

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: P947674

Luminaire Tested: **GALN-SB2D-950-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947674  
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-SB2D-950-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

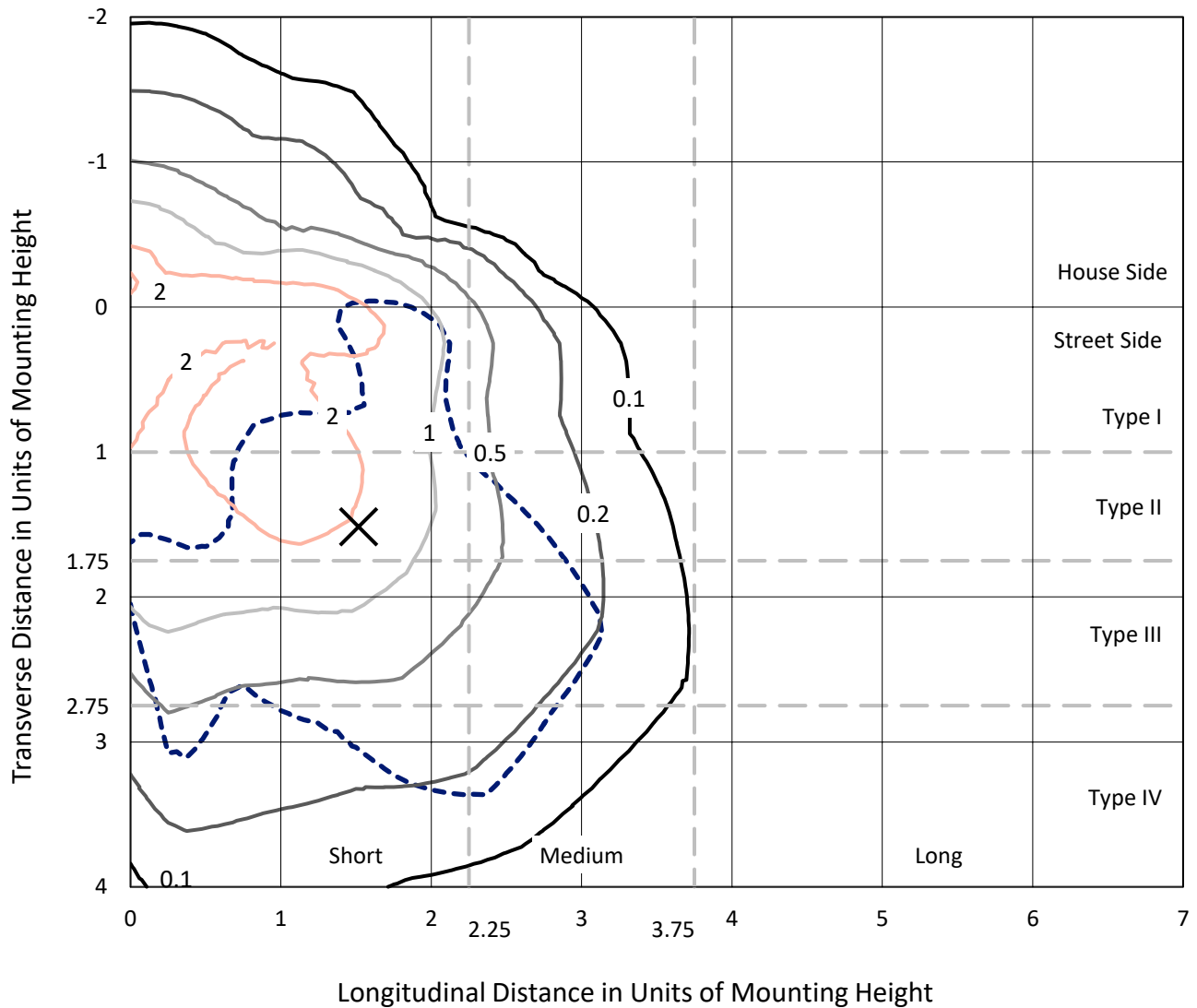
Lumens per Lamp: N/A  
Luminaire Lumens: 10804 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

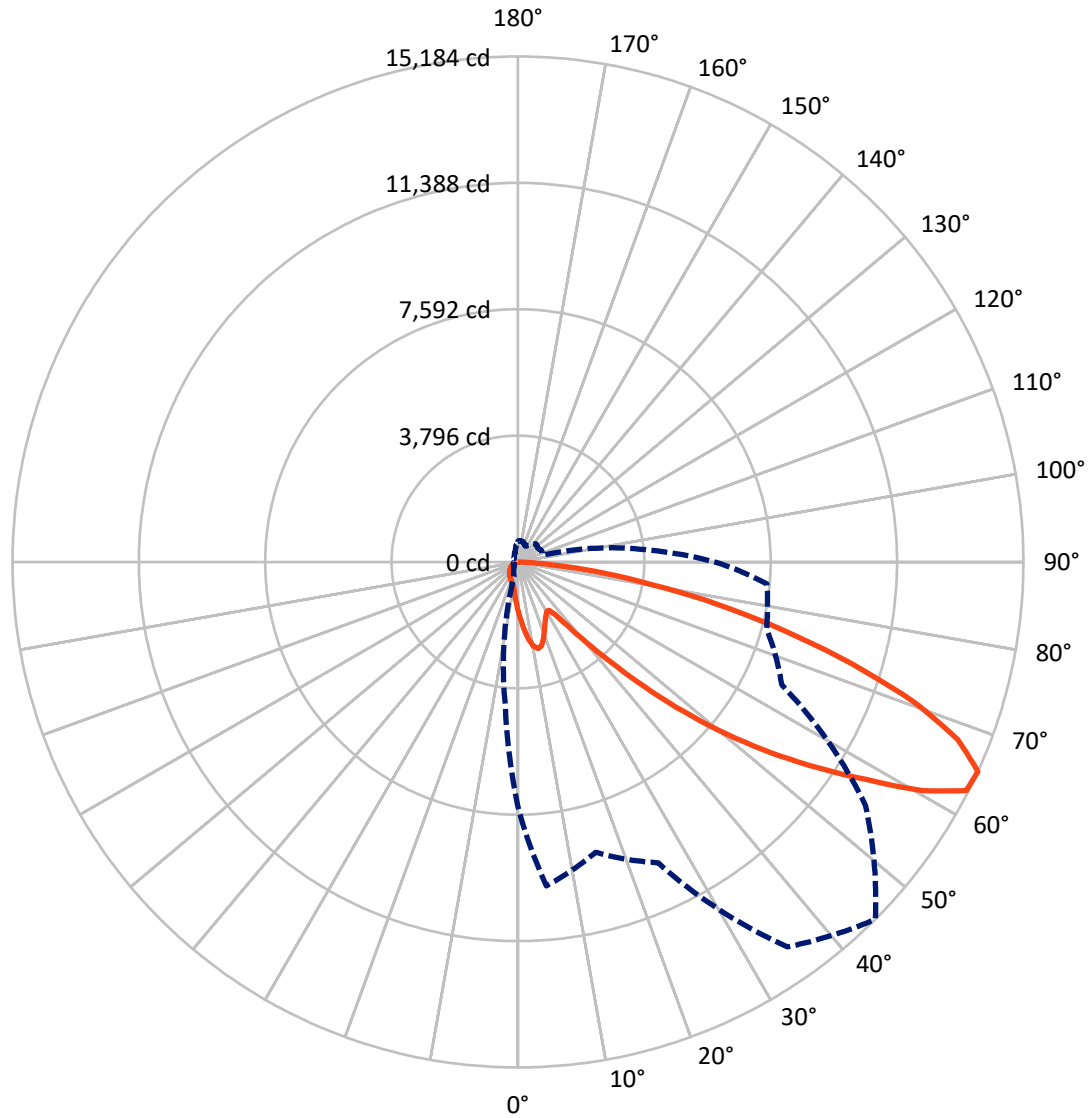
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	2147.5	0.0	2147.5
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	8656.5	0.0	8656.5
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	10804.0	0.0	10804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	1.4
10°-20°	441.5	4.1
20°-30°	650.5	6.0
30°-40°	835.7	7.7
40°-50°	1351.5	12.5
50°-60°	2370.0	21.9
60°-70°	2965.5	27.4
70°-80°	1732.9	16.0
80°-90°	309.2	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°	10804.0	100.0
0°-180°	10804.0	100.0

**Coefficient of Utilization**



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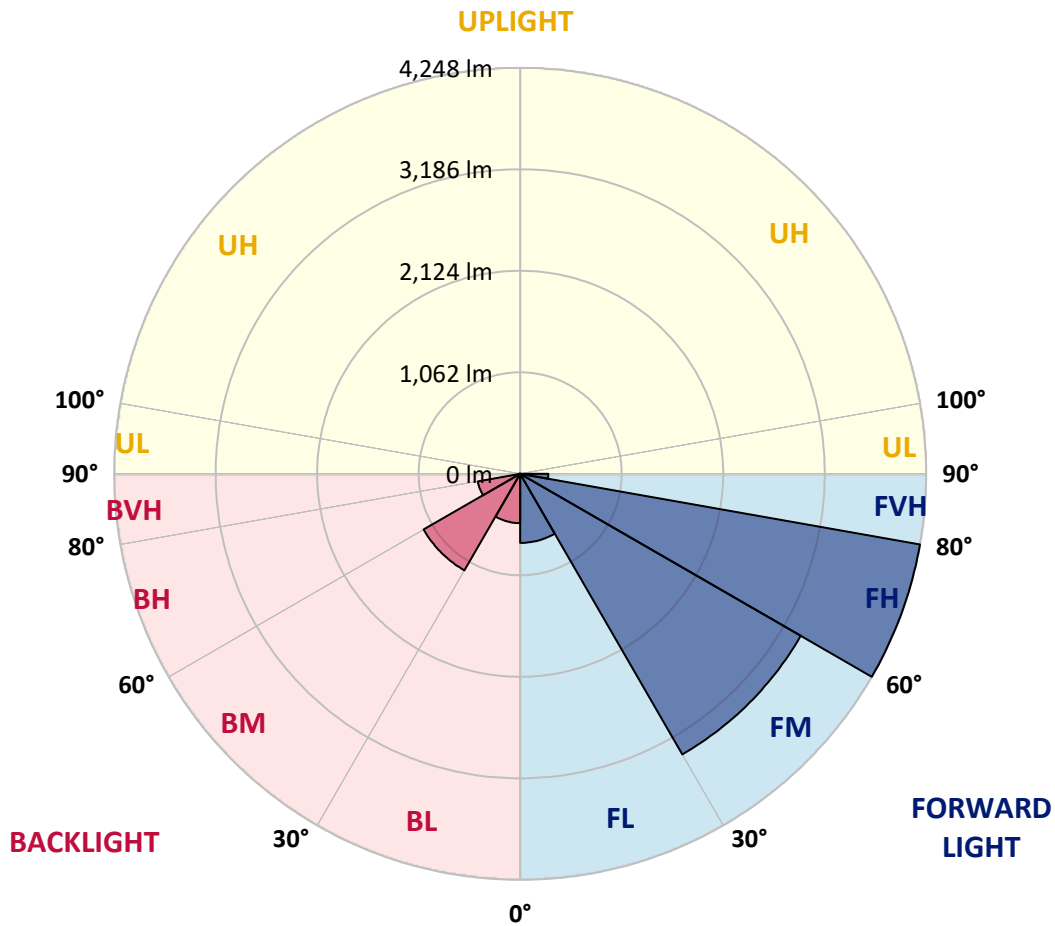
CATALOG NUMBER: GALN-SB2D-950-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.9	6.7			
FM (30°-60°)	3390.4	31.4			
FH (60°-80°)	4248.5	39.3			G2/5000
FVH (80°-90°)	294.7	2.7			G3/500
BL (0°-30°)	516.3	4.8	B2/1000		
BM (30°-60°)	1166.7	10.8	B2/2500		
BH (60°-80°)	449.9	4.2	B1/500		G1/500
BVH (80°-90°)	14.5	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°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1676.1	1688.8	1717.1	1731.9	1755.0	1756.5	1756.5	1736.4	1735.7	1694.7
5°	1873.4	1903.1	1970.1	2039.3	2054.2	2057.9	2050.5	2010.3	1980.5	1900.9
