

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: P949354

Luminaire Tested: **GALN-SB4A-850-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949354
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-SB4A-850-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13124 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

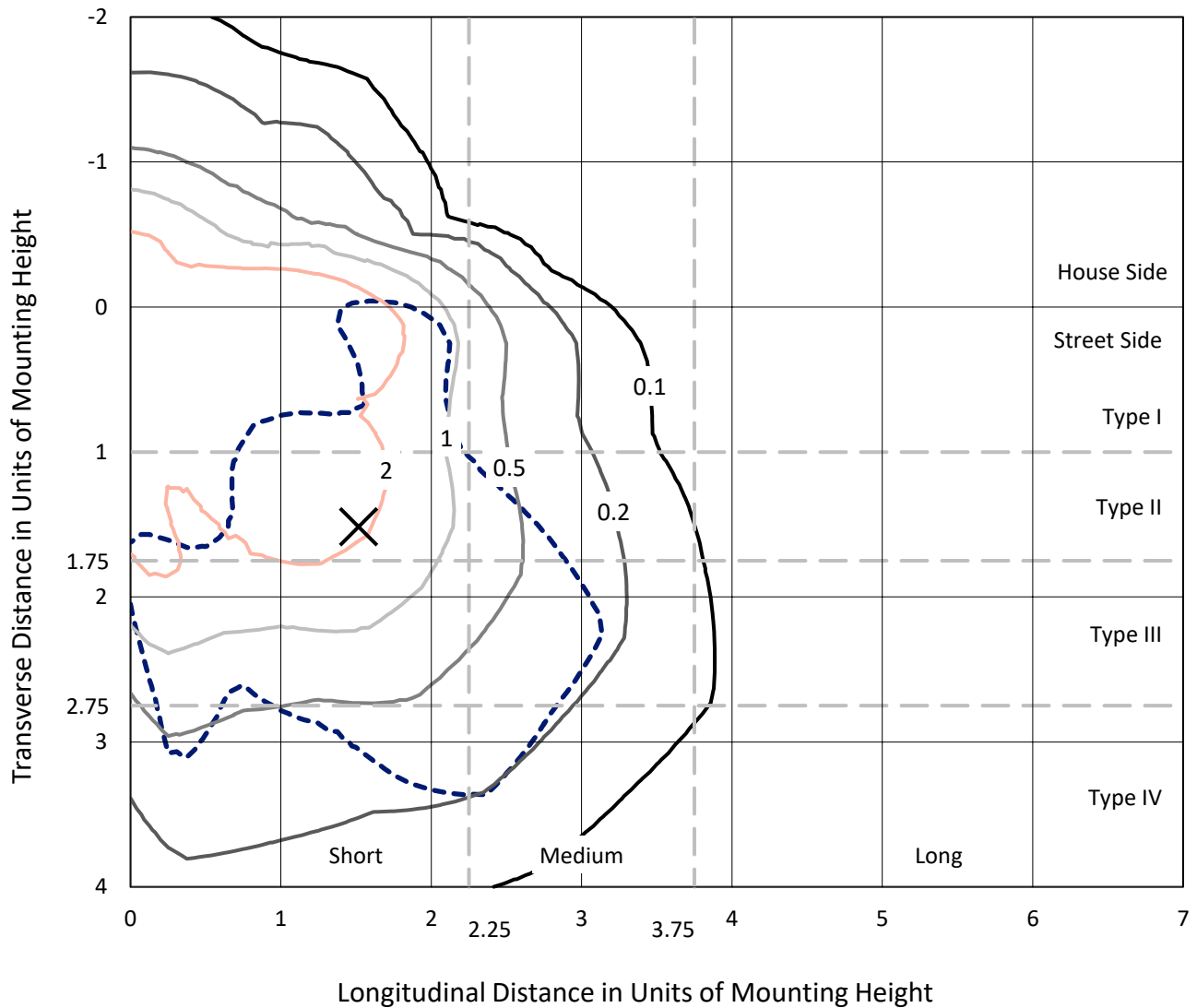
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

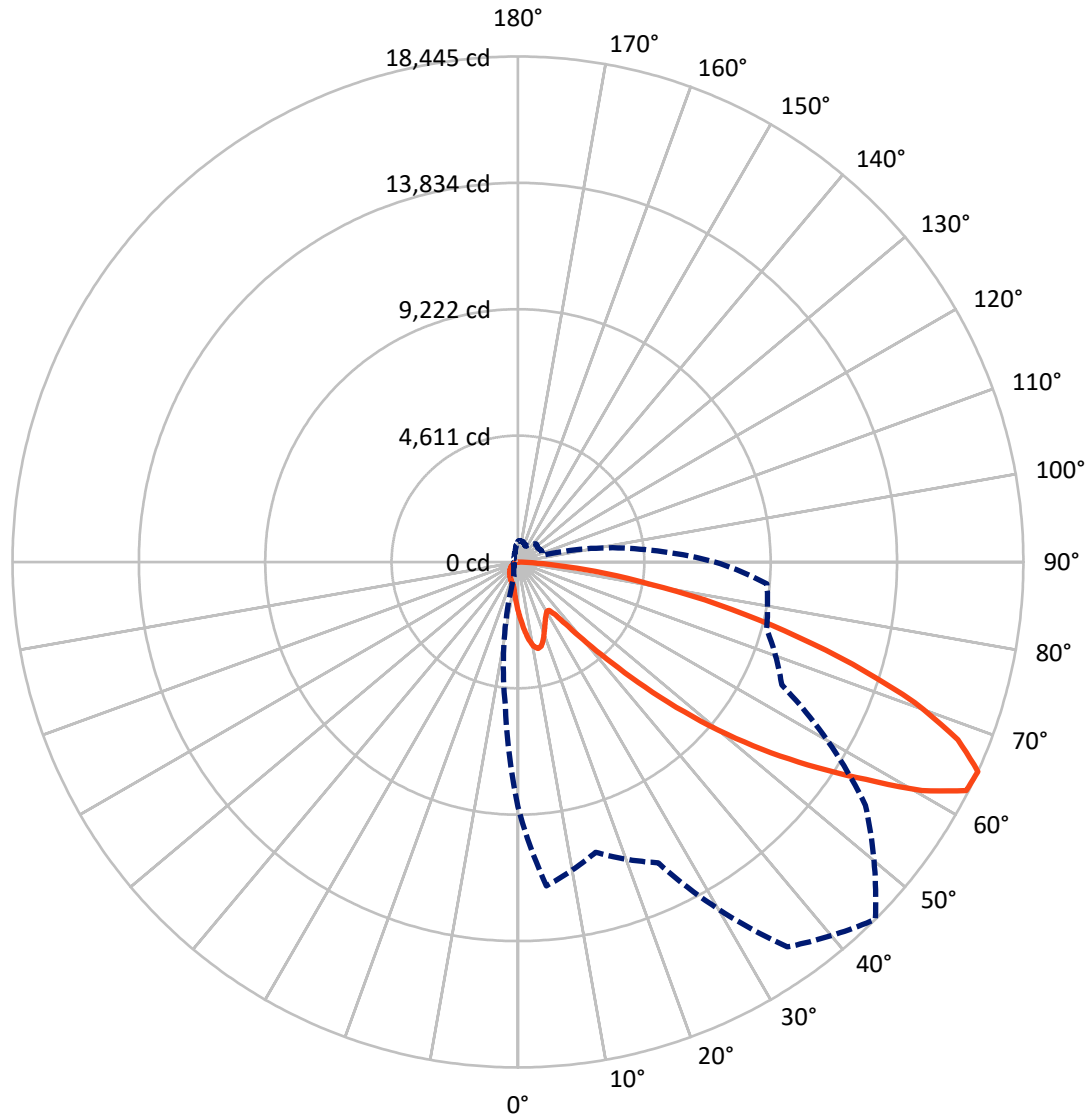
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.6	0.0	2608.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	10515.4	0.0	10515.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	13124.0	0.0	13124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.4
10°-20°	536.3	4.1
20°-30°	790.1	6.0
30°-40°	1015.1	7.7
40°-50°	1641.7	12.5
50°-60°	2878.9	21.9
60°-70°	3602.3	27.4
70°-80°	2105.0	16.0
80°-90°	375.6	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°	13124.0	100.0
0°-180°	13124.0	100.0

Coefficient of Utilization



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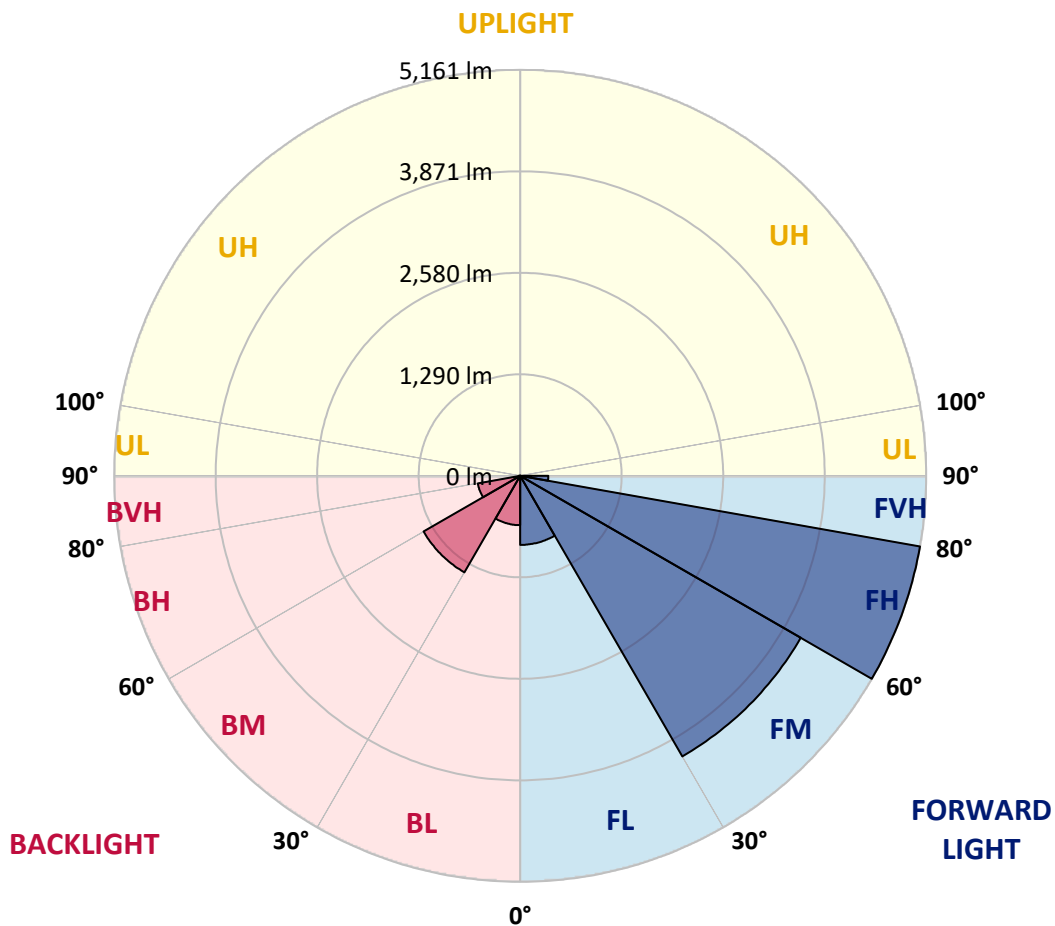
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.2	6.7			
FM (30°-60°)	4118.5	31.4			
FH (60°-80°)	5160.8	39.3			G3/7500
FVH (80°-90°)	358.0	2.7			G3/500
BL (0°-30°)	627.2	4.8	B2/1000		
BM (30°-60°)	1417.3	10.8	B2/2500		
BH (60°-80°)	546.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	17.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3
2.5°	2036.0	2051.4	2085.8	2103.9	2131.9	2133.7	2133.7	2109.3	2108.4	2058.7
5°	2275.6	2311.8	2393.2	2477.3	2495.3	2499.9	2490.8	2442.0	2405.8	2309.1
7.5°	2513.4	2583.0	2706.9	2819.0	2855.2	2855.2	2833.5	2753.9	2679.8	2539.6
