

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: P951225

Luminaire Tested: **GALN-SB5B-940-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951225  
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-SB5B-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

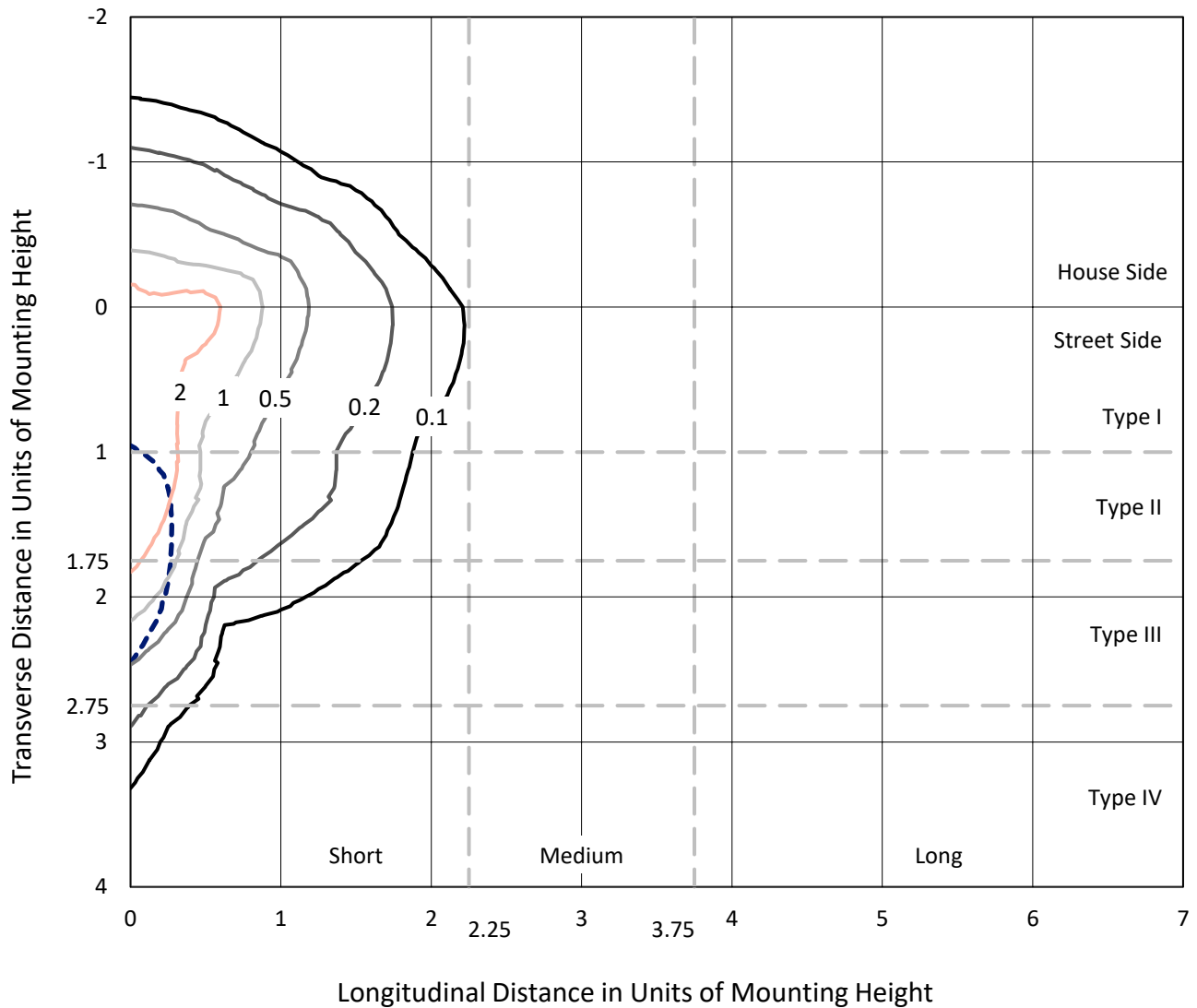
Lumens per Lamp: N/A  
Luminaire Lumens: 15731 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

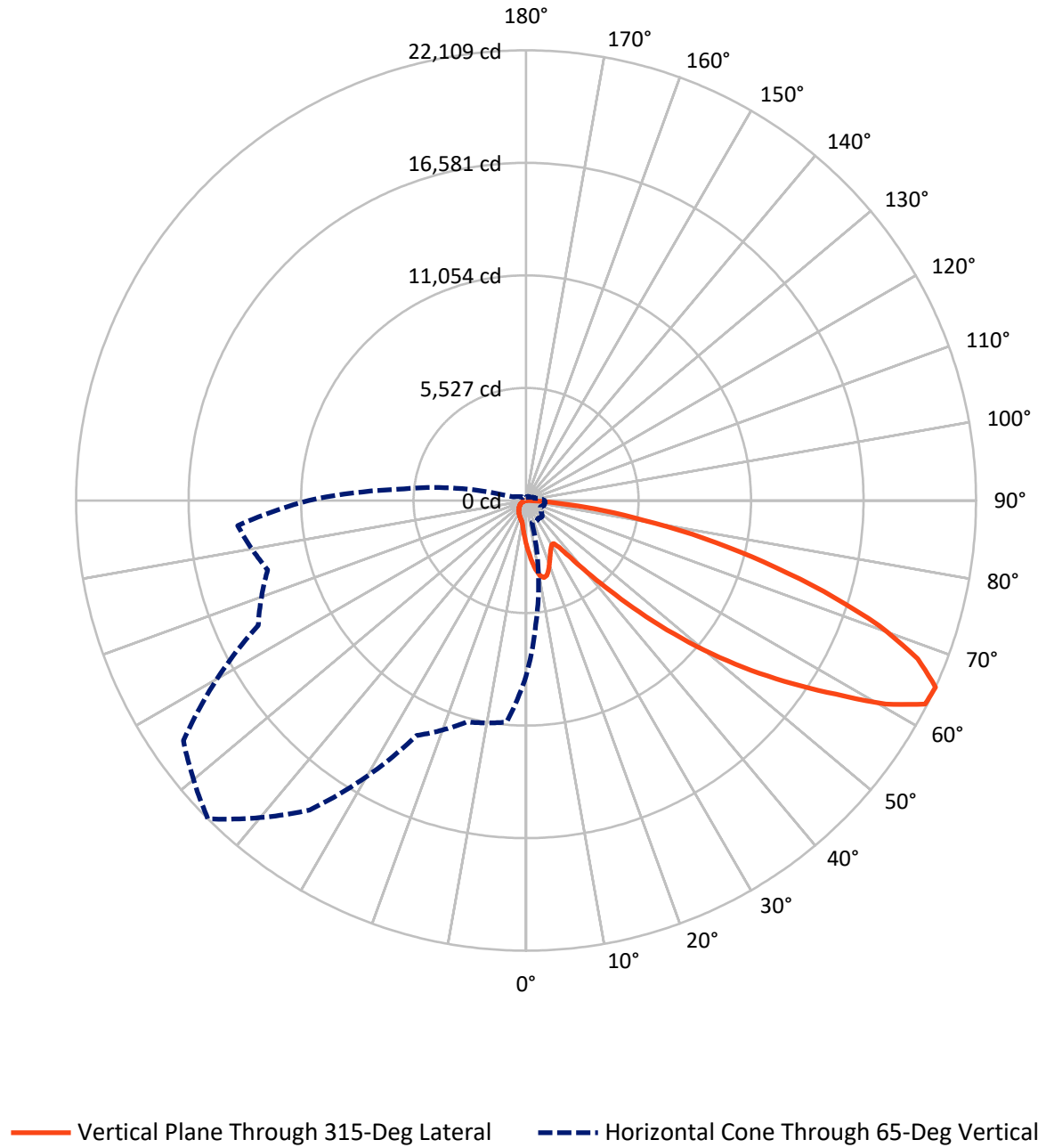
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2203.0	0.0	2203.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	13528.0	0.0	13528.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	15731.0	0.0	15731.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.5	1.4
10°-20°	642.9	4.1
20°-30°	947.1	6.0
30°-40°	1216.7	7.7
40°-50°	1967.8	12.5
50°-60°	3450.8	21.9
60°-70°	4317.9	27.4
70°-80°	2523.2	16.0
80°-90°	450.2	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°	15731.0	100.0
0°-180°	15731.0	100.0

**Coefficient of Utilization**



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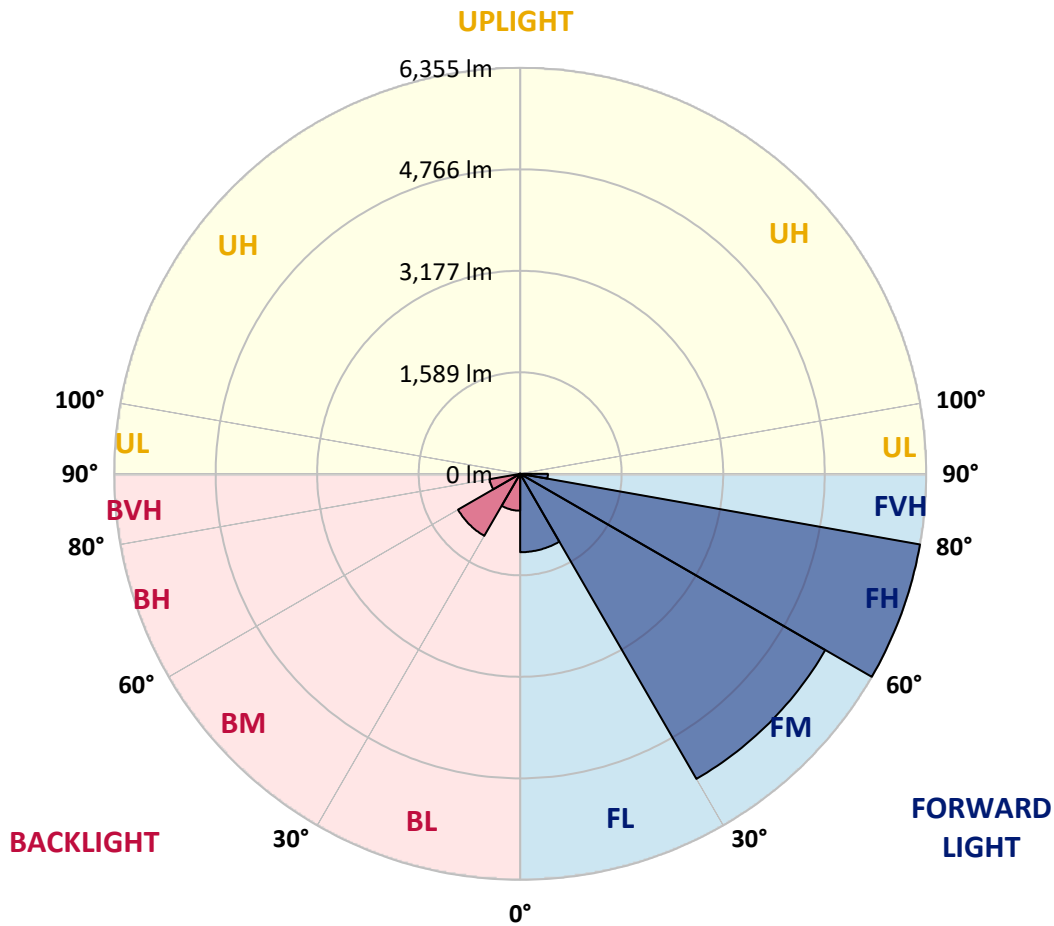
CATALOG NUMBER: GALN-SB5B-940-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.0	7.8			
FM (30°-60°)	5513.5	35.0			
FH (60°-80°)	6354.6	40.4			G3/7500
FVH (80°-90°)	432.9	2.8			G3/500
BL (0°-30°)	577.4	3.7	B2/1000		
BM (30°-60°)	1121.8	7.1	B2/2500		
BH (60°-80°)	486.4	3.1	B1/500		G1/500
BVH (80°-90°)	17.3	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°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
2.5°	2461.1	2418.8	2393.9	2332.1	2270.4	2220.5	2153.3	2108.9	2055.8	2004.8
5°	2742.8	2674.6	2592.2	2479.5	2376.6	2271.4	2169.6	2068.8	1962.6	1865.1
