

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: P628548

Luminaire Tested: **IFLD-L-SA7B-950-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628548  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-950-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

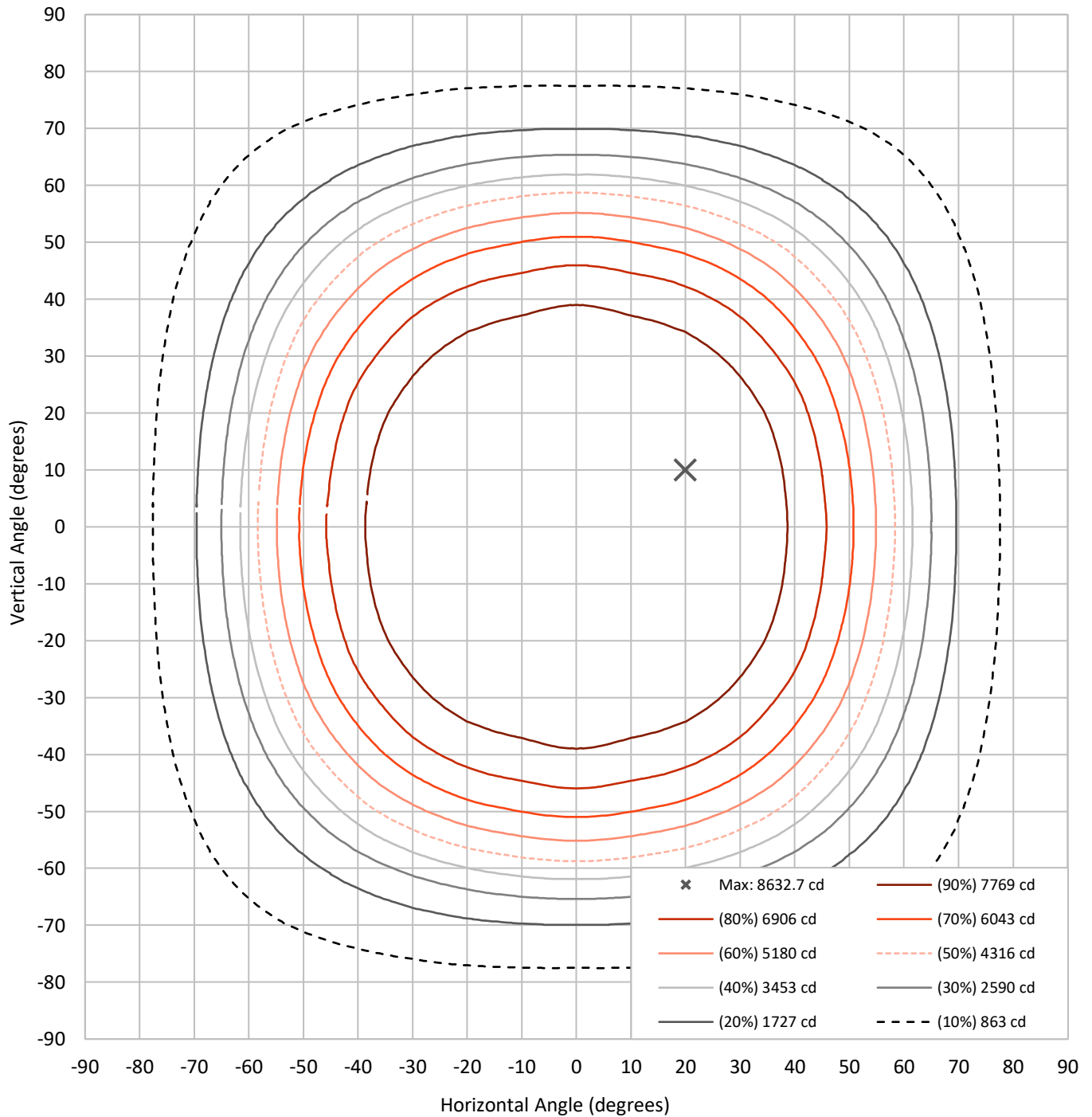
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26484 lumens	Max Intensity:	8632.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	16251.1 lumens	Field Lumens:	19482.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281  
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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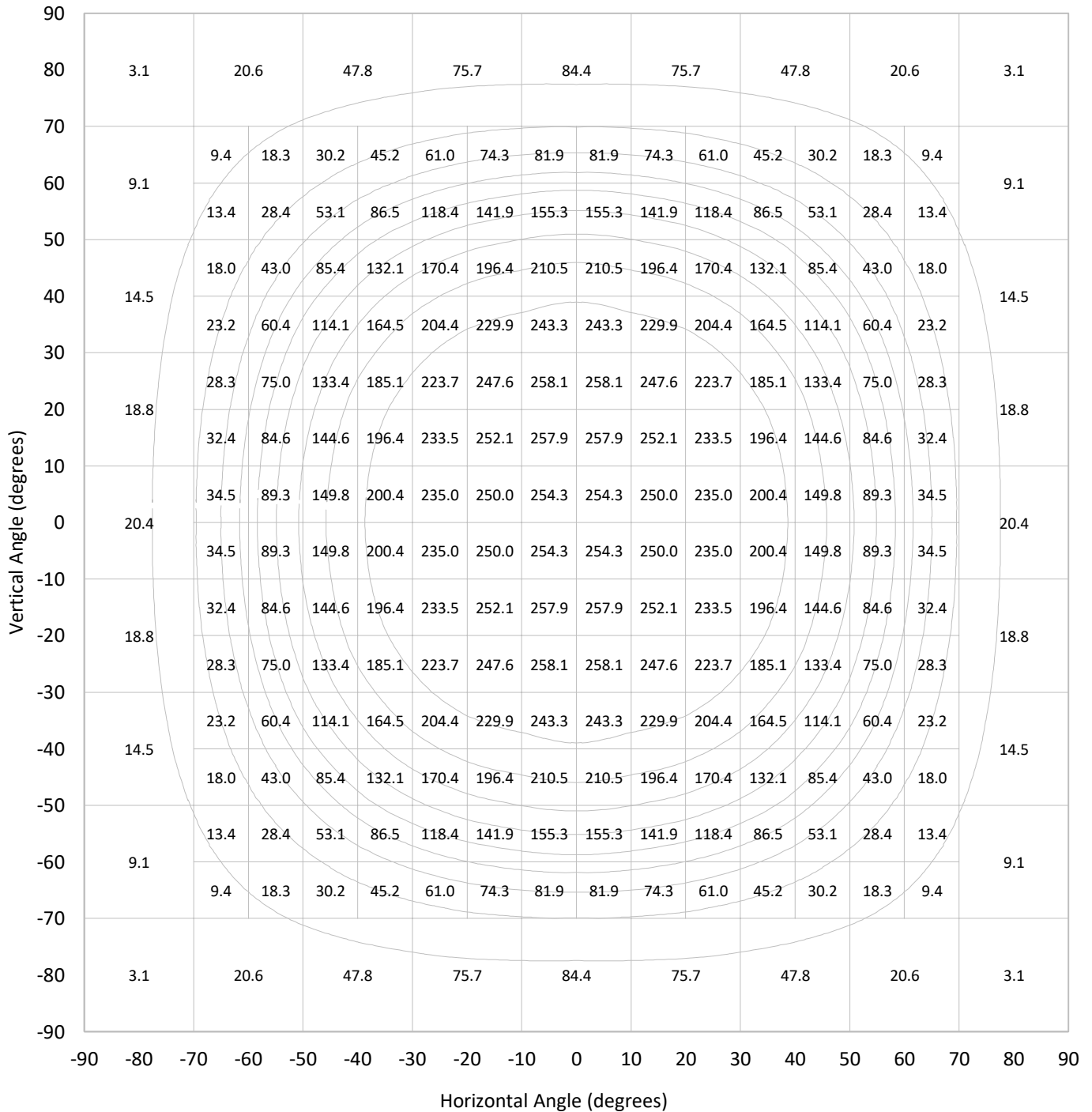
### Iso-Candela Plot





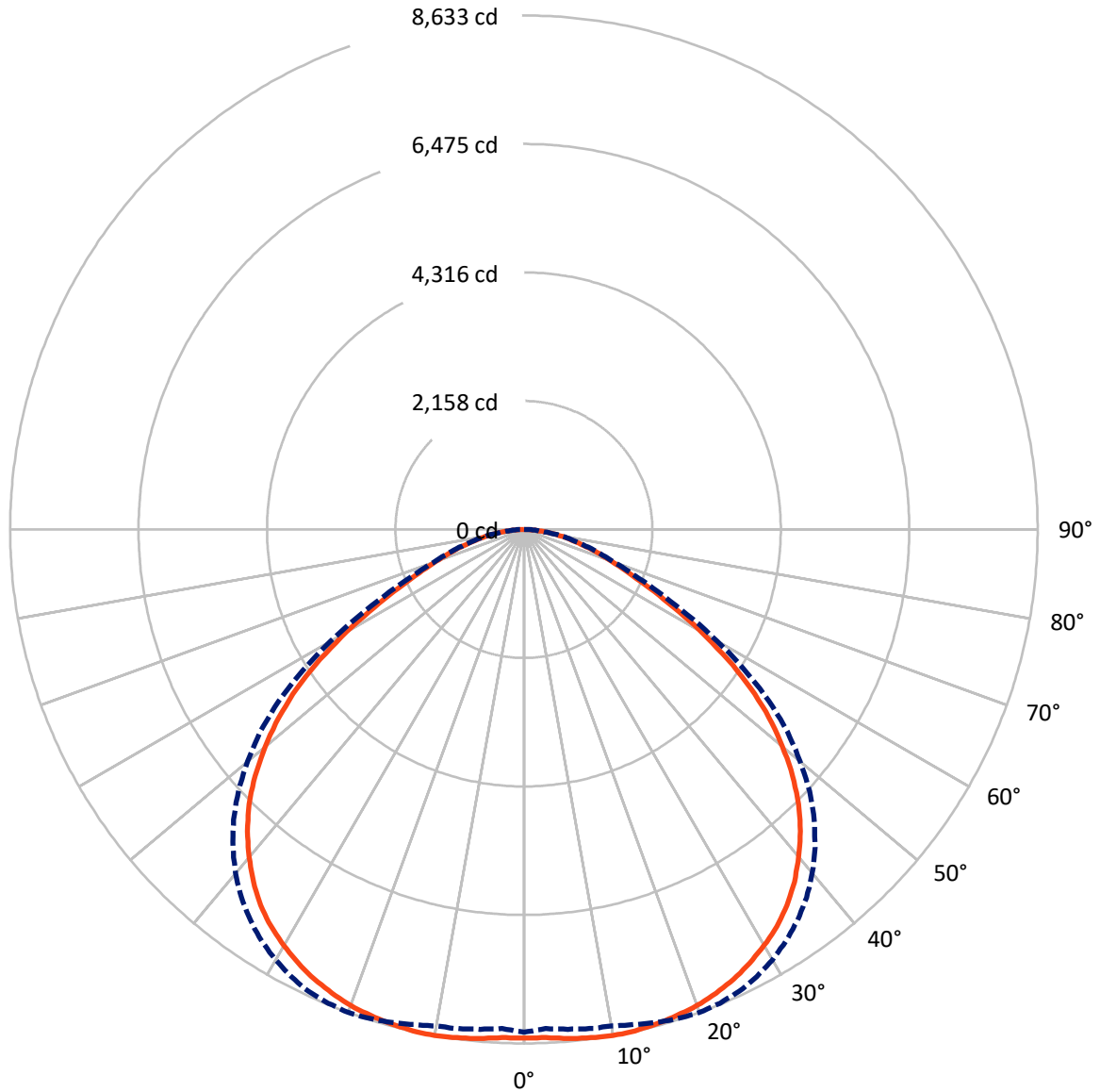
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### Lumen Table



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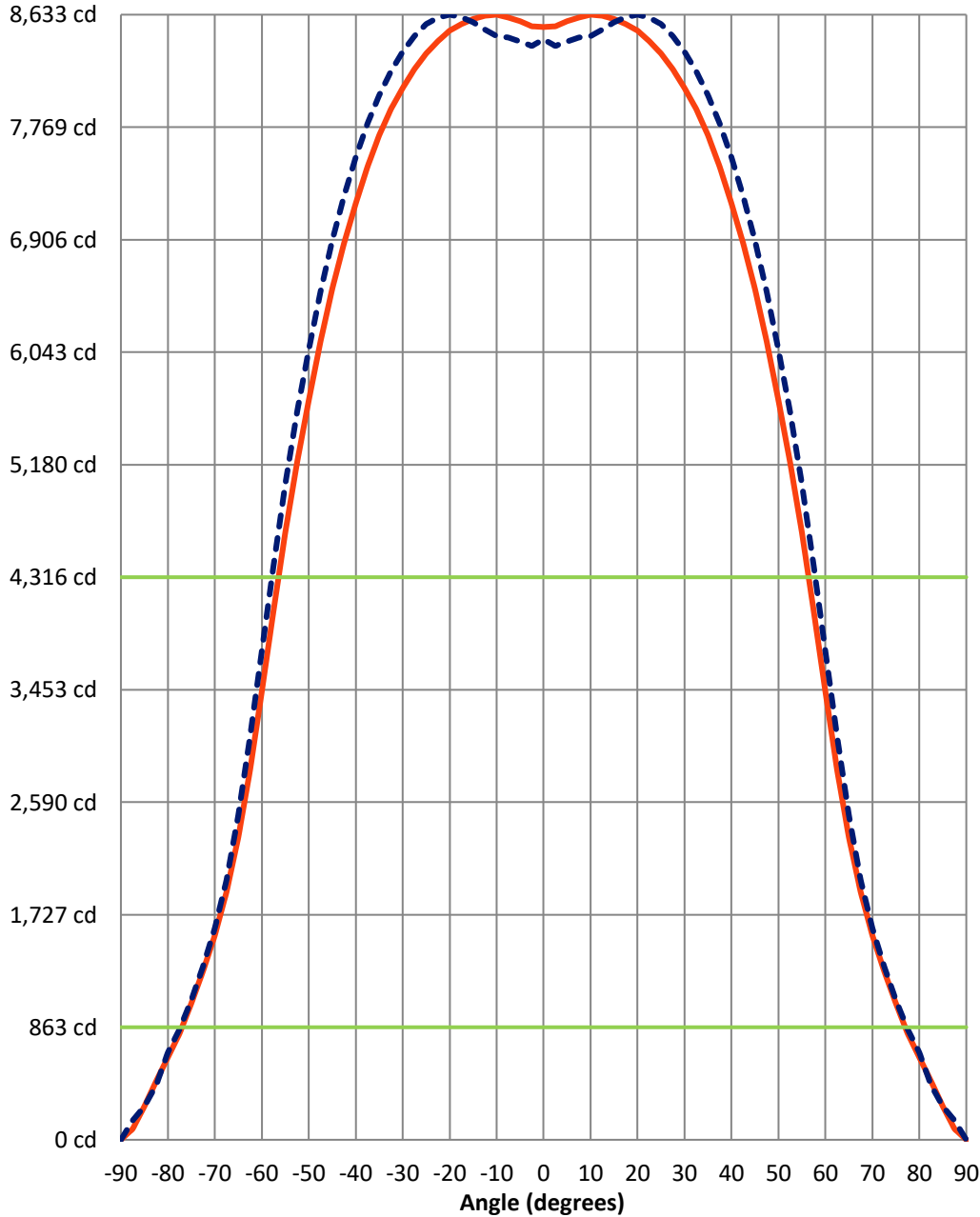
### Luminous Intensity Polar Plot



— 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: 16251.1  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 19482.3  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 7001.7  
 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°	69.7	75.2	78.0	80.8	83.6	86.4	89.2	86.4	83.6	83.6	80.8
85°	186.7	192.3	195.1	214.6	234.1	245.2	259.1	256.4	253.6	253.6	250.8
