

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: P628197

Luminaire Tested: **IFLD-M-SA4D-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628197
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

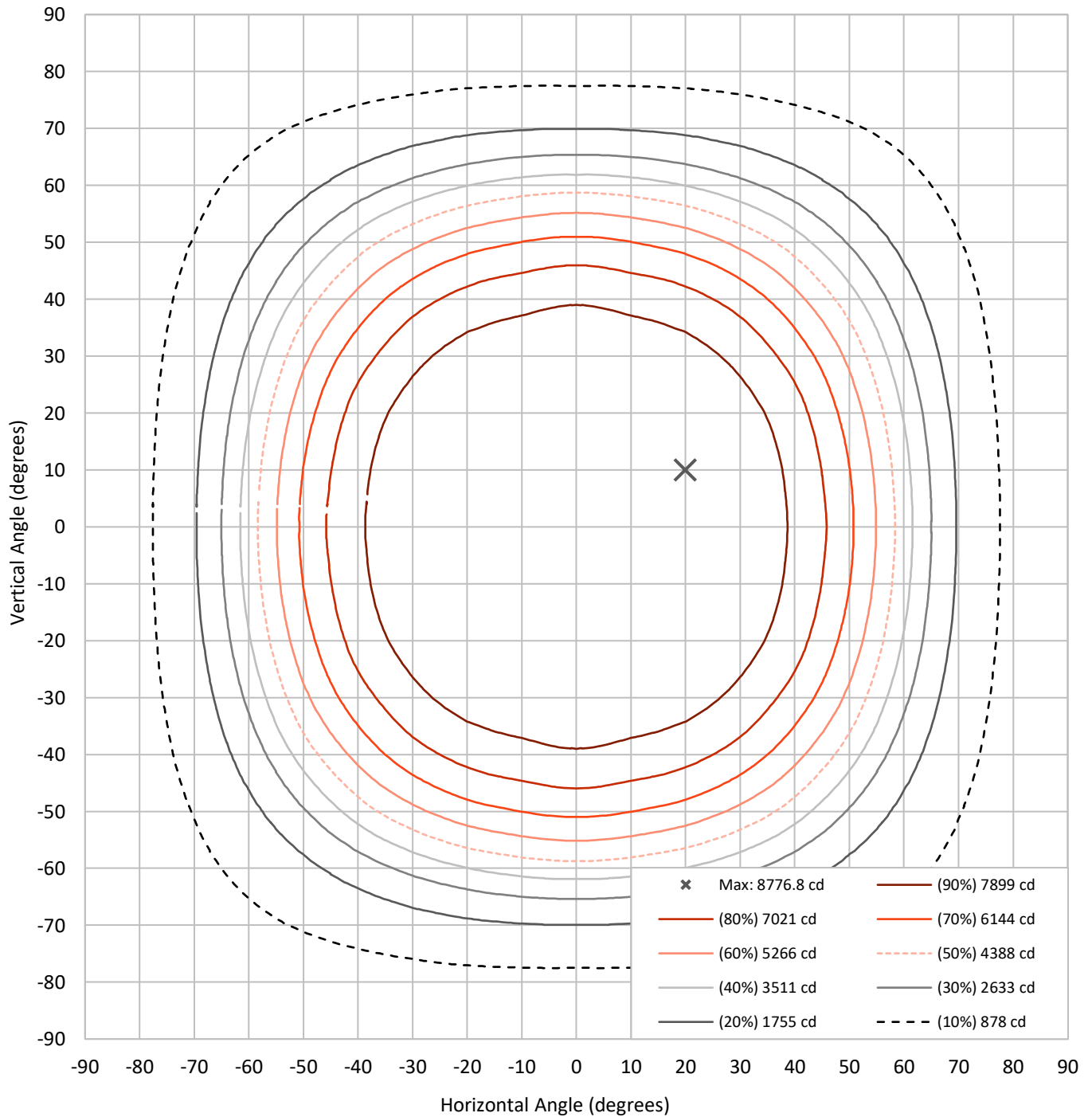
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26925.9 lumens	Max Intensity:	8776.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.8 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:	16522.3 lumens	Field Lumens:	19807.4 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		



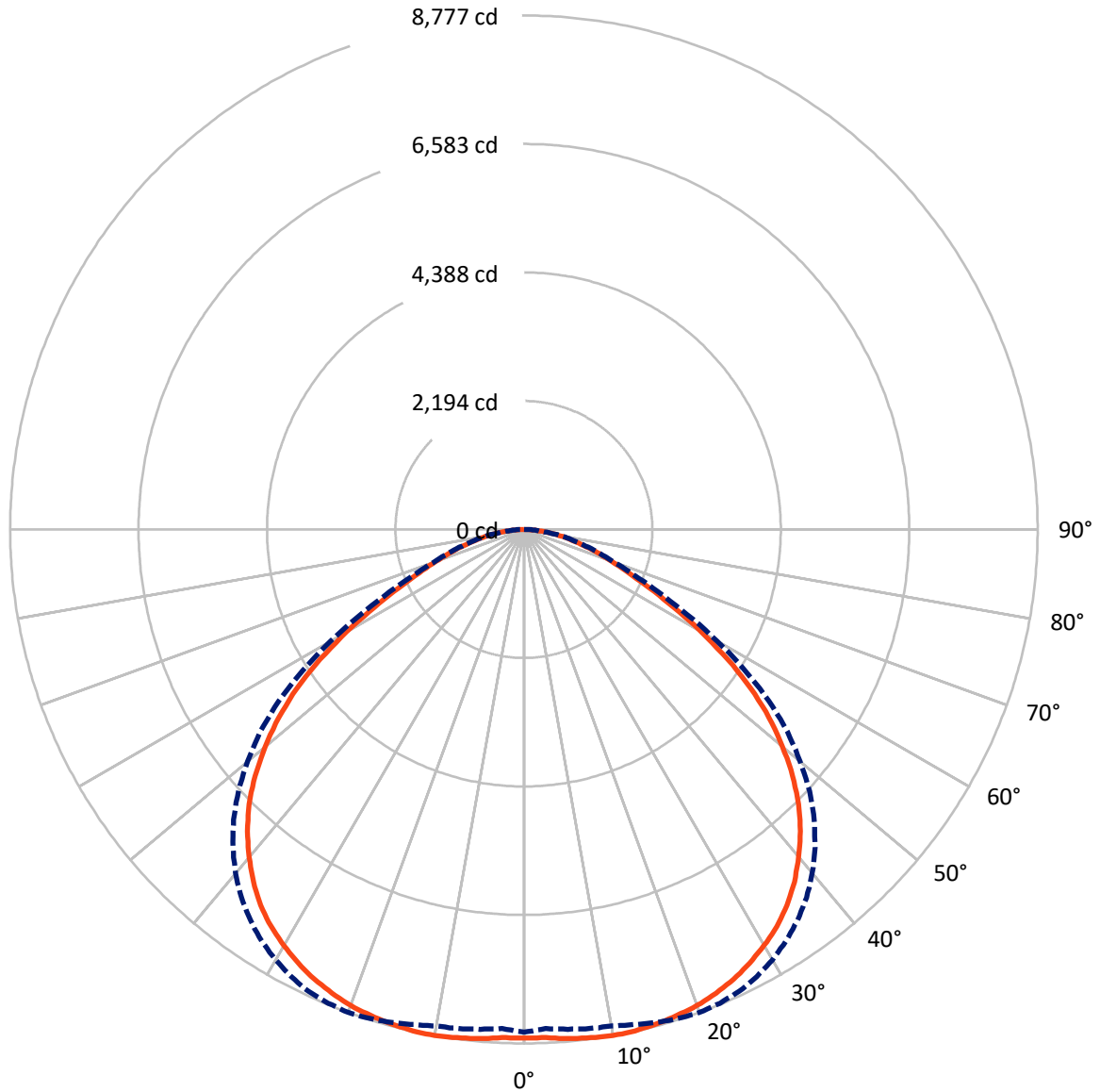
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Iso-Candela Plot



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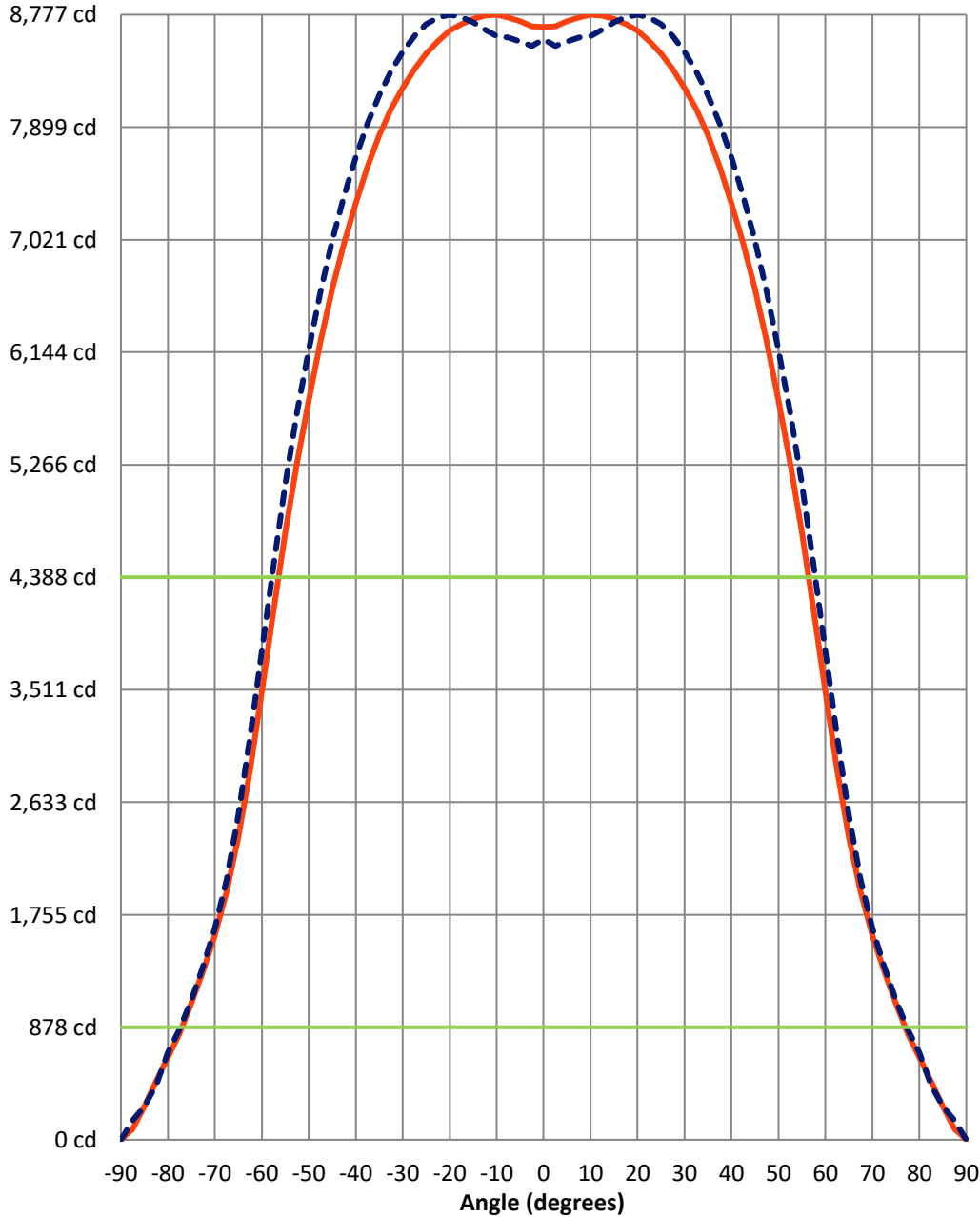
Luminous Intensity Polar Plot



— 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: 16522.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 19807.4
 Efficiency: 73.6%

Spill:
 Lumens: 7118.5
 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°	70.8	76.5	79.3	82.2	85.0	87.8	90.7	87.8	85.0	85.0	82.2
85°	189.8	195.5	198.3	218.1	238.0	249.3	263.5	260.6	260.6	257.8	255.0
82.5°	379.6	396.6	410.8	430.6	442.0	459.0	470.3	461.8	456.1	444.8	436.3
80°	674.3	679.9	682.8	685.6	671.4	668.6	662.9	654.4	643.1	628.9	614.8
77.5°	858.4	864.1	869.7	864.1	861.2	858.4	849.9	841.4	830.1	818.7	801.8
75°	1136.1	1136.1	1136.1	1127.6	1121.9	1113.4	1099.2	1085.1	1065.2	1042.6	1017.1
72.5°	1430.7	1427.9	1425.0	1408.0	1393.9	1376.9	1357.0	1340.0	1317.4	1291.9	1257.9
