

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: P628392

Luminaire Tested: **IFLD-S-SA6A-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628392
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

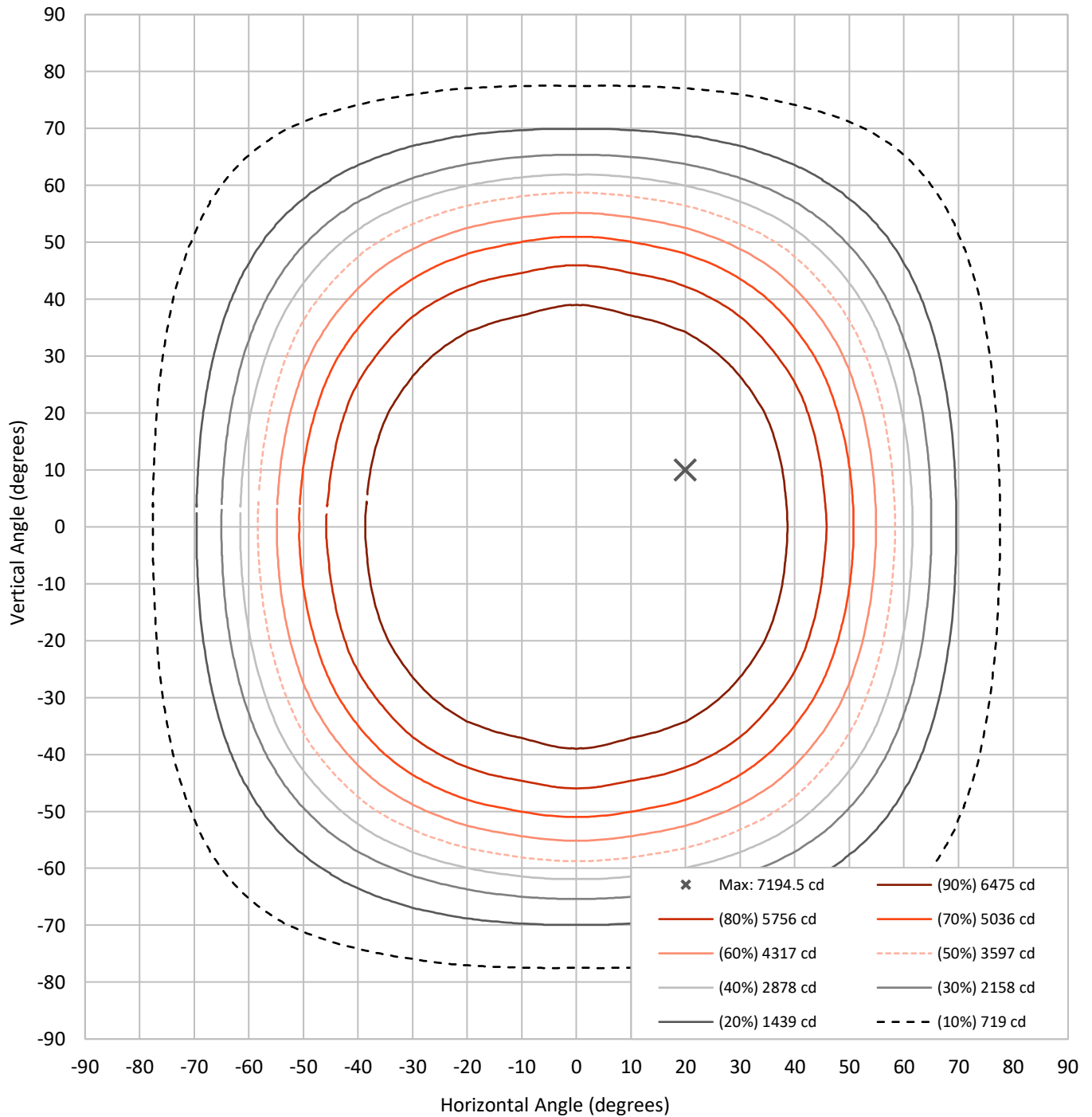
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22071.8 lumens	Max Intensity:	7194.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	116.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	13543.7 lumens	Field Lumens:	16236.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	189.6		
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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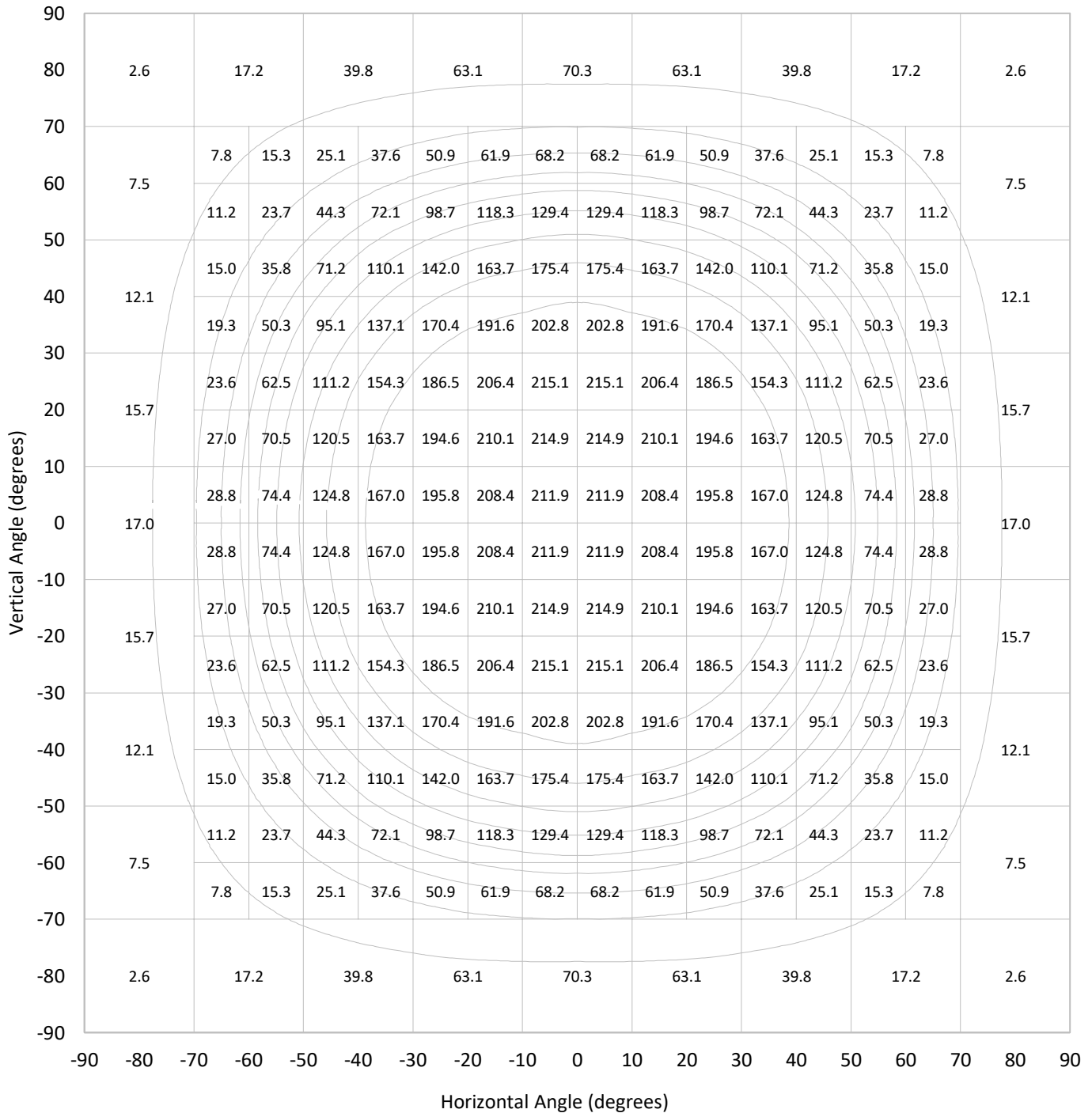
Iso-Candela Plot





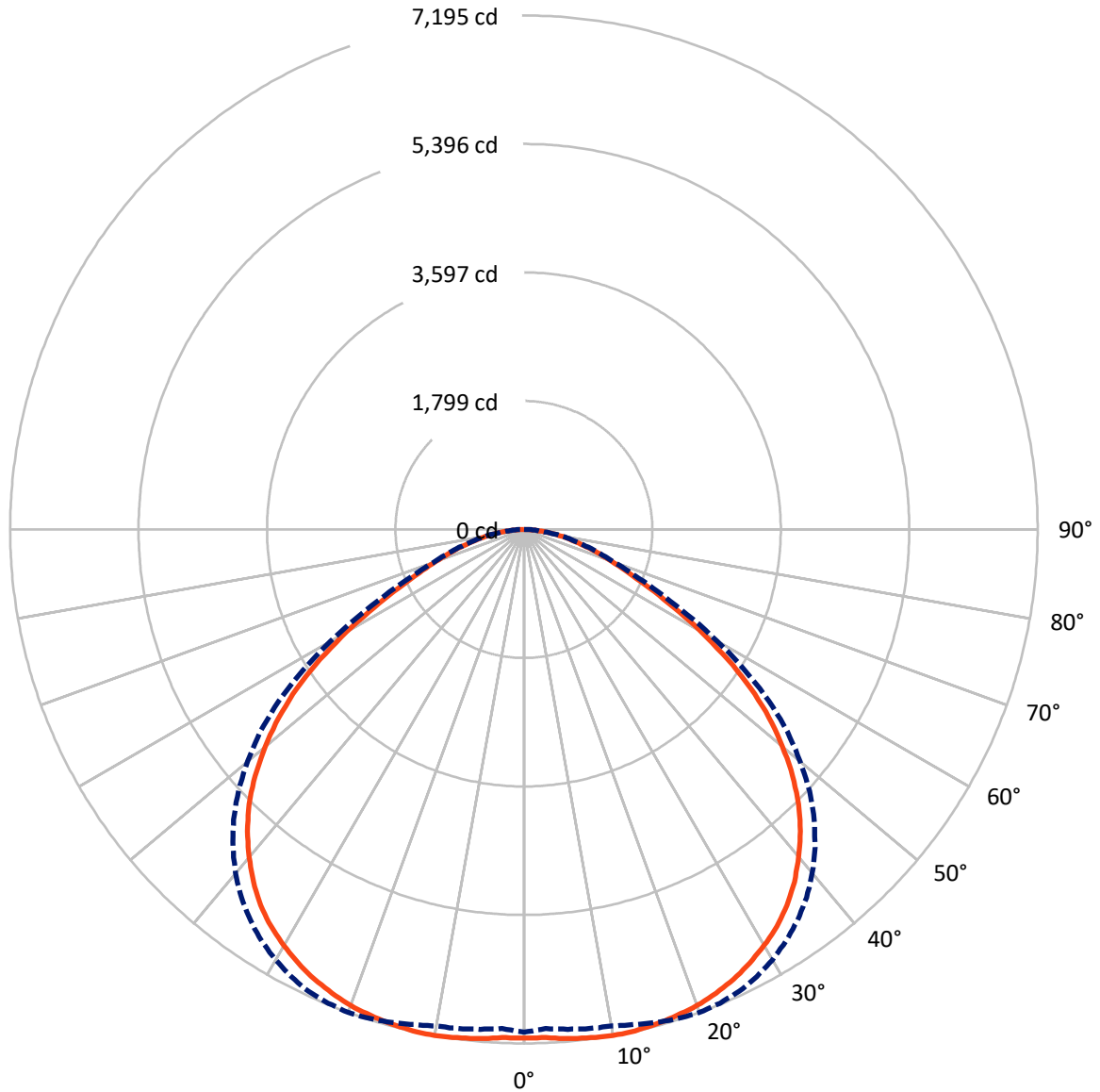
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Lumen Table



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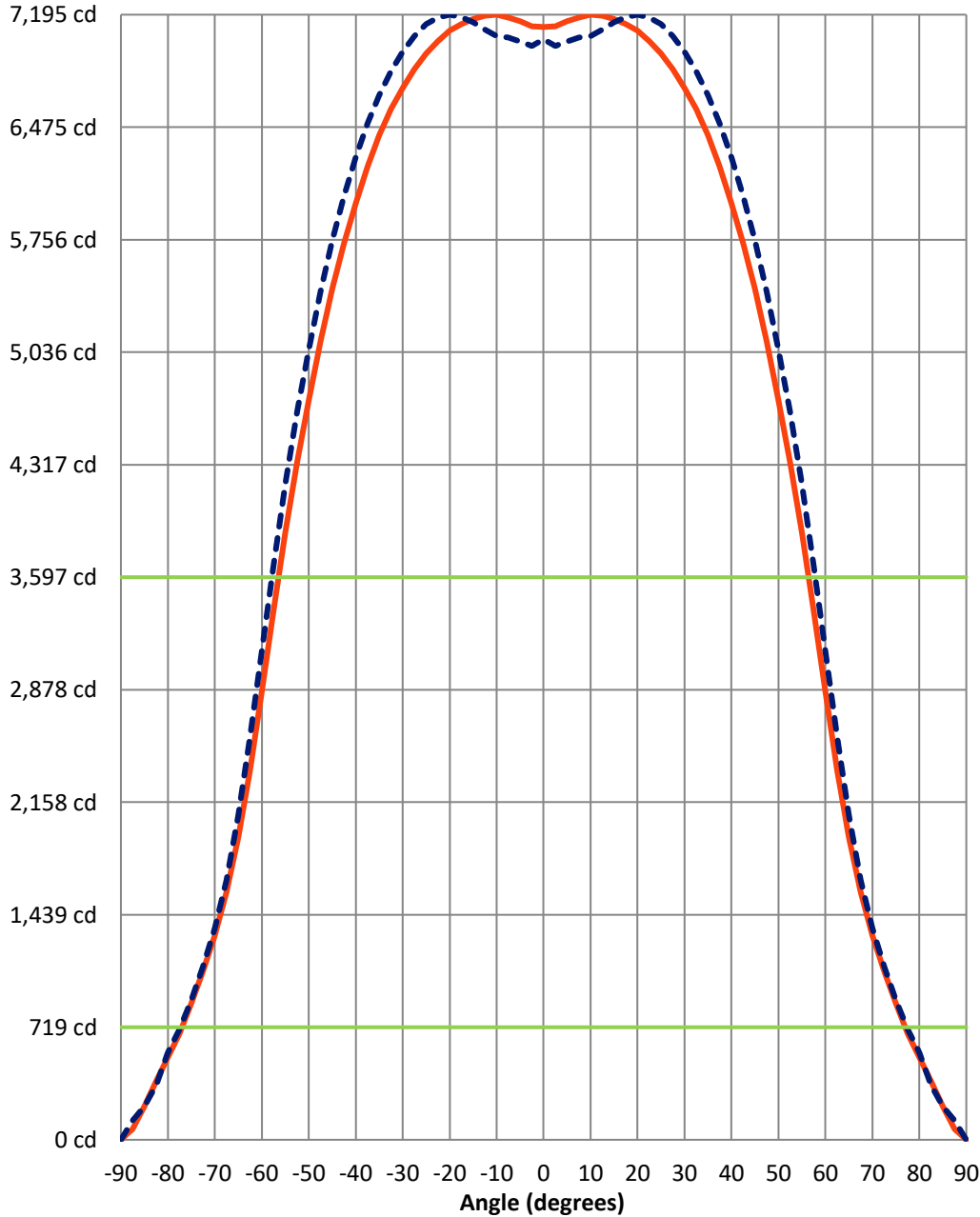
Luminous Intensity Polar Plot



— 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: 13543.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 16236.6
 Efficiency: 73.6%

Spill:
 Lumens: 5835.2
 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°	58.1	62.7	65.0	67.3	69.7	72.0	74.3	72.0	69.7	69.7	67.3
85°	155.6	160.2	162.6	178.8	195.1	204.4	216.0	213.7	213.7	211.3	209.0
82.5°	311.2	325.1	336.7	353.0	362.3	376.2	385.5	378.5	373.9	364.6	357.6
