

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: P628518

Luminaire Tested: **IFLD-L-SA7A-940-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628518  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-940-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

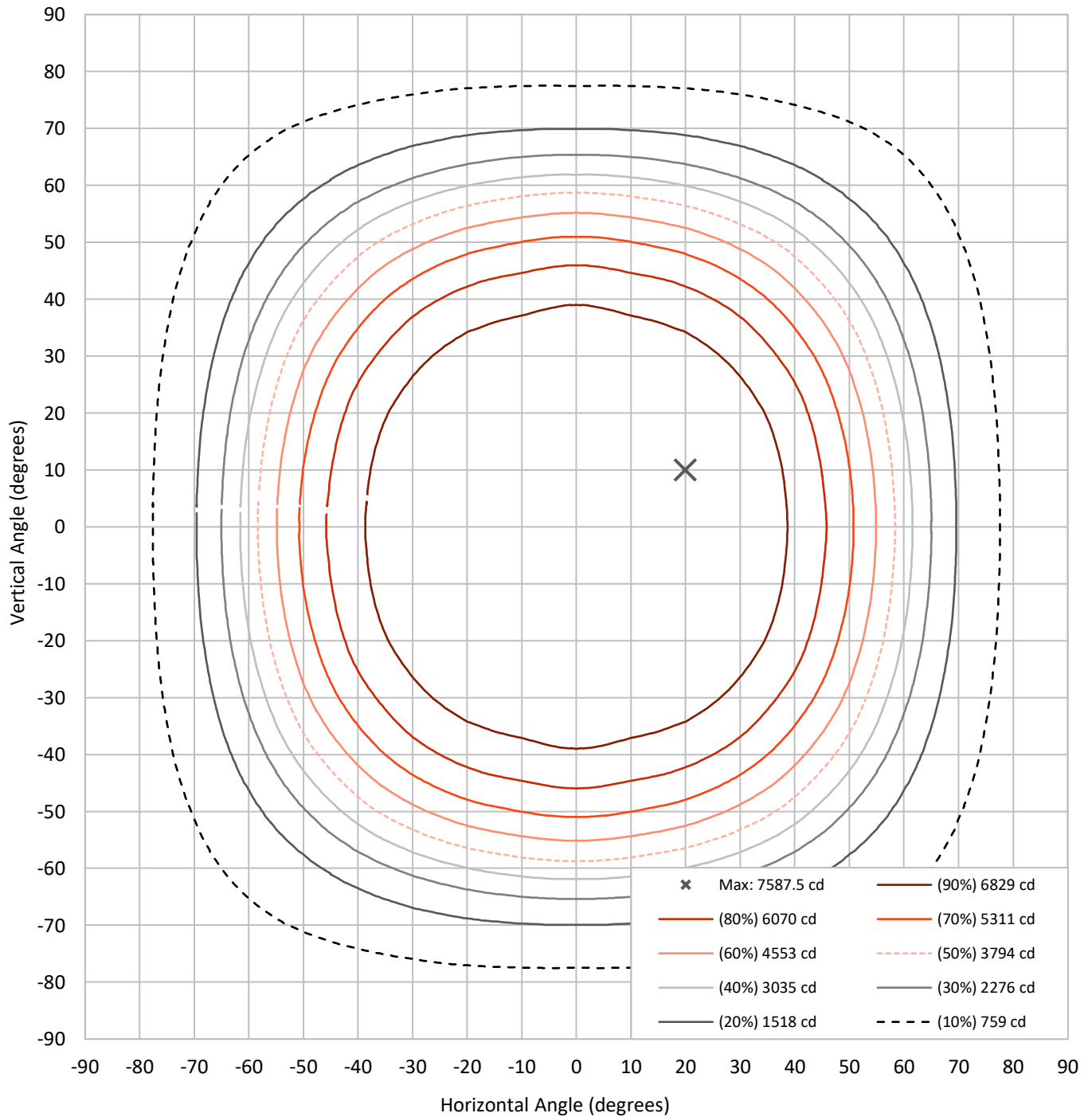
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23277.5 lumens	Max Intensity:	7587.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.0 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:	14283.6 lumens	Field Lumens:	17123.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	217.6		
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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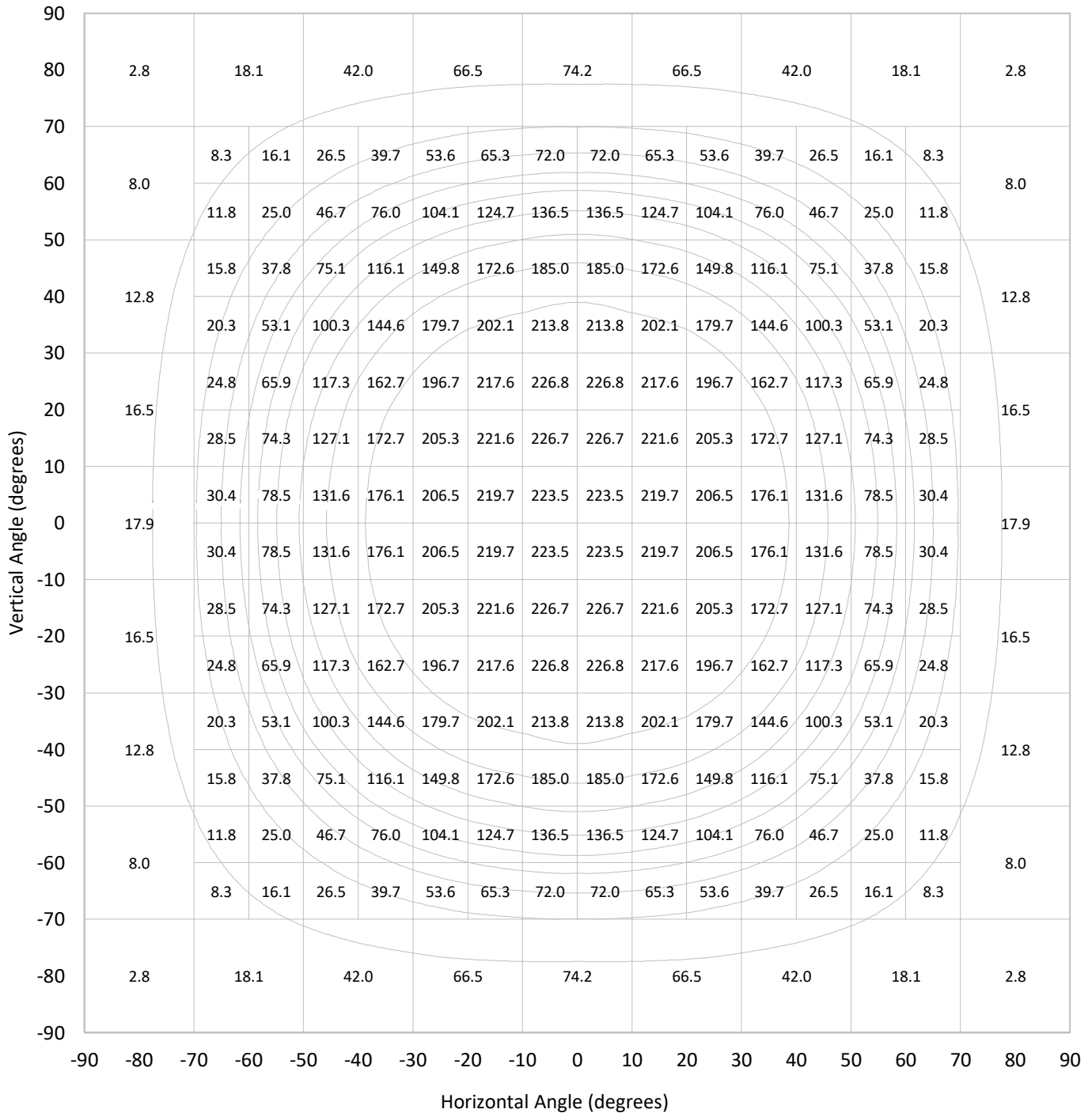
### Iso-Candela Plot





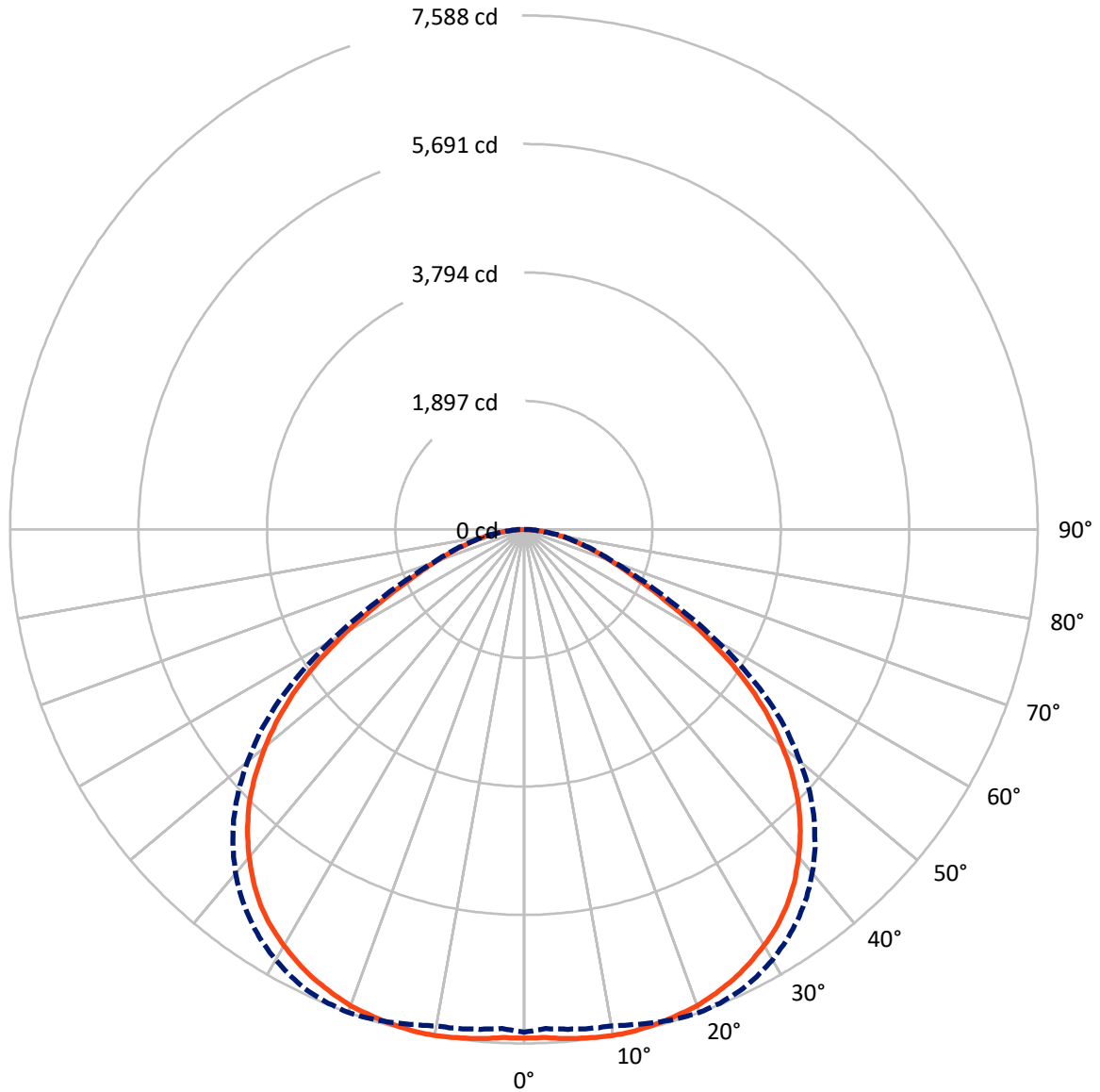
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### Lumen Table



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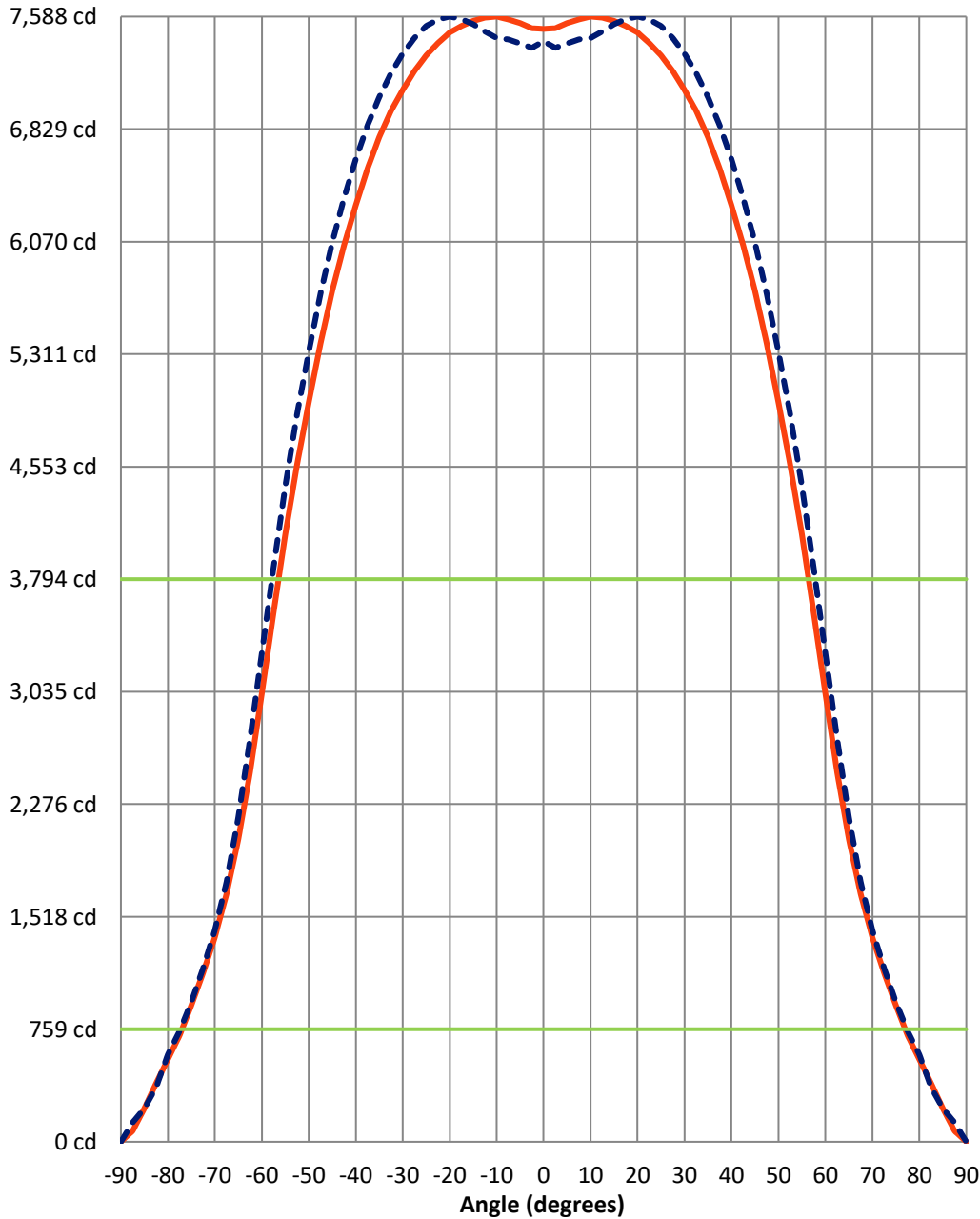
### Luminous Intensity Polar Plot



— 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: 14283.6  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 17123.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6154  
 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	68.6	71.0	73.5	75.9	78.4	75.9	73.5	73.5	71.0
85°	164.1	169.0	171.4	188.6	205.7	215.5	227.8	225.3	225.3	222.9	220.4
