

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: P950154

Luminaire Tested: **GALN-SB4C-940-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950154  
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-SB4C-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

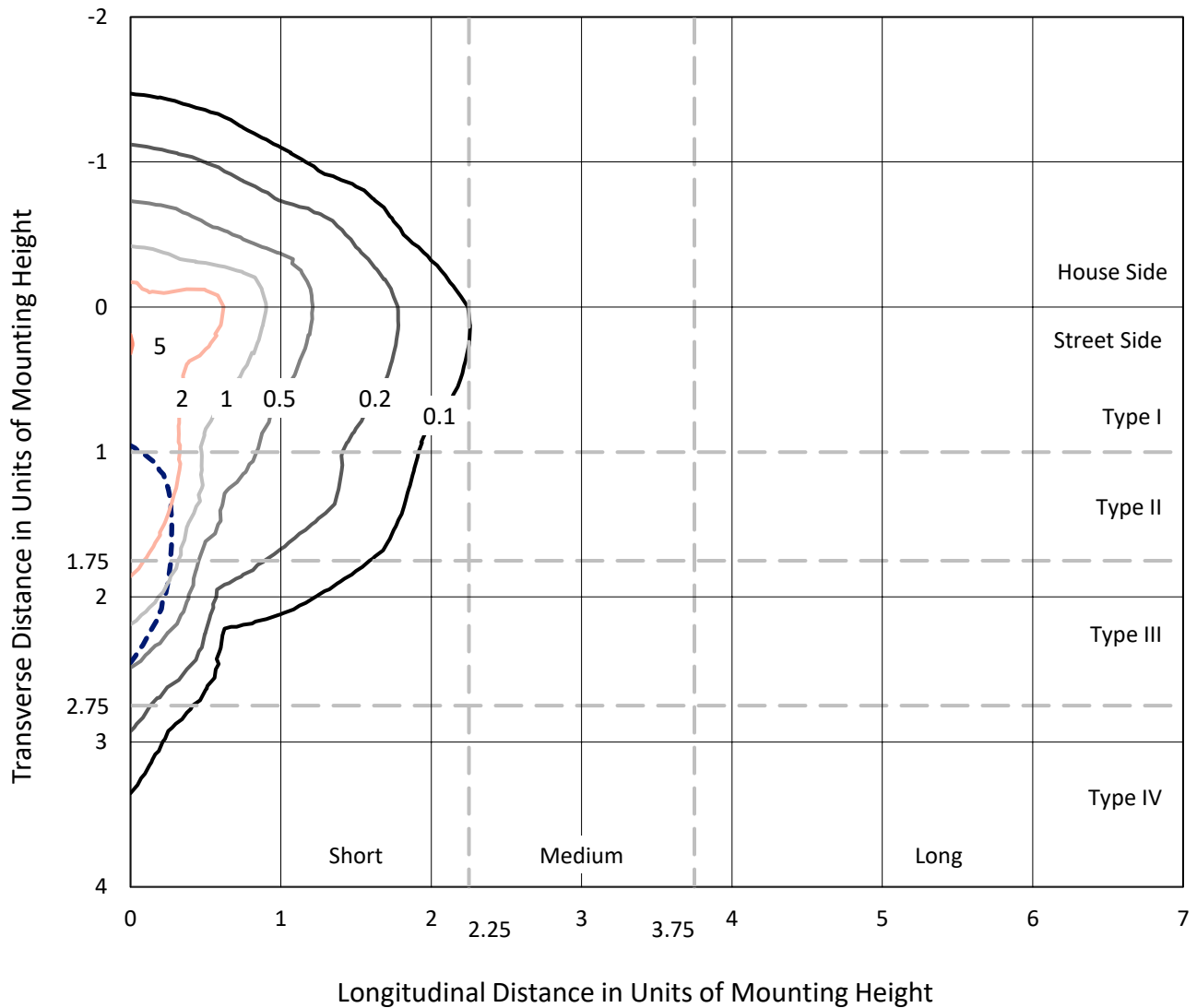
Lumens per Lamp: N/A  
Luminaire Lumens: 16599 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

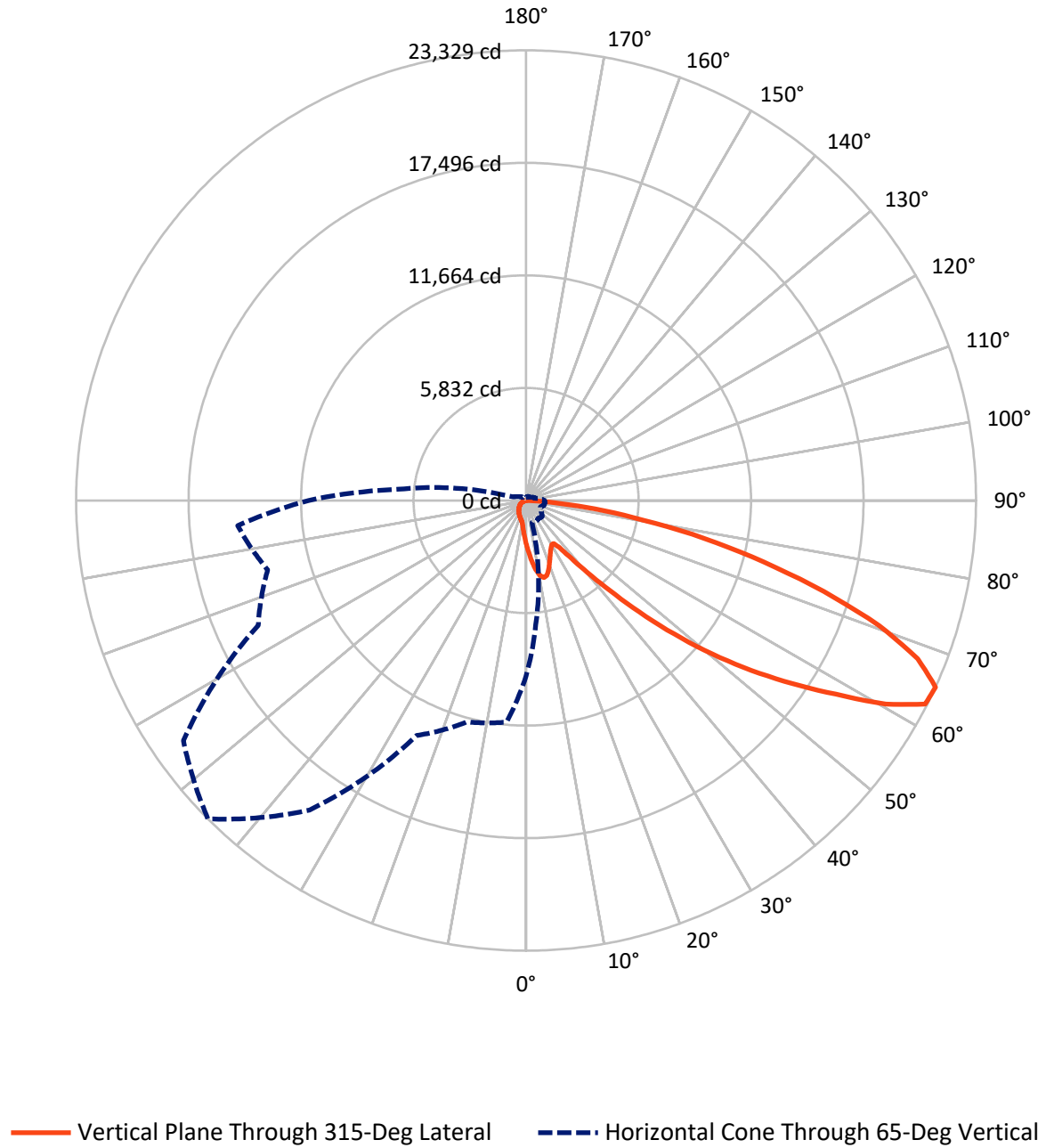
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2324.6	0.0	2324.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14274.4	0.0	14274.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16599.0	0.0	16599.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.3	1.4
10°-20°	678.3	4.1
20°-30°	999.3	6.0
30°-40°	1283.9	7.7
40°-50°	2076.4	12.5
50°-60°	3641.2	21.9
60°-70°	4556.1	27.4
70°-80°	2662.4	16.0
80°-90°	475.0	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°	16599.0	100.0
0°-180°	16599.0	100.0

**Coefficient of Utilization**



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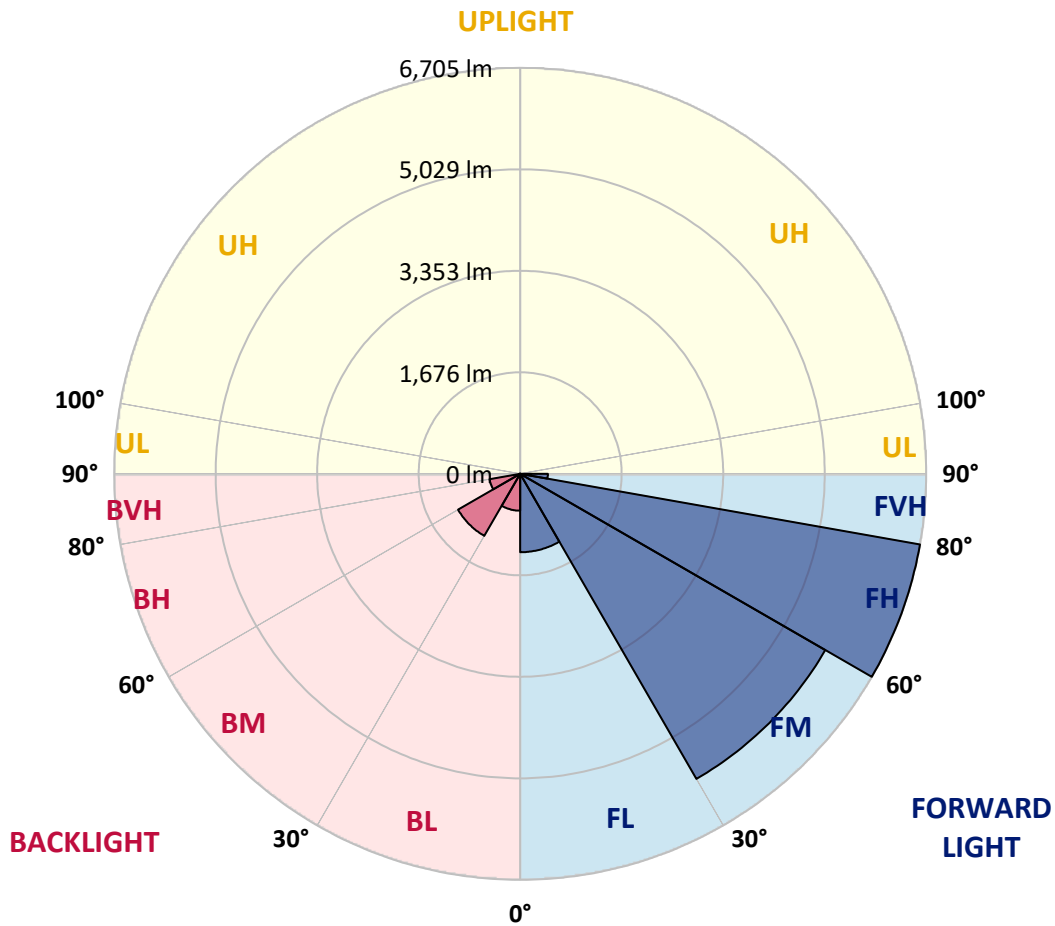
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.7	7.8			
FM (30°-60°)	5817.8	35.0			
FH (60°-80°)	6705.2	40.4			G3/7500
FVH (80°-90°)	456.8	2.8			G3/500
BL (0°-30°)	609.3	3.7	B2/1000		
BM (30°-60°)	1183.7	7.1	B2/2500		
BH (60°-80°)	513.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	18.2	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°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2.5°	2596.9	2552.3	2526.0	2460.8	2395.6	2343.0	2272.1	2225.2	2169.2	2115.5
5°	2894.2	2822.2	2735.2	2616.3	2507.7	2396.8	2289.3	2182.9	2070.9	1968.0
7.5°	3145.8	3041.7	2888.5	2730.7	2592.3	2458.5	2332.7	2192.1	2056.0	1894.8
