

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: P628545

Luminaire Tested: **IFLD-M-SA4D-950-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628545  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-950-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

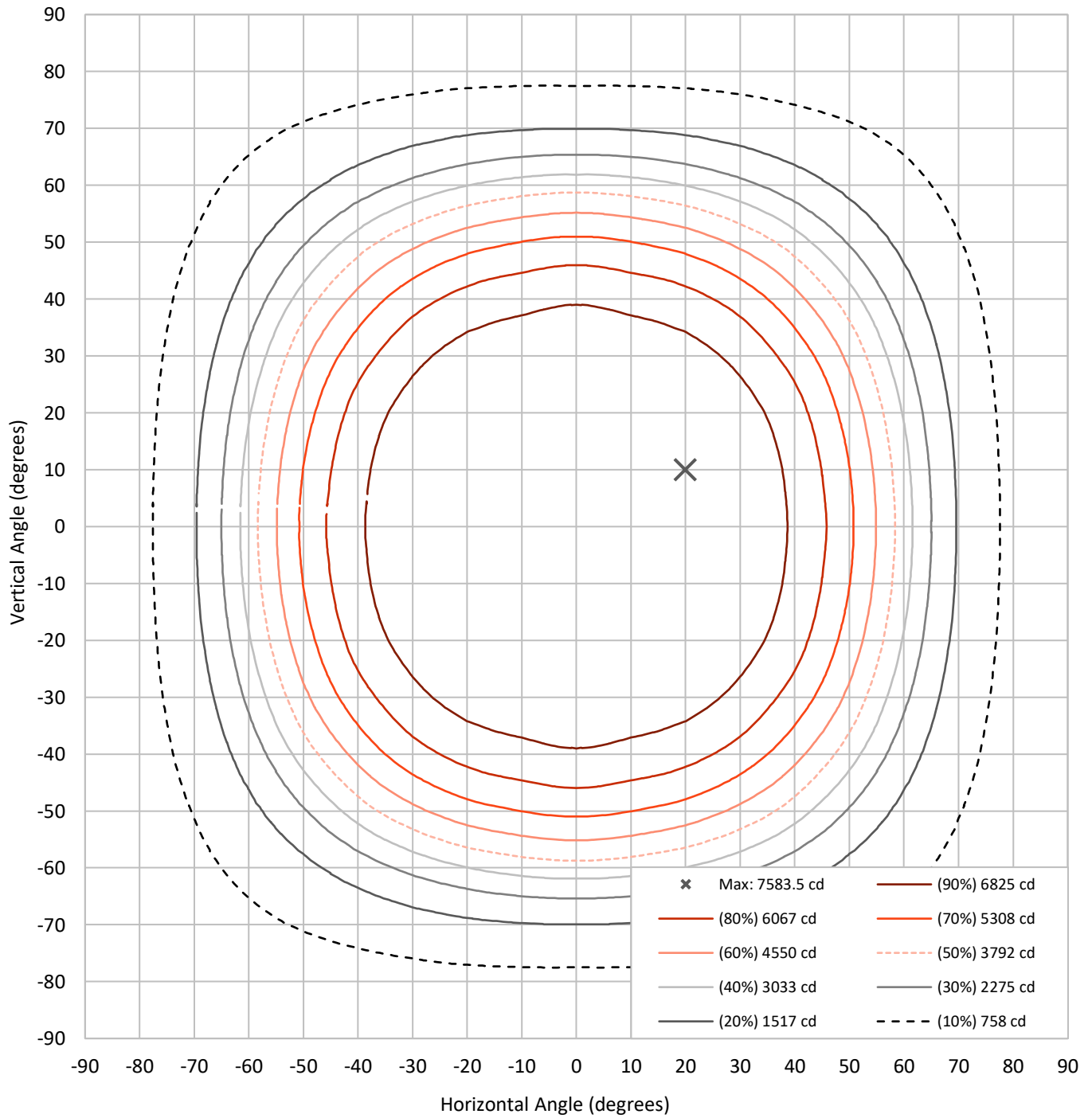
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23265.2 lumens	Max Intensity:	7583.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	93.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	14276 lumens	Field Lumens:	17114.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	249.7		
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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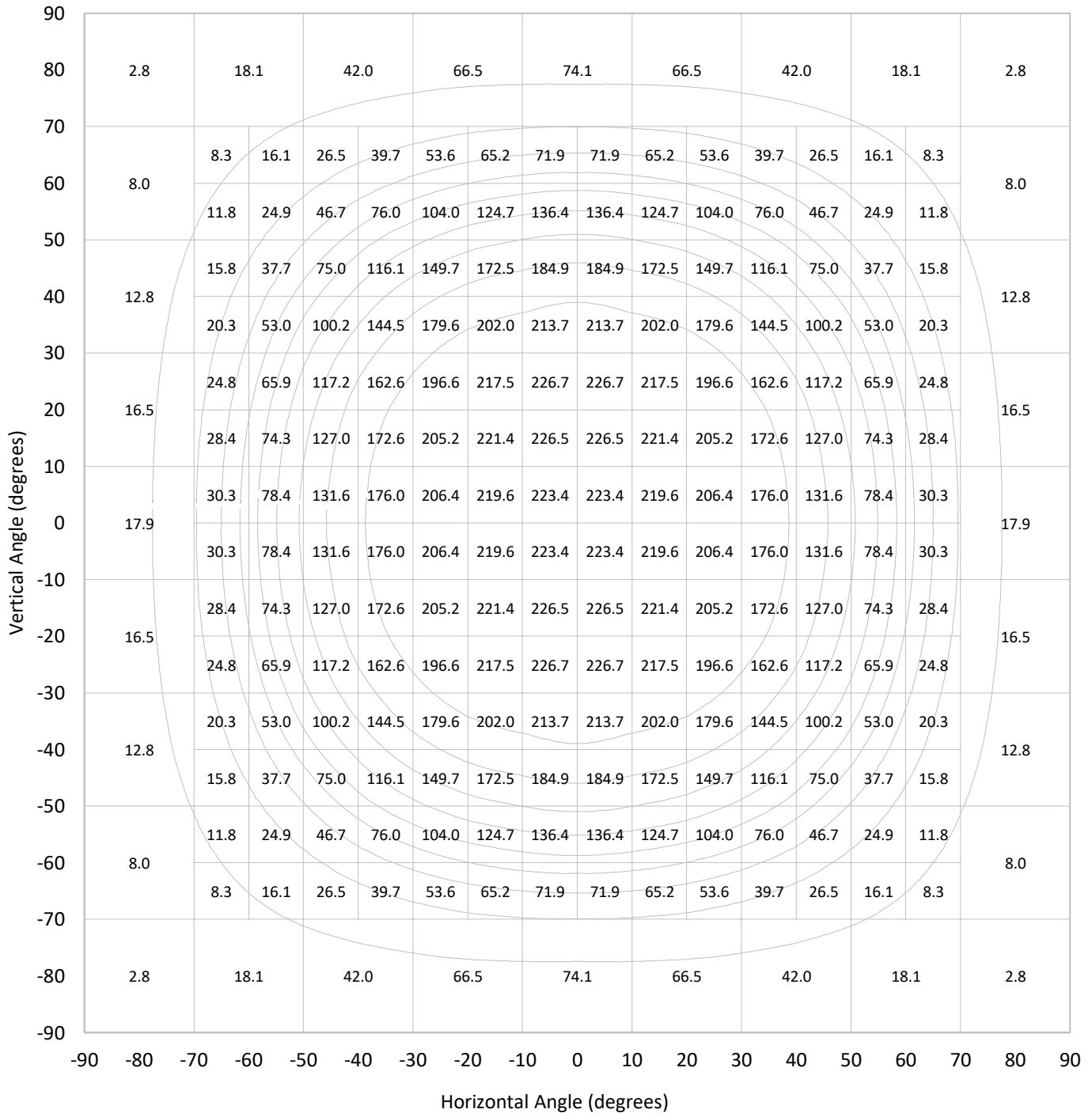
### Iso-Candela Plot





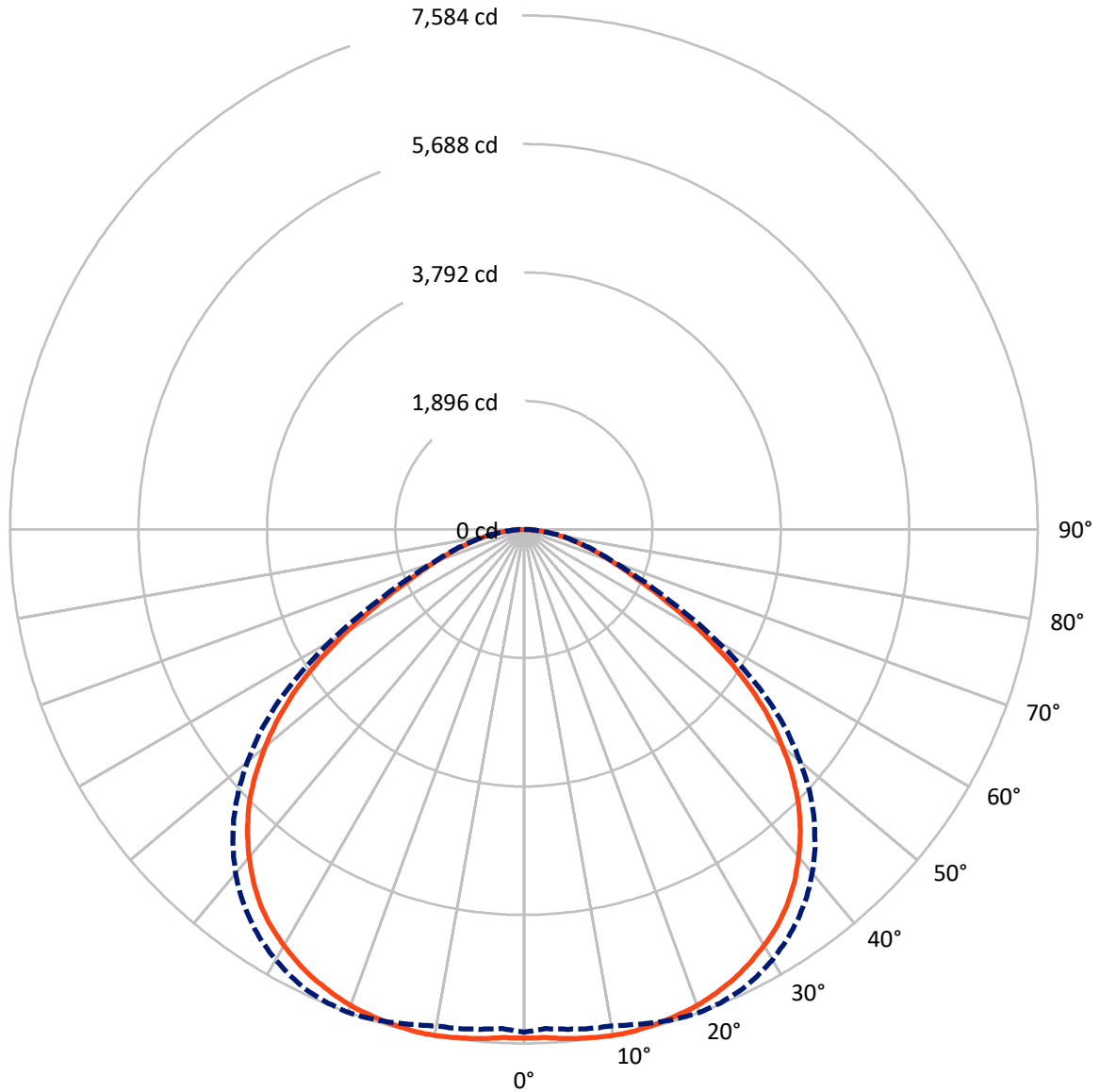
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### Lumen Table



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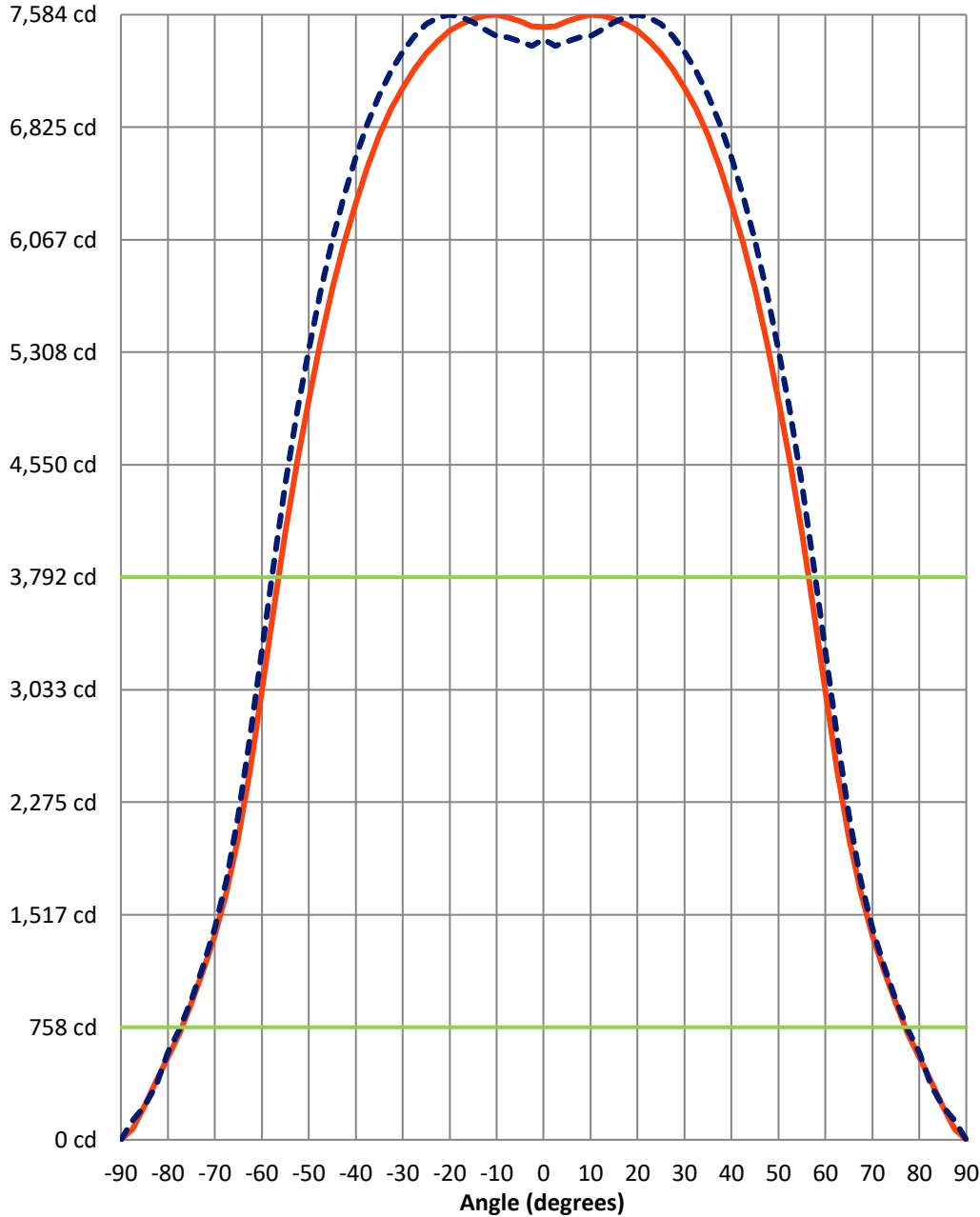
### Luminous Intensity Polar Plot



— 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: 14276  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 17114.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6150.7  
 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°	61.2	66.1	68.5	71.0	73.4	75.9	78.3	75.9	73.4	73.4	71.0
85°	164.0	168.9	171.4	188.5	205.6	215.4	227.7	225.2	225.2	222.8	220.3
