

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: P628311

Luminaire Tested: **IFLD-M-SA4B-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628311
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

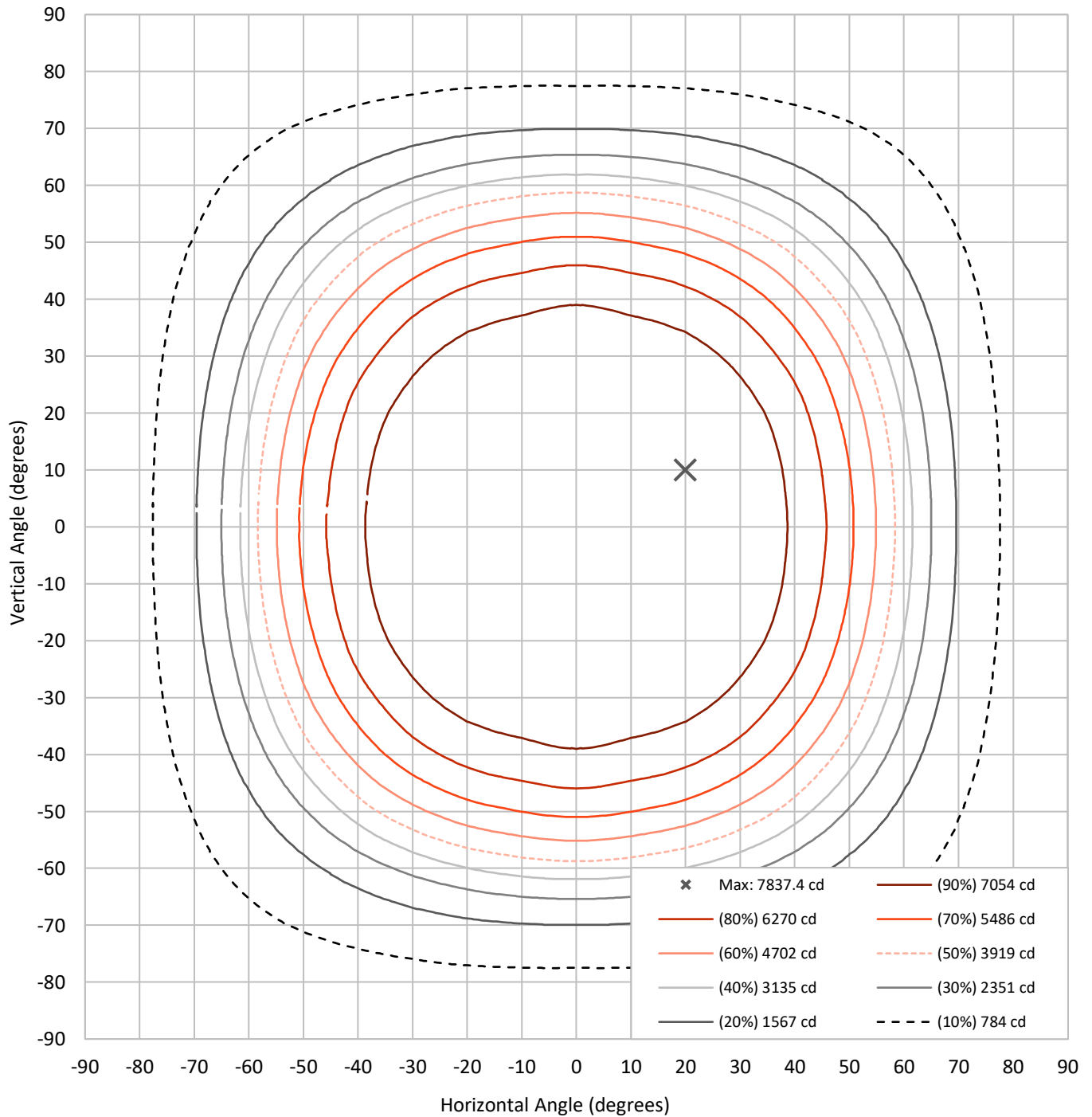
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24044 lumens	Max Intensity:	7837.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	144.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14753.9 lumens	Field Lumens:	17687.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 166.1
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



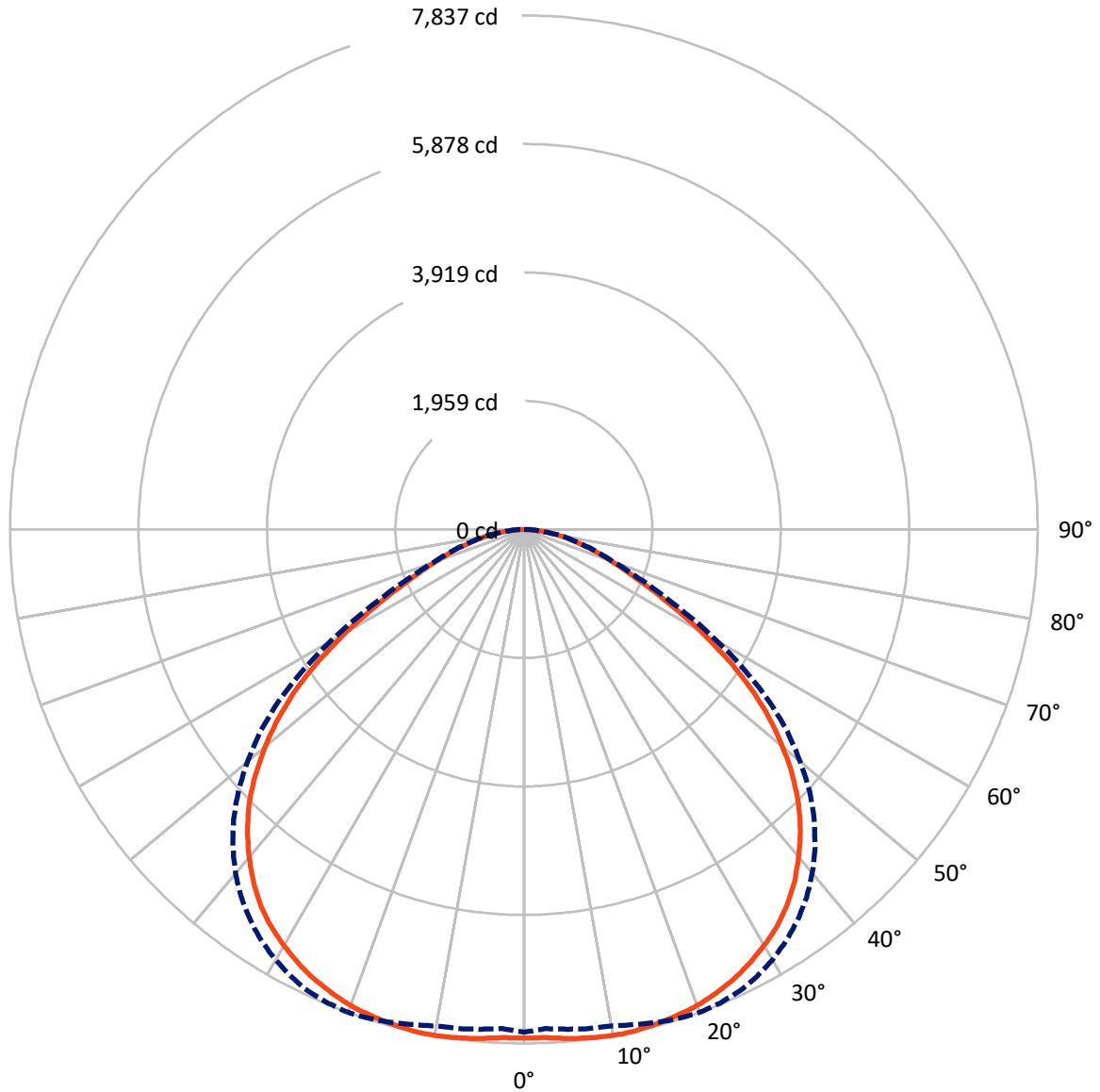
REPORT NUMBER: P628311
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Iso-Candela Plot



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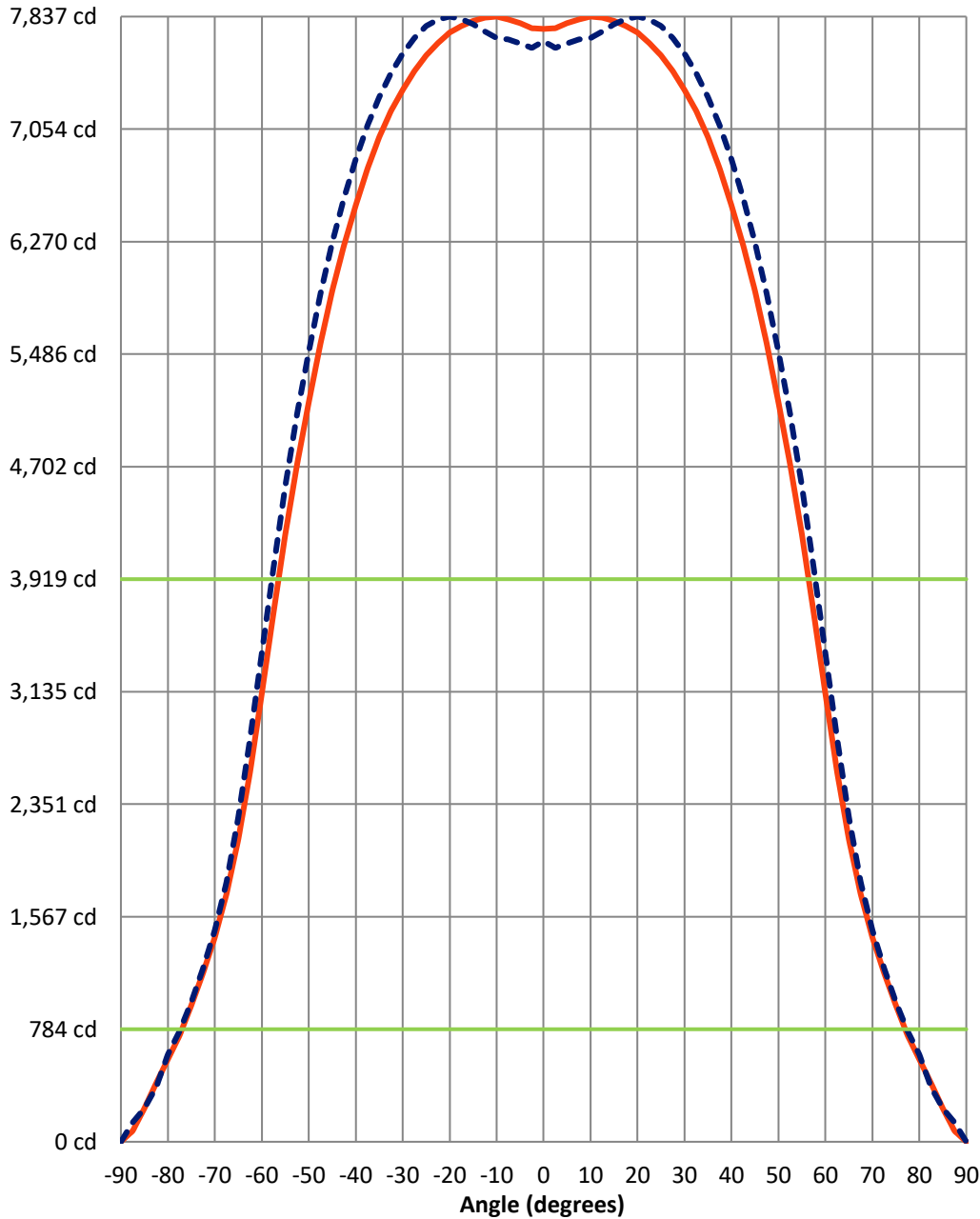
Luminous Intensity Polar Plot



— 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: 14753.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17687.4
 Efficiency: 73.6%

Spill:
 Lumens: 6356.6
 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°	63.2	68.3	70.8	73.4	75.9	78.4	81.0	78.4	75.9	75.9	73.4
85°	169.5	174.6	177.1	194.8	212.5	222.6	235.3	232.7	232.7	230.2	227.7
82.5°	339.0	354.2	366.8	384.5	394.7	409.8	419.9	412.4	407.3	397.2	389.6
80°	602.1	607.2	609.7	612.2	599.6	597.0	592.0	584.4	574.3	561.6	549.0
77.5°	766.5	771.6	776.7	771.6	769.1	766.5	758.9	751.4	741.2	731.1	715.9
75°	1014.5	1014.5	1014.5	1006.9	1001.8	994.2	981.6	968.9	951.2	931.0	908.2
