

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P950322

Luminaire Tested: **GALN-SB4D-760-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32930 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

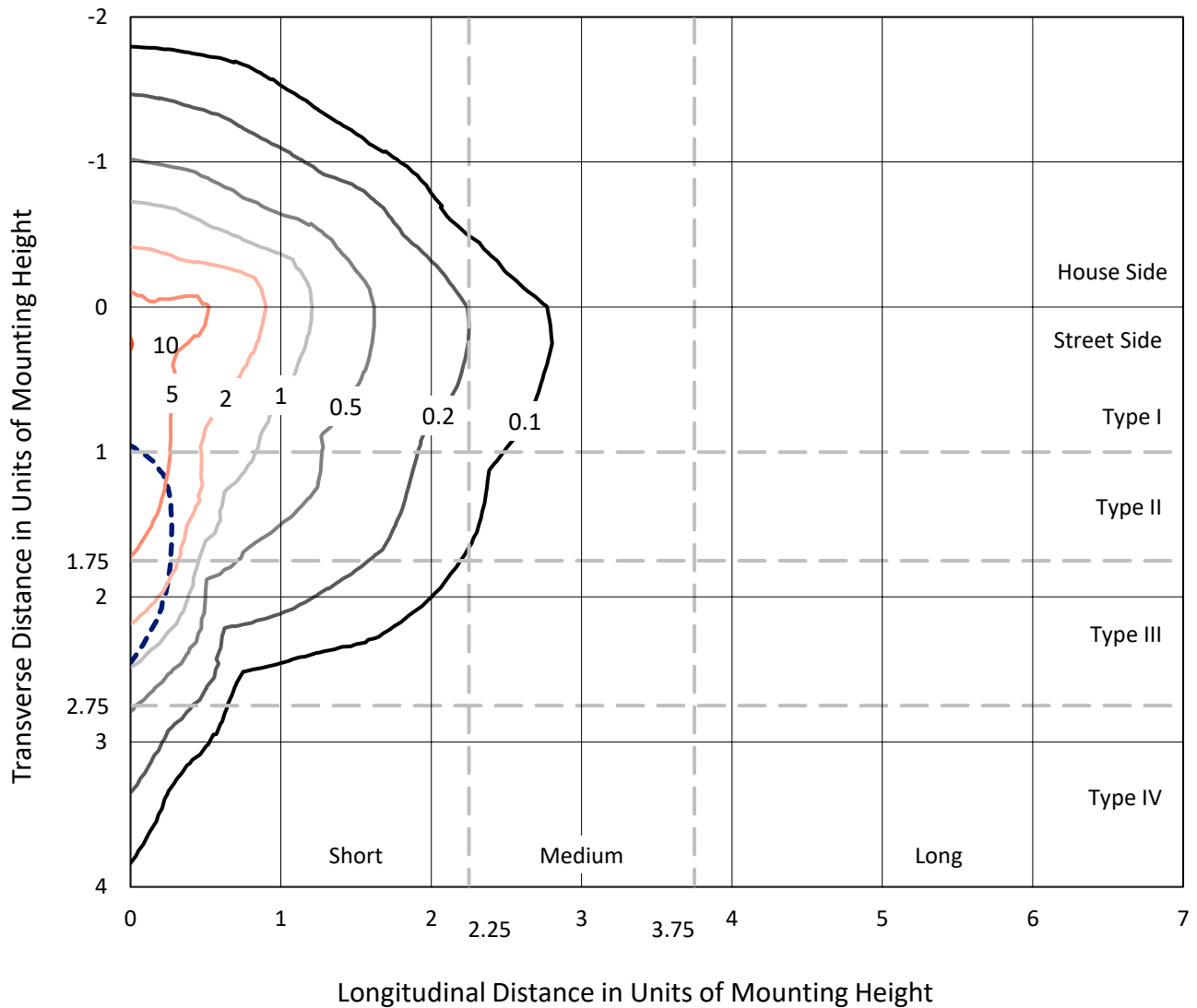
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

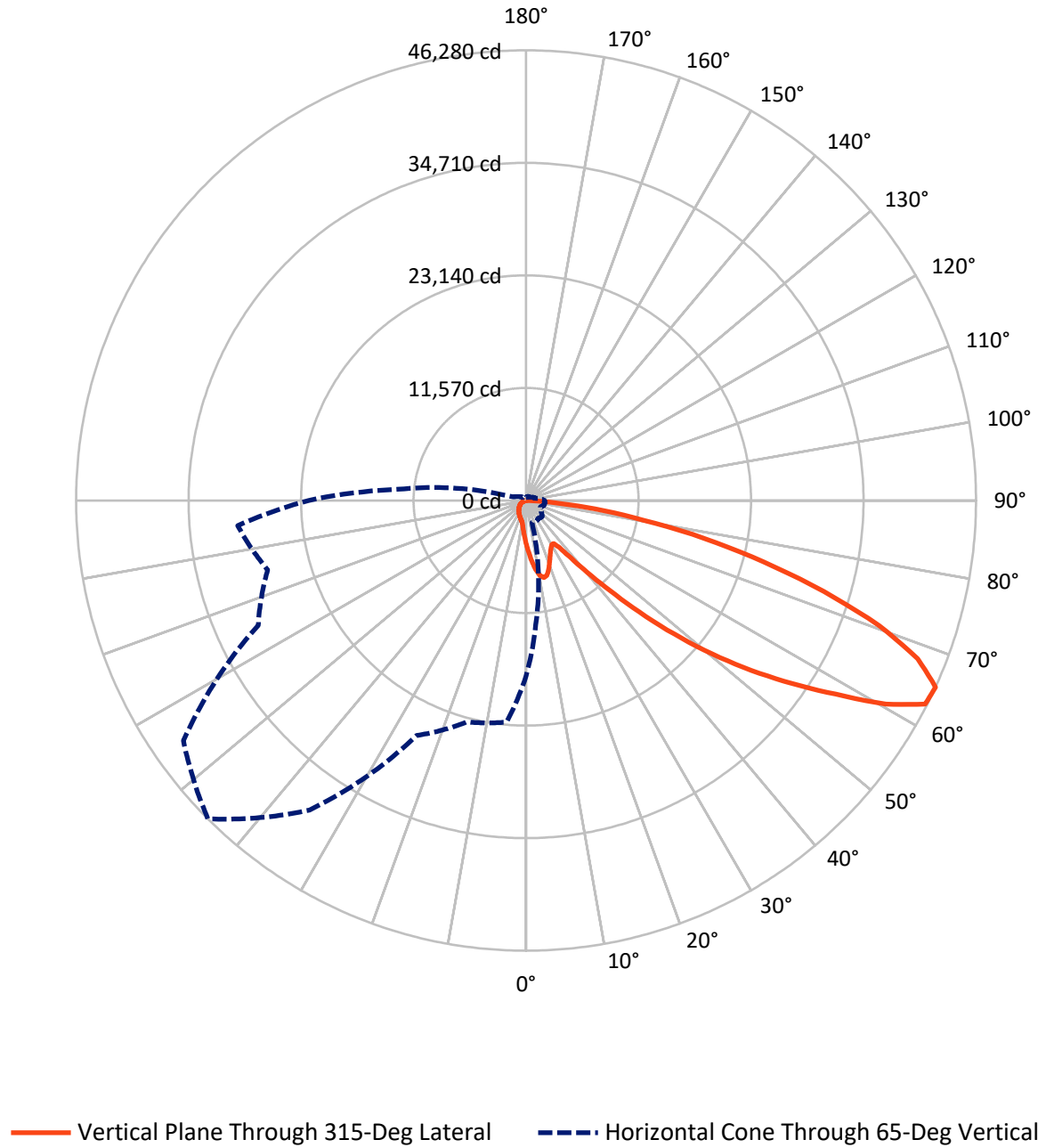
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4611.6	0.0	4611.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	28318.4	0.0	28318.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	32930.0	0.0	32930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.9	1.4
10°-20°	1345.7	4.1
20°-30°	1982.5	6.0
30°-40°	2547.0	7.7
40°-50°	4119.3	12.5
50°-60°	7223.6	21.9
60°-70°	9038.7	27.4
70°-80°	5281.8	16.0
80°-90°	942.4	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32930.0	100.0
0°-180°	32930.0	100.0

Coefficient of Utilization



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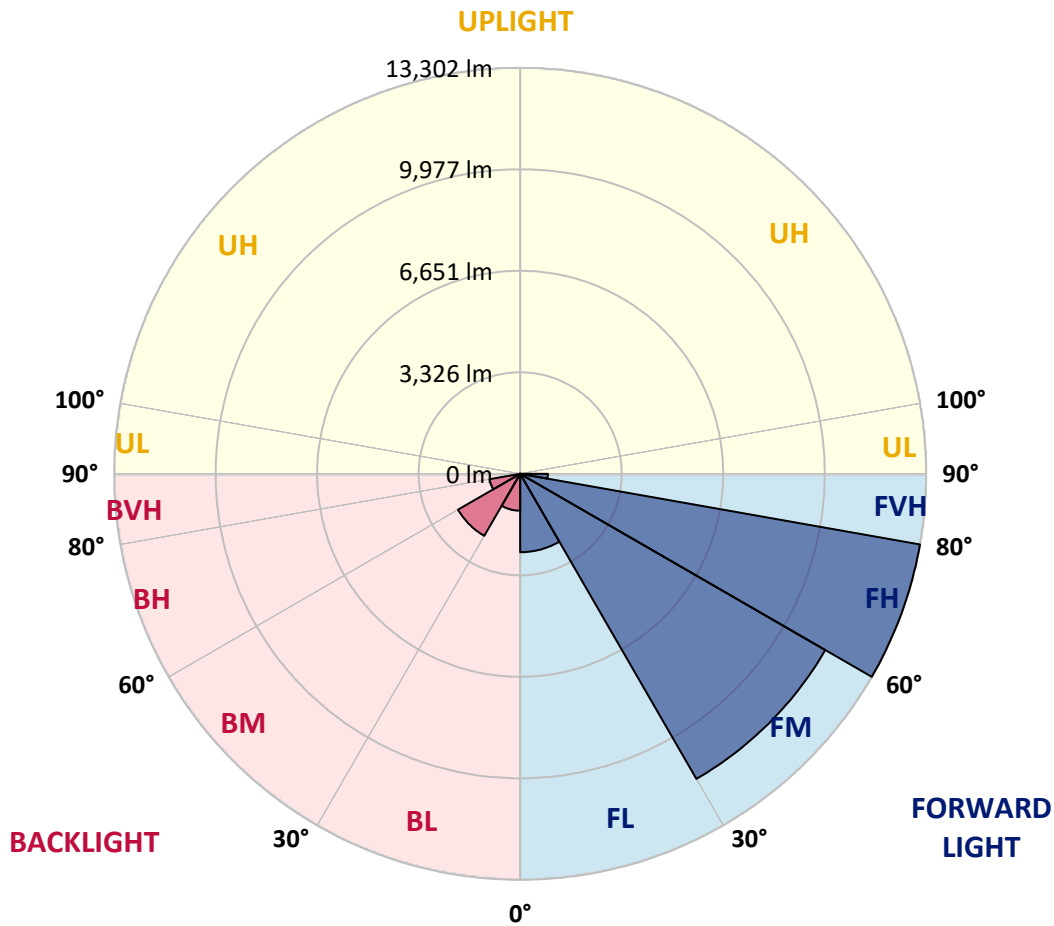
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2568.4	7.8			
FM (30°-60°)	11541.6	35.0			
FH (60°-80°)	13302.2	40.4			G5
FVH (80°-90°)	906.2	2.8			G5
BL (0°-30°)	1208.8	3.7	B3/2500		
BM (30°-60°)	2348.3	7.1	B2/2500		
BH (60°-80°)	1018.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	36.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8
2.5°	5151.8	5063.4	5011.2	4881.9	4752.6	4648.2	4507.6	4414.6	4303.4	4196.8
5°	5741.7	5598.7	5426.3	5190.4	4974.9	4754.8	4541.6	4330.6	4108.3	3904.1
7.5°	6240.7	6034.3	5730.3	5417.3	5142.8	4877.3	4627.8	4348.8	4078.8	3759.0
10°	6621.8	6358.7	5959.4	5548.8	5233.5	4965.8	4723.1	4487.2	4214.9	3829.3
12.5°	6853.2	6571.9	6097.8	5616.9	5256.2	4956.7	4768.5	4664.1	4557.5	4174.1