10°	3337.9	3205.2	3004.0	2797.0	2638.0	2503.1	2380.8	2261.8	2124.6	1930.2
12.5°	3454.5	3312.7	3073.7	2831.3	2649.5	2498.5	2403.6	2351.0	2297.3	2104.0
15°	3540.3	3387.0	3122.9	2855.3	2623.2	2437.9	2368.2	2420.8	2482.5	2359.0
17.5°	3629.5	3468.2	3186.9	2865.6	2552.3	2320.2	2290.4	2426.5	2569.4	2563.7
20°	3714.1	3554.0	3243.0	2858.7	2437.9	2177.2	2203.5	2377.3	2543.1	2612.9
22.5°	3811.3	3642.0	3296.7	2832.4	2289.3	2043.4	2125.8	2299.6	2444.8	2527.1
25°	3930.2	3753.0	3372.2	2793.6	2129.2	1932.5	2046.9	2209.2	2327.0	2384.2
27.5°	4058.3	3885.6	3472.8	2773.0	2000.0	1853.6	1957.7	2101.7	2207.0	2247.0
30°	4217.2	4040.0	3591.7	2750.1	1915.4	1807.9	1865.0	1977.1	2080.0	2120.0
32.5°	4391.0	4211.5	3706.1	2695.2	1863.9	1773.6	1774.7	1845.6	1939.4	1987.4
35°	4608.3	4417.3	3828.4	2575.2	1822.7	1733.5	1686.7	1721.0	1798.7	1855.9
37.5°	4918.2	4687.2	3978.2	2403.6	1762.1	1671.8	1594.0	1602.0	1661.5	1724.4
40°	5345.9	5049.7	4154.3	2225.2	1675.2	1584.9	1492.3	1488.8	1532.3	1594.0
42.5°	5924.5	5528.8	4365.9	2054.9	1591.7	1479.7	1384.8	1379.1	1413.4	1467.1
45°	6688.3	6141.7	4625.4	1908.5	1526.6	1376.8	1283.0	1280.7	1309.3	1356.2
47.5°	7666.0	6993.6	4885.0	1809.0	1492.3	1295.6	1199.5	1204.1	1229.3	1271.6
50°	8931.9	8104.0	4963.9	1758.7	1492.3	1252.1	1125.2	1148.1	1168.7	1200.7
52.5°	10449.3	9169.7	4703.2	1713.0	1501.4	1257.8	1062.3	1111.5	1126.3	1153.8
55°	11855.8	9692.3	4043.4	1650.1	1503.7	1293.3	1008.6	1081.7	1109.2	1119.5
57.5°	12672.2	9512.8	3269.3	1543.7	1494.6	1317.3	974.3	1045.2	1097.8	1104.6
60°	12516.7	8882.7	2407.1	1462.5	1427.1	1308.2	964.0	989.1	1072.6	1082.9
62.5°	11318.3	7826.1	1670.7	1399.6	1278.4	1268.1	960.5	901.1	1017.7	1042.9
65°	9097.7	6161.2	1180.1	1205.2	1120.6	1181.2	942.2	809.6	951.4	985.7
