

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: P956769

Luminaire Tested: **GALN-SB9B-827-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956769  
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-SB9B-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

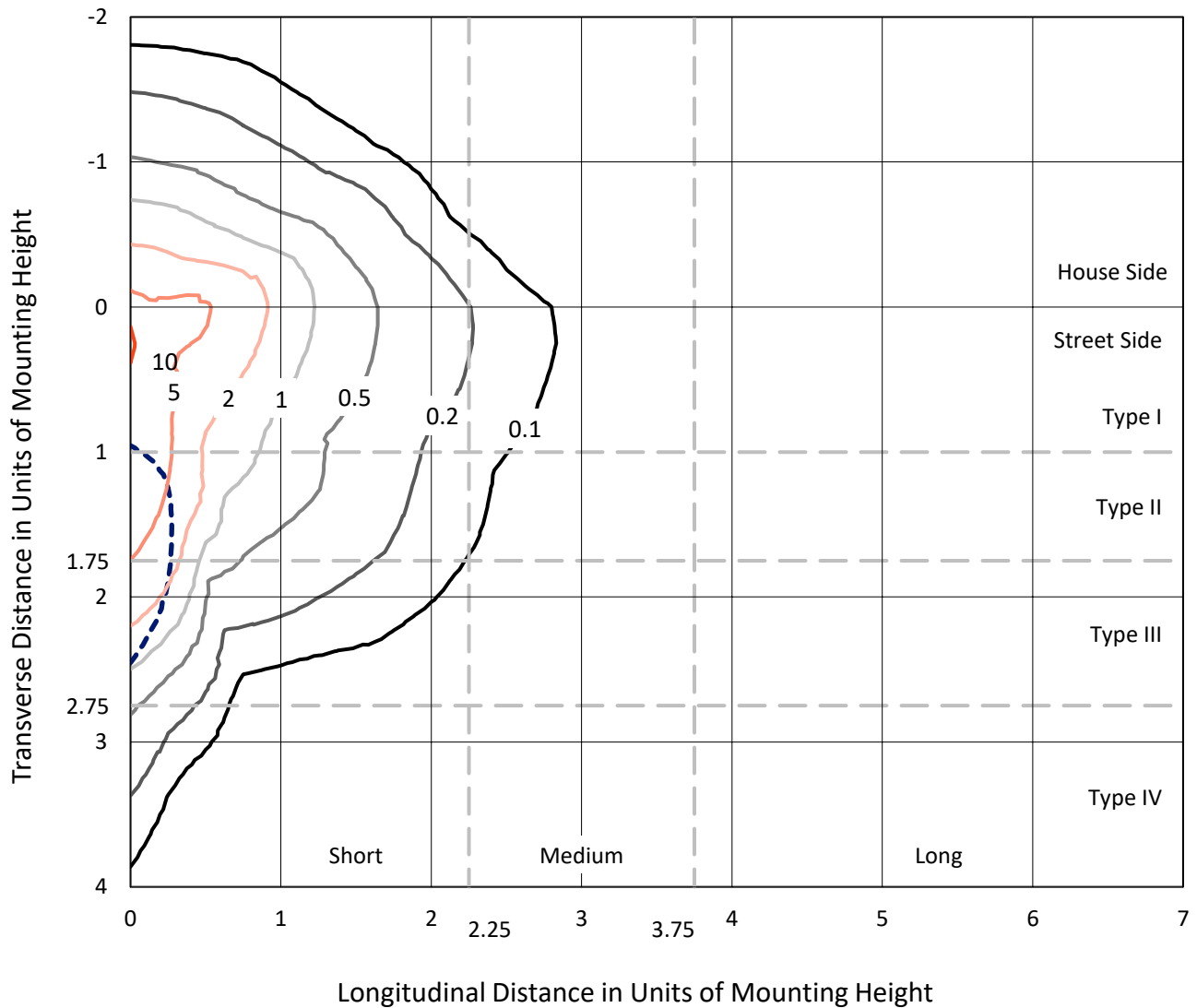
Lumens per Lamp: N/A  
Luminaire Lumens: 34038 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

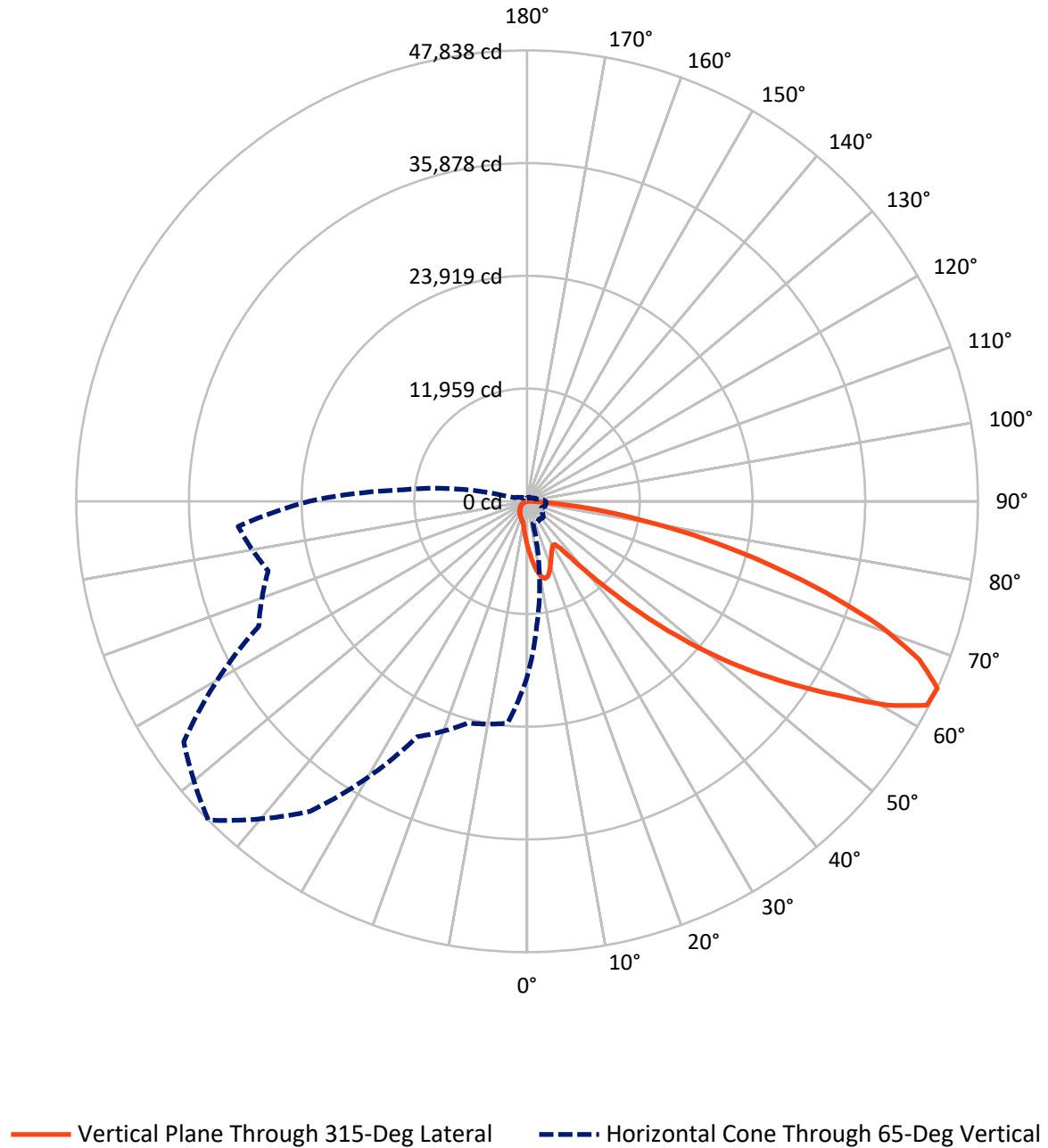
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	4766.8	0.0	4766.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	29271.2	0.0	29271.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	34038.0	0.0	34038.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.0	1.4
10°-20°	1391.0	4.1
20°-30°	2049.3	6.0
30°-40°	2632.7	7.7
40°-50°	4257.9	12.5
50°-60°	7466.7	21.9
60°-70°	9342.8	27.4
70°-80°	5459.5	16.0
80°-90°	974.1	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°	34038.0	100.0
0°-180°	34038.0	100.0

**Coefficient of Utilization**



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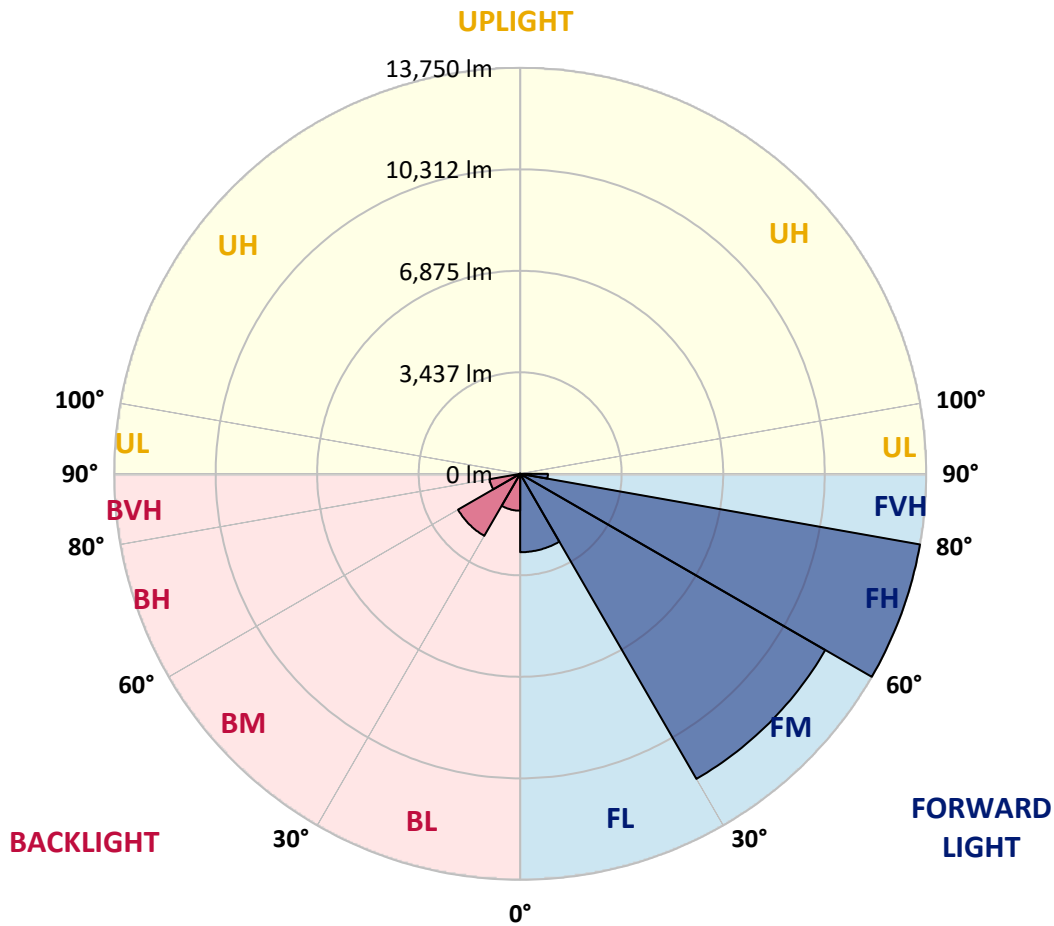
CATALOG NUMBER: GALN-SB9B-827-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2654.8	7.8			
FM (30°-60°)	11929.9	35.0			
FH (60°-80°)	13749.8	40.4			G5