15°	7023.4	6719.4	6195.4	5664.5	5204.0	4836.5	4698.1	4802.5	4925.0	4680.0
17.5°	7200.3	6880.5	6322.4	5684.9	5063.4	4602.9	4543.9	4813.8	5097.4	5086.1
20°	7368.2	7050.6	6433.6	5671.3	4836.5	4319.3	4371.5	4716.3	5045.2	5183.6
22.5°	7561.0	7225.3	6540.2	5619.2	4541.6	4053.9	4217.2	4562.0	4850.1	5013.5
25°	7796.9	7445.3	6689.9	5542.0	4224.0	3833.8	4060.7	4382.8	4616.5	4729.9
27.5°	8051.0	7708.5	6889.5	5501.2	3967.7	3677.3	3883.7	4169.6	4378.3	4457.7
30°	8366.3	8014.7	7125.5	5455.8	3799.8	3586.6	3700.0	3922.3	4126.5	4205.9
32.5°	8711.2	8355.0	7352.3	5346.9	3697.7	3518.5	3520.8	3661.4	3847.4	3942.7
35°	9142.2	8763.3	7595.0	5108.7	3616.0	3439.1	3346.1	3414.1	3568.4	3681.8
37.5°	9757.0	9298.7	7892.2	4768.5	3495.8	3316.6	3162.3	3178.2	3296.2	3420.9
40°	10605.4	10017.8	8241.6	4414.6	3323.4	3144.2	2960.4	2953.6	3039.8	3162.3
42.5°	11753.3	10968.4	8661.3	4076.6	3157.8	2935.5	2747.2	2735.9	2803.9	2910.5
45°	13268.6	12184.3	9176.2	3786.2	3028.5	2731.3	2545.3	2540.8	2597.5	2690.5
47.5°	15208.2	13874.3	9691.2	3588.8	2960.4	2570.2	2379.7	2388.8	2438.7	2522.6
50°	17719.5	16077.1	9847.7	3489.0	2960.4	2484.0	2232.2	2277.6	2318.4	2382.0
52.5°	20729.9	18191.4	9330.5	3398.3	2978.6	2495.4	2107.5	2205.0	2234.5	2288.9
55°	23520.2	19228.1	8021.5	3273.5	2983.1	2565.7	2000.8	2146.0	2200.5	2220.9
57.5°	25139.9	18871.9	6485.7	3062.5	2965.0	2613.4	1932.8	2073.4	2177.8	2191.4
60°	24831.4	17622.0	4775.3	2901.5	2831.1	2595.2	1912.4	1962.3	2127.9	2148.3
62.5°	22453.9	15525.8	3314.3	2776.7	2536.2	2515.8	1905.6	1787.6	2019.0	2068.9
65°	18048.4	12222.9	2341.1	2391.0	2223.2	2343.4	1869.3	1606.1	1887.4	1955.5
67.5°	13094.0	8271.1	1690.1	1937.3	2014.5	2064.4	1787.6	1474.5	1737.7	1828.4
70°	8402.6	4466.7	1186.4	1279.5	1696.9	1753.6	1647.0	1356.6	1585.7	1690.1
