

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: P628231

Luminaire Tested: **IFLD-L-SA7D-730-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628231  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	45714 lumens	Max Intensity:	14900.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	108.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

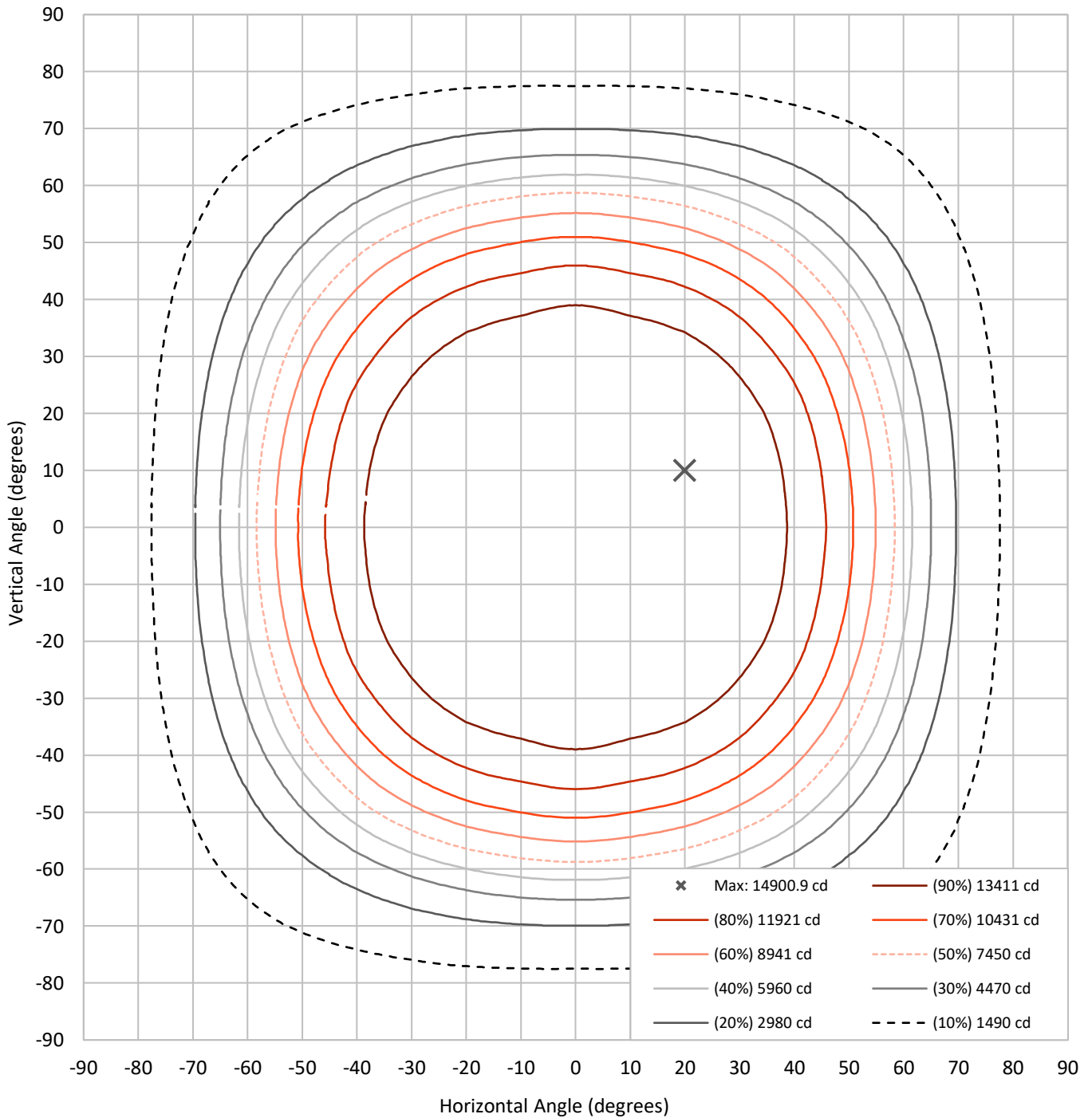
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	28051 lumens	Field Lumens:	33628.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 422.6  
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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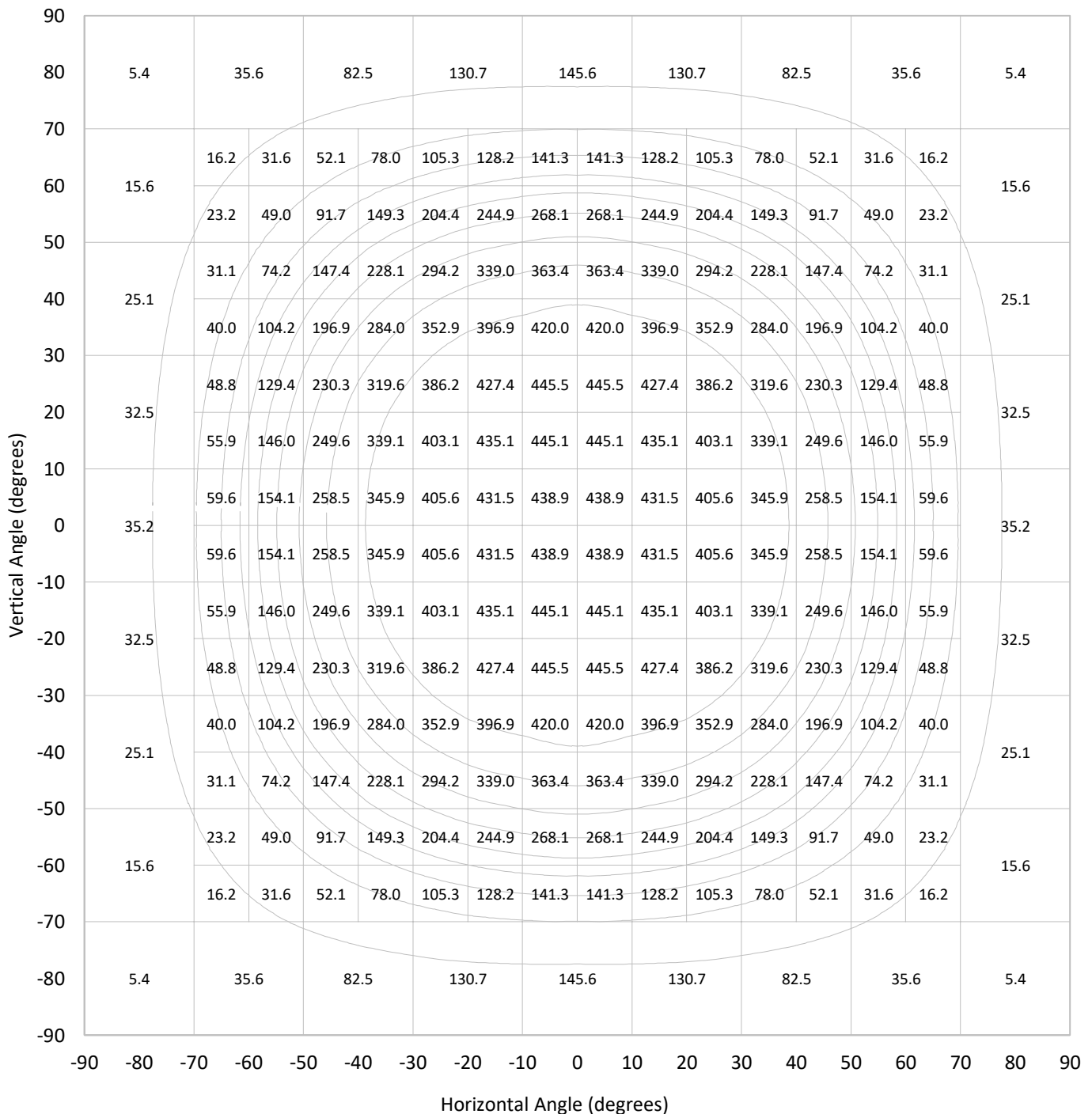
### Iso-Candela Plot





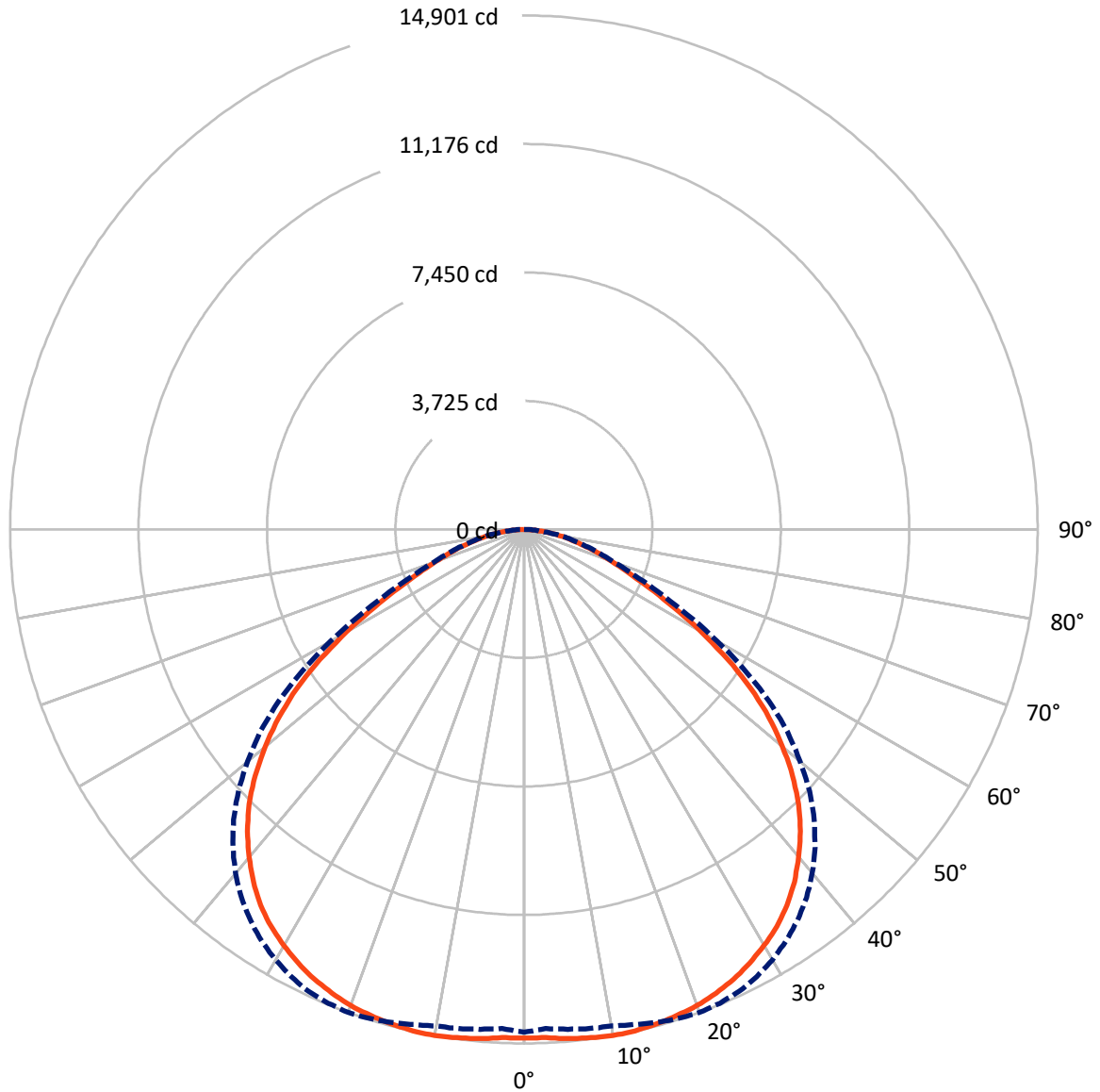
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### Lumen Table



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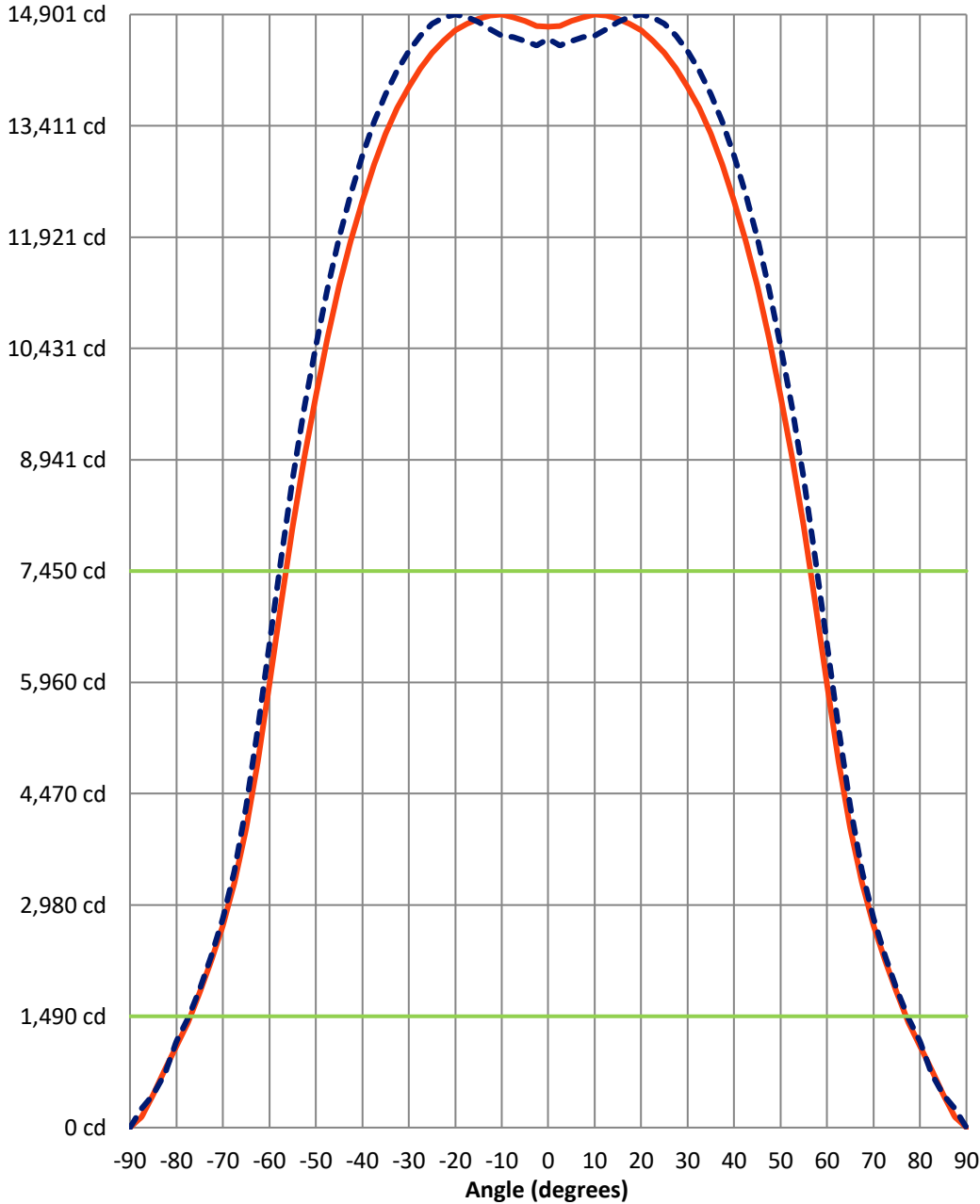
### Luminous Intensity Polar Plot



— 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: 28051  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 33628.4  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 12085.6  
 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°	120.2	129.9	134.7	139.5	144.3	149.1	153.9	149.1	144.3	144.3	139.5
85°	322.3	331.9	336.7	370.4	404.0	423.3	447.3	442.5	442.5	437.7	432.9
82.5°	644.5	673.4	697.4	731.1	750.3	779.2	798.4	784.0	774.4	755.1	740.7
