

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: P628307

Luminaire Tested: **IFLD-S-SA6C-750-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628307  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-750-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43743.2 lumens	Max Intensity:	14258.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	136.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

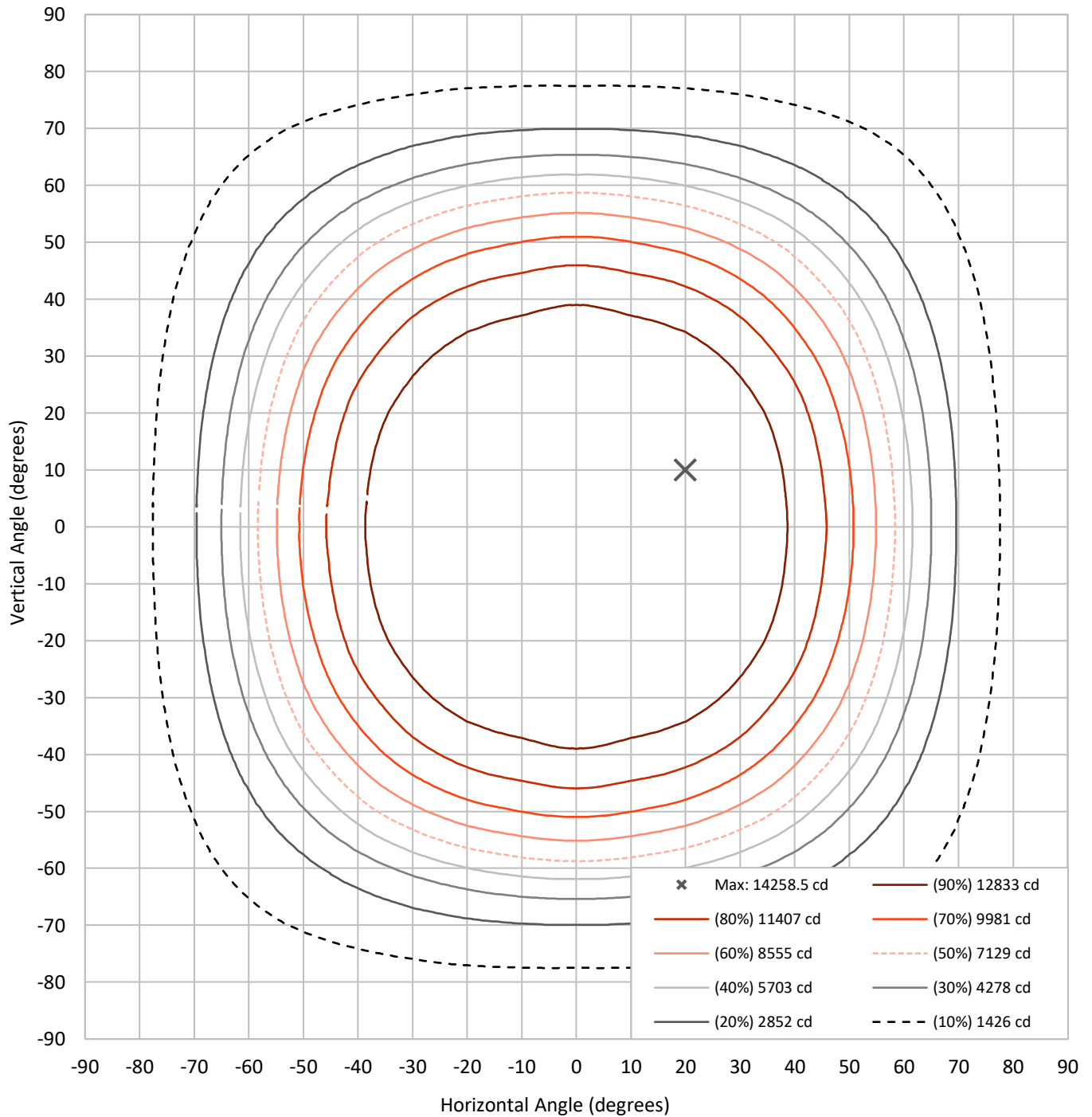
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	26841.7 lumens	Field Lumens:	32178.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5  
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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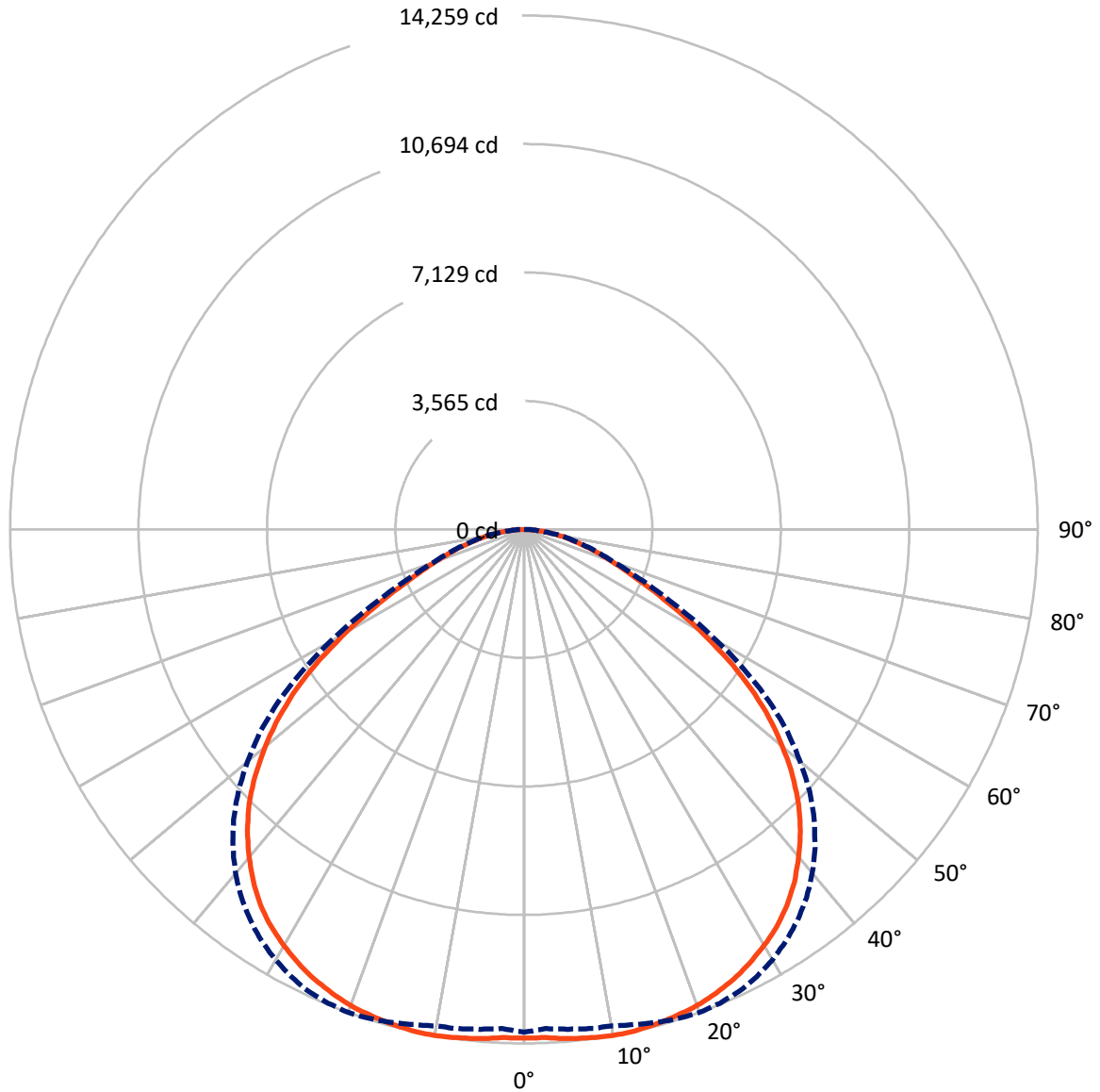
### Iso-Candela Plot





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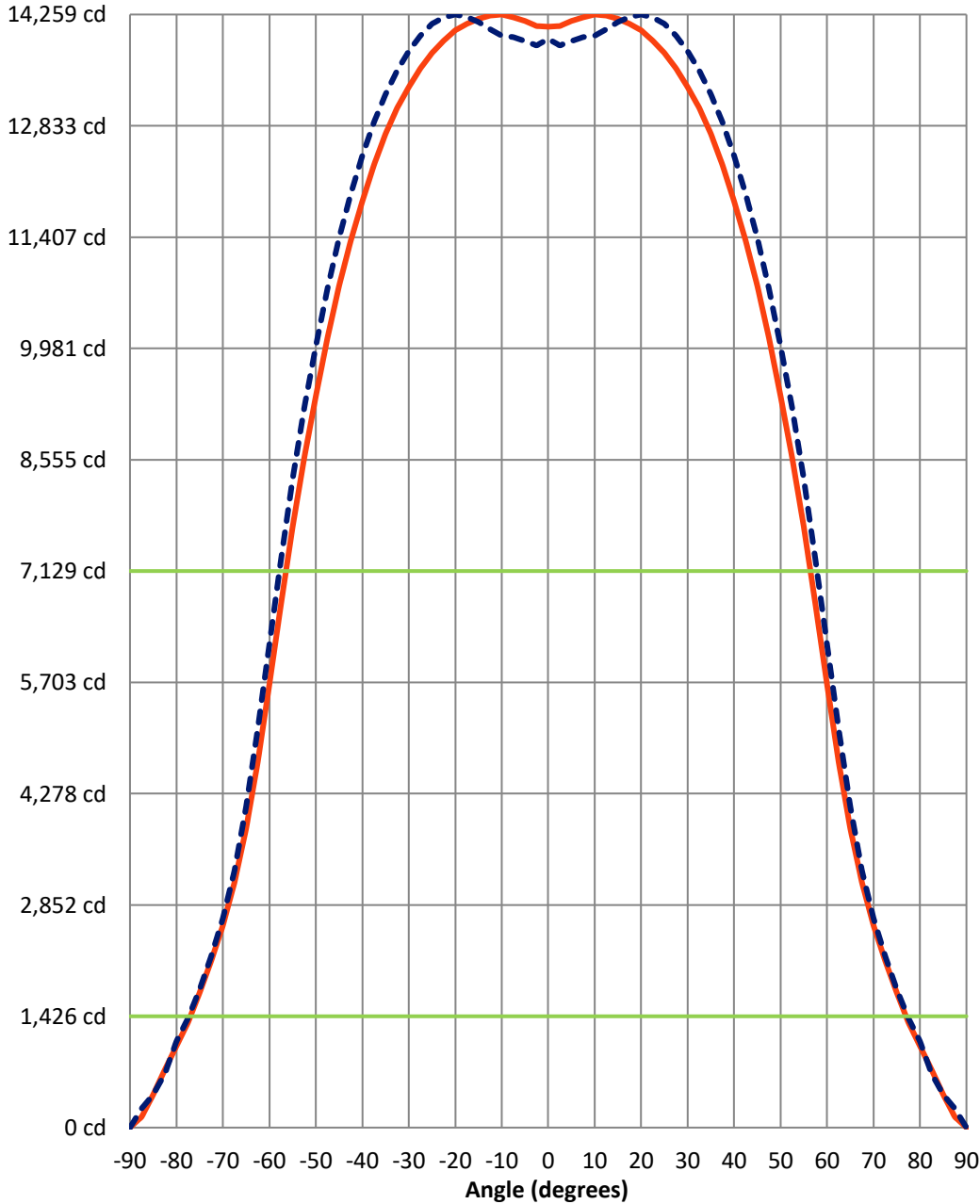
### Luminous Intensity Polar Plot



— 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: 26841.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 32178.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 11564.5  
 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°	115.1	124.3	128.9	133.5	138.1	142.7	147.3	142.7	138.1	138.1	133.5
85°	308.4	317.6	322.2	354.4	386.6	405.0	428.0	423.4	423.4	418.8	414.2
82.5°	616.7	644.3	667.4	699.6	718.0	745.6	764.0	750.2	741.0	722.6	708.8
80°	1095.4	1104.6	1109.2	1113.8	1090.8	1086.2	1077.0	1063.2	1044.8	1021.8	998.7
77.5°	1394.6	1403.8	1413.0	1403.8	1399.2	1394.6	1380.7	1366.9	1348.5	1330.1	1302.5
75°	1845.6	1845.6	1845.6	1831.8	1822.6	1808.8	1785.8	1762.8	1730.5	1693.7	1652.3