82.5°	373.4	390.1	404.0	423.6	434.7	451.4	462.6	454.2	437.5	437.5	429.1
80°	663.2	668.8	671.6	674.3	660.4	657.6	652.1	643.7	618.6	618.6	604.7
77.5°	844.3	849.9	855.5	849.9	847.1	844.3	836.0	827.6	805.3	805.3	788.6
75°	1117.4	1117.4	1117.4	1109.0	1103.5	1095.1	1081.2	1067.2	1025.4	1025.4	1000.4
72.5°	1407.2	1404.4	1401.6	1384.9	1371.0	1354.3	1334.8	1318.0	1270.7	1270.7	1237.2
70°	1710.9	1716.5	1719.3	1697.0	1680.3	1658.0	1632.9	1602.3	1532.6	1532.6	1485.2
67.5°	2128.9	2123.3	2117.8	2087.1	2064.8	2034.2	1997.9	1953.4	1847.5	1847.5	1780.6
65°	2647.2	2655.6	2638.9	2608.2	2566.4	2516.2	2460.5	2396.4	2237.6	2237.6	2142.8
62.5°	3274.2	3288.1	3268.6	3229.6	3176.7	3109.8	3031.8	2939.8	2719.7	2719.7	2602.6
60°	3987.5	3984.8	3948.5	3895.6	3825.9	3742.3	3655.9	3555.6	3302.1	3302.1	3159.9
57.5°	4642.4	4636.8	4592.2	4539.3	4469.6	4380.4	4288.5	4182.6	3915.1	3915.1	3750.7
55°	5230.3	5224.8	5180.2	5124.4	5052.0	4962.8	4879.2	4778.9	4505.8	4505.8	4330.3
52.5°	5751.4	5754.2	5715.2	5653.9	5575.9	5489.5	5408.7	5308.4	5040.9	5040.9	4870.9
50°	6230.7	6227.9	6186.1	6130.4	6057.9	5974.3	5893.5	5793.2	5525.7	5525.7	5361.3
47.5°	6676.6	6671.0	6623.6	6562.3	6487.1	6414.6	6339.4	6250.2	5977.1	5977.1	5812.7
45°	7049.9	7038.8	6991.4	6932.9	6860.5	6796.4	6729.5	6662.6	6392.3	6392.3	6236.3
42.5°	7370.4	7367.6	7320.2	7261.7	7189.3	7133.5	7072.2	6988.6	6751.8	6751.8	6598.5