72.5°	5973.0	2638.3	853.0	896.1	1363.4	1460.9	1449.6	1225.0	1408.8	1535.8
75°	4121.9	1454.1	576.2	639.7	989.1	1186.4	1118.4	1052.6	1193.2	1322.6
77.5°	2583.9	651.1	344.8	444.6	648.8	932.4	766.8	814.4	930.1	1050.3
80°	1438.2	251.8	192.8	294.9	353.9	678.3	424.2	524.0	685.1	771.3
82.5°	313.1	31.8	86.2	127.0	138.4	394.7	224.6	304.0	431.0	424.2
85°	0.0	0.0	15.9	18.1	9.1	170.1	81.7	99.8	140.6	131.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4559.8	0°	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8
4101.5	2.5°	4083.4	3972.2	3890.5	3849.7	3815.7	3847.4	3865.6	3865.6	3942.7	3988.1
3779.4	5°	3700.0	3500.3	3348.4	3246.3	3185.0	3205.4	3228.1	3253.1	3350.6	3416.4
3588.8	7.5°	3434.6	3128.3	2896.9	2754.0	2679.1	2690.5	2706.4	2726.8	2822.1	2887.8
3616.0	10°	3384.7	2944.6	2617.9	2429.6	2338.9	2323.0	2313.9	2307.1	2363.8	2413.7
3924.6	12.5°	3588.8	2953.6	2497.7	2268.5	2157.4	2109.7	2055.3	2012.2	2021.3	2053.0
4391.9	15°	3954.1	3069.3	2459.1	2184.6	2046.2	1966.8	1903.3	1851.1	1839.8	1851.1
4800.2	17.5°	4371.5	3225.9	2454.6	2112.0	1939.6	1857.9	1805.8	1758.1	1742.2	1744.5
5029.3	20°	4648.2	3350.6	2440.9	2030.3	1837.5	1764.9	1719.5	1671.9	1656.0	1660.6
4965.8	22.5°	4675.4	3416.4	2420.5	1939.6	1735.4	1674.2	1628.8	1585.7	1583.4	1583.4
4727.6	25°	4528.0	3416.4	2377.4	1857.9	1637.9	1583.4	1542.6	1490.4	1499.5	1504.0
4457.7	27.5°	4298.9	3334.7	2295.8	1792.1	1553.9	1497.2	1456.4	1408.8	1420.1	1426.9
4205.9	30°	4072.0	3230.4	2198.2	1717.3	1474.5	1408.8	1379.3	1338.4	1343.0	1352.0
3956.3	32.5°	3861.0	3119.2	2082.5	1656.0	1395.1	1329.4	1306.7	1261.3	1268.1	1277.2
3711.3	35°	3652.3	2996.7	1946.4	1583.4	1322.6	1256.8	1238.6	1186.4	1191.0	1204.6
3466.3	37.5°	3427.8	2867.4	1835.2	1510.8	1252.2	1184.2	1166.0	1111.6	1116.1	1132.0
