

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: P949270

Luminaire Tested: **GALN-SB4A-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949270
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 11931 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

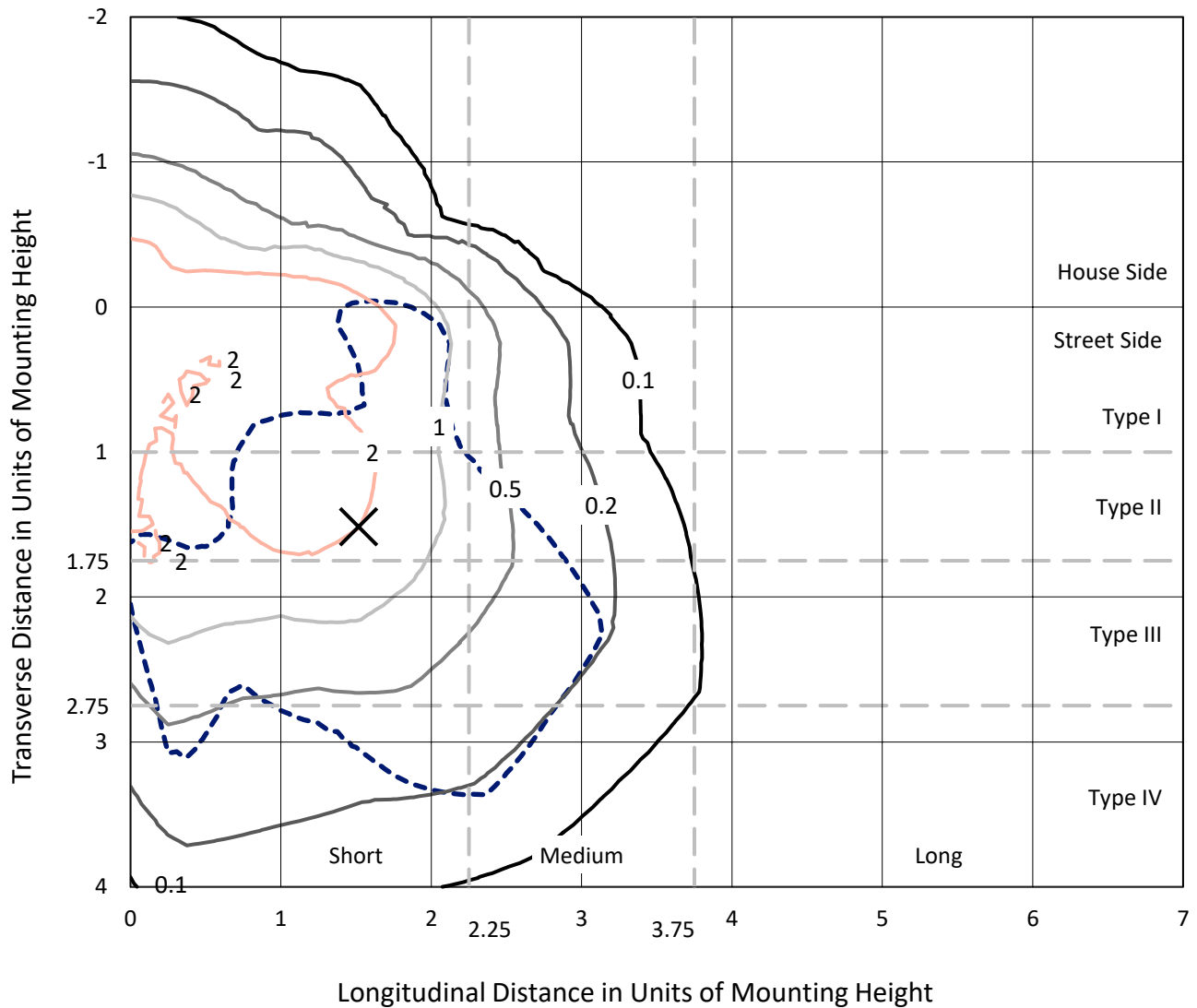
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

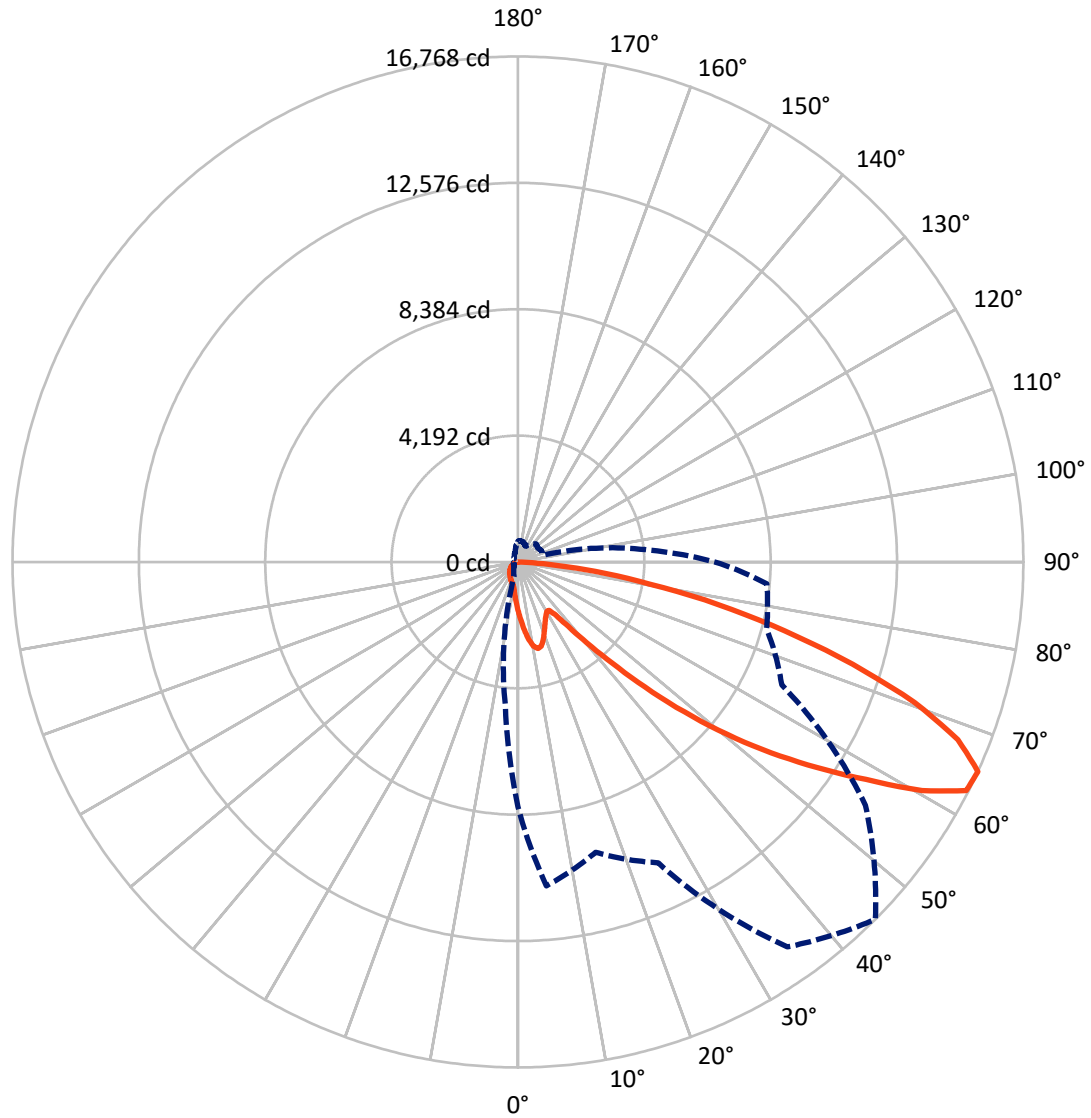
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2371.5	0.0	2371.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	9559.5	0.0	9559.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	11931.0	0.0	11931.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.4
10°-20°	487.6	4.1
20°-30°	718.3	6.0
30°-40°	922.8	7.7
40°-50°	1492.5	12.5
50°-60°	2617.2	21.9
60°-70°	3274.8	27.4
70°-80°	1913.7	16.0
80°-90°	341.4	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°	11931.0	100.0
0°-180°	11931.0	100.0



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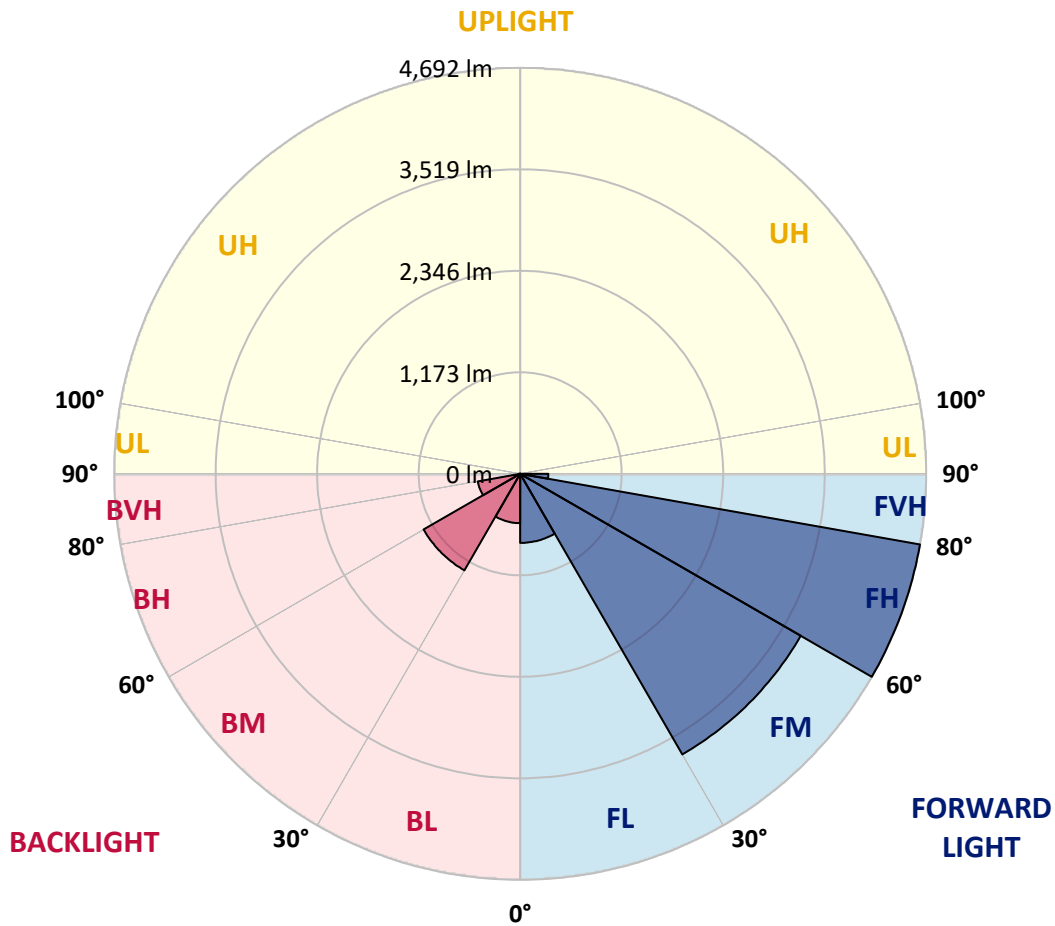
CATALOG NUMBER: GALN-SB4A-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.3	6.7			
FM (30°-60°)	3744.1	31.4			
FH (60°-80°)	4691.6	39.3			G2/5000
FVH (80°-90°)	325.4	2.7			G3/500
BL (0°-30°)	570.2	4.8	B2/1000		
BM (30°-60°)	1288.4	10.8	B2/2500		
BH (60°-80°)	496.9	4.2	B1/500		G1/500
BVH (80°-90°)	16.0	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°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
2.5°	1851.0	1864.9	1896.2	1912.6	1938.1	1939.7	1939.7	1917.5	1916.7	1871.5
5°	2068.8	2101.7	2175.6	2252.1	2268.5	2272.6	2264.4	2220.0	2187.1	2099.2
7.5°	2284.9	2348.2	2460.8	2562.8	2595.6	2595.6	2575.9	2503.6	2436.2	2308.8
