

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: P949104

Luminaire Tested: **GALN-SB3D-950-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949104  
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-SB3D-950-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

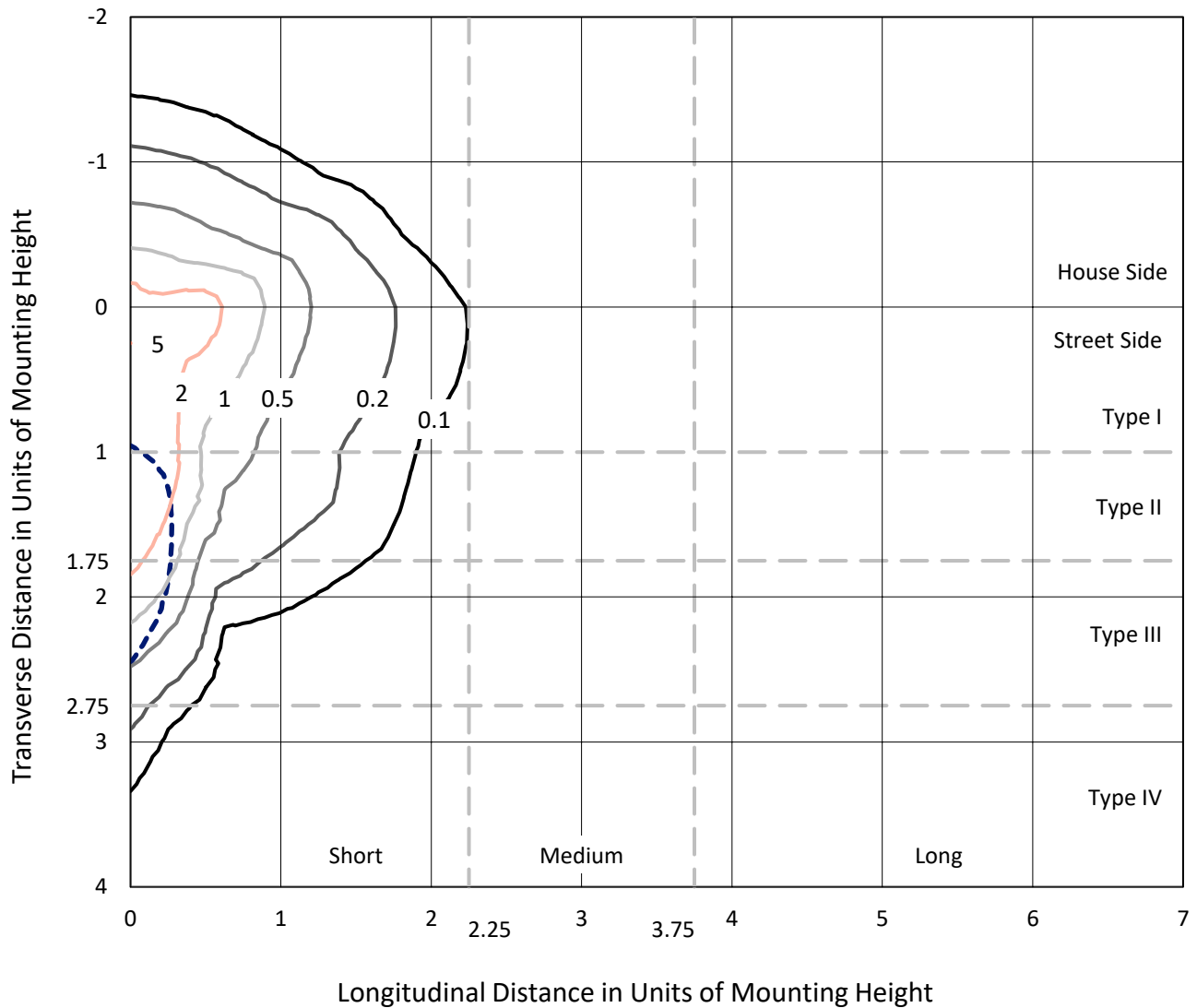
Lumens per Lamp: N/A  
Luminaire Lumens: 16210 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

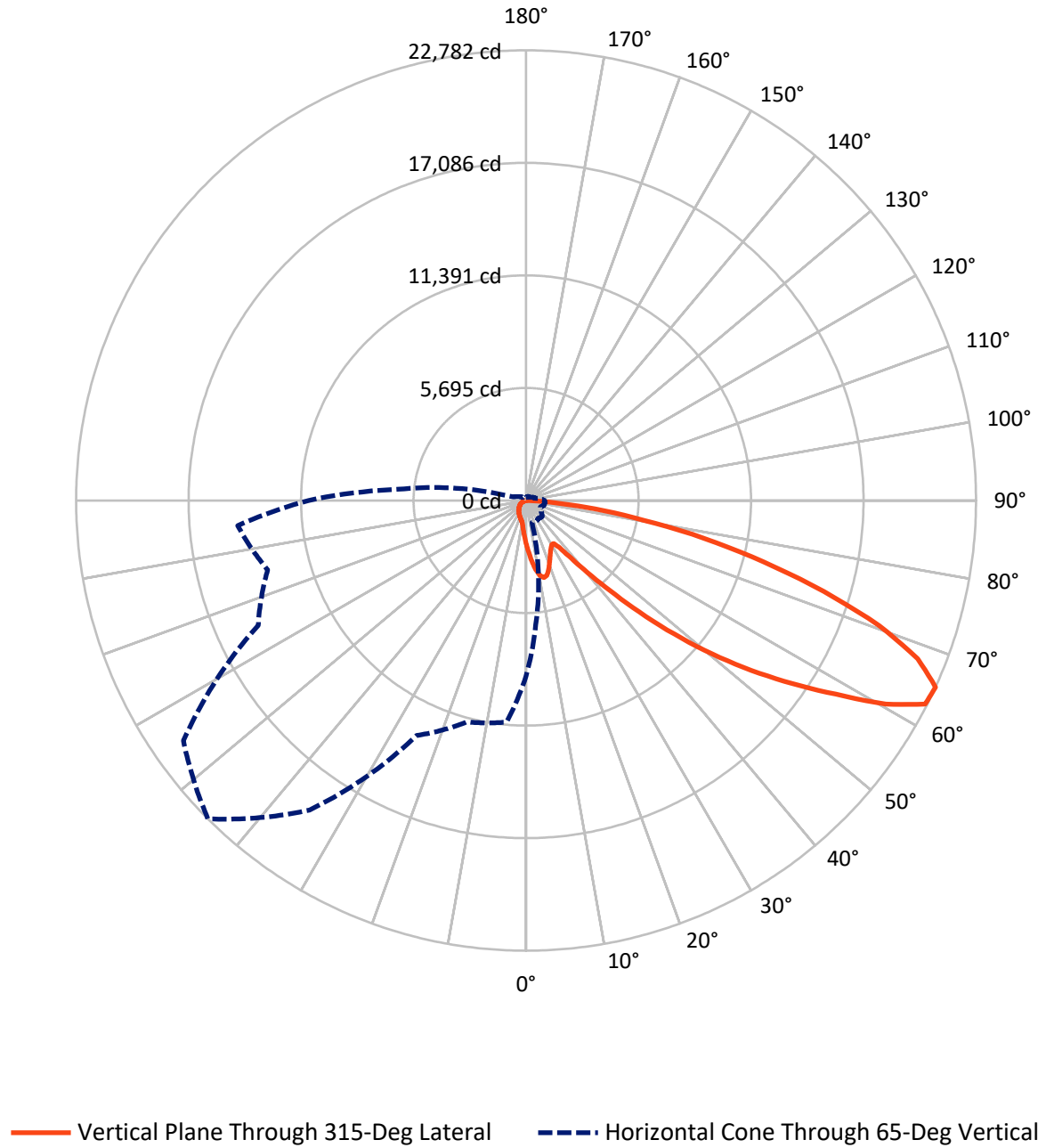
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2270.1	0.0	2270.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	13939.9	0.0	13939.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16210.0	0.0	16210.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	1.4
10°-20°	662.4	4.1
20°-30°	975.9	6.0
30°-40°	1253.8	7.7
40°-50°	2027.8	12.5
50°-60°	3555.9	21.9
60°-70°	4449.4	27.4
70°-80°	2600.0	16.0
80°-90°	463.9	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°	16210.0	100.0
0°-180°	16210.0	100.0

**Coefficient of Utilization**



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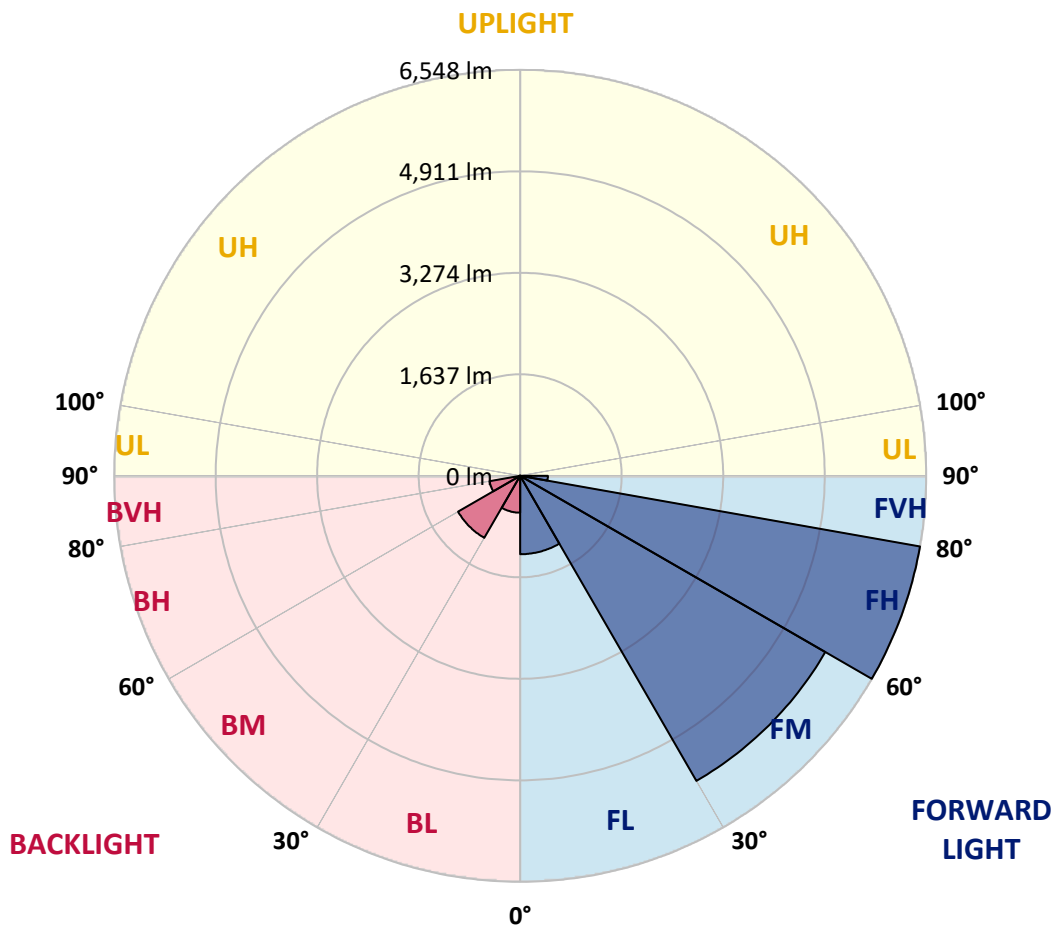
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.3	7.8			
FM (30°-60°)	5681.4	35.0			
FH (60°-80°)	6548.1	40.4			G3/7500
FVH (80°-90°)	446.1	2.8			G3/500
BL (0°-30°)	595.0	3.7	B2/1000		
BM (30°-60°)	1156.0	7.1	B2/2500		
BH (60°-80°)	501.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	17.8	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°	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6
2.5°	2536.0	2492.5	2466.8	2403.1	2339.5	2288.1	2218.9	2173.1	2118.4	2065.9
5°	2826.4	2756.0	2671.1	2555.0	2448.9	2340.6	2235.6	2131.8	2022.3	1921.8
7.5°	3072.0	2970.4	2820.8	2666.7	2531.6	2400.9	2278.1	2140.7	2007.8	1850.4
