

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: P947424

Luminaire Tested: **GALN-SB2D-740-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947424  
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-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

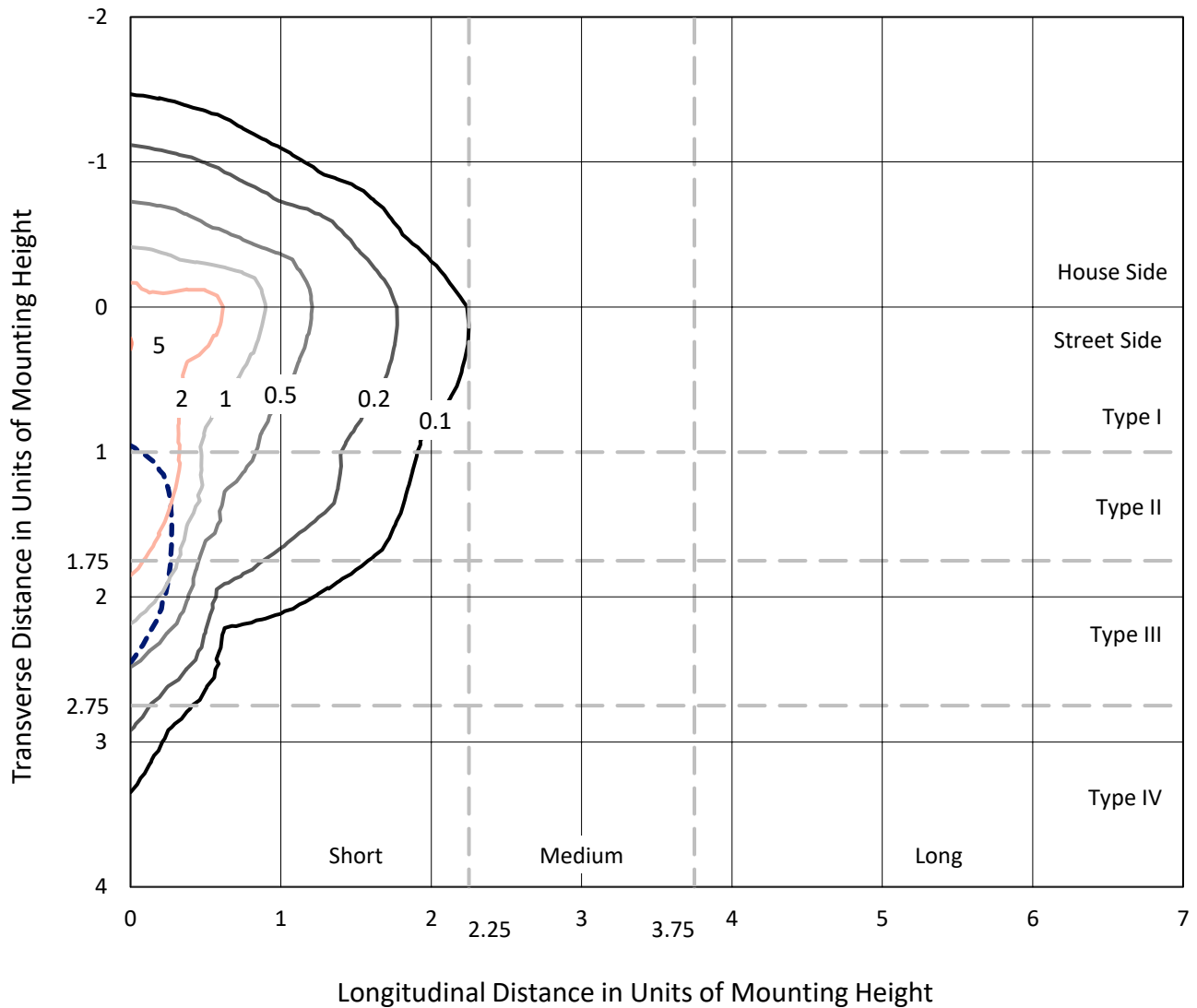
Lumens per Lamp: N/A  
Luminaire Lumens: 16432 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

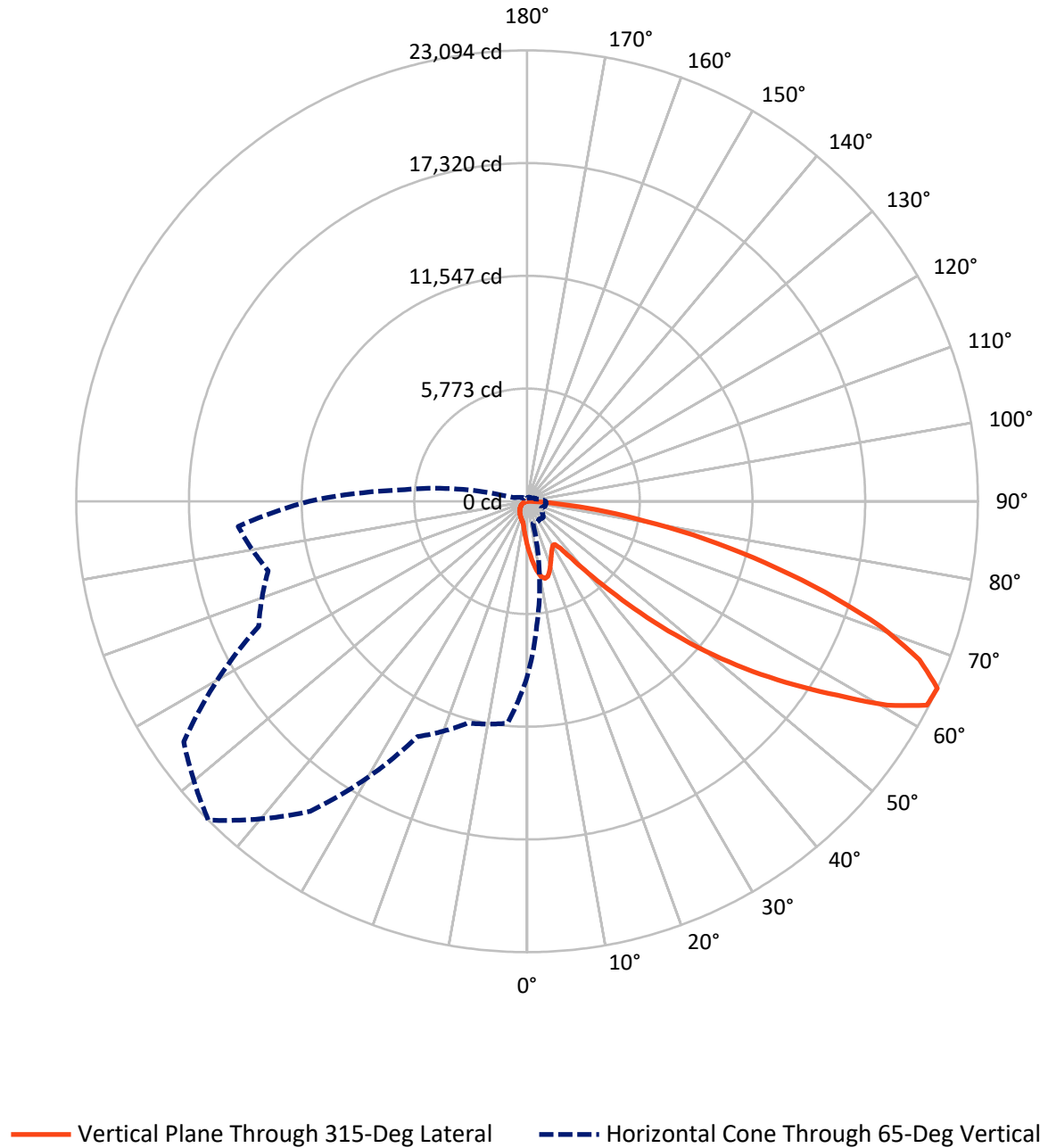
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2301.2	0.0	2301.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14130.8	0.0	14130.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16432.0	0.0	16432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.0	1.4
10°-20°	671.5	4.1
20°-30°	989.3	6.0
30°-40°	1271.0	7.7
40°-50°	2055.5	12.5
50°-60°	3604.6	21.9
60°-70°	4510.3	27.4
70°-80°	2635.6	16.0
80°-90°	470.2	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°	16432.0	100.0
0°-180°	16432.0	100.0

**Coefficient of Utilization**



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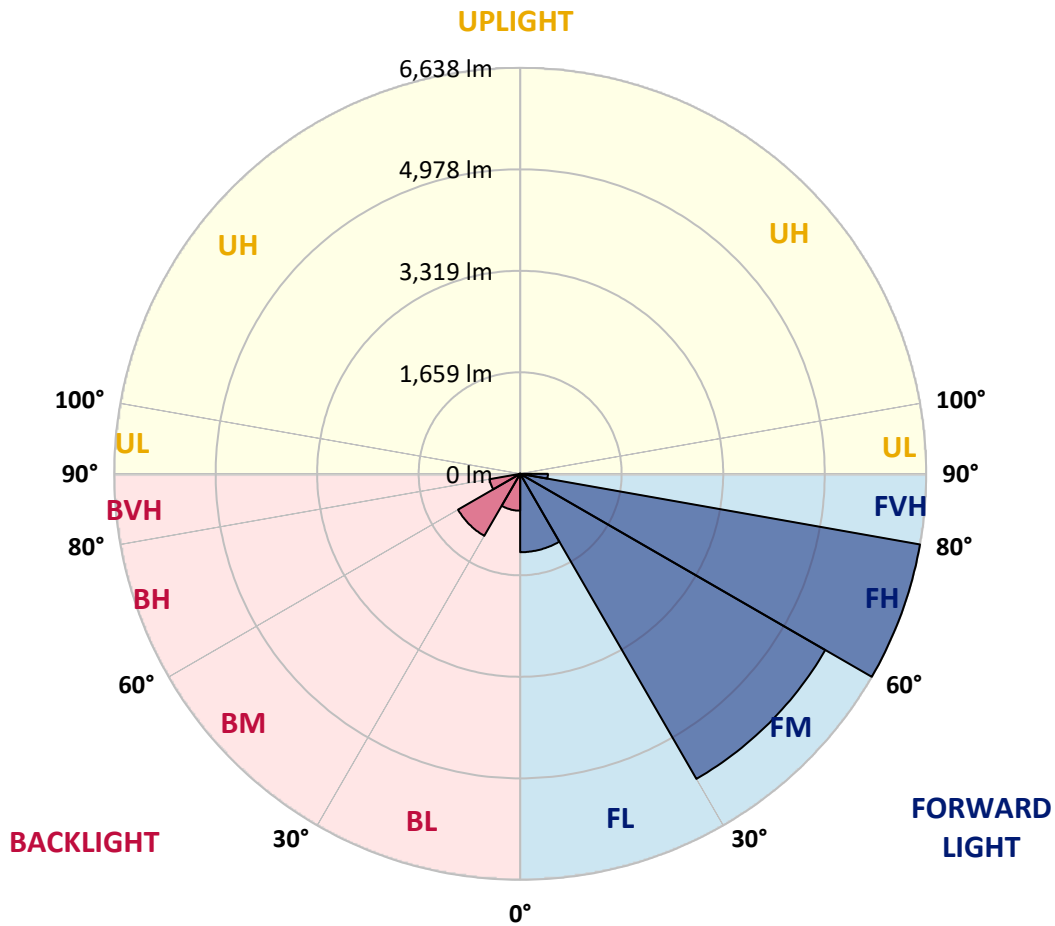
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.6	7.8			
FM (30°-60°)	5759.2	35.0			
FH (60°-80°)	6637.8	40.4			G3/7500
FVH (80°-90°)	452.2	2.8			G3/500
BL (0°-30°)	603.2	3.7	B2/1000		
BM (30°-60°)	1171.8	7.1	B2/2500		
BH (60°-80°)	508.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	18.1	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°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
2.5°	2570.8	2526.6	2500.6	2436.0	2371.5	2319.5	2249.3	2202.9	2147.4	2094.2
5°	2865.1	2793.8	2707.7	2590.0	2482.5	2372.7	2266.3	2161.0	2050.0	1948.2
7.5°	3114.1	3011.1	2859.4	2703.2	2566.2	2433.8	2309.3	2170.0	2035.3	1875.7