82.5°	328.0	342.7	354.9	372.1	381.9	396.6	406.3	399.0	394.1	384.3	377.0
80°	582.6	587.5	589.9	592.4	580.1	577.7	572.8	565.5	555.7	543.4	531.2
77.5°	741.7	746.6	751.5	746.6	744.2	741.7	734.4	727.0	717.2	707.4	692.7
75°	981.6	981.6	981.6	974.3	969.4	962.0	949.8	937.5	920.4	900.8	878.8
72.5°	1236.2	1233.7	1231.3	1216.6	1204.4	1189.7	1172.5	1157.8	1138.3	1116.2	1086.9
70°	1503.0	1507.9	1510.3	1490.8	1476.1	1456.5	1434.5	1407.5	1378.2	1346.3	1304.7
67.5°	1870.2	1865.3	1860.4	1833.5	1813.9	1786.9	1755.1	1716.0	1671.9	1622.9	1564.2
65°	2325.5	2332.8	2318.1	2291.2	2254.5	2210.4	2161.5	2105.2	2039.1	1965.6	1882.4
62.5°	2876.3	2888.5	2871.4	2837.1	2790.6	2731.8	2663.3	2582.5	2491.9	2389.1	2286.3
60°	3502.9	3500.5	3468.6	3422.1	3360.9	3287.5	3211.6	3123.5	3020.7	2900.7	2775.9
57.5°	4078.2	4073.3	4034.1	3987.6	3926.4	3848.1	3767.3	3674.3	3566.6	3439.3	3294.8
55°	4594.7	4589.8	4550.6	4501.6	4438.0	4359.7	4286.2	4198.1	4092.8	3958.2	3804.0
52.5°	5052.4	5054.9	5020.6	4966.7	4898.2	4822.3	4751.3	4663.2	4562.8	4428.2	4278.9
50°	5473.4	5471.0	5434.3	5385.3	5321.7	5248.2	5177.3	5089.1	4983.9	4854.1	4709.7
47.5°	5865.1	5860.2	5818.6	5764.7	5698.7	5635.0	5568.9	5490.6	5380.4	5250.7	5106.3
45°	6193.1	6183.3	6141.7	6090.3	6026.7	5970.4	5911.6	5852.9	5735.4	5615.4	5478.3
42.5°	6474.6	6472.2	6430.6	6379.2	6315.5	6266.6	6212.7	6139.3	6041.4	5931.2	5796.6