40°	7676.9	7654.6	7607.3	7551.5	7484.6	7437.3	7376.0	7292.4	7061.1	7061.1	6913.4
37.5°	7905.4	7908.2	7858.0	7796.7	7738.2	7693.6	7637.9	7559.9	7345.3	7345.3	7197.6
35°	8122.8	8108.8	8067.0	8014.1	7961.1	7911.0	7852.5	7785.6	7596.1	7596.1	7456.8
32.5°	8264.9	8284.4	8234.2	8178.5	8147.8	8108.8	8047.5	7977.9	7796.7	7796.7	7671.3
30°	8420.9	8404.2	8365.2	8317.8	8295.5	8270.5	8217.5	8150.6	7969.5	7969.5	7852.5
27.5°	8529.6	8521.2	8473.9	8429.3	8418.1	8395.8	8354.0	8295.5	8117.2	8117.2	8008.5
25°	8577.0	8582.5	8538.0	8512.9	8512.9	8498.9	8465.5	8415.4	8245.4	8245.4	8139.5
22.5°	8599.3	8593.7	8563.0	8557.5	8571.4	8560.3	8546.3	8501.7	8356.8	8356.8	8267.7
20°	8613.2	8574.2	8546.3	8568.6	8585.3	8582.5	8571.4	8543.5	8448.8	8448.8	8370.8
17.5°	8582.5	8557.5	8524.0	8557.5	8593.7	8596.5	8585.3	8568.6	8521.2	8521.2	8451.6
15°	8507.3	8487.8	8493.4	8526.8	8568.6	8582.5	8590.9	8610.4	8568.6	8568.6	8507.3
12.5°	8457.2	8432.1	8457.2	8490.6	8512.9	8521.2	8588.1	8624.3	8596.5	8596.5	8557.5
10°	8443.2	8393.1	8426.5	8457.2	8468.3	8518.5	8574.2	8613.2	8610.4	8610.4	8560.3
7.5°	8415.4	8381.9	8395.8	8409.8	8473.9	8510.1	8540.7	8582.5	8607.6	8607.6	8563.0
5°	8401.4	8359.6	8365.2	8423.7	8468.3	8493.4	8504.5	8540.7	8590.9	8590.9	8557.5
2.5°	8365.2	8345.7	8387.5	8393.1	8426.5	8446.0	8457.2	8490.6	8563.0	8563.0	8549.1
0°	8345.7	8317.8	8290.0	8312.3	8368.0	8409.8	8426.5	8476.7	8557.5	8557.5	8526.8