10°	2464.1	2543.8	2696.7	2811.0	2848.8	2840.6	2800.3	2709.1	2616.2	2461.7
12.5°	2582.5	2672.1	2839.7	2931.8	2970.4	2949.1	2903.0	2814.3	2716.4	2553.7
15°	2641.7	2735.4	2880.8	2929.3	2918.6	2896.5	2890.7	2848.0	2774.0	2621.9
17.5°	2667.1	2754.3	2855.4	2824.9	2734.5	2717.3	2774.8	2829.1	2811.0	2681.1
20°	2691.0	2764.1	2794.5	2659.7	2501.9	2486.3	2596.4	2751.0	2829.9	2736.2
22.5°	2723.8	2769.1	2706.6	2485.5	2315.4	2279.2	2400.8	2633.4	2835.6	2806.0
25°	2769.1	2781.4	2609.6	2320.3	2149.3	2113.2	2226.6	2502.8	2825.8	2881.7
27.5°	2823.3	2797.8	2516.7	2182.2	2017.0	1983.3	2096.7	2377.0	2797.8	2957.3
30°	2894.0	2819.2	2424.7	2075.4	1922.5	1897.8	2007.1	2268.5	2763.3	3053.4
32.5°	2965.5	2828.2	2339.2	2012.9	1901.1	1910.1	1999.7	2210.1	2725.5	3145.5
35°	3042.8	2857.0	2297.3	2074.5	2079.5	2158.4	2195.4	2264.4	2719.7	3270.4
37.5°	3148.0	2921.1	2347.4	2381.1	2552.1	2715.6	2685.2	2529.9	2786.3	3457.0
40°	3299.2	3033.7	2566.0	2903.0	3254.0	3519.5	3403.6	3012.3	2990.1	3725.8
42.5°	3519.5	3212.9	2954.0	3540.8	4135.9	4573.2	4262.5	3634.5	3346.9	4109.6
45°	3844.9	3503.0	3423.3	4214.0	5223.3	5912.1	5266.0	4297.8	3846.6	4690.7
47.5°	4296.2	3929.6	3863.0	4923.3	6545.0	7435.9	6378.9	4912.6	4415.4	5483.0
50°	4895.4	4504.1	4279.7	5699.2	7994.0	8989.4	7491.0	5506.1	5067.1	6451.3
52.5°	5686.1	5305.5	4765.5	6438.1	9484.1	10509.9	8608.0	6027.1	5875.9	7574.8
55°	6764.4	6511.3	5429.6	7143.3	10973.5	12039.5	9681.4	6518.7	6944.4	8909.6
57.5°	8102.5	8283.3	6387.2	7961.1	12312.4	13615.9	10759.8	7205.8	8331.8	10402.2
60°	8965.5	10639.8	8220.9	9170.2	13833.8	15398.7	12237.6	8512.6	9789.9	10937.3
62.5°	8756.7	11389.4	10417.0	10713.7	15232.7	16694.9	13685.8	9825.2	10064.4	10149.1
65°	8116.5	10784.4	9969.1	11013.7	15586.9	16768.0	14072.9	9655.9	8537.3	8285.8