7.5°	2069.1	2126.4	2228.4	2320.7	2350.4	2350.4	2332.6	2267.1	2206.1	2090.7
10°	2231.4	2303.6	2442.0	2545.4	2579.7	2572.2	2535.8	2453.2	2369.1	2229.1
12.5°	2338.5	2419.7	2571.5	2654.9	2689.8	2670.5	2628.8	2548.4	2459.9	2312.5
15°	2392.1	2477.0	2608.7	2652.6	2642.9	2622.9	2617.6	2578.9	2512.0	2374.3
17.5°	2415.2	2494.1	2585.6	2558.1	2476.2	2460.6	2512.7	2561.8	2545.4	2427.9
20°	2436.8	2503.0	2530.6	2408.5	2265.6	2251.5	2351.2	2491.1	2562.6	2477.7
22.5°	2466.6	2507.5	2450.9	2250.7	2096.6	2063.9	2174.0	2384.7	2567.8	2541.0
25°	2507.5	2518.7	2363.1	2101.1	1946.3	1913.6	2016.3	2266.3	2558.8	2609.5
27.5°	2556.6	2533.5	2279.0	1976.1	1826.5	1796.0	1898.7	2152.5	2533.5	2677.9
30°	2620.6	2552.9	2195.6	1879.3	1740.9	1718.5	1817.5	2054.2	2502.3	2765.0
32.5°	2685.4	2561.1	2118.2	1822.7	1721.5	1729.7	1810.8	2001.4	2468.0	2848.4
35°	2755.3	2587.1	2080.3	1878.6	1883.0	1954.5	1988.0	2050.5	2462.8	2961.5
37.5°	2850.6	2645.2	2125.7	2156.2	2311.0	2459.1	2431.6	2290.9	2523.1	3130.5
40°	2987.6	2747.1	2323.7	2628.8	2946.6	3187.0	3082.1	2727.8	2707.7	3373.8
42.5°	3187.0	2909.4	2675.0	3206.4	3745.2	4141.2	3859.9	3291.2	3030.7	3721.4
45°	3481.8	3172.1	3099.9	3815.9	4729.9	5353.6	4768.6	3891.9	3483.2	4247.6
47.5°	3890.4	3558.4	3498.1	4458.3	5926.7	6733.5	5776.4	4448.6	3998.3	4965.1
50°	4432.9	4078.7	3875.5	5160.9	7238.9	8140.2	6783.4	4986.0	4588.5	5841.9
52.5°	5148.9	4804.3	4315.4	5830.0	8588.3	9517.1	7794.9	5457.8	5320.9	6859.3
55°	6125.4	5896.2	4916.7	6468.6	9936.9	10902.3	8766.9	5902.9	6288.4	8068.0
57.5°	7337.1	7500.9	5783.8	7209.1	11149.4	12329.8	9743.4	6525.1	7544.8	9419.6
60°	8118.6	9634.7	7444.3	8304.0	12527.0	13944.1	11081.6	7708.5	8865.2	9904.2