10°	3304.3	3173.0	2973.7	2768.9	2611.5	2477.9	2356.8	2239.1	2103.2	1910.8
12.5°	3419.8	3279.4	3042.8	2802.8	2622.8	2473.4	2379.4	2327.4	2274.2	2082.9
15°	3504.7	3353.0	3091.5	2826.6	2596.8	2413.4	2344.4	2396.4	2457.6	2335.3
17.5°	3592.9	3433.3	3154.9	2836.8	2526.6	2296.8	2267.4	2402.1	2543.6	2537.9
20°	3676.7	3518.2	3210.3	2830.0	2413.4	2155.3	2181.4	2353.4	2517.6	2586.6
22.5°	3772.9	3605.4	3263.5	2803.9	2266.3	2022.9	2104.4	2276.4	2420.2	2501.7
25°	3890.7	3715.2	3338.2	2765.5	2107.8	1913.1	2026.3	2187.0	2303.6	2360.2
27.5°	4017.4	3846.5	3437.9	2745.1	1979.9	1835.0	1938.0	2080.6	2184.7	2224.4
30°	4174.8	3999.3	3555.6	2722.4	1896.1	1789.7	1846.3	1957.2	2059.1	2098.7
32.5°	4346.9	4169.1	3668.8	2668.1	1845.1	1755.7	1756.9	1827.0	1919.9	1967.4
35°	4561.9	4372.9	3789.9	2549.2	1804.4	1716.1	1669.7	1703.6	1780.6	1837.2
37.5°	4868.7	4640.0	3938.2	2379.4	1744.4	1655.0	1578.0	1585.9	1644.8	1707.0
40°	5292.1	4998.9	4112.5	2202.9	1658.4	1568.9	1477.3	1473.9	1516.9	1578.0
42.5°	5864.9	5473.2	4321.9	2034.2	1575.7	1464.8	1370.8	1365.2	1399.1	1452.3
45°	6621.0	6079.9	4578.9	1889.3	1511.2	1362.9	1270.1	1267.8	1296.1	1342.5
47.5°	7588.9	6923.3	4835.9	1790.8	1477.3	1282.5	1187.5	1192.0	1216.9	1258.8
50°	8842.0	8022.4	4914.0	1741.0	1477.3	1239.5	1113.9	1136.5	1156.9	1188.6
52.5°	10344.2	9077.5	4655.9	1695.7	1486.3	1245.2	1051.6	1100.3	1115.0	1142.2
55°	11736.5	9594.8	4002.7	1633.5	1488.6	1280.3	998.4	1070.9	1098.0	1108.2
57.5°	12544.7	9417.1	3236.4	1528.2	1479.5	1304.1	964.5	1034.6	1086.7	1093.5
60°	12390.8	8793.3	2382.8	1447.8	1412.7	1295.0	954.3	979.2	1061.8	1072.0
62.5°	11204.5	7747.4	1653.8	1385.6	1265.6	1255.4	950.9	892.0	1007.5	1032.4
