

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: P946771

Luminaire Tested: **GALN-SB2B-827-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946771  
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-SB2B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

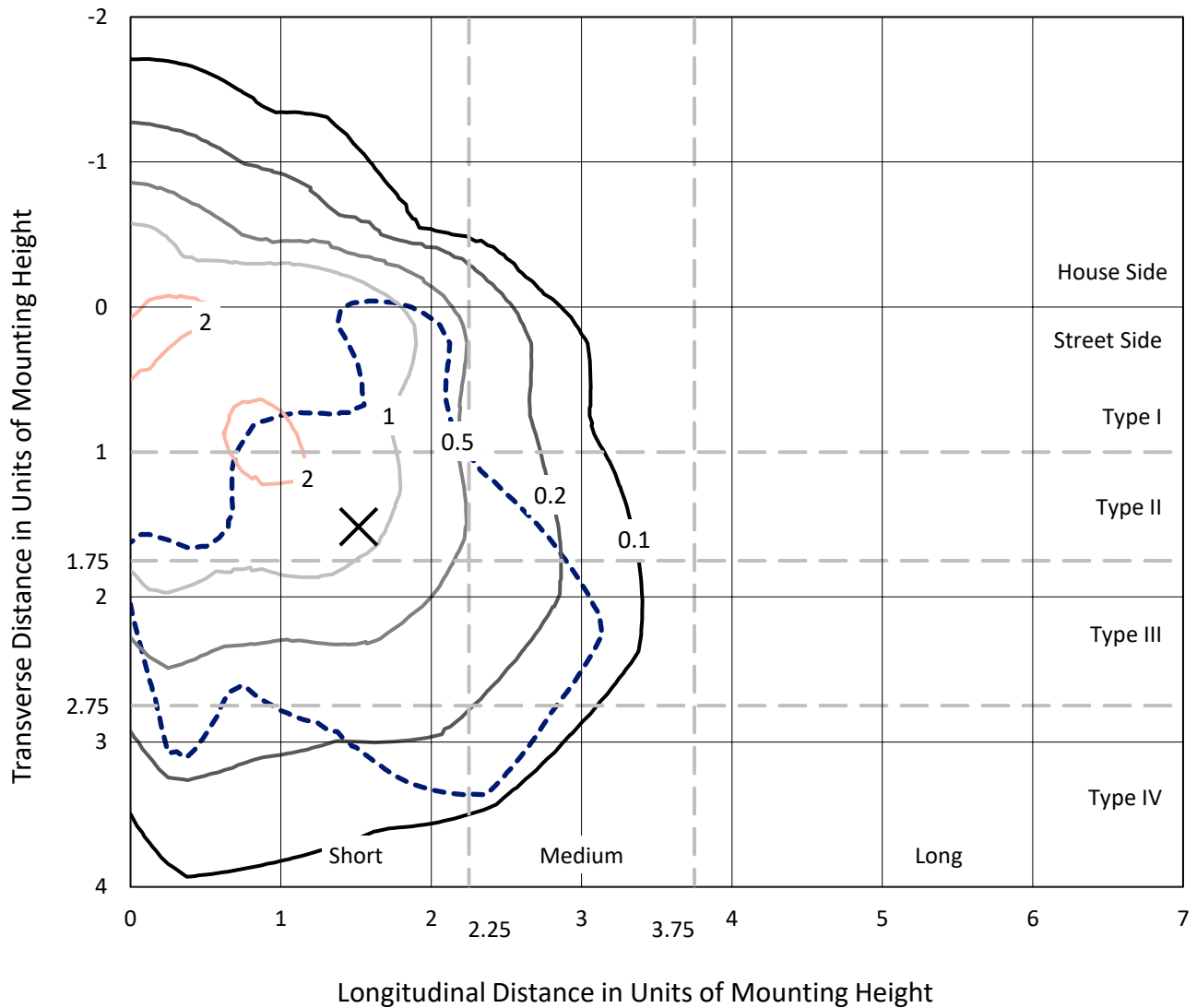
Lumens per Lamp: N/A  
Luminaire Lumens: 7473 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

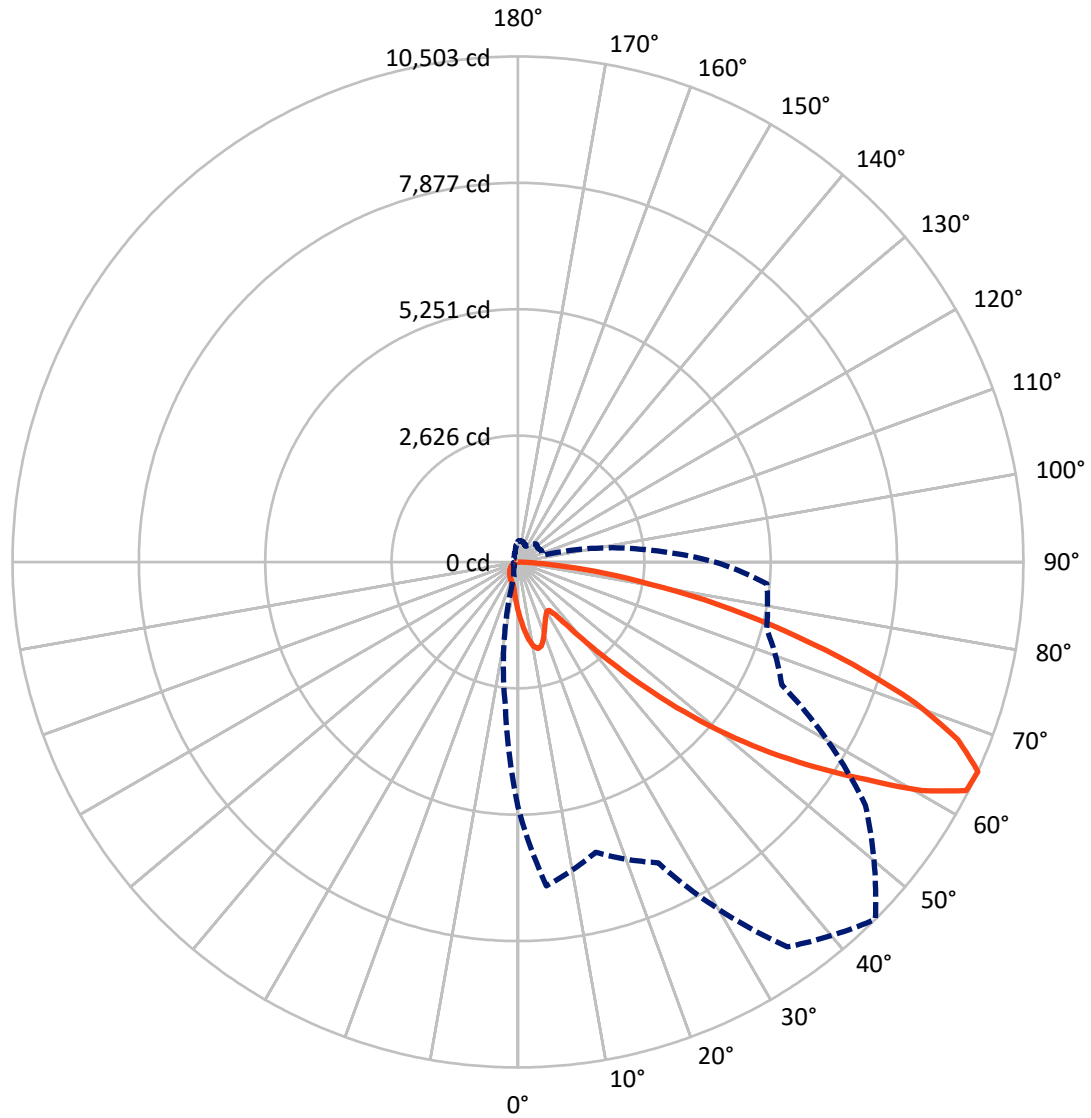
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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
<b>House Side</b>	Lumens	1485.4	0.0	1485.4
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	5987.6	0.0	5987.6
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	7473.0	0.0	7473.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	1.4
10°-20°	305.4	4.1
20°-30°	449.9	6.0
30°-40°	578.0	7.7
40°-50°	934.8	12.5
50°-60°	1639.3	21.9
60°-70°	2051.2	27.4
70°-80°	1198.6	16.0
80°-90°	213.9	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°	7473.0	100.0
0°-180°	7473.0	100.0

**Coefficient of Utilization**



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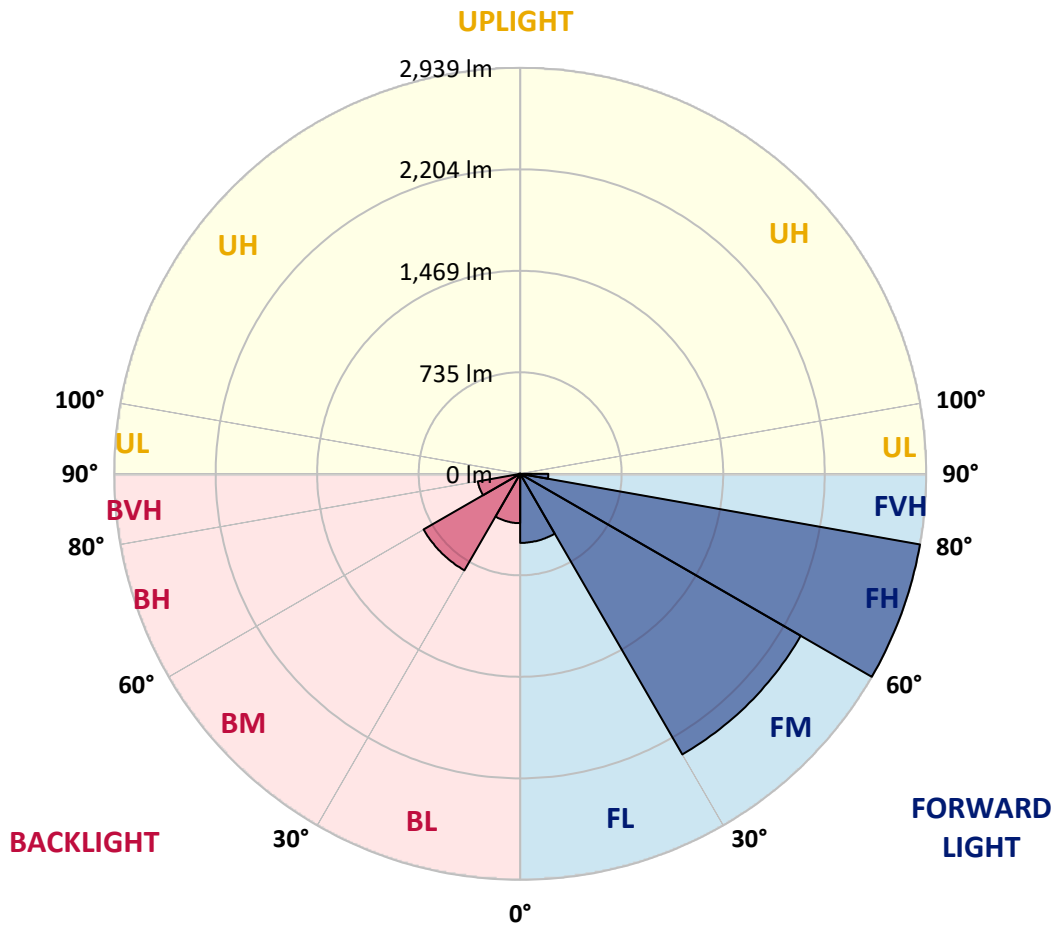
CATALOG NUMBER: GALN-SB2B-827-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.0	6.7			
FM (30°-60°)	2345.1	31.4			
FH (60°-80°)	2938.6	39.3			G2/5000
FVH (80°-90°)	203.8	2.7			G2/225
BL (0°-30°)	357.2	4.8	B1/500		
BM (30°-60°)	807.0	10.8	B1/1000		
BH (60°-80°)	311.2	4.2	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
2.5°	1159.4	1168.1	1187.7	1198.0	1213.9	1215.0	1215.0	1201.1	1200.5	1172.2
5°	1295.8	1316.4	1362.7	1410.6	1420.9	1423.5	1418.3	1390.5	1369.9	1314.8