67.5°	7235.4	10066.9	8904.7	10218.1	14946.6	15745.5	13352.1	8541.4	6597.6	6217.8
70°	6284.4	9272.9	8206.1	9325.5	13726.1	13963.6	12126.6	7512.4	4852.6	4199.2
72.5°	5381.9	8446.1	7727.7	8410.7	12097.9	11606.4	10531.3	6602.5	3533.4	3028.8
75°	4458.9	7226.3	7046.3	7324.1	9956.8	9142.2	8750.2	5466.6	2773.2	2191.2
77.5°	3440.6	5646.6	6060.8	5865.2	7008.5	6790.7	6782.5	4108.0	2026.0	1462.2
80°	2354.8	3935.4	4735.1	4137.6	4548.5	4437.6	5108.2	2755.9	1469.6	880.3
82.5°	1384.1	2395.9	3295.9	2003.0	2515.1	2581.7	3041.9	1340.6	864.7	203.0
85°	561.4	946.0	1288.8	784.1	1213.2	1023.3	1154.8	376.4	240.8	4.9
87.5°	141.4	302.5	212.1	87.9	140.5	129.0	101.9	46.0	9.9	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°
1652.1	0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
1866.6	2.5°	1834.5	1815.6	1768.8	1721.9	1684.1	1633.2	1599.5	1559.2	1520.6	1486.0
2080.3	5°	2028.5	1966.0	1880.6	1802.5	1722.7	1645.5	1569.0	1488.5	1414.5	1369.3
2261.1	7.5°	2186.3	2076.2	1962.7	1863.3	1767.1	1676.7	1575.6	1477.8	1361.9	1300.3
2399.2	10°	2303.8	2159.2	2010.4	1896.2	1799.2	1711.2	1625.8	1527.1	1387.4	1310.1
2483.0	12.5°	2381.1	2209.3	2035.1	1904.4	1795.9	1727.7	1689.9	1651.2	1512.3	1421.9
2544.7	15°	2434.5	2244.7	2052.3	1885.5	1752.3	1702.2	1740.0	1784.4	1695.6	1591.2
2608.8	17.5°	2492.9	2290.7	2059.7	1834.5	1667.7	1646.3	1744.1	1846.9	1842.7	1739.2
2669.6	20°	2554.5	2331.0	2054.8	1752.3	1564.9	1583.8	1708.8	1828.0	1878.1	1822.2
2739.5	22.5°	2617.8	2369.6	2035.9	1645.5	1468.8	1528.0	1652.9	1757.3	1816.4	1799.2
2824.9	25°	2697.5	2423.8	2008.0	1530.4	1389.0	1471.2	1588.0	1672.6	1713.7	1712.9
2917.0	27.5°	2792.9	2496.2	1993.2	1437.5	1332.3	1407.1	1510.7	1586.3	1615.1	1615.1
