

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: P628245

Luminaire Tested: **IFLD-S-SA3D-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628245  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

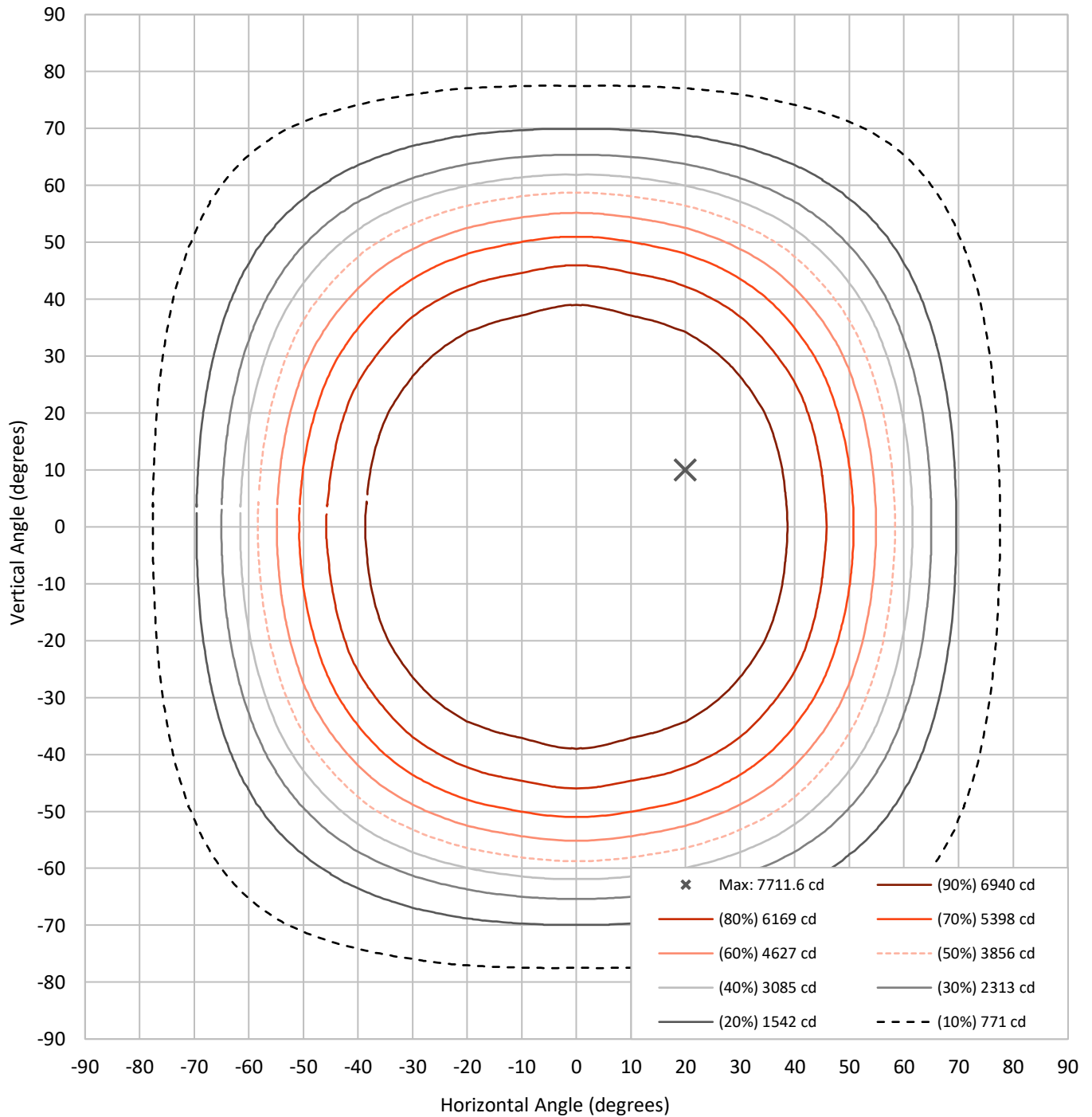
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23658.3 lumens	Max Intensity:	7711.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	128.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	14517.2 lumens	Field Lumens:	17403.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	184.1		
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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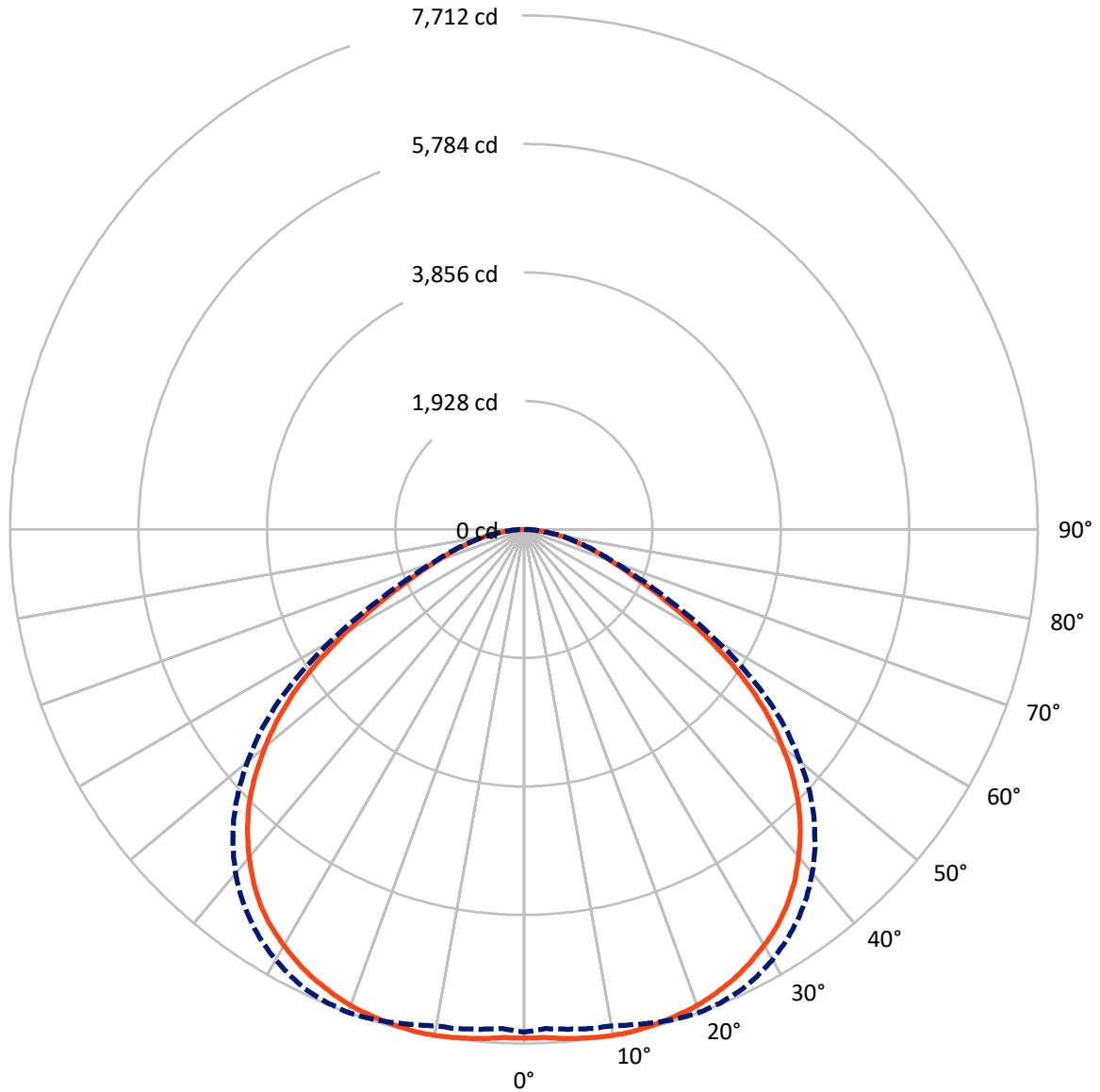
### Iso-Candela Plot





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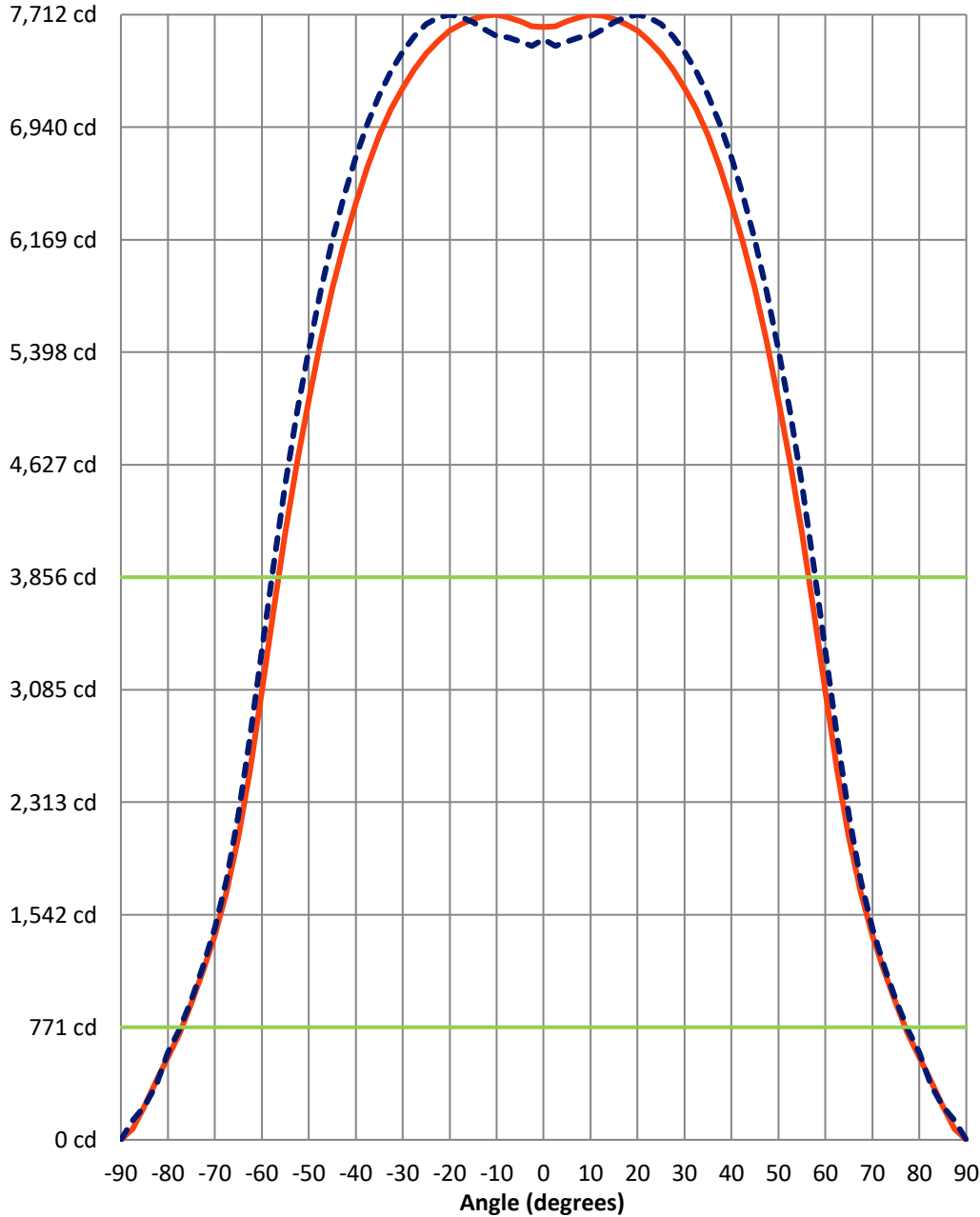
### Luminous Intensity Polar Plot



— 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: 14517.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 17403.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6254.6  
 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°	62.2	67.2	69.7	72.2	74.7	77.2	79.7	77.2	74.7	74.7	72.2
85°	166.8	171.8	174.2	191.7	209.1	219.1	231.5	229.0	229.0	226.5	224.0
82.5°	333.6	348.5	360.9	378.4	388.3	403.3	413.2	405.7	400.8	390.8	383.3
80°	592.4	597.4	599.9	602.4	589.9	587.5	582.5	575.0	565.1	552.6	540.2
77.5°	754.2	759.2	764.2	759.2	756.7	754.2	746.8	739.3	729.3	719.4	704.5
75°	998.2	998.2	998.2	990.7	985.7	978.3	965.8	953.4	936.0	916.0	893.6