7.5°	1431.2	1470.8	1541.3	1605.2	1625.8	1625.8	1613.4	1568.1	1525.9	1446.1
10°	1543.4	1593.3	1689.1	1760.7	1784.3	1779.2	1754.0	1696.8	1638.6	1541.9
12.5°	1617.5	1673.7	1778.7	1836.3	1860.5	1847.1	1818.3	1762.7	1701.5	1599.5
15°	1654.6	1713.3	1804.4	1834.8	1828.1	1814.2	1810.6	1783.8	1737.5	1642.2
17.5°	1670.6	1725.1	1788.5	1769.4	1712.8	1702.0	1738.0	1772.0	1760.7	1679.3
20°	1685.5	1731.3	1750.4	1665.9	1567.1	1557.3	1626.3	1723.1	1772.5	1713.8
22.5°	1706.1	1734.4	1695.3	1556.8	1450.2	1427.6	1503.8	1649.5	1776.1	1757.6
25°	1734.4	1742.1	1634.5	1453.3	1346.2	1323.6	1394.6	1567.6	1769.9	1804.9
27.5°	1768.4	1752.4	1576.4	1366.8	1263.3	1242.2	1313.3	1488.8	1752.4	1852.3
30°	1812.7	1765.8	1518.7	1299.9	1204.1	1188.7	1257.2	1420.9	1730.8	1912.5
32.5°	1857.4	1771.5	1465.2	1260.8	1190.8	1196.4	1252.5	1384.3	1707.1	1970.2
35°	1905.8	1789.5	1438.9	1299.4	1302.5	1351.9	1375.1	1418.3	1703.5	2048.4
37.5°	1971.7	1829.6	1470.3	1491.4	1598.5	1700.9	1681.9	1584.6	1745.2	2165.3
40°	2066.5	1900.2	1607.2	1818.3	2038.1	2204.4	2131.8	1886.8	1872.9	2333.6
42.5°	2204.4	2012.4	1850.2	2217.8	2590.5	2864.4	2669.8	2276.5	2096.3	2574.1
45°	2408.3	2194.1	2144.2	2639.4	3271.6	3703.0	3298.4	2692.0	2409.3	2938.0
47.5°	2690.9	2461.3	2419.6	3083.7	4099.4	4657.5	3995.5	3077.0	2765.6	3434.3
50°	3066.2	2821.2	2680.6	3569.7	5007.1	5630.5	4692.0	3448.7	3173.8	4040.8
52.5°	3561.5	3323.1	2984.9	4032.5	5940.4	6582.9	5391.6	3775.1	3680.4	4744.5
55°	4236.9	4078.3	3400.8	4474.2	6873.3	7541.0	6064.0	4083.0	4349.6	5580.6
57.5°	5075.0	5188.3	4000.6	4986.5	7711.9	8528.4	6739.4	4513.4	5218.6	6515.5
60°	5615.6	6664.2	5149.1	5743.8	8664.8	9645.0	7665.0	5331.9	6131.9	6850.6