10°	2710.5	2798.2	2966.4	3092.0	3133.6	3124.6	3080.3	2979.9	2877.8	2707.8
12.5°	2840.7	2939.3	3123.7	3224.9	3267.4	3243.9	3193.3	3095.7	2988.1	2809.1
15°	2905.8	3008.9	3168.9	3222.2	3210.5	3186.1	3179.7	3132.7	3051.4	2884.1
17.5°	2933.8	3029.7	3140.9	3107.4	3008.0	2989.0	3052.3	3111.9	3092.0	2949.2
20°	2960.0	3040.5	3074.0	2925.7	2752.1	2734.9	2856.1	3026.0	3112.8	3009.8
22.5°	2996.2	3045.9	2977.2	2734.0	2546.9	2507.1	2640.9	2896.8	3119.2	3086.6
25°	3045.9	3059.5	2870.5	2552.3	2364.2	2324.5	2449.2	2753.0	3108.3	3169.8
27.5°	3105.6	3077.6	2768.4	2400.4	2218.7	2181.6	2306.4	2614.7	3077.6	3253.0
30°	3183.4	3101.1	2667.1	2282.9	2114.7	2087.6	2207.8	2495.3	3039.6	3358.8
32.5°	3262.0	3111.0	2573.1	2214.2	2091.2	2101.1	2199.7	2431.1	2998.0	3460.0
35°	3347.0	3142.7	2527.0	2282.0	2287.4	2374.2	2414.9	2490.8	2991.7	3597.4
37.5°	3462.7	3213.2	2582.1	2619.2	2807.3	2987.2	2953.7	2782.8	3064.9	3802.7
40°	3629.1	3337.1	2822.6	3193.3	3579.4	3871.4	3743.9	3313.6	3289.1	4098.3
42.5°	3871.4	3534.2	3249.4	3894.9	4549.5	5030.4	4688.7	3998.0	3681.5	4520.5
45°	4229.4	3853.3	3765.6	4635.4	5745.6	6503.2	5792.6	4727.6	4231.2	5159.7
47.5°	4725.8	4322.5	4249.3	5415.6	7199.4	8179.5	7016.8	5403.8	4856.9	6031.3
50°	5384.9	4954.5	4707.7	6269.1	8793.3	9888.2	8240.0	6056.6	5573.8	7096.3
52.5°	6254.6	5836.0	5242.0	7081.9	10432.5	11560.8	9468.7	6629.8	6463.5	8332.2
55°	7440.8	7162.3	5972.5	7857.6	12070.7	13243.4	10649.5	7170.5	7638.8	9800.5
57.5°	8912.7	9111.6	7025.8	8757.2	13543.5	14977.4	11835.7	7926.3	9164.9	11442.4
60°	9862.0	11703.7	9042.9	10087.1	15217.0	16938.4	13461.2	9363.8	10768.8	12030.9
62.5°	9632.4	12528.2	11458.6	11785.0	16755.8	18364.2	15054.3	10807.7	11070.8	11163.9