10°	3259.6	3130.1	2933.6	2731.4	2576.2	2444.5	2325.0	2208.8	2074.8	1885.0
12.5°	3373.5	3235.1	3001.7	2764.9	2587.4	2440.0	2347.3	2295.9	2243.4	2054.7
15°	3457.3	3307.7	3049.7	2788.4	2561.7	2380.8	2312.7	2364.1	2424.4	2303.8
17.5°	3544.4	3387.0	3112.2	2798.4	2492.5	2265.8	2236.7	2369.6	2509.2	2503.6
20°	3627.0	3470.7	3167.0	2791.7	2380.8	2126.2	2151.9	2321.6	2483.5	2551.7
22.5°	3722.0	3556.7	3219.4	2766.1	2235.6	1995.5	2075.9	2245.7	2387.5	2467.9
25°	3838.1	3665.0	3293.1	2728.1	2079.3	1887.2	1998.9	2157.5	2272.5	2328.3
27.5°	3963.2	3794.5	3391.4	2708.0	1953.1	1810.2	1911.8	2052.5	2155.2	2194.3
30°	4118.4	3945.3	3507.6	2685.7	1870.5	1765.5	1821.3	1930.8	2031.3	2070.4
32.5°	4288.1	4112.8	3619.2	2632.1	1820.2	1732.0	1733.1	1802.4	1893.9	1940.8
35°	4500.3	4313.8	3738.7	2514.8	1780.0	1692.9	1647.1	1680.6	1756.6	1812.4
37.5°	4802.9	4577.4	3885.0	2347.3	1720.8	1632.6	1556.7	1564.5	1622.6	1684.0
40°	5220.6	4931.3	4057.0	2173.1	1636.0	1547.7	1457.3	1453.9	1496.4	1556.7
42.5°	5785.6	5399.2	4263.6	2006.7	1554.4	1445.0	1352.3	1346.7	1380.2	1432.7
45°	6531.6	5997.8	4517.1	1863.8	1490.8	1344.5	1252.9	1250.7	1278.6	1324.4
47.5°	7486.4	6829.7	4770.5	1766.6	1457.3	1265.2	1171.4	1175.9	1200.5	1241.8
50°	8722.5	7914.1	4847.6	1717.5	1457.3	1222.8	1098.8	1121.2	1141.3	1172.5
52.5°	10204.4	8954.8	4593.0	1672.8	1466.2	1228.4	1037.4	1085.4	1099.9	1126.7
55°	11577.9	9465.1	3948.7	1611.4	1468.5	1263.0	984.9	1056.4	1083.2	1093.2
57.5°	12375.3	9289.8	3192.6	1507.5	1459.5	1286.4	951.4	1020.7	1072.0	1078.7
60°	12223.4	8674.5	2350.7	1428.3	1393.6	1277.5	941.4	965.9	1047.5	1057.5
62.5°	11053.1	7642.7	1631.5	1366.8	1248.5	1238.4	938.0	880.0	993.9	1018.4