65°	9006.1	6099.2	1168.2	1193.1	1109.4	1169.3	932.8	801.5	941.8	975.8
67.5°	6533.9	4127.2	843.3	966.7	1005.2	1030.1	892.0	735.8	867.1	912.4
70°	4192.9	2228.9	592.0	638.4	846.7	875.0	821.8	676.9	791.3	843.3
72.5°	2980.5	1316.5	425.6	447.1	680.3	729.0	723.3	611.3	703.0	766.4
75°	2056.8	725.6	287.5	319.2	493.5	592.0	558.1	525.2	595.4	660.0
77.5°	1289.3	324.9	172.1	221.9	323.8	465.2	382.6	406.4	464.1	524.1
80°	717.7	125.7	96.2	147.2	176.6	338.5	211.7	261.5	341.9	384.9
82.5°	156.2	15.8	43.0	63.4	69.1	197.0	112.1	151.7	215.1	211.7
85°	0.0	0.0	7.9	9.1	4.5	84.9	40.8	49.8	70.2	65.7
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°
2275.3	0°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
2046.6	2.5°	2037.6	1982.1	1941.4	1921.0	1904.0	1919.9	1928.9	1928.9	1967.4	1990.0
1885.9	5°	1846.3	1746.7	1670.8	1619.9	1589.3	1599.5	1610.8	1623.3	1672.0	1704.8
1790.8	7.5°	1713.8	1561.0	1445.6	1374.2	1336.9	1342.5	1350.5	1360.7	1408.2	1441.0
1804.4	10°	1688.9	1469.3	1306.3	1212.4	1167.1	1159.2	1154.6	1151.2	1179.5	1204.4
1958.3	12.5°	1790.8	1473.9	1246.3	1132.0	1076.5	1052.8	1025.6	1004.1	1008.6	1024.5
2191.5	15°	1973.1	1531.6	1227.1	1090.1	1021.1	981.4	949.7	923.7	918.0	923.7
2395.3	17.5°	2181.4	1609.7	1224.8	1053.9	967.9	927.1	901.1	877.3	869.4	870.5
2509.6	20°	2319.5	1672.0	1218.0	1013.1	916.9	880.7	858.1	834.3	826.4	828.6
2477.9	22.5°	2333.0	1704.8	1207.8	967.9	866.0	835.4	812.8	791.3	790.1	790.1
2359.1	25°	2259.5	1704.8	1186.3	927.1	817.3	790.1	769.8	743.7	748.2	750.5
2224.4	27.5°	2145.1	1664.0	1145.6	894.3	775.4	747.1	726.7	703.0	708.6	712.0
2098.7	30°	2031.9	1612.0	1096.9	856.9	735.8	703.0	688.3	667.9	670.1	674.7
1974.2	32.5°	1926.7	1556.5	1039.2	826.4	696.2	663.3	652.0	629.4	632.8	637.3