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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°	78.0	75.2	72.5	69.7	72.5	72.5	72.5	69.7	72.5	69.7	69.7
85°	242.4	231.3	222.9	211.8	200.6	192.3	181.1	170.0	167.2	164.4	158.8
82.5°	418.0	404.0	390.1	373.4	356.7	337.2	317.7	295.4	289.8	284.2	275.9
80°	588.0	568.5	548.9	529.4	512.7	493.2	470.9	445.8	429.1	415.2	398.5
77.5°	766.3	738.4	710.6	677.1	657.6	638.1	615.8	590.7	565.7	543.4	518.3
75°	969.7	939.1	911.2	877.8	841.5	805.3	769.1	735.6	699.4	666.0	632.5
72.5°	1195.4	1150.8	1106.3	1064.5	1019.9	975.3	927.9	883.3	838.7	794.2	746.8
70°	1432.3	1376.6	1320.8	1265.1	1206.6	1148.1	1092.3	1036.6	980.9	922.3	869.4
67.5°	1710.9	1646.8	1574.4	1496.4	1410.0	1334.8	1262.3	1195.4	1128.5	1061.7	994.8
65°	2059.3	1970.1	1872.6	1766.7	1666.4	1566.0	1460.1	1359.8	1281.8	1203.8	1128.5
62.5°	2488.4	2363.0	2226.4	2089.9	1967.3	1836.3	1713.7	1582.8	1460.1	1348.7	1256.7
60°	3001.1	2831.1	2663.9	2488.4	2318.4	2140.1	1984.0	1822.4	1669.1	1532.6	1398.8
57.5°	3566.8	3368.9	3168.3	2953.7	2722.5	2513.5	2301.7	2089.9	1908.8	1727.7	1577.2
55°	4140.8	3931.8	3706.1	3463.7	3210.1	2942.6	2655.6	2418.7	2170.7	1958.9	1763.9
52.5°	4687.0	4469.6	4235.5	4012.6	3708.9	3402.4	3087.5	2775.4	2485.6	2215.3	1978.4
50°	5174.6	4962.8	4737.1	4478.0	4196.5	3870.5	3519.4	3168.3	2825.6	2507.9	2212.5
47.5°	5620.5	5414.2	5188.5	4929.4	4673.0	4310.8	3956.9	3569.6	3187.8	2822.8	2477.2