65°	8884.5	6016.8	1152.4	1177.0	1094.4	1153.6	920.2	790.6	929.1	962.6
67.5°	6445.6	4071.5	831.9	953.7	991.6	1016.2	880.0	725.9	855.4	900.1
70°	4136.3	2198.8	584.0	629.8	835.3	863.2	810.7	667.8	780.6	831.9
72.5°	2940.3	1298.7	419.9	441.1	671.1	719.2	713.6	603.0	693.5	756.0
75°	2029.0	715.8	283.6	314.9	486.9	584.0	550.5	518.1	587.4	651.0
77.5°	1271.9	320.5	169.7	218.9	319.4	459.0	377.4	400.9	457.8	517.0
80°	708.0	124.0	94.9	145.2	174.2	333.9	208.8	258.0	337.2	379.7
82.5°	154.1	15.6	42.4	62.5	68.1	194.3	110.6	149.6	212.2	208.8
85°	0.0	0.0	7.8	8.9	4.5	83.8	40.2	49.1	69.2	64.8
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°
2244.6	0°	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6
2019.0	2.5°	2010.1	1955.3	1915.1	1895.0	1878.3	1893.9	1902.9	1902.9	1940.8	1963.2
1860.4	5°	1821.3	1723.1	1648.2	1598.0	1567.8	1577.9	1589.1	1601.3	1649.4	1681.7
1766.6	7.5°	1690.7	1539.9	1426.0	1355.7	1318.8	1324.4	1332.2	1342.3	1389.2	1421.6
1780.0	10°	1666.1	1449.5	1288.7	1196.0	1151.3	1143.5	1139.0	1135.7	1163.6	1188.2
1931.9	12.5°	1766.6	1453.9	1229.5	1116.7	1062.0	1038.5	1011.7	990.5	995.0	1010.6
2161.9	15°	1946.4	1510.9	1210.5	1075.4	1007.3	968.2	936.9	911.2	905.6	911.2
2362.9	17.5°	2151.9	1587.9	1208.3	1039.6	954.8	914.6	888.9	865.4	857.6	858.7
2475.7	20°	2288.1	1649.4	1201.6	999.4	904.5	868.8	846.5	823.0	815.2	817.4
2444.5	22.5°	2301.5	1681.7	1191.5	954.8	854.3	824.1	801.8	780.6	779.5	779.5
2327.2	25°	2228.9	1681.7	1170.3	914.6	806.3	779.5	759.4	733.7	738.1	740.4
2194.3	27.5°	2116.1	1641.5	1130.1	882.2	764.9	737.0	716.9	693.5	699.1	702.4
2070.4	30°	2004.5	1590.2	1082.1	845.3	725.9	693.5	679.0	658.9	661.1	665.6
1947.5	32.5°	1900.6	1535.5	1025.1	815.2	686.8	654.4	643.2	620.9	624.2	628.7