FVH (80°-90°)	936.6	2.8			G5
BL (0°-30°)	1249.5	3.7	B3/2500		
BM (30°-60°)	2427.4	7.1	B2/2500		
BH (60°-80°)	1052.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	37.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
2.5°	5325.2	5233.7	5179.8	5046.1	4912.5	4804.6	4659.2	4563.1	4448.2	4338.0
5°	5934.8	5787.1	5608.9	5365.0	5142.3	4914.8	4694.4	4476.3	4246.5	4035.5
7.5°	6450.7	6237.3	5923.1	5599.5	5315.8	5041.5	4783.5	4495.1	4216.1	3885.4
10°	6844.7	6572.6	6160.0	5735.5	5409.6	5132.9	4882.0	4638.1	4356.8	3958.1
12.5°	7083.8	6793.1	6303.0	5805.9	5433.0	5123.5	4928.9	4821.0	4710.8	4314.5
15°	7259.7	6945.5	6403.8	5855.1	5379.1	4999.2	4856.2	4964.1	5090.7	4837.5
17.5°	7442.6	7112.0	6535.1	5876.2	5233.7	4757.7	4696.8	4975.8	5268.9	5257.2
20°	7616.1	7287.8	6650.0	5862.2	4999.2	4464.6	4518.6	4875.0	5215.0	5358.0
22.5°	7815.4	7468.4	6760.2	5808.2	4694.4	4190.3	4359.1	4715.5	5013.3	5182.1
25°	8059.3	7695.8	6915.0	5728.5	4366.1	3962.8	4197.3	4530.3	4771.8	4889.0
27.5°	8321.9	7967.8	7121.3	5686.3	4101.2	3801.0	4014.4	4309.9	4525.6	4607.7
30°	8647.9	8284.4	7365.2	5639.4	3927.6	3707.2	3824.5	4054.3	4265.3	4347.4
32.5°	9004.3	8636.1	7599.7	5526.8	3822.1	3636.9	3639.2	3784.6	3976.9	4075.4
35°	9449.8	9058.2	7850.6	5280.6	3737.7	3554.8	3458.7	3529.0	3688.5	3805.7
