

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: P628523

Luminaire Tested: **IFLD-L-SA8A-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628523
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

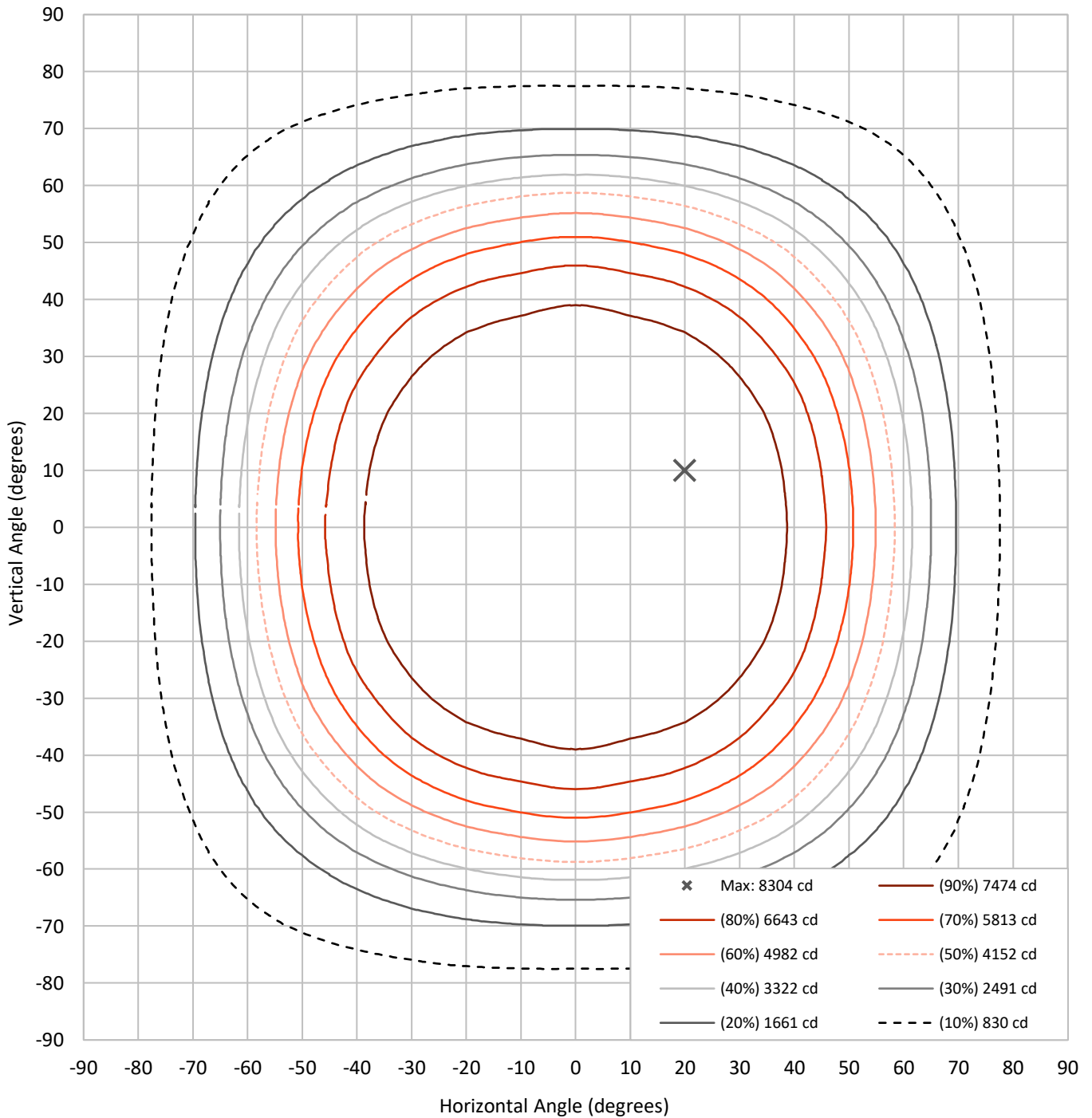
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25475.7 lumens	Max Intensity:	8304 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	102.8 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:	15632.4 lumens	Field Lumens:	18740.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	247.8		
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		



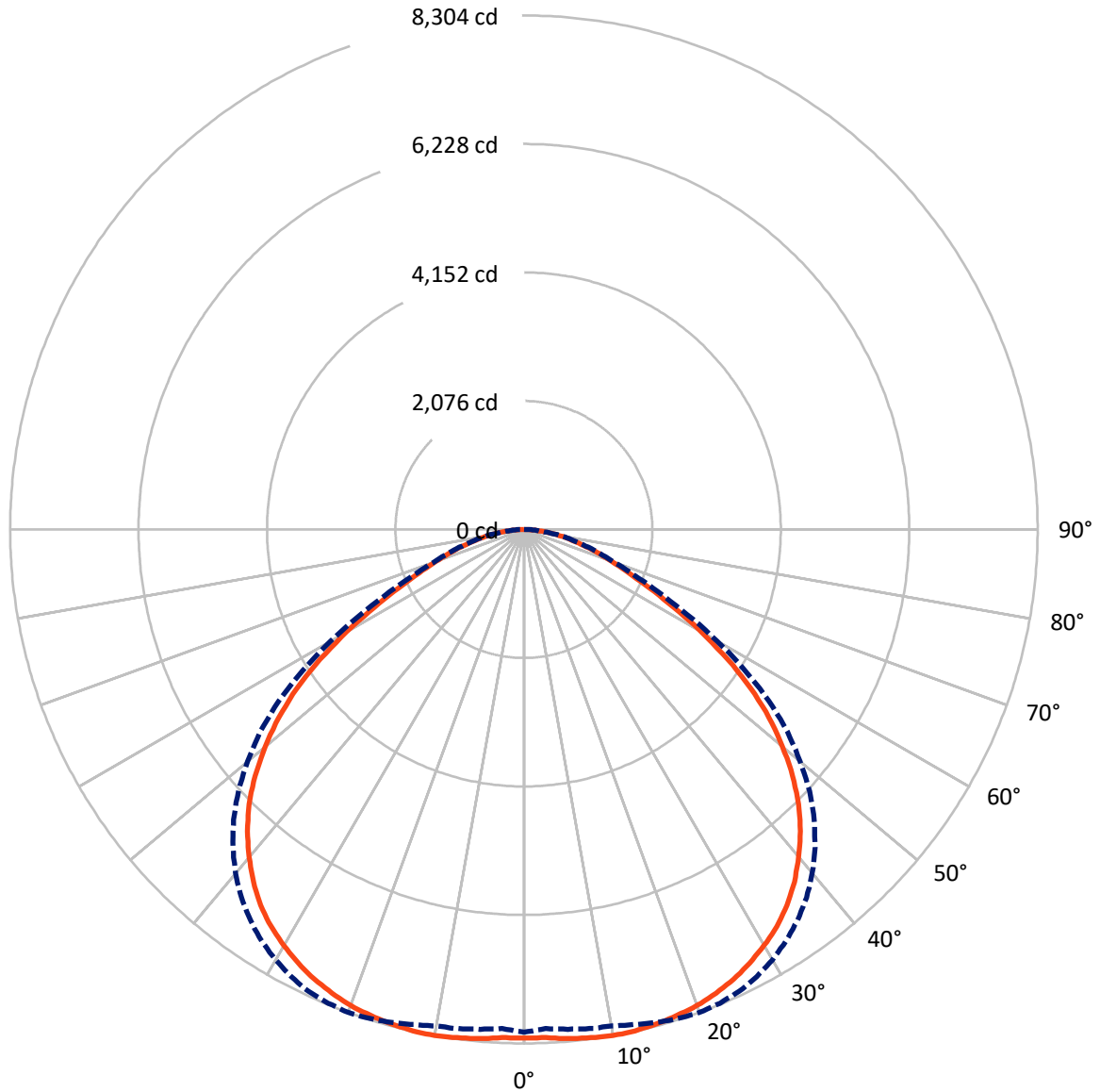
REPORT NUMBER: P628523
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Iso-Candela Plot



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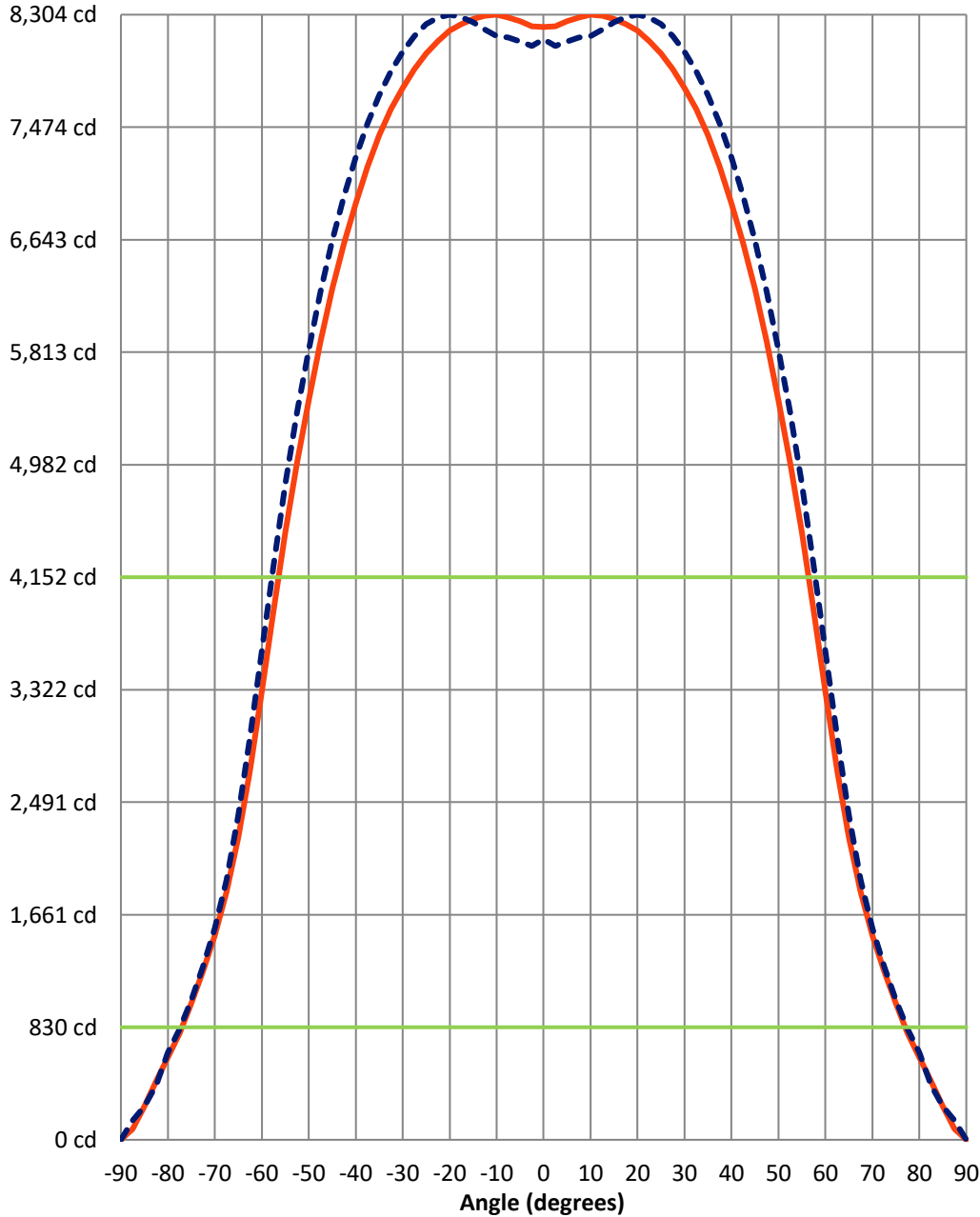
Luminous Intensity Polar Plot



— 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: 15632.4
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 18740.6
Efficiency: 73.6%

Spill:
Lumens: 6735.1
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°	67.0	72.4	75.1	77.7	80.4	83.1	85.8	83.1	80.4	80.4	77.7
85°	179.6	185.0	187.6	206.4	225.2	235.9	249.3	246.6	246.6	243.9	241.2
82.5°	359.2	375.3	388.7	407.4	418.2	434.2	445.0	436.9	431.6	420.8	412.8
80°	637.9	643.3	646.0	648.7	635.3	632.6	627.2	619.2	608.5	595.1	581.7
77.5°	812.2	817.5	822.9	817.5	814.9	812.2	804.1	796.1	785.4	774.7	758.6
75°	1074.9	1074.9	1074.9	1066.8	1061.5	1053.4	1040.0	1026.6	1007.8	986.4	962.3