45°	6038.4	5829.4	5595.4	5347.4	5052.0	4728.8	4363.7	3973.6	3564.0	3154.4	2755.9
42.5°	6417.4	6208.4	5971.6	5715.2	5422.6	5102.2	4748.3	4355.4	3943.0	3497.1	3059.6
40°	6749.0	6545.6	6317.1	6049.6	5776.5	5439.3	5091.0	4717.6	4291.3	3842.6	3360.6
37.5°	7038.8	6849.3	6623.6	6358.9	6069.1	5768.1	5408.7	5035.3	4650.7	4163.1	3669.9
35°	7295.2	7119.6	6888.3	6637.5	6353.3	6035.6	5698.5	5333.4	4918.2	4461.3	3982.0
32.5°	7518.1	7339.7	7128.0	6877.2	6601.3	6303.2	5957.6	5589.8	5196.9	4731.5	4210.5
30°	7707.6	7534.8	7334.2	7097.3	6832.6	6537.2	6200.1	5829.4	5428.2	4965.6	4450.1
27.5°	7872.0	7707.6	7512.5	7292.4	7038.8	6754.6	6414.6	6041.2	5631.6	5185.8	4670.2
25°	8014.1	7855.3	7674.1	7465.1	7214.4	6935.7	6615.2	6225.1	5815.5	5366.9	4856.9
22.5°	8142.3	7989.0	7807.9	7604.5	7376.0	7097.3	6774.1	6386.8	5971.6	5528.5	5026.9
20°	8256.5	8114.4	7936.1	7727.1	7498.6	7217.1	6896.7	6528.9	6110.9	5676.2	5180.2
17.5°	8348.5	8223.1	8044.7	7824.6	7596.1	7323.0	7010.9	6673.8	6230.7	5801.6	5308.4
15°	8412.6	8290.0	8128.3	7905.4	7682.5	7412.2	7100.1	6751.8	6339.4	5901.9	5414.2
12.5°	8457.2	8326.2	8175.7	7969.5	7746.6	7479.1	7175.3	6832.6	6431.3	5991.1	5506.2
10°	8468.3	8348.5	8198.0	8014.1	7796.7	7537.6	7239.4	6899.5	6506.6	6060.7	5581.4
7.5°	8473.9	8359.6	8223.1	8047.5	7833.0	7582.2	7286.8	6952.4	6562.3	6119.2	5637.2