40°	6743.9	6724.3	6682.7	6633.7	6575.0	6533.4	6479.5	6406.1	6310.6	6202.9	6073.2
37.5°	6944.6	6947.1	6903.0	6849.2	6797.8	6758.6	6709.6	6641.1	6557.9	6452.6	6322.9
35°	7135.6	7123.3	7086.6	7040.1	6993.6	6949.5	6898.1	6839.4	6770.8	6672.9	6550.5
32.5°	7260.4	7277.5	7233.5	7184.5	7157.6	7123.3	7069.5	7008.3	6947.1	6849.2	6739.0
30°	7397.5	7382.8	7348.5	7306.9	7287.3	7265.3	7218.8	7160.0	7089.0	7000.9	6898.1
27.5°	7492.9	7485.6	7444.0	7404.8	7395.0	7375.4	7338.7	7287.3	7216.3	7130.7	7035.2
25°	7534.6	7539.5	7500.3	7478.3	7478.3	7466.0	7436.6	7392.6	7321.6	7243.3	7150.2
22.5°	7554.1	7549.2	7522.3	7517.4	7529.7	7519.9	7507.6	7468.5	7404.8	7341.2	7262.8
20°	7566.4	7532.1	7507.6	7527.2	7541.9	7539.5	7529.7	7505.2	7475.8	7422.0	7353.4
17.5°	7539.5	7517.4	7488.1	7517.4	7549.2	7551.7	7541.9	7527.2	7519.9	7485.6	7424.4
15°	7473.4	7456.2	7461.1	7490.5	7527.2	7539.5	7546.8	7563.9	7554.1	7527.2	7473.4
12.5°	7429.3	7407.3	7429.3	7458.7	7478.3	7485.6	7544.4	7576.2	7576.2	7551.7	7517.4
10°	7417.1	7373.0	7402.4	7429.3	7439.1	7483.2	7532.1	7566.4	7583.5	7563.9	7519.9
7.5°	7392.6	7363.2	7375.4	7387.7	7444.0	7475.8	7502.7	7539.5	7563.9	7561.5	7522.3
5°	7380.3	7343.6	7348.5	7399.9	7439.1	7461.1	7470.9	7502.7	7539.5	7546.8	7517.4
2.5°	7348.5	7331.4	7368.1	7373.0	7402.4	7419.5	7429.3	7458.7	7505.2	7522.3	7510.1
0°	7331.4	7306.9	7282.4	7302.0	7351.0	7387.7	7402.4	7446.4	7500.3	7517.4	7490.5