70°	1739.5	1745.2	1748.0	1725.3	1708.3	1685.7	1660.2	1629.0	1595.0	1558.2	1510.0
67.5°	2164.4	2158.8	2153.1	2122.0	2099.3	2068.1	2031.3	1986.0	1935.0	1878.3	1810.3
65°	2691.4	2699.9	2682.9	2651.7	2609.2	2558.2	2501.6	2436.4	2359.9	2274.9	2178.6
62.5°	3328.8	3343.0	3323.2	3283.5	3229.7	3161.7	3082.4	2988.9	2884.0	2765.1	2646.1
60°	4054.1	4051.3	4014.4	3960.6	3889.8	3804.8	3717.0	3615.0	3496.0	3357.2	3212.7
57.5°	4719.9	4714.2	4668.9	4615.0	4544.2	4453.5	4360.1	4252.4	4127.7	3980.4	3813.3
55°	5317.6	5312.0	5266.6	5210.0	5136.3	5045.7	4960.7	4858.7	4736.9	4581.0	4402.6
52.5°	5847.4	5850.2	5810.6	5748.2	5668.9	5581.1	5498.9	5397.0	5280.8	5125.0	4952.2
50°	6334.7	6331.9	6289.4	6232.7	6159.0	6074.0	5991.9	5889.9	5768.1	5617.9	5450.8
47.5°	6788.0	6782.3	6734.1	6671.8	6595.3	6521.7	6445.2	6354.5	6227.0	6076.9	5909.7
45°	7167.6	7156.3	7108.1	7048.6	6975.0	6909.8	6841.8	6773.8	6637.8	6499.0	6340.4
42.5°	7493.4	7490.6	7442.4	7382.9	7309.3	7252.6	7190.3	7105.3	6992.0	6864.5	6708.7
40°	7805.0	7782.4	7734.2	7677.6	7609.6	7561.4	7499.1	7414.1	7303.6	7178.9	7028.8
37.5°	8037.3	8040.2	7989.2	7926.9	7867.4	7822.0	7765.4	7686.1	7589.7	7467.9	7317.8
35°	8258.3	8244.2	8201.7	8147.8	8094.0	8043.0	7983.5	7915.5	7836.2	7722.9	7581.2
32.5°	8402.8	8422.6	8371.6	8315.0	8283.8	8244.2	8181.8	8111.0	8040.2	7926.9	7799.4
30°	8561.5	8544.5	8504.8	8456.6	8434.0	8408.5	8354.6	8286.7	8204.5	8102.5	7983.5
27.5°	8672.0	8663.5	8615.3	8570.0	8558.6	8536.0	8493.5	8434.0	8351.8	8252.7	8142.2
25°	8720.1	8725.8	8680.4	8655.0	8655.0	8640.8	8606.8	8555.8	8473.6	8383.0	8275.3