1851.9	35°	1822.5	1495.4	971.3	790.1	660.0	627.1	618.1	592.0	594.3	601.1
1729.7	37.5°	1710.4	1430.8	915.8	753.9	624.9	590.9	581.8	554.7	556.9	564.9
1602.9	40°	1592.7	1367.4	861.4	715.4	587.5	553.5	545.6	516.2	518.5	527.5
1478.4	42.5°	1473.9	1298.4	819.6	665.6	549.0	512.8	504.9	477.7	481.1	491.3
1369.7	45°	1364.1	1215.8	792.4	610.1	512.8	472.0	464.1	439.2	446.0	457.3
1278.0	47.5°	1270.1	1130.9	781.1	563.7	474.3	430.2	423.4	403.0	414.3	426.8
1199.9	50°	1189.7	1049.4	766.4	516.2	438.1	393.9	387.1	373.6	388.3	400.7
1146.7	52.5°	1132.0	956.5	734.7	473.2	406.4	363.4	361.1	354.3	367.9	379.2
1107.1	55°	1082.2	860.3	683.7	435.8	378.1	337.3	339.6	336.2	347.5	356.6
1083.3	57.5°	1036.9	776.5	619.2	406.4	347.5	314.7	321.5	317.0	322.6	328.3
1058.4	60°	982.6	691.6	542.2	373.6	311.3	292.1	300.0	287.5	286.4	288.7
1013.1	62.5°	902.2	577.3	461.9	332.8	279.6	267.2	270.5	246.8	228.7	228.7
946.3	65°	790.1	464.1	387.1	287.5	243.4	233.2	230.9	197.0	172.1	169.8
873.9	67.5°	660.0	381.5	321.5	242.2	202.6	195.8	198.1	173.2	148.3	146.0
801.5	70°	537.7	315.8	259.2	193.6	156.2	163.0	173.2	148.3	124.5	121.1
716.6	72.5°	436.9	251.3	202.6	148.3	115.5	134.7	147.2	121.1	98.5	96.2
611.3	75°	337.3	184.5	144.9	100.7	83.8	104.1	115.5	88.3	70.2	66.8
473.2	77.5°	225.3	114.3	81.5	63.4	49.8	71.3	77.0	46.4	40.8	39.6
344.1	80°	137.0	53.2	35.1	30.6	17.0	26.0	30.6	19.2	21.5	22.6
183.4	82.5°	69.1	14.7	5.7	1.1	0.0	0.0	9.1	4.5	9.1	11.3
49.8	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°
2275.3	0°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
1999.1	2.5°	2062.5	2110.0	2155.3	2227.8	2302.5	2376.1	2450.8	2523.2	2549.2	2568.5
1726.3	5°	1824.8	1914.2	2018.3	2162.1	2316.1	2474.5	2635.3	2782.4	2849.2	2894.5