37.5°	10085.3	9611.6	8157.8	4928.9	3613.4	3428.2	3268.7	3285.2	3407.1	3536.1
40°	10962.2	10354.9	8518.9	4563.1	3435.2	3250.0	3060.0	3053.0	3142.1	3268.7
42.5°	12148.7	11337.4	8952.7	4213.7	3264.0	3034.3	2839.6	2827.9	2898.3	3008.5
45°	13715.1	12594.3	9485.0	3913.6	3130.4	2823.2	2630.9	2626.2	2684.9	2781.0
47.5°	15720.0	14341.2	10017.3	3709.6	3060.0	2656.7	2459.8	2469.1	2520.7	2607.5
50°	18315.7	16618.0	10179.0	3606.4	3060.0	2567.6	2307.3	2354.2	2396.4	2462.1
52.5°	21427.4	18803.5	9644.4	3512.6	3078.8	2579.3	2178.4	2279.2	2309.7	2366.0
55°	24311.5	19875.1	8291.4	3383.6	3083.5	2652.0	2068.2	2218.2	2274.5	2295.6
57.5°	25985.8	19506.9	6704.0	3165.6	3064.7	2701.3	1997.8	2143.2	2251.1	2265.1
60°	25666.9	18214.9	4935.9	2999.1	2926.4	2682.5	1976.7	2028.3	2199.5	2220.6
62.5°	23209.5	16048.2	3425.8	2870.1	2621.6	2600.5	1969.7	1847.8	2086.9	2138.5
65°	18655.7	12634.1	2419.9	2471.5	2298.0	2422.2	1932.2	1660.2	1950.9	2021.3
67.5°	13534.5	8549.4	1746.9	2002.5	2082.2	2133.8	1847.8	1524.2	1796.2	1890.0
70°	8685.4	4617.0	1226.4	1322.5	1754.0	1812.6	1702.4	1402.2	1639.1	1746.9
72.5°	6174.0	2727.1	881.7	926.2	1409.3	1510.1	1498.4	1266.2	1456.2	1587.5
75°	4260.6	1503.1	595.6	661.3	1022.4	1226.4	1156.0	1088.0	1233.4	1367.1
77.5°	2670.8	673.0	356.4	459.6	670.6	963.7	792.6	841.8	961.4	1085.7