67.5°	6600.3	4169.2	851.9	976.5	1015.4	1040.6	901.1	743.3	875.9	921.7
70°	4235.5	2251.5	598.0	644.9	855.3	883.9	830.2	683.8	799.3	851.9
72.5°	3010.8	1329.9	430.0	451.7	687.2	736.4	730.7	617.5	710.1	774.1
75°	2077.7	733.0	290.4	322.5	498.6	598.0	563.7	530.6	601.5	666.7
77.5°	1302.4	328.2	173.8	224.1	327.0	470.0	386.5	410.5	468.8	529.4
80°	725.0	126.9	97.2	148.7	178.4	341.9	213.8	264.1	345.3	388.8
82.5°	157.8	16.0	43.5	64.0	69.8	199.0	113.2	153.2	217.3	213.8
85°	0.0	0.0	8.0	9.1	4.6	85.8	41.2	50.3	70.9	66.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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°
2298.4	0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2067.4	2.5°	2058.3	2002.3	1961.1	1940.5	1923.4	1939.4	1948.5	1948.5	1987.4	2010.3
1905.1	5°	1865.0	1764.4	1687.8	1636.3	1605.5	1615.8	1627.2	1639.8	1688.9	1722.1
1809.0	7.5°	1731.3	1576.9	1460.2	1388.2	1350.5	1356.2	1364.2	1374.5	1422.5	1455.7
1822.7	10°	1706.1	1484.3	1319.6	1224.7	1178.9	1170.9	1166.4	1162.9	1191.5	1216.7
1978.3	12.5°	1809.0	1488.8	1259.0	1143.5	1087.5	1063.5	1036.0	1014.3	1018.9	1034.9
2213.8	15°	1993.1	1547.2	1239.6	1101.2	1031.4	991.4	959.4	933.1	927.4	933.1
2419.6	17.5°	2203.5	1626.1	1237.3	1064.6	977.7	936.5	910.2	886.2	878.2	879.3
2535.1	20°	2343.0	1688.9	1230.4	1023.4	926.2	889.6	866.8	842.8	834.8	837.0
2503.1	22.5°	2356.7	1722.1	1220.1	977.7	874.8	843.9	821.0	799.3	798.2	798.2
2383.0	25°	2282.4	1722.1	1198.4	936.5	825.6	798.2	777.6	751.3	755.9	758.1
2247.0	27.5°	2166.9	1680.9	1157.2	903.4	783.3	754.7	734.1	710.1	715.8	719.3
2120.0	30°	2052.6	1628.3	1108.0	865.6	743.3	710.1	695.2	674.7	677.0	681.5
1994.3	32.5°	1946.2	1572.3	1049.7	834.8	703.3	670.1	658.7	635.8	639.2	643.8