62.5°	5484.8	7133.7	6524.7	6710.6	9541.0	10456.9	8572.1	6154.1	6303.9	6356.9
65°	5083.8	6754.8	6244.2	6898.5	9762.9	10502.7	8814.6	6048.0	5347.3	5189.8
67.5°	4531.9	6305.4	5577.5	6400.1	9361.8	9862.2	8363.1	5349.9	4132.4	3894.6
70°	3936.2	5808.1	5139.9	5841.1	8597.4	8746.1	7595.5	4705.4	3039.4	2630.2
72.5°	3371.0	5290.2	4840.3	5268.1	7577.5	7269.7	6596.3	4135.5	2213.2	1897.1
75°	2792.9	4526.2	4413.5	4587.5	6236.4	5726.2	5480.7	3424.0	1737.0	1372.5
77.5°	2155.0	3536.8	3796.2	3673.7	4389.8	4253.4	4248.2	2573.0	1269.0	915.8
80°	1474.9	2464.9	2965.8	2591.6	2849.0	2779.5	3199.6	1726.2	920.5	551.4
82.5°	866.9	1500.7	2064.4	1254.6	1575.3	1617.0	1905.3	839.7	541.6	127.2
85°	351.6	592.5	807.2	491.1	759.9	640.9	723.3	235.8	150.8	3.1
87.5°	88.5	189.5	132.8	55.1	88.0	80.8	63.8	28.8	6.2	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°
1034.8	0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
1169.1	2.5°	1149.1	1137.2	1107.9	1078.5	1054.8	1022.9	1001.8	976.6	952.4	930.8
1303.0	5°	1270.6	1231.4	1177.9	1129.0	1079.0	1030.7	982.8	932.3	886.0	857.7
1416.2	7.5°	1369.4	1300.4	1229.4	1167.1	1106.8	1050.2	986.9	925.6	853.0	814.4
1502.7	10°	1443.0	1352.4	1259.2	1187.7	1126.9	1071.8	1018.3	956.5	869.0	820.6
1555.2	12.5°	1491.4	1383.8	1274.7	1192.8	1124.9	1082.1	1058.5	1034.3	947.3	890.6
1593.9	15°	1524.9	1406.0	1285.5	1181.0	1097.6	1066.2	1089.9	1117.7	1062.1	996.7
1634.0	17.5°	1561.4	1434.8	1290.1	1149.1	1044.6	1031.2	1092.4	1156.8	1154.2	1089.3
1672.1	20°	1600.0	1460.0	1287.0	1097.6	980.2	992.0	1070.3	1144.9	1176.3	1141.3
1715.9	22.5°	1639.7	1484.2	1275.2	1030.7	920.0	957.0	1035.3	1100.7	1137.7	1126.9