80°	1144.7	1154.4	1159.2	1164.0	1139.9	1135.1	1125.5	1111.1	1091.8	1067.8	1043.7
77.5°	1457.4	1467.0	1476.6	1467.0	1462.2	1457.4	1443.0	1428.5	1409.3	1390.0	1361.2
75°	1928.7	1928.7	1928.7	1914.3	1904.7	1890.3	1866.2	1842.2	1808.5	1770.0	1726.7
72.5°	2429.0	2424.2	2419.4	2390.5	2366.4	2337.6	2303.9	2275.1	2236.6	2193.3	2135.6
70°	2953.2	2962.9	2967.7	2929.2	2900.3	2861.9	2818.6	2765.7	2707.9	2645.4	2563.6
67.5°	3674.7	3665.1	3655.5	3602.6	3564.1	3511.2	3448.7	3371.7	3285.1	3188.9	3073.5
65°	4569.4	4583.8	4554.9	4502.0	4429.9	4343.3	4247.1	4136.5	4006.6	3862.3	3698.8
62.5°	5651.6	5675.6	5642.0	5574.6	5483.2	5367.8	5233.1	5074.4	4896.4	4694.4	4492.4
60°	6882.9	6878.1	6815.6	6724.2	6603.9	6459.6	6310.5	6137.4	5935.4	5699.7	5454.4
57.5°	8013.2	8003.6	7926.6	7835.2	7715.0	7561.1	7402.4	7219.6	7007.9	6757.8	6474.1
55°	9028.1	9018.5	8941.5	8845.3	8720.3	8566.3	8422.0	8248.9	8042.1	7777.5	7474.5
52.5°	9927.5	9932.3	9865.0	9759.2	9624.5	9475.4	9335.9	9162.8	8965.6	8701.0	8407.6
50°	10754.8	10750.0	10677.9	10581.7	10456.6	10312.3	10172.8	9999.7	9792.8	9537.9	9254.1
47.5°	11524.4	11514.8	11433.0	11327.2	11197.3	11072.3	10942.4	10788.5	10572.0	10317.1	10033.3
45°	12168.9	12149.7	12067.9	11966.9	11841.8	11731.2	11615.8	11500.3	11269.5	11033.8	10764.4
42.5°	12722.0	12717.2	12635.5	12534.5	12409.4	12313.2	12207.4	12063.1	11870.7	11654.3	11389.7
40°	13251.1	13212.6	13130.9	13034.7	12919.2	12837.5	12731.7	12587.4	12399.8	12188.2	11933.2