1870.8	35°	1841.0	1510.6	981.1	798.2	666.7	633.5	624.3	598.0	600.3	607.2
1747.3	37.5°	1727.8	1445.4	925.1	761.6	631.2	596.9	587.8	560.3	562.6	570.6
1619.2	40°	1608.9	1381.3	870.2	722.7	593.5	559.2	551.2	521.4	523.7	532.9
1493.4	42.5°	1488.8	1311.6	827.9	672.4	554.6	518.0	510.0	482.6	486.0	496.3
1383.6	45°	1377.9	1228.1	800.4	616.3	518.0	476.8	468.8	443.7	450.5	462.0
1291.0	47.5°	1283.0	1142.4	789.0	569.5	479.1	434.5	427.7	407.1	418.5	431.1
1212.1	50°	1201.8	1060.0	774.1	521.4	442.5	397.9	391.1	377.4	392.2	404.8
1158.4	52.5°	1143.5	966.3	742.1	478.0	410.5	367.1	364.8	357.9	371.6	383.1
1118.3	55°	1093.2	869.1	690.7	440.2	381.9	340.8	343.0	339.6	351.1	360.2
1094.3	57.5°	1047.4	784.4	625.5	410.5	351.1	317.9	324.8	320.2	325.9	331.6
1069.2	60°	992.6	698.7	547.7	377.4	314.5	295.0	303.0	290.4	289.3	291.6
1023.4	62.5°	911.4	583.2	466.5	336.2	282.4	269.9	273.3	249.3	231.0	231.0
956.0	65°	798.2	468.8	391.1	290.4	245.9	235.6	233.3	199.0	173.8	171.5
882.8	67.5°	666.7	385.4	324.8	244.7	204.7	197.8	200.1	175.0	149.8	147.5
809.6	70°	543.2	319.0	261.9	195.5	157.8	164.7	175.0	149.8	125.8	122.4
723.8	72.5°	441.4	253.9	204.7	149.8	116.6	136.1	148.7	122.4	99.5	97.2
617.5	75°	340.8	186.4	146.4	101.8	84.6	105.2	116.6	89.2	70.9	67.5
478.0	77.5°	227.6	115.5	82.3	64.0	50.3	72.0	77.8	46.9	41.2	40.0
347.6	80°	138.4	53.7	35.4	30.9	17.2	26.3	30.9	19.4	21.7	22.9
185.2	82.5°	69.8	14.9	5.7	1.1	0.0	0.0	9.1	4.6	9.1	11.4
50.3	85°	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7
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°
2298.4	0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2019.4	2.5°	2083.5	2131.5	2177.2	2250.4	2325.9	2400.2	2475.7	2548.9	2575.2	2594.6