7.5°	2981.3	2882.6	2737.4	2587.9	2456.8	2330.0	2210.8	2077.5	1948.5	1795.7
10°	3163.3	3037.6	2846.9	2650.7	2500.1	2372.2	2256.3	2143.6	2013.5	1829.3
12.5°	3273.9	3139.5	2913.0	2683.2	2510.9	2367.9	2277.9	2228.1	2177.2	1994.0
15°	3355.1	3209.9	2959.6	2706.0	2486.0	2310.5	2244.3	2294.2	2352.7	2235.7
17.5°	3439.7	3286.9	3020.3	2715.8	2418.8	2198.8	2170.7	2299.6	2435.1	2429.7
20°	3519.9	3368.1	3073.4	2709.3	2310.5	2063.4	2088.3	2253.0	2410.2	2476.3
22.5°	3612.0	3451.6	3124.3	2684.3	2169.6	1936.6	2014.6	2179.3	2317.0	2395.0
25°	3724.7	3556.7	3195.8	2647.5	2017.9	1831.5	1939.8	2093.7	2205.3	2259.5
27.5°	3846.1	3682.4	3291.2	2628.0	1895.4	1756.7	1855.3	1991.8	2091.5	2129.5
30°	3996.7	3828.7	3403.9	2606.3	1815.2	1713.3	1767.5	1873.7	1971.3	2009.2
32.5°	4161.4	3991.3	3512.3	2554.3	1766.4	1680.8	1681.9	1749.1	1838.0	1883.5
35°	4367.3	4186.3	3628.2	2440.5	1727.4	1642.9	1598.5	1631.0	1704.7	1758.8
37.5°	4661.0	4442.1	3770.2	2277.9	1670.0	1584.4	1510.7	1518.3	1574.6	1634.2
40°	5066.3	4785.6	3937.1	2108.9	1587.6	1502.0	1414.2	1411.0	1452.2	1510.7
42.5°	5614.7	5239.7	4137.6	1947.4	1508.5	1402.3	1312.4	1306.9	1339.5	1390.4
45°	6338.6	5820.6	4383.6	1808.7	1446.7	1304.8	1215.9	1213.7	1240.8	1285.3
47.5°	7265.1	6627.9	4629.6	1714.4	1414.2	1227.8	1136.8	1141.1	1165.0	1205.1
50°	8464.8	7680.2	4704.3	1666.7	1414.2	1186.7	1066.4	1088.0	1107.5	1137.9
52.5°	9902.9	8690.2	4457.3	1623.4	1422.9	1192.1	1006.8	1053.4	1067.4	1093.5
55°	11235.8	9185.5	3832.0	1563.8	1425.1	1225.7	955.8	1025.2	1051.2	1060.9
57.5°	12009.6	9015.3	3098.3	1463.0	1416.4	1248.4	923.3	990.5	1040.4	1046.9
60°	11862.2	8418.2	2281.2	1386.1	1352.5	1239.8	913.6	937.4	1016.5	1026.3
62.5°	10726.5	7416.9	1583.3	1326.5	1211.6	1201.8	910.3	854.0	964.5	988.3