72.5°	1257.1	1254.6	1252.1	1237.1	1224.7	1209.8	1192.3	1177.4	1157.5	1135.1	1105.2
70°	1528.4	1533.4	1535.9	1515.9	1501.0	1481.1	1458.7	1431.3	1401.4	1369.1	1326.8
67.5°	1901.8	1896.8	1891.8	1864.4	1844.5	1817.1	1784.8	1745.0	1700.1	1650.4	1590.6
65°	2364.8	2372.2	2357.3	2329.9	2292.6	2247.8	2198.0	2140.7	2073.5	1998.9	1914.2
62.5°	2924.8	2937.3	2919.9	2885.0	2837.7	2778.0	2708.3	2626.1	2534.0	2429.5	2324.9
60°	3562.1	3559.6	3527.2	3479.9	3417.7	3343.0	3265.9	3176.3	3071.7	2949.7	2822.8
57.5°	4147.1	4142.1	4102.3	4055.0	3992.7	3913.1	3830.9	3736.3	3626.8	3497.4	3350.5
55°	4672.3	4667.3	4627.5	4577.7	4513.0	4433.3	4358.6	4269.0	4162.0	4025.1	3868.3
52.5°	5137.8	5140.3	5105.4	5050.7	4981.0	4903.8	4831.6	4742.0	4639.9	4503.0	4351.2
50°	5565.9	5563.4	5526.1	5476.3	5411.6	5336.9	5264.7	5175.1	5068.1	4936.2	4789.3
47.5°	5964.2	5959.2	5916.9	5862.1	5794.9	5730.2	5663.0	5583.4	5471.3	5339.4	5192.5
45°	6297.8	6287.8	6245.5	6193.2	6128.5	6071.2	6011.5	5951.8	5832.3	5710.3	5570.9
42.5°	6584.0	6581.5	6539.2	6486.9	6422.2	6372.4	6317.7	6243.0	6143.4	6031.4	5894.5
40°	6857.8	6837.9	6795.6	6745.8	6686.1	6643.8	6589.0	6514.3	6417.2	6307.7	6175.8
37.5°	7062.0	7064.4	7019.6	6964.9	6912.6	6872.8	6823.0	6753.3	6668.7	6561.6	6429.7
35°	7256.1	7243.7	7206.3	7159.0	7111.7	7066.9	7014.7	6954.9	6885.2	6785.7	6661.2
32.5°	7383.1	7400.5	7355.7	7305.9	7278.5	7243.7	7188.9	7126.7	7064.4	6964.9	6852.9
30°	7522.5	7507.5	7472.7	7430.4	7410.4	7388.0	7340.8	7281.0	7208.8	7119.2	7014.7
27.5°	7619.5	7612.1	7569.8	7529.9	7520.0	7500.1	7462.7	7410.4	7338.3	7251.1	7154.1