22.5°	8742.8	8737.1	8705.9	8700.3	8714.4	8703.1	8688.9	8643.6	8570.0	8496.3	8405.6
20°	8756.9	8717.3	8688.9	8711.6	8728.6	8725.8	8714.4	8686.1	8652.1	8589.8	8510.5
17.5°	8725.8	8700.3	8666.3	8700.3	8737.1	8739.9	8728.6	8711.6	8703.1	8663.5	8592.6
15°	8649.3	8629.5	8635.1	8669.1	8711.6	8725.8	8734.3	8754.1	8742.8	8711.6	8649.3
12.5°	8598.3	8572.8	8598.3	8632.3	8655.0	8663.5	8731.4	8768.3	8768.3	8739.9	8700.3
10°	8584.1	8533.1	8567.1	8598.3	8609.6	8660.6	8717.3	8756.9	8776.8	8754.1	8703.1
7.5°	8555.8	8521.8	8536.0	8550.1	8615.3	8652.1	8683.3	8725.8	8754.1	8751.3	8705.9
5°	8541.6	8499.1	8504.8	8564.3	8609.6	8635.1	8646.5	8683.3	8725.8	8734.3	8700.3
2.5°	8504.8	8485.0	8527.5	8533.1	8567.1	8587.0	8598.3	8632.3	8686.1	8705.9	8691.8
0°	8485.0	8456.6	8428.3	8451.0	8507.6	8550.1	8567.1	8618.1	8680.4	8700.3	8669.1



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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°	79.3	76.5	73.7	70.8	73.7	73.7	73.7	70.8	73.7	70.8	70.8
85°	246.5	235.1	226.6	215.3	204.0	195.5	184.1	172.8	170.0	167.1	161.5
82.5°	425.0	410.8	396.6	379.6	362.6	342.8	323.0	300.3	294.6	289.0	280.5
80°	597.8	577.9	558.1	538.3	521.3	501.4	478.8	453.3	436.3	422.1	405.1
77.5°	779.1	750.8	722.4	688.4	668.6	648.8	626.1	600.6	575.1	552.4	526.9
75°	985.9	954.7	926.4	892.4	855.6	818.7	781.9	747.9	711.1	677.1	643.1
72.5°	1215.4	1170.0	1124.7	1082.2	1036.9	991.6	943.4	898.1	852.7	807.4	759.3
70°	1456.2	1399.5	1342.9	1286.2	1226.7	1167.2	1110.6	1053.9	997.2	937.7	883.9