37.5°	13645.5	13650.3	13563.8	13458.0	13356.9	13280.0	13183.8	13049.1	12885.6	12678.8	12423.8
35°	14020.7	13996.7	13924.5	13833.1	13741.7	13655.2	13554.1	13438.7	13304.0	13111.6	12871.2
32.5°	14266.0	14299.7	14213.1	14116.9	14064.0	13996.7	13890.8	13770.6	13650.3	13458.0	13241.5
30°	14535.4	14506.5	14439.2	14357.4	14318.9	14275.6	14184.2	14068.8	13929.3	13756.2	13554.1
27.5°	14722.9	14708.5	14626.7	14549.8	14530.5	14492.1	14419.9	14318.9	14179.4	14011.1	13823.5
25°	14804.7	14814.3	14737.4	14694.1	14694.1	14670.0	14612.3	14525.7	14386.3	14232.3	14049.6
22.5°	14843.2	14833.6	14780.7	14771.0	14795.1	14775.9	14751.8	14674.8	14549.8	14424.7	14270.8
20°	14867.2	14799.9	14751.8	14790.3	14819.1	14814.3	14795.1	14747.0	14689.3	14583.5	14448.8
17.5°	14814.3	14771.0	14713.3	14771.0	14833.6	14838.4	14819.1	14790.3	14775.9	14708.5	14588.3
15°	14684.5	14650.8	14660.4	14718.1	14790.3	14814.3	14828.8	14862.4	14843.2	14790.3	14684.5
12.5°	14597.9	14554.6	14597.9	14655.6	14694.1	14708.5	14823.9	14886.5	14886.5	14838.4	14771.0
10°	14573.8	14487.3	14545.0	14597.9	14617.1	14703.7	14799.9	14867.2	14900.9	14862.4	14775.9
7.5°	14525.7	14468.0	14492.1	14516.1	14626.7	14689.3	14742.2	14814.3	14862.4	14857.6	14780.7
5°	14501.7	14429.5	14439.2	14540.2	14617.1	14660.4	14679.7	14742.2	14814.3	14828.8	14771.0
2.5°	14439.2	14405.5	14477.6	14487.3	14545.0	14578.6	14597.9	14655.6	14747.0	14780.7	14756.6
0°	14405.5	14357.4	14309.3	14347.8	14444.0	14516.1	14545.0	14631.6	14737.4	14771.0	14718.1