3212.2	40°	3191.8	2740.4	1726.4	1433.7	1177.4	1109.3	1093.4	1034.5	1039.0	1057.1
2962.7	42.5°	2953.6	2602.0	1642.4	1333.9	1100.2	1027.6	1011.8	957.3	964.1	984.5
2744.9	45°	2733.6	2436.4	1588.0	1222.7	1027.6	946.0	930.1	880.2	893.8	916.5
2561.2	47.5°	2545.3	2266.3	1565.3	1129.7	950.5	862.0	848.4	807.6	830.3	855.2
2404.6	50°	2384.2	2102.9	1535.8	1034.5	877.9	789.4	775.8	748.6	778.1	803.1
2298.0	52.5°	2268.5	1916.9	1472.3	948.2	814.4	728.2	723.7	710.1	737.3	760.0
2218.6	55°	2168.7	1724.1	1370.2	873.4	757.7	676.0	680.6	673.8	696.4	714.6
2171.0	57.5°	2078.0	1556.2	1240.9	814.4	696.4	630.7	644.3	635.2	646.5	657.9
2121.1	60°	1969.1	1386.1	1086.6	748.6	623.8	585.3	601.2	576.2	573.9	578.5
2030.3	62.5°	1808.0	1157.0	925.6	666.9	560.3	535.4	542.2	494.5	458.2	458.2
1896.5	65°	1583.4	930.1	775.8	576.2	487.7	467.3	462.8	394.7	344.8	340.3
1751.3	67.5°	1322.6	764.5	644.3	485.5	406.1	392.5	397.0	347.1	297.2	292.6
1606.1	70°	1077.6	632.9	519.5	387.9	313.1	326.7	347.1	297.2	249.5	242.7
1436.0	72.5°	875.7	503.6	406.1	297.2	231.4	270.0	294.9	242.7	197.4	192.8
1225.0	75°	676.0	369.8	290.4	201.9	167.9	208.7	231.4	176.9	140.6	133.8
948.2	77.5°	451.4	229.1	163.3	127.0	99.8	142.9	154.3	93.0	81.7	79.4
689.6	80°	274.5	106.6	70.3	61.3	34.0	52.2	61.3	38.6	43.1	45.4
367.5	82.5°	138.4	29.5	11.3	2.3	0.0	0.0	18.1	9.1	18.1	22.7
99.8	85°	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	11.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4559.8	0°	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8
4006.2	2.5°	4133.3	4228.5	4319.3	4464.5	4614.2	4761.7	4911.4	5056.6	5108.7	5147.3
3459.5	5°	3656.9	3836.1	4044.8	4332.9	4641.4	4959.0	5281.1	5576.1	5709.9	5800.6
2944.6	7.5°	3164.6	3398.3	3697.7	4131.0	4614.2	5120.1	5626.0	6091.0	6306.5	6481.2