1769.4	25°	1689.6	1518.2	1257.7	958.6	870.0	921.5	994.6	1047.6	1073.4	1072.9
1827.1	27.5°	1749.3	1563.5	1248.4	900.4	834.5	881.4	946.2	993.6	1011.6	1011.6
1898.6	30°	1818.8	1617.0	1238.1	862.3	813.9	839.7	890.1	936.4	954.5	954.5
1976.9	32.5°	1896.1	1668.5	1213.4	839.1	798.5	799.0	830.9	873.1	894.7	897.8
2074.7	35°	1988.7	1723.6	1159.4	820.6	780.5	759.3	774.8	809.8	835.5	842.2
2214.2	37.5°	2110.2	1791.0	1082.1	793.3	752.7	717.6	721.3	748.0	776.3	786.6
2406.7	40°	2273.4	1870.3	1001.8	754.2	713.5	671.8	670.3	689.8	717.6	729.0
2667.2	42.5°	2489.1	1965.6	925.1	716.6	666.2	623.4	620.9	636.3	660.5	672.3
3011.1	45°	2765.1	2082.4	859.2	687.3	619.8	577.6	576.6	589.5	610.6	622.9
3451.3	47.5°	3148.6	2199.3	814.4	671.8	583.3	540.0	542.1	553.4	572.5	581.2
4021.2	50°	3648.5	2234.8	791.8	671.8	563.7	506.6	516.9	526.1	540.6	545.7
4704.3	52.5°	4128.3	2117.4	771.2	675.9	566.3	478.3	500.4	507.1	519.4	521.5
5337.6	55°	4363.5	1820.4	742.9	677.0	582.3	454.1	487.0	499.4	504.0	503.5
5705.1	57.5°	4282.7	1471.8	695.0	672.9	593.1	438.6	470.5	494.2	497.3	492.7
5635.1	60°	3999.1	1083.7	658.4	642.5	588.9	434.0	445.3	482.9	487.5	481.3
5095.6	62.5°	3523.4	752.1	630.1	575.6	570.9	432.4	405.7	458.2	469.5	460.8
4095.8	65°	2773.8	531.3	542.6	504.5	531.8	424.2	364.5	428.3	443.8	430.4
2971.5	67.5°	1877.0	383.5	439.6	457.2	468.5	405.7	334.6	394.3	414.9	397.4
1906.9	70°	1013.7	269.2	290.4	385.1	397.9	373.8	307.9	359.9	383.5	364.5
1355.5	72.5°	598.7	193.6	203.4	309.4	331.5	329.0	278.0	319.7	348.5	325.9
935.4	75°	330.0	130.8	145.2	224.5	269.2	253.8	238.9	270.8	300.1	278.0
586.4	77.5°	147.8	78.3	100.9	147.2	211.6	174.0	184.8	211.1	238.4	215.2