25°	7661.9	7666.8	7627.0	7604.6	7604.6	7592.2	7562.3	7517.5	7445.3	7365.6	7271.1
22.5°	7681.8	7676.8	7649.4	7644.4	7656.9	7646.9	7634.5	7594.7	7529.9	7465.2	7385.6
20°	7694.2	7659.4	7634.5	7654.4	7669.3	7666.8	7656.9	7632.0	7602.1	7547.4	7477.7
17.5°	7666.8	7644.4	7614.6	7644.4	7676.8	7679.3	7669.3	7654.4	7646.9	7612.1	7549.8
15°	7599.6	7582.2	7587.2	7617.1	7654.4	7666.8	7674.3	7691.7	7681.8	7654.4	7599.6
12.5°	7554.8	7532.4	7554.8	7584.7	7604.6	7612.1	7671.8	7704.2	7704.2	7679.3	7644.4
10°	7542.4	7497.6	7527.4	7554.8	7564.8	7609.6	7659.4	7694.2	7711.6	7691.7	7646.9
7.5°	7517.5	7487.6	7500.1	7512.5	7569.8	7602.1	7629.5	7666.8	7691.7	7689.2	7649.4
5°	7505.0	7467.7	7472.7	7525.0	7564.8	7587.2	7597.1	7629.5	7666.8	7674.3	7644.4
2.5°	7472.7	7455.3	7492.6	7497.6	7527.4	7544.9	7554.8	7584.7	7632.0	7649.4	7637.0
0°	7455.3	7430.4	7405.5	7425.4	7475.2	7512.5	7527.4	7572.2	7627.0	7644.4	7617.1



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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°	69.7	67.2	64.7	62.2	64.7	64.7	64.7	62.2	64.7	62.2	62.2
85°	216.6	206.6	199.1	189.2	179.2	171.8	161.8	151.8	149.4	146.9	141.9
82.5°	373.4	360.9	348.5	333.6	318.6	301.2	283.8	263.9	258.9	253.9	246.4
80°	525.2	507.8	490.4	473.0	458.0	440.6	420.7	398.3	383.3	370.9	356.0
77.5°	684.5	659.6	634.8	604.9	587.5	570.0	550.1	527.7	505.3	485.4	463.0
75°	866.3	838.9	814.0	784.1	751.7	719.4	687.0	657.2	624.8	594.9	565.1
72.5°	1067.9	1028.1	988.2	950.9	911.1	871.2	828.9	789.1	749.3	709.4	667.1
70°	1279.5	1229.7	1179.9	1130.1	1077.8	1025.6	975.8	926.0	876.2	823.9	776.6