82.5°	328.2	342.9	355.1	372.3	382.1	396.8	406.6	399.2	394.3	384.5	377.2
80°	582.9	587.8	590.3	592.7	580.5	578.0	573.1	565.8	556.0	543.7	531.5
77.5°	742.1	747.0	751.9	747.0	744.5	742.1	734.8	727.4	717.6	707.8	693.1
75°	982.1	982.1	982.1	974.8	969.9	962.5	950.3	938.0	920.9	901.3	879.3
72.5°	1236.8	1234.4	1231.9	1217.2	1205.0	1190.3	1173.2	1158.5	1138.9	1116.8	1087.4
70°	1503.8	1508.7	1511.1	1491.5	1476.9	1457.3	1435.2	1408.3	1378.9	1347.0	1305.4
67.5°	1871.2	1866.3	1861.4	1834.4	1814.8	1787.9	1756.1	1716.9	1672.8	1623.8	1565.0
65°	2326.7	2334.1	2319.4	2292.4	2255.7	2211.6	2162.6	2106.3	2040.2	1966.7	1883.4
62.5°	2877.8	2890.0	2872.9	2838.6	2792.1	2733.3	2664.7	2583.9	2493.3	2390.4	2287.5
60°	3504.8	3502.3	3470.5	3423.9	3362.7	3289.2	3213.3	3125.1	3022.3	2902.3	2777.4
57.5°	4080.3	4075.4	4036.2	3989.7	3928.5	3850.1	3769.3	3676.2	3568.4	3441.1	3296.6
55°	4597.1	4592.2	4553.0	4504.0	4440.4	4362.0	4288.5	4200.3	4095.0	3960.3	3806.0
52.5°	5055.1	5057.5	5023.3	4969.4	4900.8	4824.9	4753.8	4665.7	4565.3	4430.6	4281.2
50°	5476.4	5473.9	5437.2	5388.2	5324.5	5251.0	5180.0	5091.8	4986.5	4856.7	4712.2
47.5°	5868.2	5863.3	5821.7	5767.8	5701.7	5638.0	5571.9	5493.5	5383.3	5253.5	5109.0
45°	6196.4	6186.6	6145.0	6093.5	6029.9	5973.5	5914.8	5856.0	5738.4	5618.4	5481.3
42.5°	6478.1	6475.6	6434.0	6382.5	6318.9	6269.9	6216.0	6142.5	6044.6	5934.3	5799.6