65°	8621.9	5839.0	1118.4	1142.2	1062.0	1119.5	893.0	767.3	901.6	934.2
67.5°	6255.1	3951.2	807.4	925.5	962.3	986.2	854.0	704.4	830.1	873.5
70°	4014.0	2133.8	566.8	611.2	810.6	837.7	786.8	648.1	757.5	807.4
72.5°	2853.4	1260.3	407.5	428.1	651.3	697.9	692.5	585.2	673.0	733.7
75°	1969.1	694.7	275.3	305.6	472.5	566.8	534.3	502.8	570.0	631.8
77.5°	1234.3	311.0	164.7	212.4	309.9	445.4	366.3	389.0	444.3	501.8
80°	687.1	120.3	92.1	140.9	169.1	324.0	202.7	250.3	327.3	368.5
82.5°	149.6	15.2	41.2	60.7	66.1	188.6	107.3	145.2	205.9	202.7
85°	0.0	0.0	7.6	8.7	4.3	81.3	39.0	47.7	67.2	62.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°
2178.2	0°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
1959.3	2.5°	1950.7	1897.6	1858.5	1839.0	1822.8	1838.0	1846.6	1846.6	1883.5	1905.1
1805.4	5°	1767.5	1672.2	1599.5	1550.8	1521.5	1531.3	1542.1	1554.0	1600.6	1632.1
1714.4	7.5°	1640.7	1494.4	1383.9	1315.6	1279.9	1285.3	1292.9	1302.6	1348.1	1379.6
1727.4	10°	1616.9	1406.6	1250.6	1160.6	1117.3	1109.7	1105.4	1102.1	1129.2	1153.1
1874.8	12.5°	1714.4	1411.0	1193.2	1083.7	1030.6	1007.8	981.8	961.2	965.6	980.7
2098.0	15°	1888.9	1466.2	1174.7	1043.6	977.5	939.6	909.2	884.3	878.9	884.3
2293.1	17.5°	2088.3	1541.0	1172.6	1008.9	926.6	887.6	862.6	839.9	832.3	833.4
2402.6	20°	2220.5	1600.6	1166.1	969.9	877.8	843.1	821.4	798.7	791.1	793.3
2372.2	22.5°	2233.5	1632.1	1156.3	926.6	829.0	799.8	778.1	757.5	756.4	756.4
2258.4	25°	2163.1	1632.1	1135.7	887.6	782.4	756.4	736.9	712.0	716.3	718.5
2129.5	27.5°	2053.6	1593.0	1096.7	856.1	742.3	715.2	695.7	673.0	678.4	681.6
2009.2	30°	1945.2	1543.2	1050.1	820.4	704.4	673.0	658.9	639.4	641.6	645.9
1890.0	32.5°	1844.5	1490.1	994.8	791.1	666.5	635.0	624.2	602.5	605.8	610.1