5°	8471.1	8362.4	8239.8	8069.8	7855.3	7607.3	7317.5	6988.6	6601.3	6158.3	5679.0
2.5°	8462.7	8365.2	8250.9	8086.5	7880.3	7635.1	7348.1	7030.4	6643.1	6191.7	5712.4
0°	8485.0	8401.4	8256.5	8081.0	7885.9	7635.1	7345.3	7036.0	6648.7	6188.9	5709.6





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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°	69.7	66.9	66.9	64.1	61.3	58.5	52.9	50.2	44.6	36.2	27.9
85°	150.5	142.1	133.8	128.2	122.6	117.0	108.7	100.3	89.2	72.5	55.7
82.5°	264.7	248.0	231.3	211.8	195.1	178.3	164.4	150.5	133.8	108.7	83.6
80°	379.0	353.9	328.8	300.9	275.9	248.0	222.9	200.6	178.3	144.9	111.5
77.5°	493.2	459.8	423.6	390.1	353.9	317.7	281.4	250.8	217.4	178.3	139.3
75°	599.1	560.1	526.7	479.3	434.7	387.3	340.0	298.2	256.4	209.0	167.2
72.5°	705.0	654.8	607.5	562.9	512.7	454.2	401.3	348.3	295.4	239.6	189.5
70°	810.9	749.6	691.1	638.1	582.4	523.9	459.8	398.5	334.4	267.5	209.0
67.5°	919.6	849.9	783.0	716.1	652.1	585.2	518.3	448.6	373.4	295.4	231.3
65°	1039.4	953.0	872.2	797.0	721.7	649.3	574.0	498.8	415.2	326.0	250.8
62.5°	1159.2	1064.5	969.7	875.0	791.4	710.6	629.8	546.2	454.2	359.5	270.3
60°	1287.4	1178.7	1070.0	964.1	861.0	771.9	682.7	593.5	496.0	390.1	289.8
57.5°	1429.5	1298.5	1175.9	1056.1	939.1	833.2	735.6	640.9	532.2	420.8	312.1
55°	1591.1	1429.5	1284.6	1150.8	1022.7	894.5	788.6	691.1	574.0	451.4	337.2