80°	552.7	557.4	559.7	562.0	550.4	548.1	543.4	536.5	527.2	515.6	503.9
77.5°	703.7	708.3	712.9	708.3	706.0	703.7	696.7	689.7	680.4	671.1	657.2
75°	931.2	931.2	931.2	924.3	919.6	912.7	901.1	889.4	873.2	854.6	833.7
72.5°	1172.8	1170.4	1168.1	1154.2	1142.6	1128.6	1112.4	1098.5	1079.9	1059.0	1031.1
70°	1425.9	1430.5	1432.9	1414.3	1400.4	1381.8	1360.9	1335.3	1307.5	1277.3	1237.8
67.5°	1774.2	1769.6	1765.0	1739.4	1720.8	1695.3	1665.1	1627.9	1586.1	1539.7	1484.0
65°	2206.2	2213.2	2199.2	2173.7	2138.8	2097.0	2050.6	1997.2	1934.5	1864.8	1785.9
62.5°	2728.7	2740.3	2724.1	2691.6	2647.4	2591.7	2526.7	2450.0	2364.1	2266.6	2169.0
60°	3323.2	3320.9	3290.7	3246.6	3188.5	3118.9	3046.9	2963.3	2865.7	2751.9	2633.5
57.5°	3869.0	3864.3	3827.2	3783.0	3725.0	3650.7	3574.0	3485.8	3383.6	3262.8	3125.8
55°	4359.0	4354.3	4317.2	4270.7	4210.4	4136.0	4066.4	3982.8	3882.9	3755.2	3608.9
52.5°	4793.3	4795.6	4763.1	4712.0	4646.9	4575.0	4507.6	4424.0	4328.8	4201.1	4059.4
50°	5192.7	5190.4	5155.5	5109.1	5048.7	4979.0	4911.7	4828.1	4728.2	4605.1	4468.1
47.5°	5564.3	5559.6	5520.1	5469.0	5406.3	5346.0	5283.3	5208.9	5104.4	4981.4	4844.3
45°	5875.4	5866.2	5826.7	5777.9	5717.5	5664.1	5608.4	5552.6	5441.2	5327.4	5197.3
42.5°	6142.5	6140.2	6100.7	6051.9	5991.6	5945.1	5894.0	5824.4	5731.5	5627.0	5499.2
40°	6398.0	6379.4	6339.9	6293.5	6237.7	6198.3	6147.2	6077.5	5986.9	5884.7	5761.7