72.5°	1277.6	1275.0	1272.5	1257.3	1244.7	1229.5	1211.8	1196.6	1176.4	1153.6	1123.2
70°	1553.3	1558.4	1560.9	1540.7	1525.5	1505.2	1482.5	1454.6	1424.3	1391.4	1348.4
67.5°	1932.8	1927.7	1922.7	1894.8	1874.6	1846.8	1813.9	1773.4	1727.9	1677.3	1616.6
65°	2403.3	2410.9	2395.7	2367.9	2330.0	2284.4	2233.8	2175.6	2107.3	2031.4	1945.4
62.5°	2972.5	2985.2	2967.5	2932.1	2884.0	2823.3	2752.4	2669.0	2575.4	2469.1	2362.8
60°	3620.2	3617.6	3584.7	3536.7	3473.4	3397.5	3319.1	3228.0	3121.8	2997.8	2868.8
57.5°	4214.7	4209.6	4169.1	4121.1	4057.8	3976.9	3893.4	3797.3	3685.9	3554.4	3405.1
55°	4748.5	4743.4	4702.9	4652.3	4586.6	4505.6	4429.7	4338.6	4229.9	4090.7	3931.3
52.5°	5221.5	5224.1	5188.7	5133.0	5062.2	4983.7	4910.4	4819.3	4715.6	4576.4	4422.1
50°	5656.7	5654.1	5616.2	5565.6	5499.8	5423.9	5350.6	5259.5	5150.7	5016.6	4867.4
47.5°	6061.4	6056.4	6013.4	5957.7	5889.4	5823.6	5755.3	5674.4	5560.5	5426.5	5277.2
45°	6400.4	6390.3	6347.3	6294.2	6228.4	6170.2	6109.5	6048.8	5927.4	5803.4	5661.7
42.5°	6691.4	6688.8	6645.8	6592.7	6526.9	6476.3	6420.7	6344.8	6243.6	6129.7	5990.6
40°	6969.6	6949.4	6906.4	6855.8	6795.1	6752.1	6696.4	6620.5	6521.9	6410.6	6276.5
37.5°	7177.1	7179.6	7134.1	7078.4	7025.3	6984.8	6934.2	6863.4	6777.4	6668.6	6534.5
35°	7374.4	7361.8	7323.8	7275.7	7227.7	7182.1	7129.0	7068.3	6997.5	6896.3	6769.8
32.5°	7503.4	7521.1	7475.6	7425.0	7397.2	7361.8	7306.1	7242.9	7179.6	7078.4	6964.6
30°	7645.1	7629.9	7594.5	7551.5	7531.3	7508.5	7460.4	7399.7	7326.3	7235.3	7129.0
27.5°	7743.8	7736.2	7693.2	7652.7	7642.6	7622.3	7584.4	7531.3	7457.9	7369.4	7270.7