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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°	68.5	66.1	63.6	61.2	63.6	63.6	63.6	61.2	63.6	61.2	61.2
85°	213.0	203.2	195.8	186.0	176.2	168.9	159.1	149.3	146.9	144.4	139.5
82.5°	367.2	354.9	342.7	328.0	313.3	296.2	279.1	259.5	254.6	249.7	242.3
80°	516.5	499.4	482.2	465.1	450.4	433.3	413.7	391.7	377.0	364.7	350.0
77.5°	673.2	648.7	624.2	594.8	577.7	560.6	541.0	518.9	496.9	477.3	455.3
75°	851.9	824.9	800.5	771.1	739.3	707.4	675.6	646.2	614.4	585.0	555.7
72.5°	1050.1	1011.0	971.8	935.1	895.9	856.8	815.1	776.0	736.8	697.6	656.0
70°	1258.2	1209.3	1160.3	1111.3	1059.9	1008.5	959.6	910.6	861.7	810.2	763.7
67.5°	1503.0	1446.7	1383.0	1314.5	1238.6	1172.5	1108.9	1050.1	991.4	932.6	873.9
65°	1809.0	1730.6	1645.0	1552.0	1463.8	1375.7	1282.7	1194.6	1126.0	1057.5	991.4
62.5°	2186.0	2075.8	1955.9	1835.9	1728.2	1613.1	1505.4	1390.4	1282.7	1184.8	1104.0
60°	2636.4	2487.0	2340.2	2186.0	2036.6	1880.0	1742.9	1600.9	1466.3	1346.3	1228.8
57.5°	3133.3	2959.5	2783.2	2594.7	2391.6	2208.0	2021.9	1835.9	1676.8	1517.7	1385.5
55°	3637.5	3454.0	3255.7	3042.7	2820.0	2585.0	2332.8	2124.8	1906.9	1720.9	1549.5
52.5°	4117.3	3926.4	3720.8	3524.9	3258.1	2988.9	2712.2	2438.1	2183.5	1946.1	1738.0
50°	4545.7	4359.7	4161.4	3933.7	3686.5	3400.1	3091.7	2783.2	2482.1	2203.1	1943.6