37.5°	6588.4	6590.7	6548.9	6497.8	6449.1	6411.9	6365.5	6300.4	6221.5	6121.6	5998.5
35°	6769.5	6757.9	6723.1	6679.0	6634.8	6593.0	6544.3	6488.5	6423.5	6330.6	6214.5
32.5°	6888.0	6904.2	6862.4	6816.0	6790.4	6757.9	6706.8	6648.8	6590.7	6497.8	6393.3
30°	7018.0	7004.1	6971.6	6932.1	6913.5	6892.6	6848.5	6792.8	6725.4	6641.8	6544.3
27.5°	7108.6	7101.6	7062.2	7025.0	7015.7	6997.1	6962.3	6913.5	6846.2	6764.9	6674.3
25°	7148.1	7152.7	7115.6	7094.7	7094.7	7083.1	7055.2	7013.4	6946.0	6871.7	6783.5
22.5°	7166.7	7162.0	7136.5	7131.8	7143.4	7134.1	7122.5	7085.4	7025.0	6964.6	6890.3
20°	7178.3	7145.8	7122.5	7141.1	7155.0	7152.7	7143.4	7120.2	7092.3	7041.3	6976.2
17.5°	7152.7	7131.8	7104.0	7131.8	7162.0	7164.3	7155.0	7141.1	7134.1	7101.6	7043.6
15°	7090.0	7073.8	7078.4	7106.3	7141.1	7152.7	7159.7	7175.9	7166.7	7141.1	7090.0
12.5°	7048.2	7027.3	7048.2	7076.1	7094.7	7101.6	7157.4	7187.6	7187.6	7164.3	7131.8
10°	7036.6	6994.8	7022.7	7048.2	7057.5	7099.3	7145.8	7178.3	7194.5	7175.9	7134.1
7.5°	7013.4	6985.5	6997.1	7008.7	7062.2	7092.3	7117.9	7152.7	7175.9	7173.6	7136.5
5°	7001.8	6966.9	6971.6	7020.3	7057.5	7078.4	7087.7	7117.9	7152.7	7159.7	7131.8
2.5°	6971.6	6955.3	6990.2	6994.8	7022.7	7038.9	7048.2	7076.1	7120.2	7136.5	7124.9
0°	6955.3	6932.1	6908.9	6927.5	6973.9	7008.7	7022.7	7064.5	7115.6	7131.8	7106.3