1743.8	5°	1843.3	1933.7	2038.9	2184.1	2339.6	2499.7	2662.1	2810.7	2878.2	2923.9
1484.3	7.5°	1595.2	1713.0	1863.9	2082.3	2325.9	2580.9	2835.9	3070.3	3178.9	3267.0
1239.6	10°	1349.3	1477.4	1668.4	1917.6	2247.0	2612.9	2965.1	3287.6	3428.2	3539.1
1063.5	12.5°	1133.2	1253.3	1453.4	1729.0	2123.5	2587.7	3039.4	3427.1	3592.9	3717.5
937.7	15°	981.1	1065.7	1243.0	1540.3	1977.1	2506.5	3044.0	3493.4	3675.2	3805.6
885.1	17.5°	896.5	925.1	1040.6	1348.2	1814.7	2400.2	3001.7	3516.3	3710.7	3831.9
838.2	20°	850.8	855.3	887.4	1098.9	1606.6	2300.7	2961.7	3539.1	3743.8	3845.6
805.0	22.5°	814.2	814.2	822.2	898.8	1337.9	2181.8	2949.1	3579.1	3789.6	3852.4
767.3	25°	781.0	781.0	783.3	803.9	1060.0	2000.0	2941.1	3640.9	3852.4	3869.6
729.6	27.5°	746.7	747.8	747.8	759.3	854.2	1753.0	2906.8	3720.9	3927.9	3892.5
693.0	30°	712.4	714.7	714.7	722.7	755.9	1463.7	2839.3	3817.0	4026.3	3922.2
656.4	32.5°	678.1	680.4	680.4	687.2	711.3	1168.7	2754.7	3905.0	4125.7	3934.8
620.9	35°	642.6	646.1	643.8	652.9	678.1	929.7	2647.2	3993.1	4233.2	3974.8
586.6	37.5°	607.2	609.5	608.3	617.5	646.1	802.7	2522.6	4059.4	4379.6	4064.0
550.0	40°	571.7	570.6	570.6	580.9	611.8	766.1	2365.9	4164.6	4590.0	4220.7
513.4	42.5°	535.2	535.2	532.9	544.3	582.0	738.7	2216.1	4353.3	4896.5	4469.9
479.1	45°	502.0	500.9	496.3	506.6	553.5	690.7	2163.5	4705.5	5349.3	4873.6
444.8	47.5°	470.0	468.8	457.4	466.5	519.1	647.2	2360.2	5281.8	5977.1	5467.1
417.4	50°	441.4	442.5	420.8	428.8	484.8	614.1	2786.7	6029.7	6810.7	6266.4
394.5	52.5°	415.1	415.1	386.5	391.1	442.5	584.3	3192.6	6840.4	7910.7	7381.3
370.5	55°	388.8	386.5	354.5	356.8	400.2	542.0	3253.3	7631.7	9411.0	9058.8
344.2	57.5°	359.1	354.5	324.8	324.8	361.3	511.1	2819.9	8240.0	11272.6	11524.2
295.0	60°	322.5	319.0	299.6	293.9	330.5	538.6	1989.7	8310.9	12473.3	14802.6