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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°	134.7	129.9	125.1	120.2	125.1	125.1	125.1	120.2	125.1	120.2	120.2
85°	418.5	399.2	384.8	365.5	346.3	331.9	312.6	293.4	288.6	283.8	274.2
82.5°	721.5	697.4	673.4	644.5	615.7	582.0	548.3	509.8	500.2	490.6	476.2
80°	1014.9	981.2	947.5	913.9	885.0	851.3	812.9	769.6	740.7	716.7	687.8
77.5°	1322.7	1274.6	1226.5	1168.8	1135.1	1101.5	1063.0	1019.7	976.4	937.9	894.6
75°	1673.8	1620.9	1572.8	1515.1	1452.6	1390.0	1327.5	1269.8	1207.3	1149.6	1091.8
72.5°	2063.4	1986.5	1909.5	1837.4	1760.4	1683.4	1601.7	1524.7	1447.8	1370.8	1289.0
70°	2472.3	2376.1	2279.9	2183.7	2082.7	1981.7	1885.5	1789.3	1693.1	1592.1	1500.7
67.5°	2953.2	2842.6	2717.6	2582.9	2433.8	2303.9	2178.9	2063.4	1948.0	1832.6	1717.1
65°	3554.5	3400.6	3232.2	3049.4	2876.3	2703.1	2520.4	2347.2	2212.5	2077.9	1948.0
62.5°	4295.2	4078.8	3843.1	3607.4	3395.8	3169.7	2958.1	2732.0	2520.4	2328.0	2169.2
60°	5180.2	4886.8	4598.2	4295.2	4001.8	3694.0	3424.6	3145.6	2881.1	2645.4	2414.5
57.5°	6156.6	5815.1	5468.8	5098.4	4699.2	4338.5	3972.9	3607.4	3294.7	2982.1	2722.4
55°	7147.4	6786.7	6397.1	5978.6	5540.9	5079.2	4583.8	4174.9	3746.9	3381.3	3044.6
52.5°	8090.2	7715.0	7311.0	6926.2	6401.9	5872.8	5329.3	4790.6	4290.4	3823.8	3415.0
50°	8931.9	8566.3	8176.7	7729.4	7243.6	6680.9	6074.8	5468.8	4877.2	4328.9	3819.0