65°	8928.1	11862.8	10965.9	12115.0	17145.5	18444.7	15480.1	10621.4	9391.0	9114.3
67.5°	7958.8	11073.5	9795.1	11239.9	16441.2	17320.0	14687.2	9395.5	7257.3	6839.6
70°	6912.8	10200.1	9026.6	10258.0	15098.6	15359.9	13339.2	8263.5	5337.8	4619.1
72.5°	5920.1	9290.6	8500.4	9251.7	13307.5	12766.9	11584.3	7262.7	3886.8	3331.6
75°	4904.8	7948.9	7750.9	8056.5	10952.3	10056.4	9625.1	6013.2	3050.5	2410.3
77.5°	3784.6	6211.2	6666.9	6451.7	7709.3	7469.7	7460.7	4518.7	2228.6	1608.4
80°	2590.3	4328.9	5208.6	4551.3	5003.3	4881.3	5619.0	3031.5	1616.5	968.3
82.5°	1522.5	2635.5	3625.5	2203.3	2766.6	2839.8	3346.1	1474.6	951.1	223.3
85°	617.5	1040.6	1417.6	862.5	1334.5	1125.6	1270.3	414.1	264.9	5.4
87.5°	155.5	332.7	233.3	96.7	154.6	141.9	112.1	50.6	10.8	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1817.3	0°	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3
2053.2	2.5°	2018.0	1997.2	1945.6	1894.1	1852.5	1796.5	1759.4	1715.1	1672.6	1634.6
2288.3	5°	2231.3	2162.6	2068.6	1982.7	1895.0	1810.0	1725.9	1637.3	1556.0	1506.2
2487.2	7.5°	2404.9	2283.8	2159.0	2049.6	1943.8	1844.4	1733.2	1625.6	1498.1	1430.3
2639.1	10°	2534.2	2375.1	2211.4	2085.8	1979.1	1882.3	1788.3	1679.8	1526.1	1441.1
2731.3	12.5°	2619.2	2430.2	2238.6	2094.8	1975.5	1900.4	1858.8	1816.3	1663.6	1564.1
2799.1	15°	2678.0	2469.1	2257.6	2074.0	1927.6	1872.4	1914.0	1962.8	1865.2	1750.4
2869.6	17.5°	2742.2	2519.7	2265.7	2018.0	1834.4	1810.9	1918.5	2031.5	2027.0	1913.1
2936.5	20°	2810.0	2564.0	2260.3	1927.6	1721.4	1742.2	1879.6	2010.7	2065.9	2004.4
3013.4	22.5°	2879.6	2606.5	2239.5	1810.0	1615.6	1680.7	1818.2	1933.0	1998.1	1979.1
3107.4	25°	2967.3	2666.2	2208.7	1683.4	1527.9	1618.4	1746.7	1839.9	1885.1	1884.2
3208.7	27.5°	3072.2	2745.8	2192.5	1581.3	1465.6	1547.8	1661.7	1744.9	1776.6	1776.6