67.5°	1528.4	1471.1	1406.4	1336.7	1259.6	1192.3	1127.6	1067.9	1008.1	948.4	888.7
65°	1839.5	1759.9	1672.8	1578.2	1488.6	1398.9	1304.4	1214.7	1145.0	1075.3	1008.1
62.5°	2222.9	2110.9	1988.9	1866.9	1757.4	1640.4	1530.9	1413.9	1304.4	1204.8	1122.6
60°	2680.9	2529.1	2379.7	2222.9	2071.0	1911.7	1772.3	1628.0	1491.1	1369.1	1249.6
57.5°	3186.2	3009.5	2830.3	2638.6	2432.0	2245.3	2056.1	1866.9	1705.1	1543.3	1408.9
55°	3699.0	3512.3	3310.7	3094.1	2867.6	2628.6	2372.2	2160.7	1939.1	1749.9	1575.7
52.5°	4186.9	3992.7	3783.6	3584.5	3313.2	3039.4	2758.1	2479.3	2220.4	1978.9	1767.4
50°	4622.5	4433.3	4231.7	4000.2	3748.8	3457.5	3143.9	2830.3	2524.1	2240.3	1976.5
47.5°	5020.8	4836.6	4635.0	4403.5	4174.4	3850.8	3534.7	3188.7	2847.7	2521.6	2212.9
45°	5394.2	5207.5	4998.4	4776.8	4513.0	4224.2	3898.1	3549.6	3183.7	2817.8	2461.9
42.5°	5732.7	5546.0	5334.4	5105.4	4844.0	4557.8	4241.7	3890.7	3522.3	3124.0	2733.2
40°	6028.9	5847.2	5643.1	5404.1	5160.2	4859.0	4547.8	4214.3	3833.4	3432.7	3002.0
37.5°	6287.8	6118.5	5916.9	5680.4	5421.6	5152.7	4831.6	4498.0	4154.5	3718.9	3278.3
35°	6516.8	6360.0	6153.4	5929.4	5675.5	5391.7	5090.5	4764.4	4393.5	3985.3	3557.1
32.5°	6716.0	6556.6	6367.5	6143.4	5897.0	5630.6	5322.0	4993.4	4642.4	4226.7	3761.2
30°	6885.2	6730.9	6551.7	6340.1	6103.6	5839.7	5538.5	5207.5	4849.0	4435.8	3975.3
27.5°	7032.1	6885.2	6711.0	6514.3	6287.8	6033.9	5730.2	5396.7	5030.7	4632.5	4172.0
25°	7159.0	7017.1	6855.3	6668.7	6444.6	6195.7	5909.4	5560.9	5195.0	4794.3	4338.7
22.5°	7273.5	7136.6	6974.8	6793.1	6589.0	6340.1	6051.3	5705.3	5334.4	4938.6	4490.6