72.5°	1353.6	1350.9	1348.3	1332.2	1318.8	1302.7	1283.9	1267.9	1246.4	1222.3	1190.1
70°	1645.8	1651.2	1653.8	1632.4	1616.3	1594.9	1570.7	1541.3	1509.1	1474.2	1428.7
67.5°	2047.9	2042.5	2037.1	2007.7	1986.2	1956.7	1921.9	1879.0	1830.7	1777.1	1712.8
65°	2546.4	2554.5	2538.4	2508.9	2468.7	2420.4	2366.8	2305.2	2232.8	2152.4	2061.3
62.5°	3149.5	3162.9	3144.2	3106.6	3055.7	2991.4	2916.3	2827.9	2728.7	2616.1	2503.5
60°	3835.7	3833.0	3798.2	3747.3	3680.3	3599.8	3516.8	3420.3	3307.7	3176.3	3039.6
57.5°	4465.6	4460.3	4417.4	4366.5	4299.4	4213.7	4125.2	4023.4	3905.4	3766.0	3607.9
55°	5031.2	5025.8	4983.0	4929.3	4859.7	4773.9	4693.5	4597.0	4481.7	4334.3	4165.4
52.5°	5532.4	5535.1	5497.6	5438.6	5363.6	5280.5	5202.8	5106.3	4996.4	4848.9	4685.4
50°	5993.5	5990.8	5950.6	5897.0	5827.3	5746.9	5669.2	5572.7	5457.4	5315.3	5157.2
47.5°	6422.4	6417.0	6371.4	6312.5	6240.1	6170.4	6098.0	6012.2	5891.6	5749.6	5591.4
45°	6781.5	6770.8	6725.2	6669.0	6599.3	6537.6	6473.3	6409.0	6280.3	6149.0	5998.8
42.5°	7089.8	7087.1	7041.5	6985.3	6915.6	6862.0	6803.0	6722.6	6615.4	6494.7	6347.3
40°	7384.6	7363.2	7317.6	7264.0	7199.7	7154.1	7095.2	7014.7	6910.2	6792.3	6650.2
37.5°	7604.4	7607.1	7558.9	7499.9	7443.6	7400.7	7347.1	7272.1	7180.9	7065.7	6923.6
35°	7813.5	7800.1	7759.9	7709.0	7658.0	7609.8	7553.5	7489.2	7414.1	7306.9	7172.9
32.5°	7950.2	7969.0	7920.7	7867.1	7837.6	7800.1	7741.1	7674.1	7607.1	7499.9	7379.3
30°	8100.3	8084.2	8046.7	8001.1	7979.7	7955.6	7904.6	7840.3	7762.6	7666.1	7553.5
27.5°	8204.9	8196.8	8151.2	8108.4	8097.6	8076.2	8036.0	7979.7	7902.0	7808.2	7703.6