3334.3	30°	3194.2	2839.8	2174.4	1514.4	1429.4	1474.6	1563.2	1644.6	1676.2	1676.2
3471.8	32.5°	3329.8	2930.2	2131.0	1473.7	1402.3	1403.2	1459.2	1533.4	1571.3	1576.8
3643.5	35°	3492.6	3026.9	2036.0	1441.1	1370.6	1333.6	1360.7	1422.2	1467.4	1479.1
3888.6	37.5°	3705.9	3145.4	1900.4	1393.2	1321.8	1260.3	1266.7	1313.7	1363.4	1381.5
4226.7	40°	3992.5	3284.6	1759.4	1324.5	1253.1	1179.9	1177.1	1211.5	1260.3	1280.2
4684.2	42.5°	4371.4	3451.9	1624.7	1258.5	1169.9	1094.9	1090.4	1117.5	1160.0	1180.8
5288.1	45°	4856.0	3657.1	1509.0	1207.0	1088.5	1014.4	1012.6	1035.2	1072.3	1094.0
6061.1	47.5°	5529.5	3862.3	1430.3	1179.9	1024.4	948.4	952.0	971.9	1005.4	1020.7
7062.0	50°	6407.4	3924.7	1390.5	1179.9	990.0	889.6	907.7	924.0	949.3	958.4
8261.7	52.5°	7250.0	3718.6	1354.4	1187.1	994.5	839.9	878.8	890.5	912.2	915.9
9373.8	55°	7663.2	3196.9	1304.6	1188.9	1022.5	797.4	855.3	877.0	885.1	884.2
10019.3	57.5°	7521.3	2584.8	1220.5	1181.7	1041.5	770.3	826.4	867.9	873.4	865.2
9896.3	60°	7023.1	1903.1	1156.4	1128.3	1034.3	762.2	782.1	848.1	856.2	845.3
8948.8	62.5°	6187.7	1320.9	1106.6	1010.8	1002.7	759.4	712.4	804.7	824.5	809.2
7193.1	65°	4871.3	933.0	952.9	886.0	933.9	745.0	640.1	752.2	779.3	755.8
5218.5	67.5°	3296.4	673.6	772.1	802.8	822.7	712.4	587.7	692.5	728.7	698.0
3348.8	70°	1780.2	472.8	509.9	676.3	698.9	656.4	540.7	632.0	673.6	640.1
2380.5	72.5°	1051.5	339.9	357.1	543.4	582.2	577.7	488.2	561.5	612.1	572.3
1642.8	75°	579.5	229.6	255.0	394.2	472.8	445.7	419.5	475.6	527.1	488.2
1029.8	77.5°	259.5	137.4	177.2	258.6	371.6	305.6	324.6	370.7	418.6	377.9
573.2	80°	100.4	76.8	117.5	141.0	270.3	169.1	208.8	273.0	307.4	274.8
124.8	82.5°	12.7	34.4	50.6	55.2	157.3	89.5	121.2	171.8	169.1	146.5