40°	6747.5	6727.9	6686.2	6637.3	6578.5	6536.8	6483.0	6409.5	6314.0	6206.2	6076.4
37.5°	6948.3	6950.8	6906.7	6852.8	6801.4	6762.2	6713.2	6644.6	6561.3	6456.0	6326.2
35°	7139.3	7127.1	7090.4	7043.8	6997.3	6953.2	6901.8	6843.0	6774.4	6676.4	6554.0
32.5°	7264.2	7281.4	7237.3	7188.3	7161.4	7127.1	7073.2	7012.0	6950.8	6852.8	6742.6
30°	7401.4	7386.7	7352.4	7310.8	7291.2	7269.1	7222.6	7163.8	7092.8	7004.6	6901.8
27.5°	7496.9	7489.6	7447.9	7408.8	7399.0	7379.4	7342.6	7291.2	7220.2	7134.4	7038.9
25°	7538.6	7543.5	7504.3	7482.2	7482.2	7470.0	7440.6	7396.5	7325.5	7247.1	7154.0
22.5°	7558.2	7553.3	7526.3	7521.4	7533.7	7523.9	7511.6	7472.4	7408.8	7345.1	7266.7
20°	7570.4	7536.1	7511.6	7531.2	7545.9	7543.5	7533.7	7509.2	7479.8	7425.9	7357.3
17.5°	7543.5	7521.4	7492.0	7521.4	7553.3	7555.7	7545.9	7531.2	7523.9	7489.6	7428.3
15°	7477.3	7460.2	7465.1	7494.5	7531.2	7543.5	7550.8	7567.9	7558.2	7531.2	7477.3
12.5°	7433.2	7411.2	7433.2	7462.6	7482.2	7489.6	7548.4	7580.2	7580.2	7555.7	7521.4
10°	7421.0	7376.9	7406.3	7433.2	7443.0	7487.1	7536.1	7570.4	7587.5	7567.9	7523.9
7.5°	7396.5	7367.1	7379.4	7391.6	7447.9	7479.8	7506.7	7543.5	7567.9	7565.5	7526.3
5°	7384.3	7347.5	7352.4	7403.9	7443.0	7465.1	7474.9	7506.7	7543.5	7550.8	7521.4
2.5°	7352.4	7335.3	7372.0	7376.9	7406.3	7423.4	7433.2	7462.6	7509.2	7526.3	7514.1