47.5°	4937.4	4756.2	4557.9	4330.3	4105.1	3786.9	3476.0	3135.7	2800.4	2479.7	2176.2
45°	5304.5	5121.0	4915.3	4697.5	4438.0	4154.0	3833.4	3490.7	3130.8	2771.0	2420.9
42.5°	5637.5	5453.9	5245.8	5020.6	4763.6	4482.1	4171.2	3826.0	3463.7	3072.1	2687.8
40°	5928.8	5750.1	5549.3	5314.3	5074.4	4778.3	4472.3	4144.3	3769.7	3375.6	2952.1
37.5°	6183.3	6016.9	5818.6	5586.1	5331.5	5067.1	4751.3	4423.3	4085.5	3657.1	3223.9
35°	6408.5	6254.3	6051.1	5830.8	5581.2	5302.1	5005.9	4685.2	4320.5	3919.0	3498.0
32.5°	6604.4	6447.7	6261.7	6041.4	5799.0	5537.1	5233.6	4910.4	4565.3	4156.5	3698.7
30°	6770.8	6619.1	6442.8	6234.7	6002.2	5742.7	5446.5	5121.0	4768.5	4362.1	3909.3
27.5°	6915.2	6770.8	6599.5	6406.1	6183.3	5933.7	5635.0	5307.0	4947.2	4555.5	4102.6
25°	7040.1	6900.6	6741.4	6557.9	6337.5	6092.8	5811.3	5468.6	5108.7	4714.6	4266.6
22.5°	7152.7	7018.1	6858.9	6680.3	6479.5	6234.7	5950.8	5610.5	5245.8	4856.6	4416.0
20°	7253.1	7128.2	6971.5	6788.0	6587.2	6340.0	6058.5	5735.4	5368.2	4986.3	4550.6
17.5°	7333.8	7223.7	7067.0	6873.6	6672.9	6433.0	6158.9	5862.7	5473.4	5096.5	4663.2
15°	7390.1	7282.4	7140.5	6944.6	6748.8	6511.3	6237.2	5931.2	5568.9	5184.6	4756.2
12.5°	7429.3	7314.3	7182.1	7000.9	6805.1	6570.1	6303.3	6002.2	5649.7	5262.9	4837.0
10°	7439.1	7333.8	7201.6	7040.1	6849.2	6621.5	6359.6	6060.9	5715.8	5324.1	4903.1
7.5°	7444.0	7343.6	7223.7	7069.5	6881.0	6660.7	6401.2	6107.4	5764.7	5375.5	4952.1