1772.9	35°	1744.8	1431.6	929.8	756.4	631.8	600.4	591.7	566.8	568.9	575.4
1655.9	37.5°	1637.5	1369.8	876.7	721.7	598.2	565.7	557.0	531.0	533.2	540.8
1534.5	40°	1524.8	1309.1	824.7	684.9	562.4	529.9	522.3	494.2	496.3	505.0
1415.3	42.5°	1411.0	1243.0	784.6	637.2	525.6	490.9	483.3	457.3	460.6	470.3
1311.3	45°	1305.9	1163.9	758.6	584.1	490.9	451.9	444.3	420.5	427.0	437.8
1223.5	47.5°	1215.9	1082.6	747.8	539.7	454.1	411.8	405.3	385.8	396.6	408.6
1148.7	50°	1139.0	1004.6	733.7	494.2	419.4	377.1	370.6	357.6	371.7	383.6
1097.8	52.5°	1083.7	915.7	703.3	453.0	389.0	347.9	345.7	339.2	352.2	363.0
1059.9	55°	1036.0	823.6	654.6	417.2	362.0	322.9	325.1	321.9	332.7	341.4
1037.1	57.5°	992.7	743.4	592.8	389.0	332.7	301.3	307.8	303.4	308.9	314.3
1013.3	60°	940.7	662.1	519.1	357.6	298.0	279.6	287.2	275.3	274.2	276.3
969.9	62.5°	863.7	552.7	442.2	318.6	267.7	255.8	259.0	236.2	218.9	218.9
906.0	65°	756.4	444.3	370.6	275.3	233.0	223.2	221.1	188.6	164.7	162.6
836.6	67.5°	631.8	365.2	307.8	231.9	194.0	187.5	189.6	165.8	142.0	139.8
767.3	70°	514.8	302.4	248.2	185.3	149.6	156.1	165.8	142.0	119.2	116.0
686.0	72.5°	418.3	240.6	194.0	142.0	110.5	129.0	140.9	116.0	94.3	92.1
585.2	75°	322.9	176.6	138.7	96.4	80.2	99.7	110.5	84.5	67.2	63.9
453.0	77.5°	215.7	109.5	78.0	60.7	47.7	68.3	73.7	44.4	39.0	37.9
329.4	80°	131.1	50.9	33.6	29.3	16.3	24.9	29.3	18.4	20.6	21.7
175.6	82.5°	66.1	14.1	5.4	1.1	0.0	0.0	8.7	4.3	8.7	10.8
47.7	85°	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.4
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°
2178.2	0°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
1913.8	2.5°	1974.5	2020.0	2063.4	2132.7	2204.2	2274.7	2346.2	2415.6	2440.5	2458.9
1652.6	5°	1746.9	1832.5	1932.2	2069.9	2217.3	2369.0	2522.9	2663.7	2727.7	2771.0