0°	7335.3	7310.8	7286.3	7305.9	7354.9	7391.6	7406.3	7450.4	7504.3	7521.4	7494.5



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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°	68.6	66.1	63.7	61.2	63.7	63.7	63.7	61.2	63.7	61.2	61.2
85°	213.1	203.3	195.9	186.1	176.3	169.0	159.2	149.4	147.0	144.5	139.6
82.5°	367.4	355.1	342.9	328.2	313.5	296.4	279.2	259.6	254.7	249.8	242.5
80°	516.8	499.6	482.5	465.3	450.6	433.5	413.9	391.9	377.2	364.9	350.2
77.5°	673.5	649.0	624.5	595.1	578.0	560.9	541.3	519.2	497.2	477.6	455.5
75°	852.3	825.4	800.9	771.5	739.7	707.8	676.0	646.6	614.7	585.4	556.0
72.5°	1050.7	1011.5	972.3	935.6	896.4	857.2	815.6	776.4	737.2	698.0	656.4
70°	1258.9	1209.9	1160.9	1111.9	1060.5	1009.1	960.1	911.1	862.1	810.7	764.1
67.5°	1503.8	1447.5	1383.8	1315.2	1239.3	1173.2	1109.5	1050.7	991.9	933.1	874.4
65°	1809.9	1731.6	1645.8	1552.8	1464.6	1376.4	1283.4	1195.2	1126.6	1058.0	991.9
62.5°	2187.1	2076.9	1956.9	1836.9	1729.1	1614.0	1506.2	1391.1	1283.4	1185.4	1104.6
60°	2637.8	2488.4	2341.4	2187.1	2037.7	1881.0	1743.8	1601.8	1467.1	1347.0	1229.5
57.5°	3134.9	2961.1	2784.7	2596.1	2392.8	2209.2	2023.0	1836.9	1677.7	1518.5	1386.2
55°	3639.5	3455.8	3257.4	3044.3	2821.4	2586.3	2334.1	2125.9	1907.9	1721.8	1550.3
52.5°	4119.5	3928.5	3722.7	3526.8	3259.9	2990.4	2713.7	2439.4	2184.7	1947.1	1738.9
50°	4548.1	4362.0	4163.6	3935.8	3688.5	3401.9	3093.3	2784.7	2483.5	2204.3	1944.6