0.0	85°	0.0	6.3	7.2	3.6	67.8	32.5	39.8	56.1	52.4	39.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	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°
1817.3	0°	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3
1627.4	2.5°	1583.1	1550.5	1534.3	1520.7	1533.4	1540.6	1540.6	1571.3	1589.4	1596.7
1474.6	5°	1395.0	1334.5	1293.8	1269.4	1277.5	1286.5	1296.5	1335.4	1361.6	1378.8
1368.8	7.5°	1246.8	1154.5	1097.6	1067.7	1072.3	1078.6	1086.7	1124.7	1150.9	1173.5
1348.9	10°	1173.5	1043.3	968.3	932.1	925.8	922.2	919.5	942.1	962.0	980.1
1430.3	12.5°	1177.1	995.4	904.1	859.8	840.8	819.1	801.9	805.6	818.2	840.8
1575.9	15°	1223.3	980.1	870.7	815.5	783.9	758.5	737.8	733.2	737.8	741.4
1742.2	17.5°	1285.6	978.2	841.7	773.0	740.5	719.7	700.7	694.4	695.3	699.8
1852.5	20°	1335.4	972.8	809.2	732.3	703.4	685.3	666.3	660.0	661.8	662.7
1863.4	22.5°	1361.6	964.7	773.0	691.6	667.2	649.1	632.0	631.1	631.1	636.5
1804.6	25°	1361.6	947.5	740.5	652.8	631.1	614.8	594.0	597.6	599.4	606.7
1713.3	27.5°	1329.0	915.0	714.2	619.3	596.7	580.4	561.5	566.0	568.7	576.8
1622.9	30°	1287.4	876.1	684.4	587.7	561.5	549.7	533.4	535.2	538.8	547.9
1538.8	32.5°	1243.1	830.0	660.0	556.0	529.8	520.8	502.7	505.4	509.0	519.0
1455.6	35°	1194.3	775.7	631.1	527.1	500.9	493.6	472.8	474.7	480.1	490.9
1366.1	37.5°	1142.8	731.4	602.1	499.1	471.9	464.7	443.0	444.8	451.1	463.8
1272.1	40°	1092.2	688.0	571.4	469.2	442.1	435.8	412.3	414.1	421.3	434.9
1177.1	42.5°	1037.0	654.6	531.6	438.5	409.6	403.2	381.5	384.2	392.4	405.9
1089.4	45°	971.0	632.9	487.3	409.6	377.0	370.7	350.8	356.2	365.3	378.8
1014.4	47.5°	903.2	623.8	450.2	378.8	343.6	338.1	321.9	330.9	340.8	351.7