72.5°	2324.3	2319.7	2315.1	2287.4	2264.4	2236.8	2204.6	2177.0	2140.2	2098.7	2043.5
70°	2825.9	2835.1	2839.7	2802.9	2775.3	2738.5	2697.1	2646.4	2591.2	2531.4	2453.1
67.5°	3516.3	3507.1	3497.9	3447.3	3410.4	3359.8	3300.0	3226.3	3143.5	3051.5	2941.0
65°	4372.4	4386.2	4358.6	4307.9	4238.9	4156.1	4064.0	3958.1	3833.9	3695.8	3539.3
62.5°	5407.9	5430.9	5398.7	5334.3	5246.8	5136.4	5007.5	4855.6	4685.3	4492.0	4298.7
60°	6586.2	6581.6	6521.7	6434.3	6319.2	6181.2	6038.5	5872.8	5679.5	5454.0	5219.2
57.5°	7667.8	7658.6	7584.9	7497.5	7382.4	7235.1	7083.2	6908.3	6705.8	6466.5	6195.0
55°	8638.9	8629.7	8556.0	8464.0	8344.3	8197.0	8059.0	7893.3	7695.4	7442.2	7152.3
52.5°	9499.5	9504.2	9439.7	9338.5	9209.6	9066.9	8933.4	8767.8	8579.1	8325.9	8045.2
50°	10291.2	10286.6	10217.5	10125.5	10005.8	9867.7	9734.3	9568.6	9370.7	9126.7	8855.2
47.5°	11027.6	11018.4	10940.1	10838.9	10714.6	10594.9	10470.7	10323.4	10116.3	9872.4	9600.8
45°	11644.3	11625.9	11547.7	11451.0	11331.3	11225.5	11115.0	11004.6	10783.6	10558.1	10300.4
42.5°	12173.6	12169.0	12090.8	11994.1	11874.4	11782.4	11681.1	11543.1	11359.0	11151.8	10898.7
40°	12679.9	12643.1	12564.8	12472.8	12362.3	12284.1	12182.8	12044.7	11865.2	11662.7	11418.8
37.5°	13057.3	13061.9	12979.0	12877.8	12781.1	12707.5	12615.4	12486.6	12330.1	12132.2	11888.2
35°	13416.3	13393.3	13324.2	13236.8	13149.3	13066.5	12969.8	12859.4	12730.5	12546.4	12316.3
32.5°	13651.0	13683.2	13600.4	13508.3	13457.7	13393.3	13292.0	13176.9	13061.9	12877.8	12670.7
30°	13908.7	13881.1	13816.7	13738.4	13701.6	13660.2	13572.8	13462.3	13328.8	13163.1	12969.8
27.5°	14088.2	14074.4	13996.2	13922.5	13904.1	13867.3	13798.3	13701.6	13568.2	13407.1	13227.6