20°	7375.6	7248.6	7089.3	6902.6	6698.5	6447.1	6160.9	5832.3	5458.9	5070.6	4627.5
17.5°	7457.7	7345.7	7186.4	6989.8	6785.7	6541.7	6262.9	5961.7	5565.9	5182.6	4742.0
15°	7515.0	7405.5	7261.1	7062.0	6862.8	6621.4	6342.6	6031.4	5663.0	5272.2	4836.6
12.5°	7554.8	7437.8	7303.4	7119.2	6920.1	6681.1	6409.8	6103.6	5745.2	5351.9	4918.7
10°	7564.8	7457.7	7323.3	7159.0	6964.9	6733.4	6467.0	6163.3	5812.4	5414.1	4985.9
7.5°	7569.8	7467.7	7345.7	7188.9	6997.2	6773.2	6509.3	6210.6	5862.1	5466.4	5035.7
5°	7567.3	7470.2	7360.7	7208.8	7017.1	6795.6	6536.7	6243.0	5897.0	5501.2	5073.1
2.5°	7559.8	7472.7	7370.6	7223.8	7039.6	6820.5	6564.1	6280.3	5934.3	5531.1	5102.9
0°	7579.7	7505.0	7375.6	7218.8	7044.5	6820.5	6561.6	6285.3	5939.3	5528.6	5100.4





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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°	62.2	59.7	59.7	57.3	54.8	52.3	47.3	44.8	39.8	32.4	24.9
85°	134.4	127.0	119.5	114.5	109.5	104.5	97.1	89.6	79.7	64.7	49.8
82.5°	236.5	221.5	206.6	189.2	174.2	159.3	146.9	134.4	119.5	97.1	74.7
80°	338.5	316.1	293.7	268.8	246.4	221.5	199.1	179.2	159.3	129.4	99.6
77.5°	440.6	410.7	378.4	348.5	316.1	283.8	251.4	224.0	194.2	159.3	124.5
75°	535.2	500.3	470.5	428.1	388.3	346.0	303.7	266.3	229.0	186.7	149.4
72.5°	629.8	585.0	542.7	502.8	458.0	405.7	358.4	311.2	263.9	214.1	169.3
70°	724.4	669.6	617.3	570.0	520.2	468.0	410.7	356.0	298.7	239.0	186.7
67.5°	821.4	759.2	699.5	639.7	582.5	522.7	463.0	400.8	333.6	263.9	206.6
65°	928.5	851.3	779.1	711.9	644.7	580.0	512.8	445.6	370.9	291.2	224.0