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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°	65.0	62.7	60.4	58.1	60.4	60.4	60.4	58.1	60.4	58.1	58.1
85°	202.0	192.8	185.8	176.5	167.2	160.2	151.0	141.7	139.3	137.0	132.4
82.5°	348.3	336.7	325.1	311.2	297.3	281.0	264.7	246.2	241.5	236.9	229.9
80°	490.0	473.8	457.5	441.2	427.3	411.0	392.5	371.6	357.6	346.0	332.1
77.5°	638.6	615.4	592.2	564.3	548.1	531.8	513.2	492.3	471.4	452.9	432.0
75°	808.2	782.6	759.4	731.5	701.3	671.1	641.0	613.1	582.9	555.0	527.2
72.5°	996.3	959.1	922.0	887.1	850.0	812.8	773.3	736.2	699.0	661.9	622.4
70°	1193.7	1147.2	1100.8	1054.3	1005.6	956.8	910.3	863.9	817.5	768.7	724.6
67.5°	1425.9	1372.5	1312.1	1247.1	1175.1	1112.4	1052.0	996.3	940.5	884.8	829.1
65°	1716.2	1641.9	1560.6	1472.3	1388.7	1305.1	1216.9	1133.3	1068.3	1003.2	940.5
62.5°	2073.8	1969.3	1855.5	1741.7	1639.6	1530.4	1428.2	1319.1	1216.9	1124.0	1047.4
60°	2501.1	2359.5	2220.1	2073.8	1932.2	1783.5	1653.5	1518.8	1391.1	1277.3	1165.8
57.5°	2972.6	2807.7	2640.5	2461.7	2268.9	2094.7	1918.2	1741.7	1590.8	1439.8	1314.4
55°	3451.0	3276.8	3088.7	2886.6	2675.3	2452.4	2213.2	2015.8	1809.1	1632.6	1470.0
52.5°	3906.1	3725.0	3529.9	3344.1	3091.0	2835.5	2573.1	2313.0	2071.5	1846.2	1648.8
50°	4312.5	4136.0	3947.9	3732.0	3497.4	3225.7	2933.1	2640.5	2354.8	2090.1	1843.9
47.5°	4684.1	4512.3	4324.1	4108.2	3894.5	3592.6	3297.7	2974.9	2656.7	2352.5	2064.5