47.5°	4940.0	4758.7	4560.4	4332.6	4107.3	3788.9	3477.8	3137.4	2801.9	2481.0	2177.3
45°	5307.4	5123.7	4917.9	4700.0	4440.4	4156.2	3835.4	3492.5	3132.5	2772.5	2422.2
42.5°	5640.4	5456.8	5248.6	5023.3	4766.1	4484.4	4173.4	3828.1	3465.6	3073.7	2689.2
40°	5931.9	5753.1	5552.3	5317.2	5077.1	4780.8	4474.6	4146.5	3771.7	3377.4	2953.7
37.5°	6186.6	6020.1	5821.7	5589.0	5334.3	5069.8	4753.8	4425.7	4087.7	3659.1	3225.6
35°	6411.9	6257.6	6054.4	5833.9	5584.1	5304.9	5008.6	4687.7	4322.8	3921.1	3499.9
32.5°	6607.9	6451.1	6265.0	6044.6	5802.1	5540.0	5236.3	4913.0	4567.7	4158.7	3700.7
30°	6774.4	6622.6	6446.2	6238.0	6005.4	5745.8	5449.4	5123.7	4771.0	4364.4	3911.3
27.5°	6918.9	6774.4	6603.0	6409.5	6186.6	5936.8	5638.0	5309.8	4949.8	4557.9	4104.8
25°	7043.8	6904.2	6745.0	6561.3	6340.9	6096.0	5814.3	5471.5	5111.4	4717.1	4268.9
22.5°	7156.5	7021.8	6862.6	6683.8	6483.0	6238.0	5953.9	5613.5	5248.6	4859.2	4418.3
20°	7256.9	7132.0	6975.2	6791.6	6590.7	6343.4	6061.7	5738.4	5371.0	4989.0	4553.0
17.5°	7337.7	7227.5	7070.8	6877.3	6676.4	6436.4	6162.1	5865.8	5476.4	5099.2	4665.7
15°	7394.1	7286.3	7144.2	6948.3	6752.4	6514.8	6240.5	5934.3	5571.9	5187.4	4758.7
12.5°	7433.2	7318.1	7185.9	7004.6	6808.7	6573.6	6306.6	6005.4	5652.7	5265.7	4839.6
10°	7443.0	7337.7	7205.5	7043.8	6852.8	6625.0	6363.0	6064.2	5718.8	5327.0	4905.7