67.5°	1739.5	1674.3	1600.7	1521.3	1433.5	1357.0	1283.4	1215.4	1147.4	1079.4	1011.4
65°	2093.6	2003.0	1903.8	1796.2	1694.2	1592.2	1484.5	1382.5	1303.2	1223.9	1147.4
62.5°	2529.9	2402.4	2263.6	2124.8	2000.1	1867.0	1742.3	1609.2	1484.5	1371.2	1277.7
60°	3051.2	2878.4	2708.4	2529.9	2357.1	2175.8	2017.1	1852.8	1697.0	1558.2	1422.2
57.5°	3626.3	3425.2	3221.2	3003.0	2767.9	2555.4	2340.1	2124.8	1940.6	1756.5	1603.5
55°	4209.9	3997.4	3767.9	3521.5	3263.7	2991.7	2699.9	2459.1	2206.9	1991.6	1793.3
52.5°	4765.2	4544.2	4306.2	4079.6	3770.8	3459.1	3139.0	2821.7	2527.1	2252.3	2011.5
50°	5261.0	5045.7	4816.2	4552.7	4266.6	3935.1	3578.1	3221.2	2872.7	2549.7	2249.4
47.5°	5714.3	5504.6	5275.1	5011.7	4751.0	4382.7	4022.9	3629.1	3241.0	2869.9	2518.6
45°	6139.2	5926.7	5688.8	5436.6	5136.3	4807.7	4436.5	4039.9	3623.5	3207.0	2801.9
42.5°	6524.5	6312.0	6071.2	5810.6	5513.1	5187.3	4827.5	4428.0	4008.8	3555.5	3110.7
40°	6861.6	6654.8	6422.5	6150.5	5872.9	5530.1	5176.0	4796.3	4362.9	3906.8	3416.7
37.5°	7156.3	6963.6	6734.1	6465.0	6170.4	5864.4	5498.9	5119.3	4728.4	4232.6	3731.1
35°	7416.9	7238.4	7003.3	6748.3	6459.3	6136.4	5793.6	5422.4	5000.3	4535.7	4048.4
32.5°	7643.6	7462.2	7246.9	6992.0	6711.5	6408.3	6057.1	5683.1	5283.6	4810.5	4280.7
30°	7836.2	7660.6	7456.6	7215.8	6946.6	6646.3	6303.5	5926.7	5518.8	5048.5	4524.4
27.5°	8003.4	7836.2	7637.9	7414.1	7156.3	6867.3	6521.7	6142.0	5725.6	5272.3	4748.2
25°	8147.8	7986.4	7802.2	7589.7	7334.8	7051.4	6725.6	6329.0	5912.6	5456.4	4938.0
22.5°	8278.2	8122.3	7938.2	7731.4	7499.1	7215.8	6887.1	6493.3	6071.2	5620.8	5110.8