25°	8250.4	8255.8	8212.9	8188.8	8188.8	8175.4	8143.2	8095.0	8017.2	7931.5	7829.6
22.5°	8271.9	8266.5	8237.0	8231.7	8245.1	8234.3	8220.9	8178.1	8108.4	8038.7	7952.9
20°	8285.3	8247.7	8220.9	8242.4	8258.5	8255.8	8245.1	8218.3	8186.1	8127.1	8052.1
17.5°	8255.8	8231.7	8199.5	8231.7	8266.5	8269.2	8258.5	8242.4	8234.3	8196.8	8129.8
15°	8183.4	8164.7	8170.0	8202.2	8242.4	8255.8	8263.8	8282.6	8271.9	8242.4	8183.4
12.5°	8135.2	8111.0	8135.2	8167.3	8188.8	8196.8	8261.1	8296.0	8296.0	8269.2	8231.7
10°	8121.8	8073.5	8105.7	8135.2	8145.9	8194.1	8247.7	8285.3	8304.0	8282.6	8234.3
7.5°	8095.0	8062.8	8076.2	8089.6	8151.2	8186.1	8215.6	8255.8	8282.6	8279.9	8237.0
5°	8081.6	8041.4	8046.7	8103.0	8145.9	8170.0	8180.7	8215.6	8255.8	8263.8	8231.7
2.5°	8046.7	8027.9	8068.2	8073.5	8105.7	8124.4	8135.2	8167.3	8218.3	8237.0	8223.6
0°	8027.9	8001.1	7974.3	7995.8	8049.4	8089.6	8105.7	8153.9	8212.9	8231.7	8202.2



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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°	75.1	72.4	69.7	67.0	69.7	69.7	69.7	67.0	69.7	67.0	67.0
85°	233.2	222.5	214.4	203.7	193.0	185.0	174.2	163.5	160.8	158.1	152.8
82.5°	402.1	388.7	375.3	359.2	343.1	324.3	305.6	284.1	278.8	273.4	265.4
80°	565.6	546.8	528.0	509.3	493.2	474.4	453.0	428.9	412.8	399.4	383.3
77.5°	737.1	710.3	683.5	651.3	632.6	613.8	592.4	568.3	544.1	522.7	498.6
75°	932.8	903.3	876.5	844.3	809.5	774.7	739.8	707.6	672.8	640.6	608.5
72.5°	1149.9	1107.0	1064.1	1023.9	981.0	938.2	892.6	849.7	806.8	763.9	718.4
70°	1377.8	1324.1	1270.5	1216.9	1160.6	1104.3	1050.7	997.1	943.5	887.2	836.3