62.5°	7929.6	10313.5	9433.0	9701.7	13793.8	15117.9	12393.1	8897.2	9113.7	9190.4
65°	7349.8	9765.7	9027.4	9973.4	14114.6	15184.1	12743.6	8743.8	7730.9	7503.1
67.5°	6551.9	9116.0	8063.6	9252.9	13534.8	14258.2	12090.9	7734.6	5974.4	5630.5
70°	5690.8	8397.0	7430.9	8444.6	12429.5	12644.6	10981.1	6802.7	4394.2	3802.5
72.5°	4873.6	7648.2	6997.7	7616.2	10955.1	10510.0	9536.5	5978.8	3199.7	2742.7
75°	4037.7	6543.7	6380.7	6632.3	9016.2	8278.7	7923.6	4950.2	2511.2	1984.3
77.5°	3115.6	5113.2	5488.3	5311.2	6346.5	6149.3	6141.8	3719.9	1834.7	1324.1
80°	2132.4	3563.6	4287.8	3746.7	4118.9	4018.4	4625.7	2495.6	1330.8	797.1
82.5°	1253.4	2169.6	2984.6	1813.8	2277.5	2337.8	2754.6	1213.9	783.0	183.8
85°	508.3	856.7	1167.0	710.0	1098.6	926.6	1045.7	340.9	218.1	4.5
87.5°	128.0	273.9	192.0	79.6	127.3	116.9	92.3	41.7	8.9	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°
1496.0	0°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
1690.3	2.5°	1661.2	1644.1	1601.7	1559.3	1525.0	1478.9	1448.4	1411.9	1376.9	1345.7
1883.8	5°	1836.9	1780.3	1702.9	1632.2	1560.0	1490.1	1420.8	1347.9	1280.9	1240.0
2047.5	7.5°	1979.8	1880.1	1777.3	1687.3	1600.2	1518.3	1426.8	1338.2	1233.3	1177.5
2172.6	10°	2086.2	1955.2	1820.5	1717.1	1629.2	1549.6	1472.2	1382.9	1256.3	1186.4
2248.5	12.5°	2156.2	2000.6	1842.8	1724.5	1626.3	1564.5	1530.2	1495.3	1369.5	1287.6
2304.3	15°	2204.6	2032.6	1858.5	1707.4	1586.8	1541.4	1575.6	1615.8	1535.5	1440.9
2362.4	17.5°	2257.4	2074.3	1865.2	1661.2	1510.1	1490.8	1579.4	1672.4	1668.7	1574.9
2417.4	20°	2313.2	2110.8	1860.7	1586.8	1417.1	1434.2	1547.4	1655.3	1700.7	1650.1
2480.7	22.5°	2370.5	2145.8	1843.6	1490.1	1330.0	1383.6	1496.8	1591.3	1644.9	1629.2
2558.1	25°	2442.7	2194.9	1818.3	1385.9	1257.8	1332.3	1438.0	1514.6	1551.8	1551.1