5°	7441.5	7346.1	7238.4	7089.0	6900.6	6682.7	6428.1	6139.3	5799.0	5409.8	4988.8
2.5°	7434.2	7348.5	7248.2	7103.7	6922.6	6707.2	6455.0	6176.0	5835.7	5439.2	5018.1
0°	7453.8	7380.3	7253.1	7098.8	6927.5	6707.2	6452.6	6180.9	5840.6	5436.7	5015.7





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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°	61.2	58.7	58.7	56.3	53.9	51.4	46.5	44.1	39.2	31.8	24.5
85°	132.2	124.8	117.5	112.6	107.7	102.8	95.5	88.1	78.3	63.6	49.0
82.5°	232.5	217.9	203.2	186.0	171.4	156.7	144.4	132.2	117.5	95.5	73.4
80°	332.9	310.9	288.8	264.4	242.3	217.9	195.8	176.2	156.7	127.3	97.9
77.5°	433.3	403.9	372.1	342.7	310.9	279.1	247.2	220.3	190.9	156.7	122.4
75°	526.3	492.0	462.6	421.0	381.9	340.3	298.6	261.9	225.2	183.6	146.9
72.5°	619.3	575.3	533.6	494.5	450.4	399.0	352.5	306.0	259.5	210.5	166.5
70°	712.3	658.5	607.1	560.6	511.6	460.2	403.9	350.0	293.7	235.0	183.6
67.5°	807.8	746.6	687.9	629.1	572.8	514.1	455.3	394.1	328.0	259.5	203.2
65°	913.1	837.2	766.2	700.1	634.0	570.4	504.3	438.2	364.7	286.4	220.3
62.5°	1018.3	935.1	851.9	768.6	695.2	624.2	553.2	479.8	399.0	315.8	237.4
60°	1130.9	1035.5	940.0	847.0	756.4	678.1	599.7	521.4	435.7	342.7	254.6
57.5°	1255.8	1140.7	1033.0	927.7	824.9	731.9	646.2	563.0	467.5	369.6	274.2
55°	1397.7	1255.8	1128.5	1011.0	898.4	785.8	692.7	607.1	504.3	396.6	296.2