25°	14166.5	14175.7	14102.0	14060.6	14060.6	14037.6	13982.4	13899.5	13766.1	13618.8	13443.9
22.5°	14203.3	14194.1	14143.5	14134.3	14157.3	14138.9	14115.9	14042.2	13922.5	13802.9	13655.6
20°	14226.3	14161.9	14115.9	14152.7	14180.3	14175.7	14157.3	14111.2	14056.0	13954.8	13825.9
17.5°	14175.7	14134.3	14079.0	14134.3	14194.1	14198.7	14180.3	14152.7	14138.9	14074.4	13959.4
15°	14051.4	14019.2	14028.4	14083.6	14152.7	14175.7	14189.5	14221.7	14203.3	14152.7	14051.4
12.5°	13968.6	13927.1	13968.6	14023.8	14060.6	14074.4	14184.9	14244.7	14244.7	14198.7	14134.3
10°	13945.6	13862.7	13917.9	13968.6	13987.0	14069.8	14161.9	14226.3	14258.5	14221.7	14138.9
7.5°	13899.5	13844.3	13867.3	13890.3	13996.2	14056.0	14106.6	14175.7	14221.7	14217.1	14143.5
5°	13876.5	13807.5	13816.7	13913.3	13987.0	14028.4	14046.8	14106.6	14175.7	14189.5	14134.3
2.5°	13816.7	13784.5	13853.5	13862.7	13917.9	13950.2	13968.6	14023.8	14111.2	14143.5	14120.5
0°	13784.5	13738.4	13692.4	13729.2	13821.3	13890.3	13917.9	14000.8	14102.0	14134.3	14083.6



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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°	128.9	124.3	119.7	115.1	119.7	119.7	119.7	115.1	119.7	115.1	115.1
85°	400.4	382.0	368.2	349.8	331.4	317.6	299.2	280.8	276.1	271.5	262.3
82.5°	690.4	667.4	644.3	616.7	589.1	556.9	524.7	487.9	478.7	469.5	455.6
80°	971.1	938.9	906.7	874.5	846.9	814.6	777.8	736.4	708.8	685.8	658.2
77.5°	1265.7	1219.7	1173.6	1118.4	1086.2	1054.0	1017.2	975.7	934.3	897.5	856.1
75°	1601.7	1551.0	1505.0	1449.8	1390.0	1330.1	1270.3	1215.1	1155.2	1100.0	1044.8
72.5°	1974.5	1900.8	1827.2	1758.2	1684.5	1610.9	1532.6	1459.0	1385.4	1311.7	1233.5
