	13623.5	13537.1	13431.5	13330.7	13253.9	13157.9	13023.4	12860.2	12653.8	12399.4
35°	13993.1	13969.1	13897.1	13805.9	13714.7	13628.3	13527.5	13412.3	13277.9	13085.9	12845.8
32.5°	14237.9	14271.5	14185.1	14089.1	14036.3	13969.1	13863.5	13743.5	13623.5	13431.5	13215.5
30°	14506.8	14478.0	14410.8	14329.2	14290.8	14247.5	14156.3	14041.1	13901.9	13729.1	13527.5
27.5°	14694.0	14679.6	14598.0	14521.2	14502.0	14463.6	14391.6	14290.8	14151.5	13983.5	13796.3
25°	14775.6	14785.2	14708.4	14665.2	14665.2	14641.2	14583.6	14497.2	14358.0	14204.3	14021.9
22.5°	14814.0	14804.4	14751.6	14742.0	14766.0	14746.8	14722.8	14646.0	14521.2	14396.4	14242.7
20°	14838.0	14770.8	14722.8	14761.2	14790.0	14785.2	14766.0	14718.0	14660.4	14554.8	14420.4
17.5°	14785.2	14742.0	14684.4	14742.0	14804.4	14809.2	14790.0	14761.2	14746.8	14679.6	14559.6
15°	14655.6	14622.0	14631.6	14689.2	14761.2	14785.2	14799.6	14833.2	14814.0	14761.2	14655.6
12.5°	14569.2	14526.0	14569.2	14626.8	14665.2	14679.6	14794.8	14857.2	14857.2	14809.2	14742.0
10°	14545.2	14458.8	14516.4	14569.2	14588.4	14674.8	14770.8	14838.0	14871.6	14833.2	14746.8
7.5°	14497.2	14439.6	14463.6	14487.6	14598.0	14660.4	14713.2	14785.2	14833.2	14828.4	14751.6
5°	14473.2	14401.2	14410.8	14511.6	14588.4	14631.6	14650.8	14713.2	14785.2	14799.6	14742.0
2.5°	14410.8	14377.2	14449.2	14458.8	14516.4	14550.0	14569.2	14626.8	14718.0	14751.6	14727.6
0°	14377.2	14329.2	14281.1	14319.6	14415.6	14487.6	14516.4	14602.8	14708.4	14742.0	14689.2



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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°	134.4	129.6	124.8	120.0	124.8	124.8	124.8	120.0	124.8	120.0	120.0
85°	417.6	398.4	384.0	364.8	345.6	331.2	312.0	292.8	288.0	283.2	273.6
82.5°	720.1	696.1	672.1	643.3	614.4	580.8	547.2	508.8	499.2	489.6	475.2
80°	1012.9	979.3	945.7	912.1	883.3	849.7	811.3	768.1	739.3	715.3	686.5
77.5°	1320.1	1272.1	1224.1	1166.5	1132.9	1099.3	1060.9	1017.7	974.5	936.1	892.9
75°	1670.5	1617.7	1569.7	1512.1	1449.7	1387.3	1324.9	1267.3	1204.9	1147.3	1089.7
72.5°	2059.4	1982.6	1905.8	1833.7	1756.9	1680.1	1598.5	1521.7	1444.9	1368.1	1286.5
70°	2467.4	2371.4	2275.4	2179.4	2078.6	1977.8	1881.8	1785.7	1689.7	1588.9	1497.7
67.5°	2947.4	2837.0	2712.2	2577.8	2429.0	2299.4	2174.6	2059.4	1944.2	1828.9	1713.7
65°	3547.5	3393.9	3225.9	3043.4	2870.6	2697.8	2515.4	2342.6	2208.2	2073.8	1944.2
62.5°	4286.7	4070.7	3835.5	3600.3	3389.1	3163.5	2952.2	2726.6	2515.4	2323.4	2165.0
60°	5170.0	4877.2	4589.2	4286.7	3993.9	3686.7	3417.9	3139.5	2875.4	2640.2	2409.8
57.5°	6144.5	5803.7	5458.0	5088.4	4690.0	4329.9	3965.1	3600.3	3288.3	2976.2	2717.0
55°	7133.4	6773.3	6384.5	5966.9	5530.0	5069.2	4574.8	4166.7	3739.5	3374.7	3038.6
52.5°	8074.3	7699.8	7296.6	6912.6	6389.3	5861.3	5318.8	4781.2	4281.9	3816.3	3408.3
50°	8914.3	8549.5	8160.7	7714.2	7229.4	6667.7	6062.9	5458.0	4867.6	4320.3	3811.5