3031.2	30°	2903.8	2581.7	1976.7	1376.7	1299.5	1340.6	1421.1	1495.1	1523.8	1523.8
3156.2	32.5°	3027.1	2663.8	1937.3	1339.7	1274.8	1275.6	1326.6	1394.0	1428.5	1433.4
3312.3	35°	3175.1	2751.8	1851.0	1310.1	1246.0	1212.3	1237.0	1292.9	1334.0	1344.7
3535.1	37.5°	3369.1	2859.5	1727.7	1266.6	1201.6	1145.8	1151.5	1194.3	1239.5	1255.9
3842.5	40°	3629.6	2986.0	1599.5	1204.1	1139.2	1072.6	1070.1	1101.4	1145.8	1163.8
4258.4	42.5°	3974.0	3138.1	1477.0	1144.1	1063.6	995.3	991.2	1015.9	1054.5	1073.4
4807.4	45°	4414.5	3324.7	1371.8	1097.3	989.6	922.2	920.6	941.1	974.8	994.5
5510.2	47.5°	5026.9	3511.2	1300.3	1072.6	931.2	862.2	865.5	883.6	914.0	927.9
6420.0	50°	5825.0	3568.0	1264.1	1072.6	900.0	808.8	825.2	840.0	863.0	871.2
7510.7	52.5°	6591.0	3380.6	1231.2	1079.2	904.1	763.6	798.9	809.6	829.3	832.6
8521.7	55°	6966.6	2906.3	1186.0	1080.8	929.6	724.9	777.5	797.3	804.7	803.8
9108.5	57.5°	6837.6	2349.9	1109.6	1074.3	946.9	700.3	751.2	789.0	794.0	786.6
8996.8	60°	6384.7	1730.1	1051.2	1025.8	940.3	692.9	711.0	771.0	778.4	768.5
8135.4	62.5°	5625.2	1200.8	1006.0	918.9	911.5	690.4	647.7	731.5	749.6	735.6
6539.2	65°	4428.5	848.2	866.3	805.5	849.0	677.3	581.9	683.8	708.5	687.1
4744.1	67.5°	2996.7	612.3	701.9	729.9	747.9	647.7	534.2	629.6	662.5	634.5
3044.4	70°	1618.4	429.9	463.6	614.8	635.3	596.7	491.5	574.5	612.3	581.9
2164.1	72.5°	955.9	309.0	324.7	494.0	529.3	525.2	443.8	510.4	556.4	520.3
1493.4	75°	526.9	208.8	231.8	358.4	429.9	405.2	381.4	432.3	479.2	443.8
936.2	77.5°	235.9	124.9	161.1	235.1	337.8	277.8	295.1	337.0	380.5	343.6
521.1	80°	91.2	69.9	106.8	128.2	245.8	153.7	189.9	248.2	279.5	249.9
113.4	82.5°	11.5	31.2	46.0	50.1	143.0	81.4	110.1	156.2	153.7	133.2