52.5°	1761.1	1574.4	1398.8	1248.4	1111.8	966.9	838.7	730.1	615.8	482.1	359.5
50°	1958.9	1722.1	1527.0	1343.1	1189.9	1039.4	891.7	774.7	657.6	518.3	381.8
47.5°	2162.4	1900.4	1655.2	1454.6	1273.4	1109.0	953.0	813.7	696.6	551.7	404.0
45°	2399.2	2070.4	1800.1	1563.2	1354.3	1181.5	1014.3	855.5	730.1	585.2	426.3
42.5°	2627.7	2271.0	1950.6	1683.1	1446.2	1251.2	1070.0	900.1	763.5	618.6	445.8
40°	2898.0	2471.7	2095.5	1797.3	1538.2	1318.0	1125.8	947.4	794.2	649.3	465.4
37.5°	3157.2	2675.1	2271.0	1922.7	1627.3	1384.9	1181.5	992.0	822.0	679.9	490.4
35°	3413.5	2900.8	2438.2	2039.7	1719.3	1460.1	1237.2	1033.8	849.9	705.0	512.7
32.5°	3658.7	3112.6	2608.2	2170.7	1819.6	1529.8	1287.4	1072.8	877.8	727.3	535.0
30°	3887.2	3313.2	2775.4	2304.5	1911.6	1593.9	1334.8	1111.8	911.2	746.8	557.3
27.5°	4096.2	3508.3	2942.6	2429.9	1997.9	1652.4	1384.9	1148.1	939.1	766.3	576.8
25°	4285.7	3683.8	3095.8	2544.1	2076.0	1716.5	1432.3	1184.3	964.1	783.0	593.5
22.5°	4464.0	3845.4	3235.2	2658.4	2170.7	1780.6	1476.9	1217.7	989.2	799.7	610.3
20°	4620.1	3993.1	3368.9	2772.6	2254.3	1839.1	1515.9	1248.4	1011.5	810.9	627.0
17.5°	4745.5	4124.1	3488.7	2872.9	2326.8	1889.3	1549.3	1276.2	1031.0	824.8	638.1
15°	4856.9	4235.5	3589.1	2959.3	2390.9	1931.1	1580.0	1298.5	1047.7	833.2	652.1
12.5°	4951.7	4330.3	3675.4	3034.5	2446.6	1967.3	1605.0	1315.2	1061.7	841.5	660.4
10°	5029.7	4405.5	3747.9	3093.1	2491.2	1995.2	1624.6	1332.0	1072.8	849.9	668.8