7.5°	7447.9	7347.5	7227.5	7073.2	6884.6	6664.2	6404.6	6110.7	5767.8	5378.4	4954.7
5°	7445.5	7350.0	7242.2	7092.8	6904.2	6686.2	6431.5	6142.5	5802.1	5412.7	4991.4
2.5°	7438.1	7352.4	7252.0	7107.5	6926.3	6710.7	6458.5	6179.3	5838.8	5442.1	5020.8
0°	7457.7	7384.3	7256.9	7102.6	6931.2	6710.7	6456.0	6184.2	5843.7	5439.6	5018.4





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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°	61.2	58.8	58.8	56.3	53.9	51.4	46.5	44.1	39.2	31.8	24.5
85°	132.3	124.9	117.6	112.7	107.8	102.9	95.5	88.2	78.4	63.7	49.0
82.5°	232.7	218.0	203.3	186.1	171.4	156.7	144.5	132.3	117.6	95.5	73.5
80°	333.1	311.0	289.0	264.5	242.5	218.0	195.9	176.3	156.7	127.4	98.0
77.5°	433.5	404.1	372.3	342.9	311.0	279.2	247.4	220.4	191.0	156.7	122.5
75°	526.6	492.3	462.9	421.3	382.1	340.4	298.8	262.1	225.3	183.7	147.0
72.5°	619.6	575.6	533.9	494.7	450.6	399.2	352.7	306.1	259.6	210.6	166.5
70°	712.7	658.8	607.4	560.9	511.9	460.4	404.1	350.2	293.9	235.1	183.7
67.5°	808.2	747.0	688.2	629.4	573.1	514.3	455.5	394.3	328.2	259.6	203.3
65°	913.5	837.6	766.6	700.5	634.3	570.7	504.5	438.4	364.9	286.6	220.4
62.5°	1018.9	935.6	852.3	769.0	695.6	624.5	553.5	480.0	399.2	315.9	237.6
60°	1131.5	1036.0	940.5	847.4	756.8	678.4	600.0	521.7	436.0	342.9	254.7
57.5°	1256.4	1141.3	1033.6	928.2	825.4	732.3	646.6	563.3	467.8	369.8	274.3
55°	1398.5	1256.4	1129.1	1011.5	898.8	786.2	693.1	607.4	504.5	396.8	296.4