70°	2365.7	2273.6	2181.6	2089.5	1992.9	1896.2	1804.2	1712.1	1620.1	1523.4	1436.0
67.5°	2825.9	2720.1	2600.4	2471.5	2328.9	2204.6	2084.9	1974.5	1864.0	1753.6	1643.1
65°	3401.2	3254.0	3092.9	2918.0	2752.3	2586.6	2411.7	2246.0	2117.1	1988.3	1864.0
62.5°	4110.0	3902.9	3677.4	3451.9	3249.4	3033.0	2830.5	2614.2	2411.7	2227.6	2075.7
60°	4956.9	4676.1	4400.0	4110.0	3829.3	3534.7	3277.0	3010.0	2756.9	2531.4	2310.5
57.5°	5891.2	5564.4	5233.0	4878.6	4496.6	4151.5	3801.7	3451.9	3152.7	2853.5	2605.0
55°	6839.3	6494.1	6121.3	5720.9	5302.1	4860.2	4386.2	3995.0	3585.3	3235.6	2913.4
52.5°	7741.4	7382.4	6995.8	6627.6	6125.9	5619.6	5099.6	4584.1	4105.4	3659.0	3267.8
50°	8546.8	8197.0	7824.2	7396.2	6931.4	6392.9	5813.0	5233.0	4666.9	4142.2	3654.4
47.5°	9283.2	8942.6	8569.8	8141.8	7718.4	7120.1	6535.5	5895.8	5265.3	4662.3	4091.6
45°	9973.6	9628.4	9241.8	8832.2	8344.3	7810.4	7207.5	6563.2	5886.6	5210.0	4551.9
42.5°	10599.5	10254.4	9863.1	9439.7	8956.5	8427.2	7842.7	7193.7	6512.5	5776.1	5053.5
40°	11147.2	10811.3	10433.9	9992.0	9541.0	8984.1	8408.8	7792.0	7087.8	6346.8	5550.6
37.5°	11625.9	11312.9	10940.1	10502.9	10024.2	9527.2	8933.4	8316.7	7681.6	6876.1	6061.5
35°	12049.3	11759.4	11377.4	10963.1	10493.7	9969.0	9412.1	8809.2	8123.4	7368.6	6577.0
32.5°	12417.5	12123.0	11773.2	11359.0	10903.3	10410.8	9840.1	9232.6	8583.7	7815.0	6954.4
30°	12730.5	12445.1	12113.8	11722.6	11285.3	10797.5	10240.6	9628.4	8965.7	8201.6	7350.2
27.5°	13002.0	12730.5	12408.3	12044.7	11625.9	11156.4	10594.9	9978.2	9301.6	8565.2	7713.8
25°	13236.8	12974.4	12675.3	12330.1	11915.9	11455.6	10926.3	10282.0	9605.4	8864.4	8022.1