25°	7786.8	7791.8	7751.4	7728.6	7728.6	7715.9	7685.6	7640.0	7566.7	7485.7	7389.6
22.5°	7807.0	7802.0	7774.1	7769.1	7781.7	7771.6	7758.9	7718.5	7652.7	7586.9	7506.0
20°	7819.7	7784.2	7758.9	7779.2	7794.4	7791.8	7781.7	7756.4	7726.1	7670.4	7599.6
17.5°	7791.8	7769.1	7738.7	7769.1	7802.0	7804.5	7794.4	7779.2	7771.6	7736.2	7672.9
15°	7723.5	7705.8	7710.9	7741.2	7779.2	7791.8	7799.4	7817.1	7807.0	7779.2	7723.5
12.5°	7678.0	7655.2	7678.0	7708.3	7728.6	7736.2	7796.9	7829.8	7829.8	7804.5	7769.1
10°	7665.3	7619.8	7650.2	7678.0	7688.1	7733.6	7784.2	7819.7	7837.4	7817.1	7771.6
7.5°	7640.0	7609.7	7622.3	7635.0	7693.2	7726.1	7753.9	7791.8	7817.1	7814.6	7774.1
5°	7627.4	7589.4	7594.5	7647.6	7688.1	7710.9	7721.0	7753.9	7791.8	7799.4	7769.1
2.5°	7594.5	7576.8	7614.7	7619.8	7650.2	7667.9	7678.0	7708.3	7756.4	7774.1	7761.5
0°	7576.8	7551.5	7526.2	7546.4	7597.0	7635.0	7650.2	7695.7	7751.4	7769.1	7741.2



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 CATALOG NUMBER: IFLD-M-SA4B-750-U-LAM

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°	70.8	68.3	65.8	63.2	65.8	65.8	65.8	63.2	65.8	63.2	63.2
85°	220.1	210.0	202.4	192.3	182.1	174.6	164.4	154.3	151.8	149.3	144.2
82.5°	379.5	366.8	354.2	339.0	323.8	306.1	288.4	268.2	263.1	258.0	250.5
80°	533.8	516.1	498.4	480.7	465.5	447.8	427.5	404.8	389.6	376.9	361.8
77.5°	695.7	670.4	645.1	614.7	597.0	579.3	559.1	536.3	513.6	493.3	470.5
75°	880.4	852.5	827.2	796.9	764.0	731.1	698.2	667.9	635.0	604.6	574.3
72.5°	1085.3	1044.8	1004.3	966.4	925.9	885.4	842.4	802.0	761.5	721.0	678.0