45°	5032.5	4858.3	4663.2	4456.5	4210.4	3941.0	3636.7	3311.6	2970.2	2628.9	2296.8
42.5°	5348.3	5174.1	4976.7	4763.1	4519.2	4252.2	3957.2	3629.8	3286.1	2914.5	2549.9
40°	5624.6	5455.1	5264.7	5041.7	4814.2	4533.2	4242.9	3931.7	3576.4	3202.5	2800.7
37.5°	5866.2	5708.2	5520.1	5299.5	5058.0	4807.2	4507.6	4196.4	3875.9	3469.5	3058.5
35°	6079.8	5933.5	5740.8	5531.7	5294.9	5030.1	4749.1	4444.9	4098.9	3718.0	3318.6
32.5°	6265.6	6117.0	5940.5	5731.5	5501.6	5253.1	4965.1	4658.6	4331.1	3943.3	3509.0
30°	6423.5	6279.5	6112.3	5914.9	5694.3	5448.1	5167.1	4858.3	4523.9	4138.4	3708.7
27.5°	6560.5	6423.5	6261.0	6077.5	5866.2	5629.3	5346.0	5034.8	4693.4	4321.8	3892.2
25°	6679.0	6546.6	6395.6	6221.5	6012.5	5780.2	5513.2	5188.0	4846.7	4472.8	4047.8
22.5°	6785.8	6658.1	6507.1	6337.6	6147.2	5914.9	5645.5	5322.7	4976.7	4607.5	4189.5
20°	6881.0	6762.6	6613.9	6439.8	6249.3	6014.8	5747.7	5441.2	5092.8	4730.5	4317.2
17.5°	6957.6	6853.1	6704.5	6521.1	6330.6	6103.0	5842.9	5561.9	5192.7	4835.1	4424.0
15°	7011.1	6908.9	6774.2	6588.4	6402.6	6177.4	5917.3	5627.0	5283.3	4918.7	4512.3
12.5°	7048.2	6939.1	6813.7	6641.8	6456.0	6233.1	5980.0	5694.3	5359.9	4993.0	4588.9
10°	7057.5	6957.6	6832.2	6679.0	6497.8	6281.9	6033.4	5750.0	5422.6	5051.0	4651.6
7.5°	7062.2	6966.9	6853.1	6706.8	6528.0	6319.0	6072.8	5794.2	5469.0	5099.8	4698.0