47.5°	9701.5	9345.5	8955.9	8508.6	8066.1	7440.8	6830.0	6161.4	5502.5	4872.4	4276.0
45°	10422.9	10062.2	9658.2	9230.1	8720.3	8162.3	7532.2	6858.8	6151.8	5444.7	4756.9
42.5°	11077.1	10716.3	10307.5	9865.0	9360.0	8806.8	8196.0	7517.8	6805.9	6036.4	5281.2
40°	11649.4	11298.3	10903.9	10442.2	9970.8	9388.8	8787.6	8143.1	7407.2	6632.8	5800.7
37.5°	12149.7	11822.6	11433.0	10976.1	10475.8	9956.4	9335.9	8691.4	8027.6	7185.9	6334.6
35°	12592.2	12289.2	11889.9	11457.1	10966.5	10418.1	9836.1	9206.0	8489.4	7700.6	6873.3
32.5°	12977.0	12669.1	12303.6	11870.7	11394.5	10879.9	10283.5	9648.6	8970.4	8167.1	7267.7
30°	13304.0	13005.8	12659.5	12250.7	11793.7	11283.9	10701.9	10062.2	9369.6	8571.1	7681.3
27.5°	13587.8	13304.0	12967.3	12587.4	12149.7	11659.1	11072.3	10427.7	9720.7	8951.1	8061.3
25°	13833.1	13559.0	13246.3	12885.6	12452.7	11971.7	11418.6	10745.2	10038.2	9263.8	8383.6
22.5°	14054.4	13789.8	13477.2	13126.1	12731.7	12250.7	11692.7	11024.2	10307.5	9542.7	8677.0
20°	14251.6	14006.3	13698.4	13337.7	12943.3	12457.5	11904.4	11269.5	10548.0	9797.7	8941.5
17.5°	14410.3	14193.9	13886.0	13506.1	13111.6	12640.3	12101.6	11519.6	10754.8	10014.1	9162.8
15°	14520.9	14309.3	14030.3	13645.5	13260.7	12794.2	12255.5	11654.3	10942.4	10187.3	9345.5
12.5°	14597.9	14371.8	14112.1	13756.2	13371.4	12909.6	12385.4	11793.7	11101.1	10341.2	9504.3
10°	14617.1	14410.3	14150.6	13833.1	13458.0	13010.6	12496.0	11909.2	11231.0	10461.4	9634.1