7.5°	5088.2	4461.3	3800.8	3143.2	2527.4	2014.7	1641.3	1343.1	1084.0	855.5	682.7
5°	5132.8	4508.6	3842.6	3176.7	2555.3	2042.5	1660.8	1357.0	1095.1	861.0	682.7
2.5°	5166.2	4547.6	3876.1	3204.5	2577.6	2037.0	1660.8	1354.3	1095.1	861.0	679.9
0°	5160.7	4550.4	3873.3	3204.5	2577.6	2031.4	1660.8	1351.5	1095.1	861.0	679.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.5	13.9	5.6	0.0
85°	41.8	27.9	13.9	0.0
82.5°	61.3	39.0	19.5	0.0
80°	80.8	52.9	25.1	0.0
77.5°	103.1	66.9	33.4	0.0
75°	122.6	78.0	39.0	0.0
72.5°	142.1	92.0	44.6	0.0
70°	158.8	103.1	50.2	0.0
67.5°	175.6	117.0	58.5	0.0
65°	189.5	128.2	64.1	0.0
62.5°	200.6	142.1	69.7	0.0
60°	214.6	153.3	75.2	0.0
57.5°	225.7	161.6	80.8	0.0
55°	236.9	167.2	86.4	0.0
52.5°	248.0	175.6	92.0	0.0
50°	259.1	183.9	97.5	0.0
47.5°	270.3	189.5	100.3	0.0
45°	287.0	197.8	105.9	0.0
42.5°	300.9	203.4	111.5	0.0
40°	314.9	209.0	114.2	0.0
37.5°	328.8	214.6	119.8	0.0
35°	342.7	220.1	122.6	0.0
32.5°	353.9	225.7	125.4	0.0
30°	365.0	231.3	128.2	0.0
27.5°	376.2	234.1	131.0	0.0
25°	384.5	239.6	133.8	0.0
22.5°	392.9	242.4	136.5	0.0
20°	398.5	245.2	139.3	0.0
17.5°	406.8	248.0	142.1	0.0
15°	409.6	250.8	147.7	0.0
12.5°	415.2	253.6	147.7	0.0
10°	418.0	256.4	147.7	0.0
7.5°	423.6	256.4	147.7	0.0
5°	420.8	256.4	147.7	0.0
2.5°	420.8	256.4	147.7	0.0
0°	418.0	256.4	147.7	0.0

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