5°	7059.8	6969.3	6867.1	6725.4	6546.6	6339.9	6098.4	5824.4	5501.6	5132.3	4732.9
2.5°	7052.9	6971.6	6876.4	6739.3	6567.5	6363.1	6123.9	5859.2	5536.4	5160.2	4760.7
0°	7071.4	7001.8	6881.0	6734.7	6572.1	6363.1	6121.6	5863.8	5541.0	5157.9	4758.4



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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°	58.1	55.7	55.7	53.4	51.1	48.8	44.1	41.8	37.2	30.2	23.2
85°	125.4	118.4	111.5	106.8	102.2	97.5	90.6	83.6	74.3	60.4	46.4
82.5°	220.6	206.7	192.8	176.5	162.6	148.6	137.0	125.4	111.5	90.6	69.7
80°	315.8	294.9	274.0	250.8	229.9	206.7	185.8	167.2	148.6	120.8	92.9
77.5°	411.0	383.2	353.0	325.1	294.9	264.7	234.6	209.0	181.1	148.6	116.1
75°	499.3	466.8	438.9	399.4	362.3	322.8	283.3	248.5	213.7	174.2	139.3
72.5°	587.5	545.7	506.3	469.1	427.3	378.5	334.4	290.3	246.2	199.7	157.9
70°	675.8	624.7	575.9	531.8	485.4	436.6	383.2	332.1	278.7	222.9	174.2
67.5°	766.4	708.3	652.6	596.8	543.4	487.7	432.0	373.9	311.2	246.2	192.8
65°	866.2	794.2	726.9	664.2	601.5	541.1	478.4	415.7	346.0	271.7	209.0
62.5°	966.1	887.1	808.2	729.2	659.5	592.2	524.8	455.2	378.5	299.6	225.3
60°	1072.9	982.3	891.8	803.5	717.6	643.3	569.0	494.7	413.4	325.1	241.5
57.5°	1191.3	1082.2	980.0	880.2	782.6	694.4	613.1	534.1	443.6	350.7	260.1
55°	1326.0	1191.3	1070.6	959.1	852.3	745.5	657.2	575.9	478.4	376.2	281.0