326.4	80°	57.1	43.8	66.9	80.3	153.9	96.3	118.9	155.5	175.0	156.5
71.0	82.5°	7.2	19.6	28.8	31.4	89.6	51.0	69.0	97.8	96.3	83.4
0.0	85°	0.0	3.6	4.1	2.1	38.6	18.5	22.7	31.9	29.9	22.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°
1034.8	0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
926.7	2.5°	901.4	882.9	873.6	865.9	873.1	877.2	877.2	894.7	905.0	909.2
839.7	5°	794.4	759.9	736.7	722.8	727.4	732.6	738.2	760.4	775.3	785.1
779.4	7.5°	709.9	657.4	625.0	608.0	610.6	614.2	618.8	640.4	655.4	668.2
768.1	10°	668.2	594.1	551.4	530.8	527.2	525.1	523.6	536.4	547.8	558.1
814.4	12.5°	670.3	566.8	514.8	489.6	478.8	466.4	456.6	458.7	465.9	478.8
897.3	15°	696.5	558.1	495.8	464.4	446.3	431.9	420.1	417.5	420.1	422.1
992.0	17.5°	732.1	557.0	479.3	440.2	421.6	409.8	399.0	395.4	395.9	398.5
1054.8	20°	760.4	553.9	460.8	417.0	400.5	390.2	379.4	375.8	376.8	377.4
1061.0	22.5°	775.3	549.3	440.2	393.8	379.9	369.6	359.9	359.3	359.3	362.4
1027.6	25°	775.3	539.5	421.6	371.7	359.3	350.1	338.2	340.3	341.3	345.4
975.6	27.5°	756.8	521.0	406.7	352.6	339.8	330.5	319.7	322.3	323.8	328.4
924.1	30°	733.1	498.9	389.7	334.6	319.7	313.0	303.7	304.8	306.8	312.0
876.2	32.5°	707.9	472.6	375.8	316.6	301.7	296.5	286.2	287.8	289.8	295.5
828.8	35°	680.1	441.7	359.3	300.1	285.2	281.1	269.2	270.3	273.4	279.5
777.9	37.5°	650.7	416.5	342.9	284.2	268.7	264.6	252.3	253.3	256.9	264.1
724.3	40°	621.9	391.8	325.4	267.2	251.7	248.1	234.8	235.8	239.9	247.6
670.3	42.5°	590.5	372.7	302.7	249.7	233.2	229.6	217.3	218.8	223.4	231.2
620.3	45°	552.9	360.4	277.5	233.2	214.7	211.1	199.7	202.8	208.0	215.7
577.6	47.5°	514.3	355.2	256.4	215.7	195.6	192.5	183.3	188.4	194.1	200.3