234.4	62.5°	275.6	280.2	269.9	261.9	300.7	559.2	1178.9	7740.3	12182.8	15845.4
181.8	65°	217.3	235.6	233.3	227.6	330.5	471.1	696.4	6644.9	11292.0	15003.8
158.9	67.5°	185.2	197.8	194.4	194.4	346.5	357.9	438.0	5191.5	10066.2	14005.6
132.6	70°	157.8	170.4	157.8	157.8	261.9	217.3	303.0	3624.9	8743.2	12900.9
106.3	72.5°	130.4	142.9	129.2	120.1	209.3	162.4	221.8	2265.3	7487.6	11750.6
75.5	75°	99.5	114.3	104.1	92.6	138.4	121.2	168.1	1316.2	6203.5	10053.6
45.7	77.5°	62.9	82.3	77.8	65.2	101.8	88.0	121.2	783.3	4786.7	7855.8
27.4	80°	38.9	42.3	43.5	41.2	58.3	59.5	82.3	446.0	3276.1	5475.1
17.2	82.5°	25.2	25.2	19.4	21.7	28.6	34.3	46.9	168.1	1925.7	3333.3
10.3	85°	18.3	16.0	10.3	10.3	13.7	17.2	18.3	51.5	781.0	1316.2
4.6	87.5°	9.1	8.0	3.4	4.6	6.9	5.7	4.6	2.3	196.7	420.8
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°
2298.4	0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2638.0	2.5°	2660.9	2696.4	2698.7	2698.7	2667.8	2666.6	2603.7	2596.9
3026.8	5°	3133.2	3156.1	3161.8	3150.3	3088.6	3042.8	2920.5	2894.2
3423.6	7.5°	3565.4	3611.2	3611.2	3583.7	3483.1	3389.3	3212.1	3145.8
3751.8	10°	3910.8	3963.4	3951.9	3895.9	3769.0	3639.8	3424.8	3337.9
3950.8	12.5°	4078.9	4132.6	4102.9	4038.8	3915.3	3779.3	3552.8	3454.5
4008.0	15°	4075.4	4060.6	4029.7	4021.7	3962.2	3859.3	3647.8	3540.3
3972.5	17.5°	3930.2	3804.4	3780.4	3860.4	3935.9	3910.8	3730.1	3629.5
3887.9	20°	3700.4	3480.8	3459.1	3612.3	3827.3	3937.1	3806.7	3714.1
3765.5	22.5°	3457.9	3221.2	3170.9	3340.2	3663.8	3945.1	3903.9	3811.3
3630.6	25°	3228.1	2990.2	2939.9	3097.7	3482.0	3931.3	4009.1	3930.2
3501.4	27.5°	3036.0	2806.1	2759.3	2917.1	3307.0	3892.5	4114.3	4058.3
3373.3	30°	2887.3	2674.6	2640.3	2792.4	3156.1	3844.4	4248.1	4217.2