67.5°	1645.8	1584.1	1514.5	1439.4	1356.3	1283.9	1214.2	1149.9	1085.6	1021.3	956.9
65°	1980.9	1895.1	1801.3	1699.4	1602.9	1506.4	1404.6	1308.1	1233.0	1158.0	1085.6
62.5°	2393.6	2273.0	2141.7	2010.3	1892.4	1766.4	1648.5	1522.5	1404.6	1297.3	1208.9
60°	2886.8	2723.3	2562.5	2393.6	2230.1	2058.6	1908.5	1753.0	1605.6	1474.2	1345.6
57.5°	3431.0	3240.7	3047.7	2841.3	2618.8	2417.8	2214.1	2010.3	1836.1	1661.9	1517.1
55°	3983.1	3782.1	3565.0	3331.8	3087.9	2830.6	2554.5	2326.6	2088.1	1884.4	1696.7
52.5°	4508.5	4299.4	4074.3	3859.8	3567.7	3272.8	2969.9	2669.7	2391.0	2131.0	1903.1
50°	4977.6	4773.9	4556.8	4307.5	4036.8	3723.1	3385.4	3047.7	2718.0	2412.4	2128.3
47.5°	5406.5	5208.1	4991.0	4741.7	4495.1	4146.7	3806.2	3433.7	3066.4	2715.3	2382.9
45°	5808.5	5607.5	5382.3	5143.8	4859.7	4548.7	4197.6	3822.3	3428.3	3034.3	2651.0
42.5°	6173.1	5972.0	5744.2	5497.6	5216.2	4907.9	4567.5	4189.5	3792.8	3364.0	2943.1
40°	6492.1	6296.4	6076.6	5819.3	5556.6	5232.2	4897.2	4538.0	4127.9	3696.3	3232.6
37.5°	6770.8	6588.5	6371.4	6116.8	5838.0	5548.5	5202.8	4843.6	4473.7	4004.6	3530.2
35°	7017.4	6848.5	6626.1	6384.8	6111.4	5805.9	5481.5	5130.4	4731.0	4291.4	3830.4
32.5°	7231.9	7060.3	6856.6	6615.4	6350.0	6063.2	5730.8	5377.0	4999.0	4551.4	4050.2
30°	7414.1	7247.9	7054.9	6827.1	6572.5	6288.3	5964.0	5607.5	5221.5	4776.6	4280.7
27.5°	7572.3	7414.1	7226.5	7014.7	6770.8	6497.4	6170.4	5811.2	5417.2	4988.3	4492.4
25°	7709.0	7556.2	7382.0	7180.9	6939.7	6671.6	6363.4	5988.1	5594.1	5162.5	4672.0
22.5°	7832.3	7684.9	7510.6	7314.9	7095.2	6827.1	6516.2	6143.6	5744.2	5318.0	4835.5