47.5°	9682.4	9327.2	8938.3	8491.9	8050.2	7426.2	6816.5	6149.3	5491.6	4862.8	4267.5
45°	10402.4	10042.4	9639.2	9211.9	8703.1	8146.3	7517.4	6845.4	6139.7	5434.0	4747.6
42.5°	11055.3	10695.3	10287.2	9845.6	9341.6	8789.5	8179.9	7503.0	6792.5	6024.5	5270.8
40°	11626.5	11276.1	10882.5	10421.6	9951.2	9370.4	8770.3	8127.1	7392.6	6619.7	5789.3
37.5°	12125.8	11799.4	11410.5	10954.5	10455.2	9936.8	9317.6	8674.3	8011.8	7171.8	6322.1
35°	12567.4	12265.0	11866.6	11434.5	10944.9	10397.6	9816.8	9187.9	8472.7	7685.4	6859.8
32.5°	12951.4	12644.2	12279.4	11847.4	11372.1	10858.5	10263.2	9629.6	8952.7	8151.1	7253.4
30°	13277.9	12980.2	12634.6	12226.6	11770.5	11261.7	10680.9	10042.4	9351.2	8554.3	7666.2
27.5°	13561.1	13277.9	12941.8	12562.6	12125.8	11636.1	11050.5	10407.2	9701.6	8933.5	8045.4
25°	13805.9	13532.3	13220.3	12860.2	12428.2	11948.2	11396.1	10724.1	10018.4	9245.5	8367.1
22.5°	14026.7	13762.7	13450.7	13100.3	12706.6	12226.6	11669.7	11002.5	10287.2	9524.0	8659.9
20°	14223.5	13978.7	13671.5	13311.5	12917.8	12433.0	11881.0	11247.3	10527.2	9778.4	8923.9
17.5°	14382.0	14165.9	13858.7	13479.5	13085.9	12615.4	12077.8	11496.9	10733.7	9994.4	9144.7
15°	14492.4	14281.1	14002.7	13618.7	13234.7	12769.0	12231.4	11631.3	10920.9	10167.2	9327.2
12.5°	14569.2	14343.6	14084.3	13729.1	13345.1	12884.2	12361.0	11770.5	11079.3	10320.8	9485.6
10°	14588.4	14382.0	14122.7	13805.9	13431.5	12985.0	12471.4	11885.8	11208.9	10440.8	9615.2
7.5°	14598.0	14401.2	14165.9	13863.5	13493.9	13061.9	12553.0	11977.0	11304.9	10541.6	9711.2
5°	14593.2	14406.0	14194.7	13901.9	13532.3	13105.1	12605.8	12039.4	11372.1	10608.9	9783.2
2.5°	14578.8	14410.8	14213.9	13930.7	13575.5	13153.1	12658.6	12111.4	11444.1	10666.5	9840.8
0°	14617.2	14473.2	14223.5	13921.1	13585.1	13153.1	12653.8	12121.0	11453.7	10661.7	9836.0





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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°	120.0	115.2	115.2	110.4	105.6	100.8	91.2	86.4	76.8	62.4	48.0
85°	259.2	244.8	230.4	220.8	211.2	201.6	187.2	172.8	153.6	124.8	96.0
82.5°	456.0	427.2	398.4	364.8	336.0	307.2	283.2	259.2	230.4	187.2	144.0
80°	652.9	609.6	566.4	518.4	475.2	427.2	384.0	345.6	307.2	249.6	192.0
77.5°	849.7	792.1	729.7	672.1	609.6	547.2	484.8	432.0	374.4	307.2	240.0
75°	1032.1	964.9	907.3	825.7	748.9	667.3	585.6	513.6	441.6	360.0	288.0
72.5°	1214.5	1128.1	1046.5	969.7	883.3	782.5	691.3	600.0	508.8	412.8	326.4
70°	1396.9	1291.3	1190.5	1099.3	1003.3	902.5	792.1	686.5	576.0	460.8	360.0
67.5°	1584.1	1464.1	1348.9	1233.7	1123.3	1008.1	892.9	772.9	643.3	508.8	398.4
65°	1790.5	1641.7	1502.5	1372.9	1243.3	1118.5	988.9	859.3	715.3	561.6	432.0
62.5°	1997.0	1833.7	1670.5	1507.3	1363.3	1224.1	1084.9	940.9	782.5	619.2	465.6
60°	2217.8	2030.6	1843.3	1660.9	1483.3	1329.7	1176.1	1022.5	854.5	672.1	499.2
57.5°	2462.6	2237.0	2025.8	1819.3	1617.7	1435.3	1267.3	1104.1	916.9	724.9	537.6
55°	2741.0	2462.6	2213.0	1982.6	1761.7	1540.9	1358.5	1190.5	988.9	777.7	580.8