0.0	85°	0.0	5.8	6.6	3.3	61.6	29.6	36.2	51.0	47.7	36.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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°
1652.1	0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
1479.5	2.5°	1439.2	1409.6	1394.8	1382.5	1394.0	1400.6	1400.6	1428.5	1444.9	1451.5
1340.6	5°	1268.2	1213.2	1176.2	1154.0	1161.4	1169.6	1178.6	1214.0	1237.8	1253.4
1244.4	7.5°	1133.4	1049.6	997.8	970.7	974.8	980.6	987.9	1022.5	1046.3	1066.9
1226.3	10°	1066.9	948.5	880.3	847.4	841.6	838.4	835.9	856.4	874.5	891.0
1300.3	12.5°	1070.1	904.9	821.9	781.6	764.4	744.7	729.0	732.3	743.8	764.4
1432.6	15°	1112.1	891.0	791.5	741.4	712.6	689.6	670.7	666.6	670.7	674.0
1583.8	17.5°	1168.8	889.3	765.2	702.7	673.2	654.2	637.0	631.2	632.1	636.2
1684.1	20°	1214.0	884.4	735.6	665.8	639.5	623.0	605.8	600.0	601.6	602.5
1694.0	22.5°	1237.8	877.0	702.7	628.8	606.6	590.1	574.5	573.7	573.7	578.6
1640.6	25°	1237.8	861.4	673.2	593.4	573.7	558.9	540.0	543.3	544.9	551.5
1557.5	27.5°	1208.2	831.8	649.3	563.0	542.5	527.7	510.4	514.5	517.0	524.4
1475.3	30°	1170.4	796.4	622.2	534.2	510.4	499.7	484.9	486.6	489.9	498.1
1398.9	32.5°	1130.1	754.5	600.0	505.5	481.6	473.4	457.0	459.5	462.7	471.8
1323.3	35°	1085.8	705.2	573.7	479.2	455.3	448.8	429.9	431.5	436.4	446.3
1241.9	37.5°	1038.9	664.9	547.4	453.7	429.0	422.5	402.7	404.4	410.1	421.6
1156.4	40°	992.9	625.5	519.5	426.6	401.9	396.2	374.8	376.4	383.0	395.3
1070.1	42.5°	942.7	595.1	483.3	398.6	372.3	366.6	346.9	349.3	356.7	369.0
990.4	45°	882.7	575.3	443.0	372.3	342.7	337.0	318.9	323.8	332.1	344.4
922.2	47.5°	821.1	567.1	409.3	344.4	312.3	307.4	292.6	300.8	309.9	319.7
863.8	50°	761.9	556.4	374.8	318.1	286.0	281.1	271.2	281.9	291.0	300.0