2641.5	27.5°	2529.1	2260.4	1804.9	1301.8	1206.5	1274.2	1368.0	1436.5	1462.5	1462.5
2744.9	30°	2629.6	2337.8	1790.0	1246.7	1176.7	1213.9	1286.9	1353.9	1379.9	1379.9
2858.0	32.5°	2741.2	2412.2	1754.3	1213.2	1154.4	1155.1	1201.3	1262.3	1293.6	1298.0
2999.5	35°	2875.2	2491.9	1676.1	1186.4	1128.3	1097.8	1120.1	1170.8	1208.0	1217.6
3201.2	37.5°	3050.8	2589.4	1564.5	1146.9	1088.1	1037.5	1042.7	1081.4	1122.4	1137.3
3479.5	40°	3286.8	2704.0	1448.4	1090.4	1031.6	971.3	969.1	997.3	1037.5	1053.9
3856.1	42.5°	3598.6	2841.7	1337.5	1036.0	963.1	901.3	897.6	919.9	954.9	972.0
4353.3	45°	3997.5	3010.6	1242.2	993.6	896.1	835.1	833.6	852.2	882.7	900.6
4989.7	47.5°	4552.0	3179.6	1177.5	971.3	843.3	780.8	783.7	800.1	827.6	840.3
5813.6	50°	5274.7	3230.9	1144.7	971.3	815.0	732.4	747.3	760.7	781.5	788.9
6801.3	52.5°	5968.4	3061.2	1114.9	977.2	818.7	691.4	723.4	733.1	751.0	754.0
7716.7	55°	6308.5	2631.8	1074.0	978.7	841.8	656.5	704.1	722.0	728.7	727.9
8248.1	57.5°	6191.7	2127.9	1004.8	972.8	857.4	634.1	680.3	714.5	719.0	712.3
8146.9	60°	5781.6	1566.7	951.9	928.9	851.5	627.4	643.8	698.1	704.8	695.9
7366.9	62.5°	5093.9	1087.4	911.0	832.1	825.4	625.2	586.5	662.4	678.8	666.1
5921.5	65°	4010.2	768.1	784.5	729.4	768.8	613.3	527.0	619.2	641.6	622.2
4296.0	67.5°	2713.7	554.5	635.6	660.9	677.3	586.5	483.8	570.1	599.9	574.6
2756.8	70°	1465.5	389.3	419.8	556.7	575.3	540.3	445.1	520.3	554.5	527.0
1959.7	72.5°	865.6	279.9	294.0	447.3	479.3	475.6	401.9	462.2	503.9	471.1
1352.4	75°	477.1	189.0	209.9	324.5	389.3	366.9	345.3	391.5	433.9	401.9
847.7	77.5°	213.6	113.1	145.9	212.9	305.9	251.6	267.2	305.2	344.6	311.1
471.9	80°	82.6	63.3	96.8	116.1	222.5	139.2	171.9	224.8	253.1	226.3