22.5°	13448.5	13195.4	12896.2	12560.2	12182.8	11722.6	11188.7	10548.9	9863.1	9131.3	8302.9
20°	13637.2	13402.5	13107.9	12762.7	12385.3	11920.5	11391.2	10783.6	10093.3	9375.3	8556.0
17.5°	13789.1	13582.0	13287.4	12923.8	12546.4	12095.4	11579.9	11023.0	10291.2	9582.4	8767.8
15°	13894.9	13692.4	13425.5	13057.3	12689.1	12242.6	11727.2	11151.8	10470.7	9748.1	8942.6
12.5°	13968.6	13752.3	13503.7	13163.1	12794.9	12353.1	11851.4	11285.3	10622.6	9895.4	9094.5
10°	13987.0	13789.1	13540.5	13236.8	12877.8	12449.7	11957.3	11395.8	10746.8	10010.4	9218.8
7.5°	13996.2	13807.5	13582.0	13292.0	12937.6	12523.4	12035.5	11483.2	10838.9	10107.1	9310.8
5°	13991.6	13812.1	13609.6	13328.8	12974.4	12564.8	12086.2	11543.1	10903.3	10171.5	9379.9
2.5°	13977.8	13816.7	13628.0	13356.4	13015.9	12610.8	12136.8	11612.1	10972.3	10226.7	9435.1
0°	14014.6	13876.5	13637.2	13347.2	13025.1	12610.8	12132.2	11621.3	10981.6	10222.1	9430.5





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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°	115.1	110.5	110.5	105.9	101.3	96.7	87.4	82.8	73.6	59.8	46.0
85°	248.5	234.7	220.9	211.7	202.5	193.3	179.5	165.7	147.3	119.7	92.0
82.5°	437.2	409.6	382.0	349.8	322.2	294.6	271.5	248.5	220.9	179.5	138.1
80°	625.9	584.5	543.1	497.1	455.6	409.6	368.2	331.4	294.6	239.3	184.1
77.5°	814.6	759.4	699.6	644.3	584.5	524.7	464.9	414.2	359.0	294.6	230.1
75°	989.5	925.1	869.9	791.6	718.0	639.7	561.5	492.5	423.4	345.2	276.1
72.5°	1164.4	1081.6	1003.3	929.7	846.9	750.2	662.8	575.3	487.9	395.8	313.0
70°	1339.3	1238.1	1141.4	1054.0	961.9	865.3	759.4	658.2	552.3	441.8	345.2
67.5°	1518.8	1403.8	1293.3	1182.8	1077.0	966.5	856.1	741.0	616.7	487.9	382.0