821.9	52.5°	694.5	533.4	343.6	295.1	263.8	262.2	257.3	267.1	275.3	283.6
785.8	55°	624.7	496.4	316.4	274.5	244.9	246.6	244.1	252.3	258.9	266.3
752.9	57.5°	563.8	449.6	295.1	252.3	228.5	233.4	230.1	234.2	238.4	247.4
713.4	60°	502.2	393.7	271.2	226.0	212.1	217.8	208.8	207.9	209.6	212.1
655.1	62.5°	419.2	335.3	241.6	203.0	194.0	196.4	179.2	166.0	166.0	168.5
573.7	65°	337.0	281.1	208.8	176.7	169.3	167.7	143.0	124.9	123.3	130.7
479.2	67.5°	277.0	233.4	175.9	147.1	142.2	143.8	125.8	107.7	106.0	114.2
390.4	70°	229.3	188.2	140.5	113.4	118.4	125.8	107.7	90.4	87.9	95.3
317.3	72.5°	182.5	147.1	107.7	83.8	97.8	106.8	87.9	71.5	69.9	76.4
244.9	75°	134.0	105.2	73.2	60.8	75.6	83.8	64.1	51.0	48.5	54.2
163.6	77.5°	83.0	59.2	46.0	36.2	51.8	55.9	33.7	29.6	28.8	32.9
99.5	80°	38.6	25.5	22.2	12.3	18.9	22.2	14.0	15.6	16.4	19.7
50.1	82.5°	10.7	4.1	0.8	0.0	0.0	6.6	3.3	6.6	8.2	12.3
4.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.1	7.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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°
1652.1	0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
1497.5	2.5°	1532.1	1564.9	1617.5	1671.8	1725.2	1779.5	1832.1	1851.0
1324.9	5°	1389.9	1465.5	1569.9	1681.7	1796.7	1913.4	2020.3	2068.8
1146.6	7.5°	1231.2	1339.7	1496.7	1671.8	1855.1	2038.4	2206.9	2284.9
969.9	10°	1061.9	1199.2	1378.4	1615.1	1878.1	2131.2	2363.0	2464.1
814.5	12.5°	900.8	1044.7	1242.7	1526.3	1860.0	2184.7	2463.3	2582.5
705.2	15°	766.0	893.4	1107.1	1421.1	1801.7	2188.0	2511.0	2641.7
644.4	17.5°	664.9	747.9	969.0	1304.4	1725.2	2157.5	2527.4	2667.1
611.5	20°	614.8	637.8	789.9	1154.8	1653.7	2128.8	2543.8	2691.0