70°	1300.3	1249.7	1199.1	1148.5	1095.4	1042.3	991.7	941.1	890.5	837.4	789.3
67.5°	1553.3	1495.1	1429.3	1358.5	1280.1	1211.8	1146.0	1085.3	1024.6	963.9	903.1
65°	1869.5	1788.6	1700.0	1603.9	1512.8	1421.8	1325.6	1234.5	1163.7	1092.9	1024.6
62.5°	2259.1	2145.3	2021.3	1897.4	1786.0	1667.1	1555.8	1436.9	1325.6	1224.4	1140.9
60°	2724.6	2570.3	2418.5	2259.1	2104.8	1942.9	1801.2	1654.5	1515.4	1391.4	1270.0
57.5°	3238.2	3058.5	2876.4	2681.6	2471.6	2281.9	2089.6	1897.4	1732.9	1568.5	1431.9
55°	3759.3	3569.6	3364.7	3144.6	2914.3	2671.5	2410.9	2195.9	1970.7	1778.5	1601.4
52.5°	4255.1	4057.8	3845.3	3642.9	3367.2	3088.9	2803.0	2519.7	2256.6	2011.2	1796.2
50°	4697.9	4505.6	4300.7	4065.4	3809.9	3513.9	3195.2	2876.4	2565.2	2276.8	2008.7
47.5°	5102.6	4915.4	4710.5	4475.2	4242.5	3913.6	3592.3	3240.7	2894.1	2562.7	2249.0
45°	5482.1	5292.4	5079.9	4854.7	4586.6	4293.1	3961.7	3607.5	3235.6	2863.8	2502.0
42.5°	5826.2	5636.4	5421.4	5188.7	4923.0	4632.1	4310.8	3954.1	3579.7	3174.9	2777.7
40°	6127.2	5942.5	5735.1	5492.2	5244.3	4938.2	4622.0	4283.0	3895.9	3488.6	3051.0
37.5°	6390.3	6218.3	6013.4	5773.0	5509.9	5236.7	4910.4	4571.4	4222.3	3779.5	3331.8
35°	6623.1	6463.7	6253.7	6026.0	5768.0	5479.6	5173.5	4842.1	4465.1	4050.2	3615.1
32.5°	6825.4	6663.5	6471.3	6243.6	5993.1	5722.4	5408.7	5074.8	4718.1	4295.6	3822.6
30°	6997.5	6840.6	6658.5	6443.4	6203.1	5934.9	5628.8	5292.4	4928.1	4508.1	4040.1
27.5°	7146.7	6997.5	6820.4	6620.5	6390.3	6132.3	5823.6	5484.6	5112.8	4708.0	4240.0
25°	7275.7	7131.5	6967.1	6777.4	6549.7	6296.7	6005.8	5651.6	5279.7	4872.4	4409.5