1406.6	7.5°	1511.8	1623.4	1766.4	1973.4	2204.2	2445.9	2687.6	2909.7	3012.7	3096.1
1174.7	10°	1278.8	1400.1	1581.1	1817.4	2129.5	2476.3	2810.0	3115.6	3248.9	3354.1
1007.8	12.5°	1073.9	1187.7	1377.4	1638.6	2012.4	2452.4	2880.5	3247.9	3405.0	3523.1
888.6	15°	929.8	1010.0	1178.0	1459.7	1873.7	2375.5	2884.8	3310.7	3483.0	3606.6
838.8	17.5°	849.6	876.7	986.2	1277.7	1719.8	2274.7	2844.7	3332.4	3516.6	3631.5
794.4	20°	806.3	810.6	841.0	1041.4	1522.6	2180.4	2806.8	3354.1	3548.0	3644.5
762.9	22.5°	771.6	771.6	779.2	851.8	1267.9	2067.7	2794.9	3392.0	3591.4	3651.0
727.2	25°	740.2	740.2	742.3	761.8	1004.6	1895.4	2787.3	3450.5	3651.0	3667.2
691.4	27.5°	707.7	708.7	708.7	719.6	809.5	1661.3	2754.8	3526.4	3722.5	3688.9
656.7	30°	675.1	677.3	677.3	684.9	716.3	1387.1	2690.8	3617.4	3815.7	3717.1
622.0	32.5°	642.6	644.8	644.8	651.3	674.1	1107.5	2610.6	3700.8	3910.0	3729.0
588.4	35°	609.0	612.3	610.1	618.8	642.6	881.0	2508.8	3784.3	4011.9	3766.9
555.9	37.5°	575.4	577.6	576.5	585.2	612.3	760.8	2390.6	3847.1	4150.6	3851.5
521.3	40°	541.9	540.8	540.8	550.5	579.8	726.1	2242.2	3946.8	4350.0	3999.9
486.6	42.5°	507.2	507.2	505.0	515.8	551.6	700.1	2100.2	4125.7	4640.4	4236.2
454.1	45°	475.7	474.7	470.3	480.1	524.5	654.6	2050.4	4459.4	5069.6	4618.7
421.6	47.5°	445.4	444.3	433.5	442.2	492.0	613.4	2236.8	5005.6	5664.5	5181.2
395.6	50°	418.3	419.4	398.8	406.4	459.5	581.9	2641.0	5714.4	6454.5	5938.7
373.9	52.5°	393.4	393.4	366.3	370.6	419.4	553.8	3025.7	6482.7	7497.0	6995.3
351.1	55°	368.5	366.3	335.9	338.1	379.3	513.7	3083.1	7232.6	8918.9	8585.1
326.2	57.5°	340.3	335.9	307.8	307.8	342.4	484.4	2672.4	7809.2	10683.1	10921.5
279.6	60°	305.6	302.4	283.9	278.5	313.2	510.4	1885.6	7876.3	11821.0	14028.5