3254.4	32.5°	2800.4	2644.9	2657.5	2782.1	3074.9	3791.8	4376.2	4391.0
3196.1	35°	2886.2	2893.0	3002.8	3054.3	3150.3	3783.8	4550.0	4608.3
3265.8	37.5°	3312.7	3550.6	3778.1	3735.8	3519.7	3876.5	4809.6	4918.2
3570.0	40°	4038.8	4527.1	4896.5	4735.2	4190.9	4160.0	5183.5	5345.9
4109.7	42.5°	4926.2	5754.1	6362.4	5930.2	5056.5	4656.3	5717.5	5924.5
4762.7	45°	5862.7	7266.9	8225.2	7326.4	5979.3	5351.6	6525.9	6688.3
5374.4	47.5°	6849.6	9105.7	10345.2	8874.7	6834.7	6142.9	7628.3	7666.0
5954.2	50°	7929.0	11121.7	12506.4	10421.8	7660.3	7049.7	8975.3	8931.9
6630.0	52.5°	8957.0	13194.8	14621.9	11975.9	8385.3	8174.9	10538.5	10449.3
7553.9	55°	9938.1	15266.8	16750.0	13469.3	9069.1	9661.4	12395.5	11855.8
8886.1	57.5°	11075.9	17129.6	18943.2	14969.5	10025.0	11591.6	14472.1	12672.2
11437.3	60°	12758.0	19246.2	21423.4	17025.5	11843.2	13620.2	15216.5	12516.7
14492.7	62.5°	14905.5	21192.4	23226.7	19040.4	13669.4	14002.1	14119.9	11318.3
13869.5	65°	15322.9	21685.3	23328.5	19579.0	13433.8	11877.5	11527.6	9097.7
12388.7	67.5°	14216.0	20794.5	21906.0	18576.1	11883.2	9178.9	8650.6	6600.3
11416.7	70°	12974.1	19096.4	19426.9	16871.2	10451.6	6751.2	5842.1	4235.5
10751.2	72.5°	11701.4	16831.1	16147.3	14651.6	9185.7	4915.9	4213.8	3010.8
9803.2	75°	10189.7	13852.3	12719.1	12173.7	7605.4	3858.2	3048.6	2077.7
8432.2	77.5°	8160.0	9750.6	9447.6	9436.1	5715.2	2818.7	2034.3	1302.4
6587.7	80°	5756.4	6328.1	6173.7	7106.8	3834.1	2044.6	1224.7	725.0
4585.4	82.5°	2786.7	3499.1	3591.7	4232.1	1865.0	1203.0	282.4	157.8
1793.0	85°	1090.9	1687.8	1423.7	1606.6	523.7	335.0	6.9	0.0
295.0	87.5°	122.4	195.5	179.5	141.8	64.0	13.7	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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