52.5°	1547.1	1383.0	1228.8	1096.6	976.7	849.4	736.8	641.3	541.0	423.5	315.8
50°	1720.9	1512.8	1341.4	1179.9	1045.2	913.1	783.3	680.5	577.7	455.3	335.4
47.5°	1899.6	1669.5	1454.0	1277.8	1118.7	974.3	837.2	714.8	612.0	484.7	354.9
45°	2107.6	1818.8	1581.3	1373.3	1189.7	1037.9	891.0	751.5	641.3	514.1	374.5
42.5°	2308.3	1995.0	1713.5	1478.5	1270.4	1099.1	940.0	790.7	670.7	543.4	391.7
40°	2545.8	2171.3	1840.8	1578.9	1351.2	1157.8	988.9	832.3	697.6	570.4	408.8
37.5°	2773.4	2350.0	1995.0	1689.0	1429.6	1216.6	1037.9	871.4	722.1	597.3	430.8
35°	2998.6	2548.2	2141.9	1791.8	1510.3	1282.7	1086.9	908.2	746.6	619.3	450.4
32.5°	3214.1	2734.3	2291.2	1906.9	1598.5	1343.9	1130.9	942.4	771.1	638.9	470.0
30°	3414.8	2910.5	2438.1	2024.4	1679.2	1400.2	1172.5	976.7	800.5	656.0	489.6
27.5°	3598.4	3081.9	2585.0	2134.5	1755.1	1451.6	1216.6	1008.5	824.9	673.2	506.7
25°	3764.8	3236.1	2719.6	2234.9	1823.7	1507.9	1258.2	1040.3	847.0	687.9	521.4
22.5°	3921.5	3378.1	2842.0	2335.3	1906.9	1564.2	1297.4	1069.7	869.0	702.5	536.1
20°	4058.6	3507.8	2959.5	2435.6	1980.3	1615.6	1331.6	1096.6	888.6	712.3	550.8
17.5°	4168.7	3622.9	3064.7	2523.8	2044.0	1659.7	1361.0	1121.1	905.7	724.6	560.6
15°	4266.6	3720.8	3152.9	2599.6	2100.3	1696.4	1387.9	1140.7	920.4	731.9	572.8
12.5°	4349.9	3804.0	3228.7	2665.7	2149.2	1728.2	1410.0	1155.4	932.6	739.3	580.1
10°	4418.4	3870.1	3292.4	2717.1	2188.4	1752.7	1427.1	1170.1	942.4	746.6	587.5