20°	7942.2	7805.5	7633.9	7432.9	7213.1	6942.4	6634.1	6280.3	5878.2	5460.1	4983.0
17.5°	8030.6	7910.0	7738.5	7526.7	7306.9	7044.2	6744.0	6419.7	5993.5	5580.7	5106.3
15°	8092.3	7974.3	7818.9	7604.4	7390.0	7130.0	6829.8	6494.7	6098.0	5677.2	5208.1
12.5°	8135.2	8009.2	7864.4	7666.1	7451.7	7194.3	6902.2	6572.5	6186.5	5763.0	5296.6
10°	8145.9	8030.6	7885.9	7709.0	7499.9	7250.6	6963.8	6636.8	6258.9	5830.0	5368.9
7.5°	8151.2	8041.4	7910.0	7741.1	7534.7	7293.5	7009.4	6687.7	6312.5	5886.3	5422.6
5°	8148.6	8044.0	7926.1	7762.6	7556.2	7317.6	7038.9	6722.6	6350.0	5923.8	5462.8
2.5°	8140.5	8046.7	7936.8	7778.7	7580.3	7344.4	7068.3	6762.8	6390.2	5956.0	5494.9
0°	8162.0	8081.6	7942.2	7773.3	7585.7	7344.4	7065.7	6768.1	6395.6	5953.3	5492.2



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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°	67.0	64.3	64.3	61.7	59.0	56.3	50.9	48.2	42.9	34.8	26.8
85°	144.7	136.7	128.7	123.3	117.9	112.6	104.5	96.5	85.8	69.7	53.6
82.5°	254.6	238.6	222.5	203.7	187.6	171.5	158.1	144.7	128.7	104.5	80.4
80°	364.5	340.4	316.3	289.5	265.4	238.6	214.4	193.0	171.5	139.4	107.2
77.5°	474.4	442.3	407.4	375.3	340.4	305.6	270.7	241.2	209.1	171.5	134.0
75°	576.3	538.8	506.6	461.0	418.2	372.6	327.0	286.8	246.6	201.0	160.8
72.5°	678.2	629.9	584.3	541.5	493.2	436.9	386.0	335.1	284.1	230.5	182.3
70°	780.0	721.0	664.8	613.8	560.2	503.9	442.3	383.3	321.7	257.3	201.0
67.5°	884.5	817.5	753.2	688.9	627.2	562.9	498.6	431.6	359.2	284.1	222.5
65°	999.8	916.7	839.0	766.6	694.2	624.5	552.2	479.8	399.4	313.6	241.2