222.2	62.5°	261.2	265.5	255.8	248.2	285.0	529.9	1117.3	7335.6	11545.8	15016.9
172.3	65°	205.9	223.2	221.1	215.7	313.2	446.5	660.0	6297.4	10701.6	14219.2
150.6	67.5°	175.6	187.5	184.2	184.2	328.4	339.2	415.1	4920.0	9539.8	13273.2
125.7	70°	149.6	161.5	149.6	149.6	248.2	205.9	287.2	3435.3	8286.0	12226.3
100.8	72.5°	123.5	135.5	122.5	113.8	198.3	153.9	210.2	2146.8	7096.1	11136.1
71.5	75°	94.3	108.4	98.6	87.8	131.1	114.9	159.3	1247.3	5879.1	9527.9
43.3	77.5°	59.6	78.0	73.7	61.8	96.4	83.4	114.9	742.3	4536.4	7445.0
26.0	80°	36.8	40.1	41.2	39.0	55.3	56.4	78.0	422.6	3104.8	5188.8
16.3	82.5°	23.8	23.8	18.4	20.6	27.1	32.5	44.4	159.3	1825.0	3159.0
9.8	85°	17.3	15.2	9.8	9.8	13.0	16.3	17.3	48.8	740.2	1247.3
4.3	87.5°	8.7	7.6	3.3	4.3	6.5	5.4	4.3	2.2	186.4	398.8
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°
2178.2	0°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
2500.1	2.5°	2521.8	2555.4	2557.5	2557.5	2528.3	2527.2	2467.6	2461.1
2868.6	5°	2969.3	2991.0	2996.4	2985.6	2927.1	2883.7	2767.8	2742.8
3244.6	7.5°	3379.0	3422.3	3422.3	3396.3	3301.0	3212.1	3044.1	2981.3
3555.6	10°	3706.3	3756.1	3745.3	3692.2	3571.9	3449.4	3245.7	3163.3
3744.2	12.5°	3865.6	3916.5	3888.3	3827.6	3710.6	3581.6	3367.1	3273.9
3798.4	15°	3862.3	3848.2	3819.0	3811.4	3755.0	3657.5	3457.0	3355.1
3764.8	17.5°	3724.7	3605.5	3582.7	3658.6	3730.1	3706.3	3535.0	3439.7
3684.6	20°	3506.9	3298.8	3278.2	3423.4	3627.1	3731.2	3607.6	3519.9
3568.6	22.5°	3277.1	3052.8	3005.1	3165.5	3472.2	3738.8	3699.8	3612.0
3440.8	25°	3059.3	2833.9	2786.2	2935.7	3299.9	3725.8	3799.5	3724.7
3318.3	27.5°	2877.2	2659.4	2615.0	2764.5	3134.1	3688.9	3899.2	3846.1
3196.9	30°	2736.3	2534.8	2502.3	2646.4	2991.0	3643.4	4026.0	3996.7