22.5°	7392.1	7253.0	7088.5	6903.9	6696.4	6443.4	6150.0	5798.3	5421.4	5019.2	4563.8
20°	7495.8	7366.8	7204.9	7015.2	6807.7	6552.2	6261.3	5927.4	5547.9	5153.2	4702.9
17.5°	7579.3	7465.5	7303.6	7103.7	6896.3	6648.4	6365.0	6058.9	5656.7	5267.1	4819.3
15°	7637.5	7526.2	7379.5	7177.1	6974.7	6729.3	6446.0	6129.7	5755.3	5358.1	4915.4
12.5°	7678.0	7559.1	7422.5	7235.3	7032.9	6790.0	6514.3	6203.1	5838.8	5439.1	4998.9
10°	7688.1	7579.3	7442.7	7275.7	7078.4	6843.2	6572.5	6263.8	5907.1	5502.3	5067.2
7.5°	7693.2	7589.4	7465.5	7306.1	7111.3	6883.6	6615.5	6311.9	5957.7	5555.5	5117.8
5°	7690.6	7592.0	7480.7	7326.3	7131.5	6906.4	6643.3	6344.8	5993.1	5590.9	5155.8
2.5°	7683.0	7594.5	7490.8	7341.5	7154.3	6931.7	6671.1	6382.7	6031.1	5621.2	5186.1
0°	7703.3	7627.4	7495.8	7336.5	7159.4	6931.7	6668.6	6387.8	6036.1	5618.7	5183.6



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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°	63.2	60.7	60.7	58.2	55.7	53.1	48.1	45.5	40.5	32.9	25.3
85°	136.6	129.0	121.4	116.4	111.3	106.3	98.7	91.1	81.0	65.8	50.6
82.5°	240.3	225.2	210.0	192.3	177.1	161.9	149.3	136.6	121.4	98.7	75.9
80°	344.1	321.3	298.5	273.2	250.5	225.2	202.4	182.1	161.9	131.6	101.2
77.5°	447.8	417.4	384.5	354.2	321.3	288.4	255.5	227.7	197.3	161.9	126.5
75°	543.9	508.5	478.1	435.1	394.7	351.6	308.6	270.7	232.7	189.7	151.8
72.5°	640.0	594.5	551.5	511.0	465.5	412.4	364.3	316.2	268.2	217.6	172.0
70°	736.2	680.5	627.4	579.3	528.7	475.6	417.4	361.8	303.6	242.9	189.7
67.5°	834.8	771.6	710.9	650.2	592.0	531.3	470.5	407.3	339.0	268.2	210.0