20°	8394.3	8249.8	8068.5	7856.0	7623.7	7337.6	7011.8	6637.8	6212.9	5770.9	5266.6
17.5°	8487.8	8360.3	8179.0	7955.2	7722.9	7445.2	7127.9	6785.1	6334.7	5898.4	5397.0
15°	8553.0	8428.3	8264.0	8037.3	7810.7	7535.9	7218.6	6864.5	6445.2	6000.4	5504.6
12.5°	8598.3	8465.1	8312.2	8102.5	7875.9	7603.9	7295.1	6946.6	6538.7	6091.0	5598.1
10°	8609.6	8487.8	8334.8	8147.8	7926.9	7663.4	7360.3	7014.6	6615.2	6161.9	5674.6
7.5°	8615.3	8499.1	8360.3	8181.8	7963.7	7708.7	7408.4	7068.4	6671.8	6221.4	5731.2
5°	8612.5	8502.0	8377.3	8204.5	7986.4	7734.2	7439.6	7105.3	6711.5	6261.0	5773.7
2.5°	8604.0	8504.8	8388.6	8221.5	8011.9	7762.5	7470.7	7147.8	6754.0	6295.0	5807.7
0°	8626.6	8541.6	8394.3	8215.8	8017.5	7762.5	7467.9	7153.4	6759.6	6292.2	5804.9



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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°	70.8	68.0	68.0	65.2	62.3	59.5	53.8	51.0	45.3	36.8	28.3
85°	153.0	144.5	136.0	130.3	124.7	119.0	110.5	102.0	90.7	73.7	56.7
82.5°	269.1	252.1	235.1	215.3	198.3	181.3	167.1	153.0	136.0	110.5	85.0
80°	385.3	359.8	334.3	306.0	280.5	252.1	226.6	204.0	181.3	147.3	113.3
77.5°	501.4	467.5	430.6	396.6	359.8	323.0	286.1	255.0	221.0	181.3	141.7
75°	609.1	569.4	535.4	487.3	442.0	393.8	345.6	303.1	260.6	212.5	170.0
72.5°	716.8	665.8	617.6	572.3	521.3	461.8	408.0	354.1	300.3	243.6	192.6
70°	824.4	762.1	702.6	648.8	592.1	532.6	467.5	405.1	340.0	272.0	212.5
67.5°	934.9	864.1	796.1	728.1	662.9	594.9	526.9	456.1	379.6	300.3	235.1
65°	1056.7	968.9	886.7	810.3	733.8	660.1	583.6	507.1	422.1	331.5	255.0