1469.3	7.5°	1579.1	1695.7	1845.1	2061.4	2302.5	2554.9	2807.3	3039.4	3146.9	3234.1
1227.1	10°	1335.8	1462.5	1651.6	1898.4	2224.4	2586.6	2935.3	3254.5	3393.7	3503.5
1052.8	12.5°	1121.8	1240.7	1438.8	1711.6	2102.1	2561.7	3008.8	3392.6	3556.7	3680.1
928.2	15°	971.3	1055.0	1230.5	1524.8	1957.2	2481.3	3013.4	3458.2	3638.2	3767.3
876.2	17.5°	887.5	915.8	1030.1	1334.6	1796.5	2376.1	2971.5	3480.9	3673.3	3793.3
829.8	20°	842.2	846.7	878.4	1087.8	1590.5	2277.6	2931.9	3503.5	3706.1	3806.9
796.9	22.5°	806.0	806.0	813.9	889.7	1324.4	2159.8	2919.4	3543.1	3751.4	3813.7
759.6	25°	773.2	773.2	775.4	795.8	1049.4	1979.9	2911.5	3604.3	3813.7	3830.7
722.2	27.5°	739.2	740.3	740.3	751.6	845.6	1735.3	2877.5	3683.5	3888.4	3853.3
686.0	30°	705.2	707.5	707.5	715.4	748.2	1449.0	2810.7	3778.6	3985.7	3882.7
649.8	32.5°	671.3	673.5	673.5	680.3	704.1	1156.9	2727.0	3865.8	4084.2	3895.2
614.7	35°	636.2	639.6	637.3	646.4	671.3	920.3	2620.6	3952.9	4190.6	3934.8
580.7	37.5°	601.1	603.4	602.2	611.3	639.6	794.7	2497.2	4018.6	4335.5	4023.1
544.5	40°	566.0	564.9	564.9	575.1	605.6	758.4	2342.1	4122.7	4543.8	4178.2
508.3	42.5°	529.8	529.8	527.5	538.8	576.2	731.3	2193.8	4309.5	4847.2	4425.0
474.3	45°	496.9	495.8	491.3	501.5	547.9	683.7	2141.7	4658.2	5295.5	4824.6
440.3	47.5°	465.2	464.1	452.8	461.9	513.9	640.7	2336.4	5228.7	5916.9	5412.1
413.2	50°	436.9	438.1	416.6	424.5	480.0	607.9	2758.7	5969.0	6742.2	6203.3
390.5	52.5°	410.9	410.9	382.6	387.1	438.1	578.4	3160.5	6771.6	7831.1	7307.0
366.8	55°	384.9	382.6	350.9	353.2	396.2	536.6	3220.5	7554.9	9316.3	8967.6
340.7	57.5°	355.4	350.9	321.5	321.5	357.7	506.0	2791.5	8157.1	11159.2	11408.2
292.1	60°	319.2	315.8	296.6	290.9	327.1	533.2	1969.7	8227.3	12347.8	14653.7