950.2	50°	838.1	612.1	412.3	349.9	314.6	309.2	298.4	310.1	320.1	330.0
904.1	52.5°	764.0	586.8	377.9	324.6	290.2	288.4	283.0	293.8	302.9	311.9
864.3	55°	687.1	546.1	348.1	302.0	269.4	271.2	268.5	277.6	284.8	292.9
828.2	57.5°	620.2	494.5	324.6	277.6	251.3	256.8	253.1	257.7	262.2	272.1
784.8	60°	552.4	433.1	298.4	248.6	233.3	239.6	229.6	228.7	230.5	233.3
720.6	62.5°	461.1	368.9	265.8	223.3	213.4	216.1	197.1	182.6	182.6	185.3
631.1	65°	370.7	309.2	229.6	194.4	186.2	184.4	157.3	137.4	135.6	143.8
527.1	67.5°	304.7	256.8	193.5	161.8	156.4	158.2	138.3	118.4	116.6	125.7
429.5	70°	252.2	207.0	154.6	124.8	130.2	138.3	118.4	99.5	96.7	104.9
349.0	72.5°	200.7	161.8	118.4	92.2	107.6	117.5	96.7	78.7	76.8	84.1
269.4	75°	147.4	115.7	80.5	66.9	83.2	92.2	70.5	56.1	53.3	59.7
179.9	77.5°	91.3	65.1	50.6	39.8	57.0	61.5	37.1	32.5	31.6	36.2
109.4	80°	42.5	28.0	24.4	13.6	20.8	24.4	15.4	17.2	18.1	21.7
55.2	82.5°	11.8	4.5	0.9	0.0	0.0	7.2	3.6	7.2	9.0	13.6
4.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.5	8.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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°
1817.3	0°	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3
1647.3	2.5°	1685.3	1721.4	1779.3	1839.0	1897.7	1957.4	2015.3	2036.0
1457.4	5°	1528.8	1612.0	1726.8	1849.8	1976.4	2104.8	2222.3	2275.6
1261.2	7.5°	1354.4	1473.7	1646.4	1839.0	2040.6	2242.2	2427.5	2513.4
1066.8	10°	1168.1	1319.1	1516.2	1776.6	2065.9	2344.3	2599.3	2710.5
896.0	12.5°	990.9	1149.1	1367.0	1678.9	2046.0	2403.1	2709.6	2840.7
775.7	15°	842.6	982.8	1217.8	1563.2	1981.8	2406.7	2762.0	2905.8
708.8	17.5°	731.4	822.7	1065.9	1434.8	1897.7	2373.3	2780.1	2933.8
672.7	20°	676.3	701.6	868.8	1270.3	1819.1	2341.6	2798.2	2960.0