62.5°	1035.5	950.9	866.3	781.6	706.9	634.8	562.6	487.9	405.7	321.1	241.5
60°	1150.0	1052.9	955.9	861.3	769.2	689.5	609.9	530.2	443.1	348.5	258.9
57.5°	1277.0	1160.0	1050.5	943.4	838.9	744.3	657.2	572.5	475.4	375.9	278.8
55°	1421.4	1277.0	1147.5	1028.1	913.5	799.0	704.5	617.3	512.8	403.3	301.2
52.5°	1573.2	1406.4	1249.6	1115.2	993.2	863.8	749.3	652.2	550.1	430.6	321.1
50°	1749.9	1538.3	1364.1	1199.8	1062.9	928.5	796.6	692.0	587.5	463.0	341.0
47.5°	1931.6	1697.7	1478.6	1299.4	1137.6	990.7	851.3	726.9	622.3	492.9	360.9
45°	2143.2	1849.5	1608.0	1396.5	1209.8	1055.4	906.1	764.2	652.2	522.7	380.9
42.5°	2347.3	2028.7	1742.5	1503.5	1291.9	1117.7	955.9	804.0	682.1	552.6	398.3
40°	2588.8	2208.0	1871.9	1605.6	1374.1	1177.4	1005.7	846.3	709.4	580.0	415.7
37.5°	2820.3	2389.7	2028.7	1717.6	1453.7	1237.1	1055.4	886.2	734.3	607.4	438.1
35°	3049.3	2591.3	2178.1	1822.1	1535.9	1304.4	1105.2	923.5	759.2	629.8	458.0
32.5°	3268.4	2780.5	2329.9	1939.1	1625.5	1366.6	1150.0	958.4	784.1	649.7	477.9
30°	3472.5	2959.7	2479.3	2058.6	1707.6	1423.8	1192.3	993.2	814.0	667.1	497.8
27.5°	3659.2	3133.9	2628.6	2170.6	1784.8	1476.1	1237.1	1025.6	838.9	684.5	515.3
25°	3828.4	3290.8	2765.5	2272.7	1854.5	1533.4	1279.5	1057.9	861.3	699.5	530.2
22.5°	3987.8	3435.1	2890.0	2374.7	1939.1	1590.6	1319.3	1087.8	883.7	714.4	545.1
20°	4127.1	3567.1	3009.5	2476.8	2013.8	1642.9	1354.1	1115.2	903.6	724.4	560.1
17.5°	4239.2	3684.1	3116.5	2566.4	2078.5	1687.7	1384.0	1140.1	921.0	736.8	570.0
15°	4338.7	3783.6	3206.1	2643.6	2135.8	1725.0	1411.4	1160.0	936.0	744.3	582.5