102.7	82.5°	10.4	28.3	41.7	45.4	129.5	73.7	99.7	141.4	139.2	120.6
0.0	85°	0.0	5.2	6.0	3.0	55.8	26.8	32.7	46.1	43.2	32.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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°
1496.0	0°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
1339.7	2.5°	1303.2	1276.4	1263.0	1251.9	1262.3	1268.3	1268.3	1293.6	1308.4	1314.4
1213.9	5°	1148.4	1098.6	1065.1	1045.0	1051.7	1059.1	1067.3	1099.3	1120.9	1135.0
1126.8	7.5°	1026.4	950.4	903.6	879.0	882.7	887.9	894.6	925.9	947.5	966.1
1110.5	10°	966.1	858.9	797.1	767.4	762.1	759.2	756.9	775.5	791.9	806.8
1177.5	12.5°	969.1	819.5	744.3	707.8	692.2	674.3	660.2	663.2	673.6	692.2
1297.3	15°	1007.0	806.8	716.7	671.3	645.3	624.5	607.3	603.6	607.3	610.3
1434.2	17.5°	1058.4	805.3	692.9	636.4	609.6	592.4	576.8	571.6	572.4	576.1
1525.0	20°	1099.3	800.8	666.1	602.9	579.1	564.2	548.5	543.3	544.8	545.6
1534.0	22.5°	1120.9	794.1	636.4	569.4	549.3	534.4	520.3	519.5	519.5	524.0
1485.6	25°	1120.9	780.0	609.6	537.4	519.5	506.1	489.0	492.0	493.5	499.4
1410.4	27.5°	1094.1	753.2	588.0	509.8	491.2	477.8	462.2	465.9	468.2	474.9
1336.0	30°	1059.9	721.2	563.4	483.8	462.2	452.5	439.1	440.6	443.6	451.0
1266.8	32.5°	1023.4	683.3	543.3	457.7	436.1	428.7	413.8	416.1	419.0	427.2
1198.3	35°	983.2	638.6	519.5	433.9	412.3	406.4	389.3	390.7	395.2	404.1
1124.6	37.5°	940.8	602.1	495.7	410.8	388.5	382.6	364.7	366.2	371.4	381.8
1047.2	40°	899.1	566.4	470.4	386.3	364.0	358.7	339.4	340.9	346.8	358.0
969.1	42.5°	853.7	538.9	437.6	361.0	337.2	332.0	314.1	316.3	323.0	334.2
896.9	45°	799.4	521.0	401.2	337.2	310.4	305.2	288.8	293.2	300.7	311.9
835.1	47.5°	743.5	513.6	370.7	311.9	282.8	278.4	265.0	272.4	280.6	289.5