3084.2	32.5°	2654.0	2506.6	2518.5	2636.6	2914.1	3593.6	4147.3	4161.4
3028.9	35°	2735.3	2741.8	2845.8	2894.6	2985.6	3586.0	4312.0	4367.3
3095.1	37.5°	3139.5	3364.9	3580.5	3540.5	3335.6	3673.7	4558.0	4661.0
3383.3	40°	3827.6	4290.4	4640.4	4487.6	3971.8	3942.5	4912.4	5066.3
3894.8	42.5°	4668.6	5453.2	6029.7	5620.1	4792.1	4412.8	5418.5	5614.7
4513.6	45°	5556.1	6886.9	7795.1	6943.3	5666.7	5071.7	6184.7	6338.6
5093.4	47.5°	6491.4	8629.5	9804.2	8410.6	6477.3	5821.6	7229.4	7265.1
5642.8	50°	7514.4	10540.1	11852.4	9876.9	7259.7	6681.0	8506.0	8464.8
6283.3	52.5°	8488.6	12504.8	13857.3	11349.6	7946.8	7747.4	9987.4	9902.9
7158.9	55°	9418.5	14468.5	15874.1	12764.9	8594.8	9156.2	11747.3	11235.8
8421.4	57.5°	10496.7	16233.8	17952.6	14186.7	9500.8	10985.5	13715.3	12009.6
10839.2	60°	12090.9	18239.8	20303.1	16135.2	11223.9	12908.0	14420.8	11862.2
13734.8	62.5°	14126.0	20084.2	22012.1	18044.7	12954.6	13269.9	13381.5	10726.5
13144.2	65°	14521.6	20551.3	22108.6	18555.1	12731.3	11256.4	10924.8	8621.9
11740.8	67.5°	13472.6	19707.1	20760.5	17604.7	11261.8	8698.9	8198.2	6255.1
10819.7	70°	12295.7	18097.8	18411.0	15988.9	9905.0	6398.2	5536.6	4014.0
10189.0	72.5°	11089.5	15951.0	15302.9	13885.5	8705.4	4658.8	3993.4	2853.4
9290.6	75°	9656.9	13128.0	12054.0	11537.1	7207.7	3656.4	2889.1	1969.1
7991.2	77.5°	7733.3	9240.7	8953.5	8942.7	5416.3	2671.3	1927.9	1234.3
6243.2	80°	5455.4	5997.2	5850.9	6735.2	3633.7	1937.7	1160.6	687.1
4345.6	82.5°	2641.0	3316.1	3403.9	4010.8	1767.5	1140.1	267.7	149.6
1699.2	85°	1033.9	1599.5	1349.2	1522.6	496.3	317.5	6.5	0.0
279.6	87.5°	116.0	185.3	170.1	134.4	60.7	13.0	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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