1826.9	35°	1797.9	1475.2	958.1	779.5	651.0	618.7	609.7	584.0	586.3	593.0
1706.3	37.5°	1687.3	1411.5	903.4	743.7	616.4	582.9	574.0	547.2	549.4	557.2
1581.2	40°	1571.2	1349.0	849.8	705.8	579.6	546.1	538.2	509.2	511.4	520.4
1458.4	42.5°	1453.9	1280.9	808.5	656.6	541.6	505.9	498.0	471.2	474.6	484.6
1351.2	45°	1345.6	1199.3	781.7	601.9	505.9	465.7	457.8	433.3	440.0	451.1
1260.8	47.5°	1252.9	1115.6	770.5	556.1	467.9	424.3	417.6	397.5	408.7	421.0
1183.7	50°	1173.7	1035.2	756.0	509.2	432.2	388.6	381.9	368.5	383.0	395.3
1131.2	52.5°	1116.7	943.6	724.7	466.8	400.9	358.5	356.2	349.5	362.9	374.1
1092.1	55°	1067.6	848.7	674.5	429.9	373.0	332.8	335.0	331.7	342.8	351.8
1068.7	57.5°	1022.9	766.1	610.8	400.9	342.8	310.4	317.1	312.7	318.3	323.8
1044.1	60°	969.3	682.3	534.9	368.5	307.1	288.1	295.9	283.6	282.5	284.8
999.4	62.5°	890.0	569.5	455.6	328.3	275.8	263.5	266.9	243.4	225.6	225.6
933.6	65°	779.5	457.8	381.9	283.6	240.1	230.0	227.8	194.3	169.7	167.5
862.1	67.5°	651.0	376.3	317.1	239.0	199.9	193.2	195.4	170.9	146.3	144.1
790.6	70°	530.4	311.6	255.7	191.0	154.1	160.8	170.9	146.3	122.8	119.5
706.9	72.5°	431.0	247.9	199.9	146.3	113.9	132.9	145.2	119.5	97.2	94.9
603.0	75°	332.8	182.0	142.9	99.4	82.6	102.7	113.9	87.1	69.2	65.9
466.8	77.5°	222.2	112.8	80.4	62.5	49.1	70.4	75.9	45.8	40.2	39.1
339.5	80°	135.1	52.5	34.6	30.2	16.8	25.7	30.2	19.0	21.2	22.3
180.9	82.5°	68.1	14.5	5.6	1.1	0.0	0.0	8.9	4.5	8.9	11.2
49.1	85°	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.6
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°
2244.6	0°	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6
1972.1	2.5°	2034.6	2081.5	2126.2	2197.7	2271.4	2344.0	2417.7	2489.1	2514.8	2533.8
1703.0	5°	1800.1	1888.3	1991.1	2132.9	2284.8	2441.1	2599.7	2744.8	2810.7	2855.4