782.2	50°	690.0	503.9	339.4	288.0	259.0	254.5	245.6	255.3	263.5	271.7
744.3	52.5°	628.9	483.0	311.1	267.2	238.9	237.4	233.0	241.9	249.3	256.8
711.5	55°	565.7	449.5	286.5	248.6	221.8	223.3	221.1	228.5	234.4	241.1
681.8	57.5°	510.6	407.1	267.2	228.5	206.9	211.4	208.4	212.1	215.8	224.0
646.0	60°	454.8	356.5	245.6	204.7	192.0	197.2	189.0	188.3	189.8	192.0
593.2	62.5°	379.6	303.7	218.8	183.8	175.7	177.9	162.3	150.3	150.3	152.6
519.5	65°	305.2	254.5	189.0	160.0	153.3	151.8	129.5	113.1	111.6	118.3
433.9	67.5°	250.8	211.4	159.3	133.2	128.8	130.2	113.9	97.5	96.0	103.5
353.5	70°	207.7	170.4	127.3	102.7	107.2	113.9	97.5	81.9	79.6	86.3
287.3	72.5°	165.2	133.2	97.5	75.9	88.6	96.8	79.6	64.8	63.3	69.2
221.8	75°	121.3	95.3	66.2	55.1	68.5	75.9	58.1	46.1	43.9	49.1
148.1	77.5°	75.2	53.6	41.7	32.7	46.9	50.6	30.5	26.8	26.0	29.8
90.1	80°	35.0	23.1	20.1	11.2	17.1	20.1	12.7	14.1	14.9	17.9
45.4	82.5°	9.7	3.7	0.7	0.0	0.0	6.0	3.0	6.0	7.4	11.2
3.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.7	6.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1496.0	0°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
1356.1	2.5°	1387.3	1417.1	1464.7	1513.9	1562.2	1611.4	1659.0	1676.1
1199.8	5°	1258.6	1327.1	1421.6	1522.8	1627.0	1732.7	1829.4	1873.4
1038.3	7.5°	1114.9	1213.2	1355.3	1513.9	1679.8	1845.8	1998.4	2069.1
878.3	10°	961.6	1085.9	1248.2	1462.5	1700.7	1929.9	2139.8	2231.4
737.6	12.5°	815.7	946.0	1125.4	1382.1	1684.3	1978.3	2230.6	2338.5
638.6	15°	693.7	809.0	1002.5	1286.9	1631.5	1981.3	2273.8	2392.1
583.5	17.5°	602.1	677.3	877.5	1181.2	1562.2	1953.7	2288.7	2415.2
553.7	20°	556.7	577.6	715.3	1045.7	1497.5	1927.7	2303.6	2436.8