65°	1716.7	1574.1	1440.6	1316.3	1192.0	1072.4	948.1	823.8	685.8	538.5	414.2
62.5°	1914.6	1758.2	1601.7	1445.2	1307.1	1173.6	1040.2	902.1	750.2	593.7	446.4
60°	2126.4	1946.9	1767.4	1592.5	1422.2	1274.9	1127.6	980.3	819.2	644.3	478.7
57.5°	2361.1	2144.8	1942.3	1744.3	1551.0	1376.1	1215.1	1058.6	879.1	695.0	515.5
55°	2628.0	2361.1	2121.8	1900.8	1689.1	1477.4	1302.5	1141.4	948.1	745.6	556.9
52.5°	2908.8	2600.4	2310.5	2061.9	1836.4	1597.1	1385.4	1205.9	1017.2	796.2	593.7
50°	3235.6	2844.3	2522.2	2218.4	1965.3	1716.7	1472.8	1279.5	1086.2	856.1	630.5
47.5°	3571.5	3138.9	2733.9	2402.5	2103.3	1831.8	1574.1	1343.9	1150.6	911.3	667.4
45°	3962.7	3419.7	2973.2	2582.0	2236.8	1951.5	1675.3	1413.0	1205.9	966.5	704.2
42.5°	4340.2	3751.0	3221.7	2779.9	2388.7	2066.5	1767.4	1486.6	1261.1	1021.8	736.4
40°	4786.6	4082.4	3461.1	2968.6	2540.6	2177.0	1859.4	1564.8	1311.7	1072.4	768.6
37.5°	5214.6	4418.4	3751.0	3175.7	2687.9	2287.4	1951.5	1638.5	1357.7	1123.0	810.0
35°	5638.1	4791.2	4027.2	3369.0	2839.7	2411.7	2043.5	1707.5	1403.8	1164.4	846.9
32.5°	6043.1	5141.0	4307.9	3585.3	3005.4	2526.8	2126.4	1772.0	1449.8	1201.3	883.7
30°	6420.5	5472.4	4584.1	3806.3	3157.3	2632.6	2204.6	1836.4	1505.0	1233.5	920.5
27.5°	6765.7	5794.5	4860.2	4013.4	3300.0	2729.3	2287.4	1896.2	1551.0	1265.7	952.7
25°	7078.6	6084.5	5113.4	4202.1	3428.9	2835.1	2365.7	1956.1	1592.5	1293.3	980.3
22.5°	7373.2	6351.4	5343.5	4390.8	3585.3	2941.0	2439.3	2011.3	1633.9	1320.9	1007.9
20°	7630.9	6595.4	5564.4	4579.5	3723.4	3037.6	2503.8	2061.9	1670.7	1339.3	1035.6
17.5°	7838.0	6811.7	5762.3	4745.2	3843.1	3120.5	2559.0	2107.9	1702.9	1362.3	1054.0