7.5°	14626.7	14429.5	14193.9	13890.8	13520.5	13087.6	12577.8	12000.6	11327.2	10562.4	9730.3
5°	14621.9	14434.4	14222.7	13929.3	13559.0	13130.9	12630.7	12063.1	11394.5	10629.8	9802.5
2.5°	14607.5	14439.2	14242.0	13958.2	13602.2	13179.0	12683.6	12135.2	11466.7	10687.5	9860.2
0°	14646.0	14501.7	14251.6	13948.6	13611.9	13179.0	12678.8	12144.9	11476.3	10682.7	9855.4





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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°	120.2	115.4	115.4	110.6	105.8	101.0	91.4	86.6	77.0	62.5	48.1
85°	259.7	245.3	230.9	221.3	211.6	202.0	187.6	173.2	153.9	125.1	96.2
82.5°	456.9	428.1	399.2	365.5	336.7	307.8	283.8	259.7	230.9	187.6	144.3
80°	654.1	610.9	567.6	519.5	476.2	428.1	384.8	346.3	307.8	250.1	192.4
77.5°	851.3	793.6	731.1	673.4	610.9	548.3	485.8	432.9	375.2	307.8	240.5
75°	1034.1	966.8	909.1	827.3	750.3	668.6	586.8	514.7	442.5	360.7	288.6
72.5°	1216.9	1130.3	1048.5	971.6	885.0	784.0	692.6	601.2	509.8	413.6	327.1
70°	1399.7	1293.8	1192.8	1101.5	1005.3	904.3	793.6	687.8	577.2	461.7	360.7
67.5°	1587.2	1467.0	1351.6	1236.1	1125.5	1010.1	894.6	774.4	644.5	509.8	399.2
65°	1794.1	1645.0	1505.5	1375.6	1245.8	1120.7	990.8	861.0	716.7	562.8	432.9
62.5°	2000.9	1837.4	1673.8	1510.3	1366.0	1226.5	1087.0	942.7	784.0	620.5	466.6
60°	2222.1	2034.6	1847.0	1664.2	1486.2	1332.3	1178.4	1024.5	856.2	673.4	500.2
57.5°	2467.5	2241.4	2029.8	1822.9	1620.9	1438.1	1269.8	1106.3	918.7	726.3	538.7
55°	2746.4	2467.5	2217.3	1986.5	1765.2	1544.0	1361.2	1192.8	990.8	779.2	582.0