12.5°	4423.4	3868.3	3283.3	2710.8	2185.5	1757.4	1433.8	1174.9	948.4	751.7	589.9
10°	4493.1	3935.5	3348.0	2763.0	2225.4	1782.3	1451.2	1189.9	958.4	759.2	597.4
7.5°	4545.3	3985.3	3395.3	2807.9	2257.7	1799.7	1466.2	1199.8	968.3	764.2	609.9
5°	4585.2	4027.6	3432.7	2837.7	2282.6	1824.6	1483.6	1212.3	978.3	769.2	609.9
2.5°	4615.0	4062.4	3462.5	2862.6	2302.5	1819.6	1483.6	1209.8	978.3	769.2	607.4
0°	4610.1	4064.9	3460.0	2862.6	2302.5	1814.7	1483.6	1207.3	978.3	769.2	607.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.4	12.4	5.0	0.0
85°	37.3	24.9	12.4	0.0
82.5°	54.8	34.8	17.4	0.0
80°	72.2	47.3	22.4	0.0
77.5°	92.1	59.7	29.9	0.0
75°	109.5	69.7	34.8	0.0
72.5°	127.0	82.1	39.8	0.0
70°	141.9	92.1	44.8	0.0
67.5°	156.8	104.5	52.3	0.0
65°	169.3	114.5	57.3	0.0
62.5°	179.2	127.0	62.2	0.0
60°	191.7	136.9	67.2	0.0
57.5°	201.6	144.4	72.2	0.0
55°	211.6	149.4	77.2	0.0
52.5°	221.5	156.8	82.1	0.0
50°	231.5	164.3	87.1	0.0
47.5°	241.5	169.3	89.6	0.0
45°	256.4	176.7	94.6	0.0
42.5°	268.8	181.7	99.6	0.0
40°	281.3	186.7	102.1	0.0
37.5°	293.7	191.7	107.0	0.0
35°	306.2	196.6	109.5	0.0
32.5°	316.1	201.6	112.0	0.0
30°	326.1	206.6	114.5	0.0
27.5°	336.0	209.1	117.0	0.0
25°	343.5	214.1	119.5	0.0
22.5°	351.0	216.6	122.0	0.0
20°	356.0	219.1	124.5	0.0
17.5°	363.4	221.5	127.0	0.0
15°	365.9	224.0	131.9	0.0
12.5°	370.9	226.5	131.9	0.0
10°	373.4	229.0	131.9	0.0
7.5°	378.4	229.0	131.9	0.0
5°	375.9	229.0	131.9	0.0
2.5°	375.9	229.0	131.9	0.0
0°	373.4	229.0	131.9	0.0

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