62.5°	1115.1	1023.9	932.8	841.7	761.2	683.5	605.8	525.4	436.9	345.8	260.0
60°	1238.4	1133.8	1029.3	927.4	828.3	742.5	656.7	570.9	477.1	375.3	278.8
57.5°	1375.1	1249.1	1131.1	1015.9	903.3	801.5	707.6	616.5	512.0	404.7	300.2
55°	1530.5	1375.1	1235.7	1107.0	983.7	860.4	758.6	664.8	552.2	434.2	324.3
52.5°	1694.0	1514.5	1345.6	1200.8	1069.5	930.1	806.8	702.3	592.4	463.7	345.8
50°	1884.4	1656.5	1468.9	1292.0	1144.6	999.8	857.7	745.2	632.6	498.6	367.2
47.5°	2080.0	1828.1	1592.2	1399.2	1225.0	1066.8	916.7	782.7	670.1	530.7	388.7
45°	2307.9	1991.6	1731.6	1503.7	1302.7	1136.5	975.7	822.9	702.3	562.9	410.1
42.5°	2527.7	2184.6	1876.3	1619.0	1391.2	1203.5	1029.3	865.8	734.4	595.1	428.9
40°	2787.7	2377.6	2015.7	1728.9	1479.6	1267.9	1082.9	911.4	763.9	624.5	447.6
37.5°	3036.9	2573.2	2184.6	1849.5	1565.4	1332.2	1136.5	954.2	790.7	654.0	471.8
35°	3283.6	2790.3	2345.4	1962.1	1653.8	1404.6	1190.1	994.4	817.5	678.2	493.2
32.5°	3519.4	2994.1	2508.9	2088.1	1750.3	1471.6	1238.4	1032.0	844.3	699.6	514.6
30°	3739.2	3187.1	2669.7	2216.7	1838.8	1533.2	1283.9	1069.5	876.5	718.4	536.1
27.5°	3940.3	3374.7	2830.6	2337.4	1921.9	1589.5	1332.2	1104.3	903.3	737.1	554.9
25°	4122.5	3543.6	2978.0	2447.3	1996.9	1651.2	1377.8	1139.2	927.4	753.2	570.9
22.5°	4294.1	3699.0	3112.0	2557.1	2088.1	1712.8	1420.6	1171.4	951.6	769.3	587.0
20°	4444.2	3841.1	3240.7	2667.0	2168.5	1769.1	1458.2	1200.8	973.0	780.0	603.1
17.5°	4564.8	3967.1	3355.9	2763.5	2238.2	1817.3	1490.3	1227.6	991.8	793.4	613.8
15°	4672.0	4074.3	3452.4	2846.6	2299.8	1857.6	1519.8	1249.1	1007.8	801.5	627.2