1449.5	7.5°	1557.8	1672.8	1820.2	2033.5	2271.4	2520.4	2769.4	2998.3	3104.4	3190.4
1210.5	10°	1317.7	1442.8	1629.3	1872.7	2194.3	2551.7	2895.6	3210.5	3347.9	3456.2
1038.5	12.5°	1106.6	1223.9	1419.3	1688.4	2073.7	2527.1	2968.2	3346.7	3508.7	3630.4
915.7	15°	958.1	1040.8	1213.9	1504.2	1930.8	2447.8	2972.7	3411.5	3589.1	3716.4
864.3	17.5°	875.5	903.4	1016.2	1316.6	1772.2	2344.0	2931.3	3433.9	3623.7	3742.1
818.5	20°	830.8	835.3	866.6	1073.1	1569.0	2246.8	2892.3	3456.2	3656.1	3755.5
786.2	22.5°	795.1	795.1	802.9	877.7	1306.5	2130.7	2880.0	3495.3	3700.7	3762.2
749.3	25°	762.7	762.7	764.9	785.0	1035.2	1953.1	2872.2	3555.6	3762.2	3778.9
712.5	27.5°	729.2	730.3	730.3	741.5	834.2	1711.9	2838.7	3633.7	3835.9	3801.2
676.7	30°	695.7	697.9	697.9	705.8	738.1	1429.4	2772.8	3727.5	3931.9	3830.3
641.0	32.5°	662.2	664.4	664.4	671.1	694.6	1141.3	2690.1	3813.5	4029.1	3842.6
606.4	35°	627.6	630.9	628.7	637.6	662.2	907.9	2585.2	3899.5	4134.0	3881.6
572.9	37.5°	593.0	595.2	594.1	603.0	630.9	783.9	2463.4	3964.3	4277.0	3968.8
537.1	40°	558.3	557.2	557.2	567.3	597.4	748.2	2310.5	4067.0	4482.4	4121.7
501.4	42.5°	522.6	522.6	520.4	531.5	568.4	721.4	2164.2	4251.3	4781.7	4365.2
467.9	45°	490.2	489.1	484.6	494.7	540.5	674.5	2112.8	4595.2	5223.9	4759.4
434.4	47.5°	459.0	457.8	446.7	455.6	507.0	632.1	2304.9	5158.0	5837.0	5338.9
407.6	50°	431.0	432.2	410.9	418.8	473.5	599.7	2721.4	5888.4	6651.1	6119.5
385.3	52.5°	405.4	405.4	377.4	381.9	432.2	570.6	3117.8	6680.1	7725.3	7208.3
361.8	55°	379.7	377.4	346.2	348.4	390.8	529.3	3177.0	7452.9	9190.4	8846.5
336.1	57.5°	350.6	346.2	317.1	317.1	352.9	499.2	2753.8	8046.9	11008.4	11254.1
288.1	60°	314.9	311.6	292.6	287.0	322.7	526.0	1943.1	8116.2	12181.0	14455.7