232.1	62.5°	272.8	277.3	267.2	259.2	297.7	553.5	1167.1	7662.5	12060.3	15686.0
180.0	65°	215.1	233.2	230.9	225.3	327.1	466.4	689.4	6578.0	11178.4	14852.9
157.3	67.5°	183.4	195.8	192.4	192.4	343.0	354.3	433.6	5139.2	9964.9	13864.7
131.3	70°	156.2	168.7	156.2	156.2	259.2	215.1	300.0	3588.4	8655.2	12771.1
105.3	72.5°	129.0	141.5	127.9	118.9	207.2	160.7	219.6	2242.5	7412.3	11632.4
74.7	75°	98.5	113.2	103.0	91.7	137.0	120.0	166.4	1302.9	6141.1	9952.5
45.3	77.5°	62.3	81.5	77.0	64.5	100.7	87.2	120.0	775.4	4738.5	7776.8
27.2	80°	38.5	41.9	43.0	40.8	57.7	58.9	81.5	441.5	3243.2	5420.0
17.0	82.5°	24.9	24.9	19.2	21.5	28.3	34.0	46.4	166.4	1906.3	3299.8
10.2	85°	18.1	15.8	10.2	10.2	13.6	17.0	18.1	50.9	773.2	1302.9
4.5	87.5°	9.1	7.9	3.4	4.5	6.8	5.7	4.5	2.3	194.7	416.6
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°
2275.3	0°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
2611.5	2.5°	2634.1	2669.2	2671.5	2671.5	2640.9	2639.8	2577.5	2570.8
2996.4	5°	3101.7	3124.3	3130.0	3118.6	3057.5	3012.2	2891.1	2865.1
3389.2	7.5°	3529.6	3574.8	3574.8	3547.7	3448.1	3355.2	3179.8	3114.1
3714.1	10°	3871.4	3923.5	3912.2	3856.7	3731.0	3603.1	3390.3	3304.3
3911.0	12.5°	4037.8	4091.0	4061.6	3998.2	3875.9	3741.2	3517.1	3419.8
3967.6	15°	4034.4	4019.7	3989.1	3981.2	3922.4	3820.5	3611.1	3504.7
3932.5	17.5°	3890.7	3766.1	3742.4	3821.6	3896.3	3871.4	3692.6	3592.9
3848.8	20°	3663.1	3445.8	3424.3	3576.0	3788.8	3897.5	3768.4	3676.7
3727.7	22.5°	3423.1	3188.8	3139.0	3306.6	3626.9	3905.4	3864.6	3772.9
3594.1	25°	3195.6	2960.2	2910.4	3066.6	3446.9	3891.8	3968.8	3890.7
3466.2	27.5°	3005.4	2777.9	2731.5	2887.7	3273.7	3853.3	4072.9	4017.4
3339.4	30°	2858.3	2647.7	2613.8	2764.3	3124.3	3805.8	4205.4	4174.8