62.5°	1178.5	1082.2	985.9	889.6	804.6	722.4	640.3	555.3	461.8	365.5	274.8
60°	1308.9	1198.4	1087.9	980.2	875.4	784.8	694.1	603.4	504.3	396.6	294.6
57.5°	1453.4	1320.2	1195.5	1073.7	954.7	847.1	747.9	651.6	541.1	427.8	317.3
55°	1617.7	1453.4	1306.0	1170.0	1039.7	909.4	801.8	702.6	583.6	459.0	342.8
52.5°	1790.5	1600.7	1422.2	1269.2	1130.4	983.1	852.7	742.3	626.1	490.1	365.5
50°	1991.6	1750.8	1552.5	1365.5	1209.7	1056.7	906.6	787.6	668.6	526.9	388.1
47.5°	2198.4	1932.1	1682.8	1478.8	1294.7	1127.6	968.9	827.2	708.3	560.9	410.8
45°	2439.3	2105.0	1830.1	1589.3	1376.9	1201.2	1031.2	869.7	742.3	594.9	433.5
42.5°	2671.6	2308.9	1983.1	1711.2	1470.4	1272.0	1087.9	915.1	776.3	628.9	453.3
40°	2946.4	2512.9	2130.4	1827.3	1563.8	1340.0	1144.6	963.2	807.4	660.1	473.1
37.5°	3209.8	2719.7	2308.9	1954.8	1654.5	1408.0	1201.2	1008.6	835.7	691.3	498.6
35°	3470.5	2949.2	2478.9	2073.8	1748.0	1484.5	1257.9	1051.1	864.1	716.8	521.3
32.5°	3719.8	3164.5	2651.7	2206.9	1850.0	1555.3	1308.9	1090.7	892.4	739.4	543.9
30°	3952.1	3368.5	2821.7	2342.9	1943.5	1620.5	1357.0	1130.4	926.4	759.3	566.6
27.5°	4164.6	3566.8	2991.7	2470.4	2031.3	1680.0	1408.0	1167.2	954.7	779.1	586.4
25°	4357.2	3745.3	3147.5	2586.6	2110.6	1745.2	1456.2	1204.0	980.2	796.1	603.4
22.5°	4538.5	3909.6	3289.2	2702.7	2206.9	1810.3	1501.5	1238.0	1005.7	813.1	620.4
20°	4697.2	4059.8	3425.2	2818.9	2291.9	1869.8	1541.2	1269.2	1028.4	824.4	637.4
17.5°	4824.7	4192.9	3547.0	2920.9	2365.6	1920.8	1575.2	1297.5	1048.2	838.6	648.8
15°	4938.0	4306.2	3649.0	3008.7	2430.8	1963.3	1606.3	1320.2	1065.2	847.1	662.9