541.1	50°	477.2	348.5	234.8	199.2	179.2	176.1	169.9	176.6	182.2	187.9
514.8	52.5°	435.0	334.1	215.2	184.8	165.3	164.2	161.1	167.3	172.5	177.6
492.2	55°	391.3	310.9	198.2	171.9	153.4	154.4	152.9	158.0	162.2	166.8
471.6	57.5°	353.2	281.6	184.8	158.0	143.1	146.2	144.1	146.7	149.3	155.0
446.9	60°	314.5	246.6	169.9	141.6	132.8	136.4	130.8	130.2	131.3	132.8
410.3	62.5°	262.6	210.0	151.4	127.2	121.5	123.0	112.2	104.0	104.0	105.5
359.3	65°	211.1	176.1	130.8	110.7	106.1	105.0	89.6	78.3	77.2	81.9
300.1	67.5°	173.5	146.2	110.2	92.2	89.1	90.1	78.8	67.4	66.4	71.6
244.5	70°	143.6	117.9	88.0	71.0	74.1	78.8	67.4	56.6	55.1	59.7
198.7	72.5°	114.3	92.2	67.4	52.5	61.3	66.9	55.1	44.8	43.8	47.9
153.4	75°	83.9	65.9	45.8	38.1	47.4	52.5	40.2	31.9	30.4	34.0
102.4	77.5°	52.0	37.1	28.8	22.7	32.4	35.0	21.1	18.5	18.0	20.6
62.3	80°	24.2	16.0	13.9	7.7	11.8	13.9	8.8	9.8	10.3	12.4
31.4	82.5°	6.7	2.6	0.5	0.0	0.0	4.1	2.1	4.1	5.1	7.7
2.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.6	4.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°
1034.8	0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
938.0	2.5°	959.6	980.2	1013.1	1047.1	1080.6	1114.6	1147.5	1159.4
829.9	5°	870.5	917.9	983.3	1053.3	1125.4	1198.5	1265.4	1295.8
718.2	7.5°	771.2	839.1	937.5	1047.1	1161.9	1276.7	1382.3	1431.2
607.5	10°	665.1	751.1	863.3	1011.6	1176.3	1334.9	1480.1	1543.4
510.2	12.5°	564.2	654.3	778.4	956.0	1165.0	1368.4	1542.9	1617.5
441.7	15°	479.8	559.6	693.5	890.1	1128.5	1370.4	1572.7	1654.6
403.6	17.5°	416.5	468.5	607.0	817.0	1080.6	1351.4	1583.0	1670.6
383.0	20°	385.1	399.5	494.7	723.3	1035.8	1333.4	1593.3	1685.5
366.5	22.5°	366.5	370.1	404.6	602.3	982.3	1327.7	1611.4	1706.1