529.9	22.5°	529.9	535.1	585.0	870.8	1420.1	1919.5	2329.6	2466.6
508.3	25°	508.3	509.8	523.2	690.0	1301.8	1914.3	2369.8	2507.5
486.0	27.5°	486.8	486.8	494.2	556.0	1141.0	1892.0	2421.9	2556.6
463.7	30°	465.2	465.2	470.4	492.0	952.7	1848.1	2484.4	2620.6
441.4	32.5°	442.8	442.8	447.3	462.9	760.7	1793.0	2541.7	2685.4
418.3	35°	420.5	419.0	425.0	441.4	605.1	1723.0	2599.0	2755.3
395.2	37.5°	396.7	396.0	401.9	420.5	522.5	1641.9	2642.2	2850.6
372.1	40°	371.4	371.4	378.1	398.2	498.7	1539.9	2710.7	2987.6
348.3	42.5°	348.3	346.8	354.3	378.8	480.8	1442.4	2833.5	3187.0
326.7	45°	326.0	323.0	329.7	360.2	449.5	1408.2	3062.7	3481.8
305.9	47.5°	305.2	297.7	303.7	337.9	421.3	1536.2	3437.8	3890.4
287.3	50°	288.0	273.9	279.1	315.6	399.7	1813.8	3924.6	4432.9
270.2	52.5°	270.2	251.6	254.5	288.0	380.3	2078.0	4452.3	5148.9
253.1	55°	251.6	230.7	232.2	260.5	352.8	2117.5	4967.3	6125.4
233.7	57.5°	230.7	211.4	211.4	235.2	332.7	1835.4	5363.3	7337.1
209.9	60°	207.7	195.0	191.3	215.1	350.6	1295.1	5409.4	8118.6
179.4	62.5°	182.3	175.7	170.4	195.7	364.0	767.4	5038.0	7929.6
141.4	65°	153.3	151.8	148.1	215.1	306.6	453.3	4325.0	7349.8
120.6	67.5°	128.8	126.5	126.5	225.5	233.0	285.1	3379.0	6551.9
102.7	70°	110.9	102.7	102.7	170.4	141.4	197.2	2359.4	5690.8
84.8	72.5°	93.0	84.1	78.1	136.2	105.7	144.4	1474.4	4873.6
64.8	75°	74.4	67.7	60.3	90.1	78.9	109.4	856.7	4037.7
40.9	77.5°	53.6	50.6	42.4	66.2	57.3	78.9	509.8	3115.6
25.3	80°	27.5	28.3	26.8	38.0	38.7	53.6	290.3	2132.4
16.4	82.5°	16.4	12.7	14.1	18.6	22.3	30.5	109.4	1253.4
11.9	85°	10.4	6.7	6.7	8.9	11.2	11.9	33.5	508.3
6.0	87.5°	5.2	2.2	3.0	4.5	3.7	3.0	1.5	128.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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