52.5°	3039.8	2717.6	2414.5	2154.8	1919.1	1669.0	1447.8	1260.2	1063.0	832.1	620.5
50°	3381.3	2972.5	2635.8	2318.3	2053.8	1794.1	1539.2	1337.1	1135.1	894.6	658.9
47.5°	3732.4	3280.3	2857.0	2510.7	2198.1	1914.3	1645.0	1404.5	1202.5	952.3	697.4
45°	4141.3	3573.7	3107.2	2698.3	2337.6	2039.4	1750.8	1476.6	1260.2	1010.1	735.9
42.5°	4535.7	3920.0	3366.9	2905.1	2496.3	2159.6	1847.0	1553.6	1317.9	1067.8	769.6
40°	5002.2	4266.3	3617.0	3102.4	2655.0	2275.1	1943.2	1635.3	1370.8	1120.7	803.2
37.5°	5449.6	4617.5	3920.0	3318.8	2809.0	2390.5	2039.4	1712.3	1418.9	1173.6	846.5
35°	5892.1	5007.1	4208.6	3520.8	2967.7	2520.4	2135.6	1784.5	1467.0	1216.9	885.0
32.5°	6315.3	5372.6	4502.0	3746.9	3140.8	2640.6	2222.1	1851.8	1515.1	1255.4	923.5
30°	6709.7	5718.9	4790.6	3977.7	3299.6	2751.2	2303.9	1919.1	1572.8	1289.0	962.0
27.5°	7070.5	6055.6	5079.2	4194.2	3448.7	2852.2	2390.5	1981.7	1620.9	1322.7	995.6
25°	7397.5	6358.6	5343.7	4391.4	3583.3	2962.9	2472.3	2044.2	1664.2	1351.6	1024.5
22.5°	7705.4	6637.6	5584.2	4588.6	3746.9	3073.5	2549.2	2101.9	1707.5	1380.4	1053.4
20°	7974.7	6892.5	5815.1	4785.8	3891.2	3174.5	2616.6	2154.8	1746.0	1399.7	1082.2
17.5°	8191.2	7118.6	6021.9	4959.0	4016.2	3261.1	2674.3	2202.9	1779.6	1423.7	1101.5
15°	8383.6	7311.0	6195.1	5108.1	4126.8	3333.2	2727.2	2241.4	1808.5	1438.1	1125.5
12.5°	8547.1	7474.5	6344.2	5237.9	4223.0	3395.8	2770.5	2270.2	1832.6	1452.6	1139.9