65°	943.6	865.2	791.8	723.5	655.2	589.4	521.1	452.8	376.9	296.0	227.7
62.5°	1052.4	966.4	880.4	794.4	718.5	645.1	571.7	495.8	412.4	326.3	245.4
60°	1168.8	1070.1	971.4	875.3	781.7	700.8	619.8	538.9	450.3	354.2	263.1
57.5°	1297.8	1178.9	1067.6	958.8	852.5	756.4	667.9	581.9	483.2	382.0	283.3
55°	1444.5	1297.8	1166.2	1044.8	928.4	812.1	715.9	627.4	521.1	409.8	306.1
52.5°	1598.8	1429.3	1270.0	1133.4	1009.4	877.8	761.5	662.8	559.1	437.7	326.3
50°	1778.5	1563.4	1386.3	1219.4	1080.2	943.6	809.5	703.3	597.0	470.5	346.6
47.5°	1963.1	1725.3	1502.7	1320.6	1156.1	1006.9	865.2	738.7	632.5	500.9	366.8
45°	2178.2	1879.7	1634.3	1419.2	1229.5	1072.6	920.9	776.7	662.8	531.3	387.1
42.5°	2385.6	2061.8	1770.9	1528.0	1313.0	1135.9	971.4	817.1	693.2	561.6	404.8
40°	2631.0	2243.9	1902.4	1631.7	1396.5	1196.6	1022.0	860.1	721.0	589.4	422.5
37.5°	2866.3	2428.6	2061.8	1745.6	1477.4	1257.3	1072.6	900.6	746.3	617.3	445.2
35°	3099.0	2633.5	2213.6	1851.8	1560.9	1325.6	1123.2	938.6	771.6	640.0	465.5
32.5°	3321.6	2825.8	2367.9	1970.7	1652.0	1388.9	1168.8	974.0	796.9	660.3	485.7
30°	3529.1	3008.0	2519.7	2092.2	1735.5	1447.1	1211.8	1009.4	827.2	678.0	506.0
27.5°	3718.8	3185.0	2671.5	2206.0	1813.9	1500.2	1257.3	1042.3	852.5	695.7	523.7
25°	3890.9	3344.4	2810.6	2309.7	1884.7	1558.4	1300.3	1075.2	875.3	710.9	538.9
22.5°	4052.8	3491.1	2937.1	2413.4	1970.7	1616.6	1340.8	1105.5	898.1	726.1	554.0
20°	4194.4	3625.2	3058.5	2517.2	2046.6	1669.7	1376.2	1133.4	918.3	736.2	569.2
17.5°	4308.3	3744.1	3167.3	2608.2	2112.4	1715.2	1406.6	1158.7	936.0	748.8	579.3