7.5°	4469.8	3919.0	3338.9	2761.2	2220.2	1769.8	1441.8	1179.9	952.2	751.5	599.7
5°	4509.0	3960.7	3375.6	2790.6	2244.7	1794.3	1458.9	1192.1	962.0	756.4	599.7
2.5°	4538.4	3994.9	3405.0	2815.1	2264.3	1789.4	1458.9	1189.7	962.0	756.4	597.3
0°	4533.5	3997.4	3402.5	2815.1	2264.3	1784.5	1458.9	1187.2	962.0	756.4	597.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.1	12.2	4.9	0.0
85°	36.7	24.5	12.2	0.0
82.5°	53.9	34.3	17.1	0.0
80°	71.0	46.5	22.0	0.0
77.5°	90.6	58.7	29.4	0.0
75°	107.7	68.5	34.3	0.0
72.5°	124.8	80.8	39.2	0.0
70°	139.5	90.6	44.1	0.0
67.5°	154.2	102.8	51.4	0.0
65°	166.5	112.6	56.3	0.0
62.5°	176.2	124.8	61.2	0.0
60°	188.5	134.6	66.1	0.0
57.5°	198.3	142.0	71.0	0.0
55°	208.1	146.9	75.9	0.0
52.5°	217.9	154.2	80.8	0.0
50°	227.7	161.6	85.7	0.0
47.5°	237.4	166.5	88.1	0.0
45°	252.1	173.8	93.0	0.0
42.5°	264.4	178.7	97.9	0.0
40°	276.6	183.6	100.4	0.0
37.5°	288.8	188.5	105.3	0.0
35°	301.1	193.4	107.7	0.0
32.5°	310.9	198.3	110.2	0.0
30°	320.7	203.2	112.6	0.0
27.5°	330.5	205.6	115.1	0.0
25°	337.8	210.5	117.5	0.0
22.5°	345.2	213.0	119.9	0.0
20°	350.0	215.4	122.4	0.0
17.5°	357.4	217.9	124.8	0.0
15°	359.8	220.3	129.7	0.0
12.5°	364.7	222.8	129.7	0.0
10°	367.2	225.2	129.7	0.0
7.5°	372.1	225.2	129.7	0.0
5°	369.6	225.2	129.7	0.0
2.5°	369.6	225.2	129.7	0.0
0°	367.2	225.2	129.7	0.0

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