228.9	62.5°	269.1	273.6	263.5	255.7	293.7	546.1	1151.3	7558.9	11897.3	15474.1
177.6	65°	212.2	230.0	227.8	222.2	322.7	460.1	680.1	6489.1	11027.4	14652.2
155.2	67.5°	180.9	193.2	189.8	189.8	338.4	349.5	427.7	5069.8	9830.3	13677.3
129.5	70°	154.1	166.4	154.1	154.1	255.7	212.2	295.9	3539.9	8538.3	12598.6
103.9	72.5°	127.3	139.6	126.2	117.3	204.4	158.6	216.6	2212.2	7312.1	11475.2
73.7	75°	97.2	111.7	101.6	90.5	135.1	118.4	164.2	1285.3	6058.1	9818.0
44.7	77.5°	61.4	80.4	75.9	63.7	99.4	86.0	118.4	764.9	4674.5	7671.7
26.8	80°	38.0	41.3	42.4	40.2	57.0	58.1	80.4	435.5	3199.3	5346.8
16.8	82.5°	24.6	24.6	19.0	21.2	27.9	33.5	45.8	164.2	1880.5	3255.2
10.1	85°	17.9	15.6	10.1	10.1	13.4	16.8	17.9	50.3	762.7	1285.3
4.5	87.5°	8.9	7.8	3.4	4.5	6.7	5.6	4.5	2.2	192.1	410.9
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2244.6	0°	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6	2244.6
2576.2	2.5°	2598.6	2633.2	2635.4	2635.4	2605.3	2604.1	2542.7	2536.0
2955.9	5°	3059.8	3082.1	3087.7	3076.5	3016.2	2971.5	2852.1	2826.4
3343.4	7.5°	3481.9	3526.5	3526.5	3499.7	3401.5	3309.9	3136.8	3072.0
3663.9	10°	3819.1	3870.5	3859.3	3804.6	3680.6	3554.5	3344.5	3259.6
3858.2	12.5°	3983.3	4035.8	4006.7	3944.2	3823.6	3690.7	3469.6	3373.5
3914.0	15°	3979.9	3965.4	3935.2	3927.4	3869.4	3768.9	3562.3	3457.3
3879.4	17.5°	3838.1	3715.3	3691.8	3770.0	3843.7	3819.1	3642.7	3544.4
3796.8	20°	3613.6	3399.2	3378.0	3527.7	3737.6	3844.8	3717.5	3627.0
3677.3	22.5°	3376.9	3145.7	3096.6	3261.9	3577.9	3852.6	3812.4	3722.0
3545.5	25°	3152.4	2920.2	2871.0	3025.1	3400.4	3839.2	3915.1	3838.1
3419.3	27.5°	2964.8	2740.4	2694.6	2848.7	3229.5	3801.2	4017.9	3963.2
3294.3	30°	2819.7	2612.0	2578.5	2727.0	3082.1	3754.3	4148.5	4118.4