12.5°	5034.3	4402.6	3736.8	3085.2	2487.4	2000.1	1631.8	1337.2	1079.4	855.6	671.4
10°	5113.6	4479.0	3810.4	3144.7	2532.7	2028.5	1651.7	1354.2	1090.7	864.1	679.9
7.5°	5173.1	4535.7	3864.3	3195.7	2569.6	2048.3	1668.7	1365.5	1102.1	869.7	694.1
5°	5218.5	4583.9	3906.8	3229.7	2597.9	2076.6	1688.5	1379.7	1113.4	875.4	694.1
2.5°	5252.5	4623.5	3940.8	3258.0	2620.6	2071.0	1688.5	1376.9	1113.4	875.4	691.3
0°	5246.8	4626.4	3937.9	3258.0	2620.6	2065.3	1688.5	1374.0	1113.4	875.4	691.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.8	14.2	5.7	0.0
85°	42.5	28.3	14.2	0.0
82.5°	62.3	39.7	19.8	0.0
80°	82.2	53.8	25.5	0.0
77.5°	104.8	68.0	34.0	0.0
75°	124.7	79.3	39.7	0.0
72.5°	144.5	93.5	45.3	0.0
70°	161.5	104.8	51.0	0.0
67.5°	178.5	119.0	59.5	0.0
65°	192.6	130.3	65.2	0.0
62.5°	204.0	144.5	70.8	0.0
60°	218.1	155.8	76.5	0.0
57.5°	229.5	164.3	82.2	0.0
55°	240.8	170.0	87.8	0.0
52.5°	252.1	178.5	93.5	0.0
50°	263.5	187.0	99.2	0.0
47.5°	274.8	192.6	102.0	0.0
45°	291.8	201.1	107.7	0.0
42.5°	306.0	206.8	113.3	0.0
40°	320.1	212.5	116.2	0.0
37.5°	334.3	218.1	121.8	0.0
35°	348.5	223.8	124.7	0.0
32.5°	359.8	229.5	127.5	0.0
30°	371.1	235.1	130.3	0.0
27.5°	382.5	238.0	133.2	0.0
25°	391.0	243.6	136.0	0.0
22.5°	399.5	246.5	138.8	0.0
20°	405.1	249.3	141.7	0.0
17.5°	413.6	252.1	144.5	0.0
15°	416.5	255.0	150.2	0.0
12.5°	422.1	257.8	150.2	0.0
10°	425.0	260.6	150.2	0.0
7.5°	430.6	260.6	150.2	0.0
5°	427.8	260.6	150.2	0.0
2.5°	427.8	260.6	150.2	0.0
0°	425.0	260.6	150.2	0.0

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