585.2	22.5°	585.2	591.0	646.0	961.6	1568.2	2119.7	2572.6	2723.8
561.4	25°	561.4	563.0	577.8	761.9	1437.5	2114.0	2617.0	2769.1
536.7	27.5°	537.5	537.5	545.8	614.0	1260.0	2089.3	2674.5	2823.3
512.1	30°	513.7	513.7	519.5	543.3	1052.1	2040.8	2743.6	2894.0
487.4	32.5°	489.0	489.0	494.0	511.2	840.0	1980.0	2806.9	2965.5
461.9	35°	464.4	462.7	469.3	487.4	668.2	1902.7	2870.1	3042.8
436.4	37.5°	438.1	437.3	443.8	464.4	577.0	1813.2	2917.8	3148.0
411.0	40°	410.1	410.1	417.5	439.7	550.7	1700.6	2993.4	3299.2
384.7	42.5°	384.7	383.0	391.2	418.4	531.0	1592.9	3129.1	3519.5
360.8	45°	360.0	356.7	364.1	397.8	496.4	1555.1	3382.2	3844.9
337.8	47.5°	337.0	328.8	335.3	373.2	465.2	1696.4	3796.5	4296.2
317.3	50°	318.1	302.5	308.2	348.5	441.4	2003.0	4334.0	4895.4
298.4	52.5°	298.4	277.8	281.1	318.1	420.0	2294.8	4916.7	5686.1
279.5	55°	277.8	254.8	256.4	287.7	389.6	2338.4	5485.5	6764.4
258.1	57.5°	254.8	233.4	233.4	259.7	367.4	2026.9	5922.8	8102.5
231.8	60°	229.3	215.3	211.2	237.5	387.1	1430.1	5973.7	8965.5
198.1	62.5°	201.4	194.0	188.2	216.2	401.9	847.4	5563.6	8756.7
156.2	65°	169.3	167.7	163.6	237.5	338.6	500.6	4776.2	8116.5
133.2	67.5°	142.2	139.7	139.7	249.0	257.3	314.8	3731.5	7235.4
113.4	70°	122.5	113.4	113.4	188.2	156.2	217.8	2605.5	6284.4
93.7	72.5°	102.7	92.9	86.3	150.4	116.7	159.5	1628.2	5381.9
71.5	75°	82.2	74.8	66.6	99.5	87.1	120.8	946.0	4458.9
45.2	77.5°	59.2	55.9	46.8	73.2	63.3	87.1	563.0	3440.6
27.9	80°	30.4	31.2	29.6	41.9	42.7	59.2	320.5	2354.8
18.1	82.5°	18.1	14.0	15.6	20.5	24.7	33.7	120.8	1384.1
13.2	85°	11.5	7.4	7.4	9.9	12.3	13.2	37.0	561.4
6.6	87.5°	5.8	2.5	3.3	4.9	4.1	3.3	1.6	141.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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