643.7	22.5°	643.7	650.1	710.6	1057.8	1725.0	2331.7	2829.9	2996.2
617.5	25°	617.5	619.3	635.6	838.1	1581.3	2325.4	2878.7	3045.9
590.4	27.5°	591.3	591.3	600.3	675.4	1386.0	2298.2	2942.0	3105.6
563.3	30°	565.1	565.1	571.4	597.6	1157.3	2244.9	3017.9	3183.4
536.1	32.5°	537.9	537.9	543.4	562.4	924.0	2178.0	3087.5	3262.0
508.1	35°	510.8	509.0	516.2	536.1	735.0	2093.0	3157.1	3347.0
480.1	37.5°	481.9	481.0	488.2	510.8	634.7	1994.5	3209.6	3462.7
452.1	40°	451.1	451.1	459.3	483.7	605.8	1870.6	3292.8	3629.1
423.1	42.5°	423.1	421.3	430.4	460.2	584.1	1752.2	3441.9	3871.4
396.9	45°	396.0	392.4	400.5	437.6	546.1	1710.6	3720.4	4229.4
371.6	47.5°	370.7	361.6	368.9	410.5	511.7	1866.1	4176.1	4725.8
349.0	50°	349.9	332.7	339.0	383.3	485.5	2203.3	4767.4	5384.9
328.2	52.5°	328.2	305.6	309.2	349.9	462.0	2524.3	5408.4	6254.6
307.4	55°	305.6	280.3	282.1	316.4	428.5	2572.2	6034.0	7440.8
283.9	57.5°	280.3	256.8	256.8	285.7	404.1	2229.5	6515.0	8912.7
255.0	60°	252.2	236.9	232.4	261.3	425.8	1573.1	6571.0	9862.0
217.9	62.5°	221.5	213.4	207.0	237.8	442.1	932.1	6119.9	9632.4
171.8	65°	186.2	184.4	179.9	261.3	372.5	550.6	5253.8	8928.1
146.5	67.5°	156.4	153.7	153.7	273.9	283.0	346.3	4104.6	7958.8
124.8	70°	134.7	124.8	124.8	207.0	171.8	239.6	2866.0	6912.8
103.1	72.5°	113.0	102.2	94.9	165.5	128.4	175.4	1791.0	5920.1
78.7	75°	90.4	82.3	73.2	109.4	95.8	132.9	1040.6	4904.8
49.7	77.5°	65.1	61.5	51.5	80.5	69.6	95.8	619.3	3784.6
30.7	80°	33.5	34.4	32.5	46.1	47.0	65.1	352.6	2590.3
19.9	82.5°	19.9	15.4	17.2	22.6	27.1	37.1	132.9	1522.5
14.5	85°	12.7	8.1	8.1	10.8	13.6	14.5	40.7	617.5
7.2	87.5°	6.3	2.7	3.6	5.4	4.5	3.6	1.8	155.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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