3178.1	32.5°	2734.8	2582.9	2595.2	2716.9	3002.8	3703.0	4273.6	4288.1
3121.2	35°	2818.5	2825.3	2932.5	2982.7	3076.5	3695.2	4443.3	4500.3
3189.3	37.5°	3235.1	3467.4	3689.6	3648.3	3437.2	3785.6	4696.8	4802.9
3486.3	40°	3944.2	4421.0	4781.7	4624.3	4092.7	4062.6	5062.0	5220.6
4013.4	42.5°	4810.7	5619.2	6213.3	5791.2	4938.0	4547.2	5583.5	5785.6
4651.1	45°	5725.3	7096.6	8032.4	7154.7	5839.2	5226.2	6373.0	6531.6
5248.5	47.5°	6689.0	8892.3	10102.8	8666.7	6674.5	5998.9	7449.5	7486.4
5814.7	50°	7743.2	10861.0	12213.3	10177.6	7480.8	6884.5	8765.0	8722.5
6474.6	52.5°	8747.1	12885.6	14279.2	11695.2	8188.8	7983.3	10291.5	10204.4
7376.9	55°	9705.2	14909.1	16357.4	13153.6	8856.5	9435.0	12105.0	11577.9
8677.9	57.5°	10816.4	16728.2	18499.2	14618.7	9790.1	11320.0	14133.0	12375.3
11169.2	60°	12459.0	18795.2	20921.4	16626.5	11565.7	13301.0	14859.9	12223.4
14153.1	62.5°	14556.2	20695.8	22682.4	18594.2	13349.0	13674.0	13789.0	11053.1
13544.5	65°	14963.8	21177.1	22781.8	19120.1	13119.0	11599.2	11257.4	8884.5
12098.3	67.5°	13882.8	20307.2	21392.6	18140.8	11604.7	8963.7	8447.8	6445.6
11149.1	70°	12670.1	18648.9	18971.6	16475.8	10206.6	6593.0	5705.2	4136.3
10499.2	72.5°	11427.2	16436.7	15768.9	14308.3	8970.4	4800.7	4115.0	2940.3
9573.5	75°	9950.9	13527.7	12421.1	11888.4	7427.2	3767.7	2977.1	2029.0
8234.5	77.5°	7968.8	9522.1	9226.2	9215.0	5581.3	2752.7	1986.6	1271.9
6433.3	80°	5621.5	6179.8	6029.1	6940.3	3744.3	1996.7	1196.0	708.0
4478.0	82.5°	2721.4	3417.1	3507.6	4132.9	1821.3	1174.8	275.8	154.1
1751.0	85°	1065.3	1648.2	1390.3	1569.0	511.4	327.2	6.7	0.0
288.1	87.5°	119.5	191.0	175.3	138.5	62.5	13.4	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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