52.5°	1467.7	1312.1	1165.8	1040.4	926.6	805.8	699.0	608.4	513.2	401.8	299.6
50°	1632.6	1435.2	1272.6	1119.4	991.6	866.2	743.1	645.6	548.1	432.0	318.2
47.5°	1802.1	1583.8	1379.5	1212.2	1061.3	924.3	794.2	678.1	580.6	459.8	336.7
45°	1999.5	1725.5	1500.2	1302.8	1128.6	984.7	845.3	712.9	608.4	487.7	355.3
42.5°	2189.9	1892.7	1625.6	1402.7	1205.3	1042.7	891.8	750.1	636.3	515.6	371.6
40°	2415.2	2059.9	1746.4	1497.9	1281.9	1098.5	938.2	789.6	661.9	541.1	387.8
37.5°	2631.2	2229.4	1892.7	1602.4	1356.2	1154.2	984.7	826.7	685.1	566.6	408.7
35°	2844.8	2417.5	2032.0	1699.9	1432.9	1216.9	1031.1	861.6	708.3	587.5	427.3
32.5°	3049.2	2594.0	2173.7	1809.1	1516.5	1274.9	1072.9	894.1	731.5	606.1	445.9
30°	3239.6	2761.2	2313.0	1920.6	1593.1	1328.4	1112.4	926.6	759.4	622.4	464.5
27.5°	3413.8	2923.8	2452.4	2025.1	1665.1	1377.1	1154.2	956.8	782.6	638.6	480.7
25°	3571.7	3070.1	2580.1	2120.3	1730.1	1430.5	1193.7	987.0	803.5	652.6	494.7
22.5°	3720.3	3204.8	2696.2	2215.5	1809.1	1484.0	1230.8	1014.9	824.4	666.5	508.6
20°	3850.4	3327.9	2807.7	2310.7	1878.8	1532.7	1263.3	1040.4	843.0	675.8	522.5
17.5°	3954.9	3437.0	2907.5	2394.3	1939.1	1574.5	1291.2	1063.6	859.3	687.4	531.8
15°	4047.8	3529.9	2991.1	2466.3	1992.5	1609.4	1316.8	1082.2	873.2	694.4	543.4
12.5°	4126.7	3608.9	3063.1	2529.0	2039.0	1639.6	1337.7	1096.1	884.8	701.3	550.4
10°	4191.8	3671.6	3123.5	2577.8	2076.1	1662.8	1353.9	1110.1	894.1	708.3	557.4