52.5°	1547.9	1383.8	1229.5	1097.2	977.2	849.9	737.2	641.7	541.3	423.7	315.9
50°	1721.8	1513.6	1342.1	1180.5	1045.8	913.5	783.7	680.9	578.0	455.5	335.5
47.5°	1900.6	1670.3	1454.8	1278.5	1119.3	974.8	837.6	715.2	612.3	484.9	355.1
45°	2108.7	1819.7	1582.2	1374.0	1190.3	1038.4	891.5	751.9	641.7	514.3	374.7
42.5°	2309.6	1996.1	1714.4	1479.3	1271.1	1099.7	940.5	791.1	671.1	543.7	391.9
40°	2547.1	2172.4	1841.8	1579.7	1351.9	1158.5	989.5	832.7	698.0	570.7	409.0
37.5°	2774.9	2351.2	1996.1	1689.9	1430.3	1217.2	1038.4	871.9	722.5	597.6	431.1
35°	3000.2	2549.6	2143.0	1792.8	1511.1	1283.4	1087.4	908.6	747.0	619.6	450.6
32.5°	3215.8	2735.7	2292.4	1907.9	1599.3	1344.6	1131.5	942.9	771.5	639.2	470.2
30°	3416.6	2912.1	2439.4	2025.5	1680.1	1400.9	1173.2	977.2	800.9	656.4	489.8
27.5°	3600.3	3083.5	2586.3	2135.7	1756.1	1452.4	1217.2	1009.1	825.4	673.5	507.0
25°	3766.8	3237.8	2721.0	2236.1	1824.6	1508.7	1258.9	1040.9	847.4	688.2	521.7
22.5°	3923.6	3379.9	2843.5	2336.5	1907.9	1565.0	1298.1	1070.3	869.5	702.9	536.4
20°	4060.7	3509.7	2961.1	2436.9	1981.4	1616.5	1332.4	1097.2	889.1	712.7	551.1
17.5°	4170.9	3624.8	3066.4	2525.1	2045.1	1660.5	1361.7	1121.7	906.2	725.0	560.9
15°	4268.9	3722.7	3154.5	2601.0	2101.4	1697.3	1388.7	1141.3	920.9	732.3	573.1
12.5°	4352.2	3806.0	3230.5	2667.2	2150.4	1729.1	1410.7	1156.0	933.1	739.7	580.5