15°	4409.5	3845.3	3258.4	2686.7	2170.6	1753.2	1434.4	1178.9	951.2	756.4	592.0
12.5°	4495.5	3931.3	3336.8	2755.0	2221.2	1786.0	1457.2	1194.1	963.9	764.0	599.6
10°	4566.3	3999.6	3402.6	2808.1	2261.7	1811.3	1474.9	1209.3	974.0	771.6	607.2
7.5°	4619.4	4050.2	3450.7	2853.6	2294.5	1829.1	1490.1	1219.4	984.1	776.7	619.8
5°	4659.9	4093.2	3488.6	2884.0	2319.8	1854.4	1507.8	1232.0	994.2	781.7	619.8
2.5°	4690.3	4128.7	3519.0	2909.3	2340.1	1849.3	1507.8	1229.5	994.2	781.7	617.3
0°	4685.2	4131.2	3516.4	2909.3	2340.1	1844.2	1507.8	1227.0	994.2	781.7	617.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.7	12.6	5.1	0.0
85°	37.9	25.3	12.6	0.0
82.5°	55.7	35.4	17.7	0.0
80°	73.4	48.1	22.8	0.0
77.5°	93.6	60.7	30.4	0.0
75°	111.3	70.8	35.4	0.0
72.5°	129.0	83.5	40.5	0.0
70°	144.2	93.6	45.5	0.0
67.5°	159.4	106.3	53.1	0.0
65°	172.0	116.4	58.2	0.0
62.5°	182.1	129.0	63.2	0.0
60°	194.8	139.1	68.3	0.0
57.5°	204.9	146.7	73.4	0.0
55°	215.0	151.8	78.4	0.0
52.5°	225.2	159.4	83.5	0.0
50°	235.3	167.0	88.5	0.0
47.5°	245.4	172.0	91.1	0.0
45°	260.6	179.6	96.1	0.0
42.5°	273.2	184.7	101.2	0.0
40°	285.9	189.7	103.7	0.0
37.5°	298.5	194.8	108.8	0.0
35°	311.2	199.9	111.3	0.0
32.5°	321.3	204.9	113.8	0.0
30°	331.4	210.0	116.4	0.0
27.5°	341.5	212.5	118.9	0.0
25°	349.1	217.6	121.4	0.0
22.5°	356.7	220.1	124.0	0.0
20°	361.8	222.6	126.5	0.0
17.5°	369.4	225.2	129.0	0.0
15°	371.9	227.7	134.1	0.0
12.5°	376.9	230.2	134.1	0.0
10°	379.5	232.7	134.1	0.0
7.5°	384.5	232.7	134.1	0.0
5°	382.0	232.7	134.1	0.0
2.5°	382.0	232.7	134.1	0.0
0°	379.5	232.7	134.1	0.0

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