7.5°	4240.5	3718.0	3167.6	2619.6	2106.3	1679.0	1367.8	1119.4	903.4	712.9	569.0
5°	4277.7	3757.5	3202.5	2647.4	2129.6	1702.3	1384.1	1131.0	912.7	717.6	569.0
2.5°	4305.6	3790.0	3230.3	2670.7	2148.1	1697.6	1384.1	1128.6	912.7	717.6	566.6
0°	4300.9	3792.3	3228.0	2670.7	2148.1	1693.0	1384.1	1126.3	912.7	717.6	566.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.3	11.6	4.6	0.0
85°	34.8	23.2	11.6	0.0
82.5°	51.1	32.5	16.3	0.0
80°	67.3	44.1	20.9	0.0
77.5°	85.9	55.7	27.9	0.0
75°	102.2	65.0	32.5	0.0
72.5°	118.4	76.6	37.2	0.0
70°	132.4	85.9	41.8	0.0
67.5°	146.3	97.5	48.8	0.0
65°	157.9	106.8	53.4	0.0
62.5°	167.2	118.4	58.1	0.0
60°	178.8	127.7	62.7	0.0
57.5°	188.1	134.7	67.3	0.0
55°	197.4	139.3	72.0	0.0
52.5°	206.7	146.3	76.6	0.0
50°	216.0	153.3	81.3	0.0
47.5°	225.3	157.9	83.6	0.0
45°	239.2	164.9	88.2	0.0
42.5°	250.8	169.5	92.9	0.0
40°	262.4	174.2	95.2	0.0
37.5°	274.0	178.8	99.9	0.0
35°	285.6	183.5	102.2	0.0
32.5°	294.9	188.1	104.5	0.0
30°	304.2	192.8	106.8	0.0
27.5°	313.5	195.1	109.1	0.0
25°	320.5	199.7	111.5	0.0
22.5°	327.4	202.0	113.8	0.0
20°	332.1	204.4	116.1	0.0
17.5°	339.1	206.7	118.4	0.0
15°	341.4	209.0	123.1	0.0
12.5°	346.0	211.3	123.1	0.0
10°	348.3	213.7	123.1	0.0
7.5°	353.0	213.7	123.1	0.0
5°	350.7	213.7	123.1	0.0
2.5°	350.7	213.7	123.1	0.0
0°	348.3	213.7	123.1	0.0

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