12.5°	4763.2	4165.4	3535.5	2919.0	2353.4	1892.4	1543.9	1265.2	1021.3	809.5	635.3
10°	4838.2	4237.8	3605.2	2975.3	2396.3	1919.2	1562.7	1281.3	1032.0	817.5	643.3
7.5°	4894.5	4291.4	3656.1	3023.5	2431.2	1938.0	1578.8	1292.0	1042.7	822.9	656.7
5°	4937.4	4337.0	3696.3	3055.7	2458.0	1964.8	1597.5	1305.4	1053.4	828.3	656.7
2.5°	4969.6	4374.5	3728.5	3082.5	2479.4	1959.4	1597.5	1302.7	1053.4	828.3	654.0
0°	4964.2	4377.2	3725.8	3082.5	2479.4	1954.0	1597.5	1300.0	1053.4	828.3	654.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.8	13.4	5.4	0.0
85°	40.2	26.8	13.4	0.0
82.5°	59.0	37.5	18.8	0.0
80°	77.7	50.9	24.1	0.0
77.5°	99.2	64.3	32.2	0.0
75°	117.9	75.1	37.5	0.0
72.5°	136.7	88.5	42.9	0.0
70°	152.8	99.2	48.2	0.0
67.5°	168.9	112.6	56.3	0.0
65°	182.3	123.3	61.7	0.0
62.5°	193.0	136.7	67.0	0.0
60°	206.4	147.4	72.4	0.0
57.5°	217.1	155.5	77.7	0.0
55°	227.8	160.8	83.1	0.0
52.5°	238.6	168.9	88.5	0.0
50°	249.3	176.9	93.8	0.0
47.5°	260.0	182.3	96.5	0.0
45°	276.1	190.3	101.9	0.0
42.5°	289.5	195.7	107.2	0.0
40°	302.9	201.0	109.9	0.0
37.5°	316.3	206.4	115.3	0.0
35°	329.7	211.8	117.9	0.0
32.5°	340.4	217.1	120.6	0.0
30°	351.1	222.5	123.3	0.0
27.5°	361.9	225.2	126.0	0.0
25°	369.9	230.5	128.7	0.0
22.5°	377.9	233.2	131.3	0.0
20°	383.3	235.9	134.0	0.0
17.5°	391.3	238.6	136.7	0.0
15°	394.0	241.2	142.1	0.0
12.5°	399.4	243.9	142.1	0.0
10°	402.1	246.6	142.1	0.0
7.5°	407.4	246.6	142.1	0.0
5°	404.7	246.6	142.1	0.0
2.5°	404.7	246.6	142.1	0.0
0°	402.1	246.6	142.1	0.0

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