10°	8681.8	7604.4	6469.2	5338.9	4300.0	3443.9	2804.1	2299.1	1851.8	1467.0	1154.4
7.5°	8782.8	7700.6	6560.6	5425.5	4362.5	3477.5	2833.0	2318.3	1871.0	1476.6	1178.4
5°	8859.7	7782.3	6632.8	5483.2	4410.6	3525.6	2866.7	2342.4	1890.3	1486.2	1178.4
2.5°	8917.5	7849.7	6690.5	5531.3	4449.1	3516.0	2866.7	2337.6	1890.3	1486.2	1173.6
0°	8907.8	7854.5	6685.7	5531.3	4449.1	3506.4	2866.7	2332.8	1890.3	1486.2	1173.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	33.7	24.0	9.6	0.0
85°	72.1	48.1	24.0	0.0
82.5°	105.8	67.3	33.7	0.0
80°	139.5	91.4	43.3	0.0
77.5°	178.0	115.4	57.7	0.0
75°	211.6	134.7	67.3	0.0
72.5°	245.3	158.7	77.0	0.0
70°	274.2	178.0	86.6	0.0
67.5°	303.0	202.0	101.0	0.0
65°	327.1	221.3	110.6	0.0
62.5°	346.3	245.3	120.2	0.0
60°	370.4	264.5	129.9	0.0
57.5°	389.6	279.0	139.5	0.0
55°	408.8	288.6	149.1	0.0
52.5°	428.1	303.0	158.7	0.0
50°	447.3	317.4	168.3	0.0
47.5°	466.6	327.1	173.2	0.0
45°	495.4	341.5	182.8	0.0
42.5°	519.5	351.1	192.4	0.0
40°	543.5	360.7	197.2	0.0
37.5°	567.6	370.4	206.8	0.0
35°	591.6	380.0	211.6	0.0
32.5°	610.9	389.6	216.4	0.0
30°	630.1	399.2	221.3	0.0
27.5°	649.3	404.0	226.1	0.0
25°	663.8	413.6	230.9	0.0
22.5°	678.2	418.5	235.7	0.0
20°	687.8	423.3	240.5	0.0
17.5°	702.2	428.1	245.3	0.0
15°	707.0	432.9	254.9	0.0
12.5°	716.7	437.7	254.9	0.0
10°	721.5	442.5	254.9	0.0
7.5°	731.1	442.5	254.9	0.0
5°	726.3	442.5	254.9	0.0
2.5°	726.3	442.5	254.9	0.0
0°	721.5	442.5	254.9	0.0

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