351.6	25°	351.6	352.6	361.9	477.2	900.4	1324.1	1639.2	1734.4
336.2	27.5°	336.7	336.7	341.8	384.6	789.2	1308.7	1675.2	1768.4
320.7	30°	321.8	321.8	325.4	340.3	659.0	1278.3	1718.4	1812.7
305.3	32.5°	306.3	306.3	309.4	320.2	526.1	1240.2	1758.1	1857.4
289.3	35°	290.9	289.8	294.0	305.3	418.5	1191.8	1797.7	1905.8
273.4	37.5°	274.4	273.9	278.0	290.9	361.4	1135.7	1827.6	1971.7
257.4	40°	256.9	256.9	261.5	275.4	344.9	1065.1	1874.9	2066.5
240.9	42.5°	240.9	239.9	245.1	262.0	332.6	997.7	1959.9	2204.4
226.0	45°	225.5	223.4	228.1	249.2	310.9	974.0	2118.4	2408.3
211.6	47.5°	211.1	205.9	210.0	233.7	291.4	1062.6	2377.9	2690.9
198.7	50°	199.2	189.5	193.1	218.3	276.5	1254.6	2714.6	3066.2
186.9	52.5°	186.9	174.0	176.1	199.2	263.1	1437.4	3079.6	3561.5
175.0	55°	174.0	159.6	160.6	180.2	244.0	1464.6	3435.9	4236.9
161.7	57.5°	159.6	146.2	146.2	162.7	230.1	1269.5	3709.7	5075.0
145.2	60°	143.6	134.9	132.3	148.8	242.5	895.8	3741.7	5615.6
124.1	62.5°	126.1	121.5	117.9	135.4	251.7	530.8	3484.8	5484.8
97.8	65°	106.1	105.0	102.4	148.8	212.1	313.5	2991.6	5083.8
83.4	67.5°	89.1	87.5	87.5	156.0	161.1	197.2	2337.2	4531.9
71.0	70°	76.7	71.0	71.0	117.9	97.8	136.4	1632.0	3936.2
58.7	72.5°	64.4	58.2	54.1	94.2	73.1	99.9	1019.8	3371.0
44.8	75°	51.5	46.8	41.7	62.3	54.6	75.7	592.5	2792.9
28.3	77.5°	37.1	35.0	29.3	45.8	39.6	54.6	352.6	2155.0
17.5	80°	19.0	19.6	18.5	26.3	26.8	37.1	200.8	1474.9
11.3	82.5°	11.3	8.8	9.8	12.9	15.4	21.1	75.7	866.9
8.2	85°	7.2	4.6	4.6	6.2	7.7	8.2	23.2	351.6
4.1	87.5°	3.6	1.5	2.1	3.1	2.6	2.1	1.0	88.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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