2459.1	10°	2676.9	2930.9	3309.8	3804.3	4457.7	5183.6	5882.3	6522.0	6801.1	7021.1
2109.7	12.5°	2248.1	2486.3	2883.3	3430.0	4212.7	5133.7	6029.8	6798.8	7127.7	7375.0
1860.2	15°	1946.4	2114.3	2465.9	3055.7	3922.3	4972.6	6038.8	6930.4	7291.1	7549.7
1755.8	17.5°	1778.5	1835.2	2064.4	2674.6	3600.2	4761.7	5954.9	6975.7	7361.4	7601.9
1662.8	20°	1687.8	1696.9	1760.4	2180.1	3187.3	4564.3	5875.5	7021.1	7427.2	7629.1
1597.0	22.5°	1615.2	1615.2	1631.1	1783.1	2654.2	4328.4	5850.5	7100.5	7517.9	7642.7
1522.2	25°	1549.4	1549.4	1553.9	1594.8	2102.9	3967.7	5834.7	7223.0	7642.7	7676.7
1447.3	27.5°	1481.4	1483.6	1483.6	1506.3	1694.6	3477.7	5766.6	7381.8	7792.4	7722.1
1374.7	30°	1413.3	1417.8	1417.8	1433.7	1499.5	2903.7	5632.8	7572.4	7987.5	7781.1
1302.1	32.5°	1345.2	1349.8	1349.8	1363.4	1411.0	2318.4	5464.9	7747.0	8184.9	7806.0
1231.8	35°	1274.9	1281.7	1277.2	1295.3	1345.2	1844.3	5251.7	7921.7	8398.1	7885.4
1163.8	37.5°	1204.6	1209.1	1206.9	1225.0	1281.7	1592.5	5004.4	8053.3	8688.5	8062.4
1091.2	40°	1134.3	1132.0	1132.0	1152.4	1213.7	1519.9	4693.6	8262.0	9105.9	8373.2
1018.6	42.5°	1061.7	1061.7	1057.1	1079.8	1154.7	1465.5	4396.4	8636.3	9713.9	8867.7
950.5	45°	995.9	993.6	984.5	1005.0	1098.0	1370.2	4292.1	9335.0	10612.2	9668.5
882.5	47.5°	932.4	930.1	907.4	925.6	1029.9	1284.0	4682.3	10478.4	11857.6	10845.9
828.0	50°	875.7	877.9	834.8	850.7	961.9	1218.2	5528.4	11962.0	13511.4	12431.6
782.6	52.5°	823.5	823.5	766.8	775.8	877.9	1159.2	6333.7	13570.4	15693.7	14643.4
735.0	55°	771.3	766.8	703.2	707.8	794.0	1075.3	6454.0	15140.2	18670.0	17971.3
682.8	57.5°	712.3	703.2	644.3	644.3	716.9	1014.0	5594.2	16347.0	22363.2	22862.3
585.3	60°	639.7	632.9	594.4	583.0	655.6	1068.5	3947.2	16487.7	24745.2	29366.2