15°	8022.1	6995.8	5928.0	4887.8	3948.9	3189.5	2609.6	2144.8	1730.5	1376.1	1077.0
12.5°	8178.6	7152.3	6070.7	5012.1	4041.0	3249.4	2651.0	2172.4	1753.6	1390.0	1090.8
10°	8307.5	7276.5	6190.4	5108.8	4114.6	3295.4	2683.3	2200.0	1772.0	1403.8	1104.6
7.5°	8404.2	7368.6	6277.8	5191.6	4174.5	3327.6	2710.9	2218.4	1790.4	1413.0	1127.6
5°	8477.8	7446.8	6346.8	5246.8	4220.5	3373.6	2743.1	2241.4	1808.8	1422.2	1127.6
2.5°	8533.0	7511.3	6402.1	5292.9	4257.3	3364.4	2743.1	2236.8	1808.8	1422.2	1123.0
0°	8523.8	7515.9	6397.5	5292.9	4257.3	3355.2	2743.1	2232.2	1808.8	1422.2	1123.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	32.2	23.0	9.2	0.0
85°	69.0	46.0	23.0	0.0
82.5°	101.3	64.4	32.2	0.0
80°	133.5	87.4	41.4	0.0
77.5°	170.3	110.5	55.2	0.0
75°	202.5	128.9	64.4	0.0
72.5°	234.7	151.9	73.6	0.0
70°	262.3	170.3	82.8	0.0
67.5°	290.0	193.3	96.7	0.0
65°	313.0	211.7	105.9	0.0
62.5°	331.4	234.7	115.1	0.0
60°	354.4	253.1	124.3	0.0
57.5°	372.8	266.9	133.5	0.0
55°	391.2	276.1	142.7	0.0
52.5°	409.6	290.0	151.9	0.0
50°	428.0	303.8	161.1	0.0
47.5°	446.4	313.0	165.7	0.0
45°	474.1	326.8	174.9	0.0
42.5°	497.1	336.0	184.1	0.0
40°	520.1	345.2	188.7	0.0
37.5°	543.1	354.4	197.9	0.0
35°	566.1	363.6	202.5	0.0
32.5°	584.5	372.8	207.1	0.0
30°	602.9	382.0	211.7	0.0
27.5°	621.3	386.6	216.3	0.0
25°	635.1	395.8	220.9	0.0
22.5°	649.0	400.4	225.5	0.0
20°	658.2	405.0	230.1	0.0
17.5°	672.0	409.6	234.7	0.0
15°	676.6	414.2	243.9	0.0
12.5°	685.8	418.8	243.9	0.0
10°	690.4	423.4	243.9	0.0
7.5°	699.6	423.4	243.9	0.0
5°	695.0	423.4	243.9	0.0
2.5°	695.0	423.4	243.9	0.0
0°	690.4	423.4	243.9	0.0

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