52.5°	3033.8	2712.2	2409.8	2150.6	1915.4	1665.7	1444.9	1257.7	1060.9	830.5	619.2
50°	3374.7	2966.6	2630.6	2313.8	2049.8	1790.5	1536.1	1334.5	1132.9	892.9	657.7
47.5°	3725.1	3273.9	2851.4	2505.8	2193.8	1910.6	1641.7	1401.7	1200.1	950.5	696.1
45°	4133.1	3566.7	3101.0	2693.0	2333.0	2035.4	1747.3	1473.7	1257.7	1008.1	734.5
42.5°	4526.8	3912.3	3360.3	2899.4	2491.4	2155.4	1843.3	1550.5	1315.3	1065.7	768.1
40°	4992.4	4257.9	3609.9	3096.2	2649.8	2270.6	1939.4	1632.1	1368.1	1118.5	801.7
37.5°	5438.8	4608.4	3912.3	3312.3	2803.4	2385.8	2035.4	1708.9	1416.1	1171.3	844.9
35°	5880.5	4997.2	4200.3	3513.9	2961.8	2515.4	2131.4	1780.9	1464.1	1214.5	883.3
32.5°	6302.9	5362.0	4493.2	3739.5	3134.7	2635.4	2217.8	1848.1	1512.1	1252.9	921.7
30°	6696.5	5707.7	4781.2	3969.9	3293.1	2745.8	2299.4	1915.4	1569.7	1286.5	960.1
27.5°	7056.6	6043.7	5069.2	4185.9	3441.9	2846.6	2385.8	1977.8	1617.7	1320.1	993.7
25°	7383.0	6346.1	5333.2	4382.8	3576.3	2957.0	2467.4	2040.2	1660.9	1348.9	1022.5
22.5°	7690.2	6624.5	5573.2	4579.6	3739.5	3067.4	2544.2	2097.8	1704.1	1377.7	1051.3
20°	7959.0	6879.0	5803.7	4776.4	3883.5	3168.3	2611.4	2150.6	1742.5	1396.9	1080.1
17.5°	8175.1	7104.6	6010.1	4949.2	4008.3	3254.7	2669.0	2198.6	1776.1	1420.9	1099.3
15°	8367.1	7296.6	6182.9	5098.0	4118.7	3326.7	2721.8	2237.0	1804.9	1435.3	1123.3
12.5°	8530.3	7459.8	6331.7	5227.6	4214.7	3389.1	2765.0	2265.8	1828.9	1449.7	1137.7
10°	8664.7	7589.4	6456.5	5328.4	4291.5	3437.1	2798.6	2294.6	1848.1	1464.1	1152.1
7.5°	8765.5	7685.4	6547.7	5414.8	4354.0	3470.7	2827.4	2313.8	1867.4	1473.7	1176.1
5°	8842.3	7767.0	6619.7	5472.4	4402.0	3518.7	2861.0	2337.8	1886.6	1483.3	1176.1
2.5°	8899.9	7834.2	6677.3	5520.4	4440.4	3509.1	2861.0	2333.0	1886.6	1483.3	1171.3
0°	8890.3	7839.0	6672.5	5520.4	4440.4	3499.5	2861.0	2328.2	1886.6	1483.3	1171.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	33.6	24.0	9.6	0.0
85°	72.0	48.0	24.0	0.0
82.5°	105.6	67.2	33.6	0.0
80°	139.2	91.2	43.2	0.0
77.5°	177.6	115.2	57.6	0.0
75°	211.2	134.4	67.2	0.0
72.5°	244.8	158.4	76.8	0.0
70°	273.6	177.6	86.4	0.0
67.5°	302.4	201.6	100.8	0.0
65°	326.4	220.8	110.4	0.0
62.5°	345.6	244.8	120.0	0.0
60°	369.6	264.0	129.6	0.0
57.5°	388.8	278.4	139.2	0.0
55°	408.0	288.0	148.8	0.0
52.5°	427.2	302.4	158.4	0.0
50°	446.4	316.8	168.0	0.0
47.5°	465.6	326.4	172.8	0.0
45°	494.4	340.8	182.4	0.0
42.5°	518.4	350.4	192.0	0.0
40°	542.4	360.0	196.8	0.0
37.5°	566.4	369.6	206.4	0.0
35°	590.4	379.2	211.2	0.0
32.5°	609.6	388.8	216.0	0.0
30°	628.9	398.4	220.8	0.0
27.5°	648.1	403.2	225.6	0.0
25°	662.5	412.8	230.4	0.0
22.5°	676.9	417.6	235.2	0.0
20°	686.5	422.4	240.0	0.0
17.5°	700.9	427.2	244.8	0.0
15°	705.7	432.0	254.4	0.0
12.5°	715.3	436.8	254.4	0.0
10°	720.1	441.6	254.4	0.0
7.5°	729.7	441.6	254.4	0.0
5°	724.9	441.6	254.4	0.0
2.5°	724.9	441.6	254.4	0.0
0°	720.1	441.6	254.4	0.0

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