465.0	62.5°	546.7	555.8	535.4	519.5	596.6	1109.3	2338.9	15355.7	24169.0	31435.1
360.7	65°	431.0	467.3	462.8	451.4	655.6	934.6	1381.5	13182.4	22401.8	29765.4
315.3	67.5°	367.5	392.5	385.7	385.7	687.4	710.1	868.8	10299.1	19969.9	27785.0
263.1	70°	313.1	338.0	313.1	313.1	519.5	431.0	601.2	7191.2	17345.2	25593.6
211.0	72.5°	258.6	283.6	256.3	238.2	415.1	322.1	440.1	4494.0	14854.4	23311.4
149.7	75°	197.4	226.9	206.4	183.8	274.5	240.5	333.5	2611.1	12306.8	19944.9
90.7	77.5°	124.8	163.3	154.3	129.3	201.9	174.7	240.5	1553.9	9496.1	15584.8
54.4	80°	77.1	83.9	86.2	81.7	115.7	118.0	163.3	884.7	6499.3	10861.7
34.0	82.5°	49.9	49.9	38.6	43.1	56.7	68.1	93.0	333.5	3820.2	6612.8
20.4	85°	36.3	31.8	20.4	20.4	27.2	34.0	36.3	102.1	1549.4	2611.1
9.1	87.5°	18.1	15.9	6.8	9.1	13.6	11.3	9.1	4.5	390.2	834.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4559.8	0°	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8	4559.8
5233.5	2.5°	5278.9	5349.2	5353.7	5353.7	5292.5	5290.2	5165.4	5151.8
6004.8	5°	6215.8	6261.2	6272.5	6249.8	6127.3	6036.6	5793.8	5741.7
6792.0	7.5°	7073.3	7164.0	7164.0	7109.6	6910.0	6723.9	6372.3	6240.7
7443.1	10°	7758.4	7862.7	7840.1	7728.9	7477.1	7220.7	6794.3	6621.8
7837.8	12.5°	8091.9	8198.5	8139.5	8012.5	7767.5	7497.5	7048.3	6853.2
7951.2	15°	8085.1	8055.6	7994.3	7978.4	7860.5	7656.3	7236.6	7023.4
7880.9	17.5°	7796.9	7547.4	7499.8	7658.6	7808.3	7758.4	7400.0	7200.3
7713.0	20°	7341.0	6905.4	6862.3	7166.3	7592.8	7810.6	7551.9	7368.2
7470.3	22.5°	6860.0	6390.5	6290.6	6626.4	7268.4	7826.4	7744.8	7561.0
7202.6	25°	6404.1	5932.2	5832.4	6145.5	6907.7	7799.2	7953.5	7796.9
6946.2	27.5°	6023.0	5567.0	5474.0	5787.0	6560.6	7722.1	8162.2	8051.0
6692.2	30°	5728.0	5306.1	5238.0	5539.8	6261.2	7626.8	8427.6	8366.3
6456.2	32.5°	5555.6	5247.1	5272.1	5519.3	6100.1	7522.5	8681.7	8711.2