3221.7	32.5°	2772.3	2618.3	2630.8	2754.1	3043.9	3753.7	4332.1	4346.9
3163.9	35°	2857.2	2863.9	2972.6	3023.6	3118.6	3745.8	4504.2	4561.9
3233.0	37.5°	3279.4	3514.8	3740.1	3698.2	3484.3	3837.5	4761.2	4868.7
3534.1	40°	3998.2	4481.6	4847.2	4687.6	4148.8	4118.2	5131.3	5292.1
4068.4	42.5°	4876.6	5696.2	6298.4	5870.5	5005.7	4609.5	5660.0	5864.9
4714.8	45°	5803.7	7193.8	8142.4	7252.7	5919.2	5297.7	6460.3	6621.0
5320.4	47.5°	6780.6	9014.1	10241.1	8785.4	6765.9	6081.1	7551.5	7588.9
5894.3	50°	7849.2	11009.8	12380.6	10317.0	7583.2	6978.7	8885.0	8842.0
6563.3	52.5°	8866.9	13062.1	14474.8	11855.4	8300.9	8092.6	10432.4	10344.2
7477.9	55°	9838.2	15113.2	16581.4	13333.7	8977.8	9564.2	12270.8	11736.5
8796.7	57.5°	10964.5	16957.3	18752.6	14818.9	9924.2	11475.0	14326.5	12544.7
11322.2	60°	12629.6	19052.6	21207.9	16854.2	11724.1	13483.2	15063.4	12390.8
14346.9	62.5°	14755.5	20979.2	22993.0	18848.8	13531.8	13861.3	13977.9	11204.5
13729.9	65°	15168.7	21467.1	23093.8	19382.0	13298.7	11758.0	11411.6	9006.1
12264.0	67.5°	14072.9	20585.3	21685.6	18389.2	11763.7	9086.5	8563.5	6533.9
11301.8	70°	12843.6	18904.3	19231.4	16701.4	10346.4	6683.3	5783.4	4192.9
10643.0	72.5°	11583.7	16661.8	15984.9	14504.2	9093.3	4866.4	4171.4	2980.5
9704.6	75°	10087.2	13713.0	12591.2	12051.2	7528.9	3819.3	3017.9	2056.8
8347.3	77.5°	8077.9	9652.5	9352.5	9341.2	5657.7	2790.4	2013.8	1289.3
6521.4	80°	5698.5	6264.5	6111.6	7035.3	3795.6	2024.0	1212.4	717.7
4539.3	82.5°	2758.7	3463.9	3555.6	4189.5	1846.3	1190.9	279.6	156.2
1775.0	85°	1079.9	1670.8	1409.3	1590.5	518.5	331.7	6.8	0.0
292.1	87.5°	121.1	193.6	177.7	140.4	63.4	13.6	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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