10°	4420.8	3872.1	3294.1	2718.6	2189.6	1753.6	1427.9	1170.7	942.9	747.0	587.8
7.5°	4472.2	3921.1	3340.7	2762.7	2221.4	1770.8	1442.6	1180.5	952.7	751.9	600.0
5°	4511.4	3962.8	3377.4	2792.1	2245.9	1795.2	1459.7	1192.7	962.5	756.8	600.0
2.5°	4540.8	3997.1	3406.8	2816.6	2265.5	1790.3	1459.7	1190.3	962.5	756.8	597.6
0°	4535.9	3999.5	3404.4	2816.6	2265.5	1785.4	1459.7	1187.8	962.5	756.8	597.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	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	58.8	29.4	0.0
75°	107.8	68.6	34.3	0.0
72.5°	124.9	80.8	39.2	0.0
70°	139.6	90.6	44.1	0.0
67.5°	154.3	102.9	51.4	0.0
65°	166.5	112.7	56.3	0.0
62.5°	176.3	124.9	61.2	0.0
60°	188.6	134.7	66.1	0.0
57.5°	198.4	142.1	71.0	0.0
55°	208.2	147.0	75.9	0.0
52.5°	218.0	154.3	80.8	0.0
50°	227.8	161.6	85.7	0.0
47.5°	237.6	166.5	88.2	0.0
45°	252.3	173.9	93.1	0.0
42.5°	264.5	178.8	98.0	0.0
40°	276.8	183.7	100.4	0.0
37.5°	289.0	188.6	105.3	0.0
35°	301.2	193.5	107.8	0.0
32.5°	311.0	198.4	110.2	0.0
30°	320.8	203.3	112.7	0.0
27.5°	330.6	205.7	115.1	0.0
25°	338.0	210.6	117.6	0.0
22.5°	345.3	213.1	120.0	0.0
20°	350.2	215.5	122.5	0.0
17.5°	357.6	218.0	124.9	0.0
15°	360.0	220.4	129.8	0.0
12.5°	364.9	222.9	129.8	0.0
10°	367.4	225.3	129.8	0.0
7.5°	372.3	225.3	129.8	0.0
5°	369.8	225.3	129.8	0.0
2.5°	369.8	225.3	129.8	0.0
0°	367.4	225.3	129.8	0.0

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