6340.5	35°	5725.8	5739.4	5957.2	6059.3	6249.8	7506.6	9026.5	9142.2
6478.9	37.5°	6571.9	7043.8	7495.2	7411.3	6982.5	7690.3	9541.4	9757.0
7082.4	40°	8012.5	8981.1	9713.9	9394.0	8314.2	8252.9	10283.3	10605.4
8153.1	42.5°	9772.8	11415.3	12622.1	11764.6	10031.5	9237.5	11342.7	11753.3
9448.4	45°	11630.8	14416.5	16317.6	14534.5	11862.2	10616.7	12946.5	13268.6
10662.1	47.5°	13588.5	18064.3	20523.4	17606.1	13559.0	12186.6	15133.4	15208.2
11812.3	50°	15730.0	22063.8	24810.9	20675.4	15196.9	13985.5	17805.7	17719.5
13153.0	52.5°	17769.4	26176.6	29007.7	23758.3	16635.2	16217.7	20906.8	20729.9
14985.9	55°	19715.8	30287.2	33229.5	26721.1	17991.7	19166.8	24590.9	23520.2
17628.8	57.5°	21973.0	33982.6	37580.5	29697.4	19888.2	22996.1	28710.6	25139.9
22689.9	60°	25310.0	38181.7	42501.0	33776.2	23495.2	27020.5	30187.4	24831.4
28751.4	62.5°	29570.3	42042.7	46078.4	37773.3	27118.0	27778.2	28011.8	22453.9
27515.0	65°	30398.3	43020.5	46280.3	38841.8	26650.7	23563.3	22869.1	18048.4
24577.3	67.5°	28202.4	41253.3	43458.3	36852.3	23574.6	18209.5	17161.5	13094.0
22649.0	70°	25738.8	37884.5	38540.1	33469.9	20734.4	13393.4	11589.9	8402.6
21328.7	72.5°	23213.9	33390.5	32034.0	29066.7	18223.1	9752.4	8359.5	5973.0
19448.1	75°	20214.9	27481.0	25232.9	24150.8	15088.0	7654.0	6047.9	4121.9
16728.2	77.5°	16188.3	19343.8	18742.6	18719.9	11338.1	5591.9	4035.7	2583.9
13069.0	80°	11419.8	12554.1	12247.8	14098.9	7606.4	4056.1	2429.6	1438.2
9096.8	82.5°	5528.4	6941.7	7125.5	8395.8	3700.0	2386.5	560.3	313.1
3557.1	85°	2164.2	3348.4	2824.3	3187.3	1039.0	664.7	13.6	0.0
585.3	87.5°	242.7	387.9	356.2	281.3	127.0	27.2	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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