80°	1486.6	260.3	199.3	304.8	365.8	701.1	438.5	541.7	708.1	797.3
82.5°	323.6	32.8	89.1	131.3	143.0	408.0	232.1	314.2	445.5	438.5
85°	0.0	0.0	16.4	18.8	9.4	175.9	84.4	103.2	145.4	136.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
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°
4713.2	0°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
4239.5	2.5°	4220.8	4105.9	4021.4	3979.2	3944.1	3976.9	3995.6	3995.6	4075.4	4122.3
3906.5	5°	3824.5	3618.1	3461.0	3355.5	3292.2	3313.3	3336.7	3362.5	3463.4	3531.4
3709.6	7.5°	3550.1	3233.6	2994.4	2846.7	2769.3	2781.0	2797.4	2818.5	2917.0	2985.0
3737.7	10°	3498.5	3043.6	2706.0	2511.3	2417.6	2401.1	2391.8	2384.7	2443.3	2494.9
4056.6	12.5°	3709.6	3053.0	2581.7	2344.9	2230.0	2180.7	2124.4	2079.9	2089.3	2122.1
4539.7	15°	4087.1	3172.6	2541.8	2258.1	2115.1	2033.0	1967.3	1913.4	1901.7	1913.4
4961.7	17.5°	4518.6	3334.4	2537.1	2183.1	2004.9	1920.4	1866.5	1817.3	1800.9	1803.2
5198.6	20°	4804.6	3463.4	2523.1	2098.7	1899.3	1824.3	1777.4	1728.2	1711.7	1716.4
5132.9	22.5°	4832.8	3531.4	2502.0	2004.9	1793.8	1730.5	1683.6	1639.1	1636.7	1636.7
4886.7	25°	4680.3	3531.4	2457.4	1920.4	1693.0	1636.7	1594.5	1540.6	1550.0	1554.6
4607.7	27.5°	4443.5	3446.9	2373.0	1852.4	1606.2	1547.6	1505.4	1456.2	1467.9	1474.9
4347.4	30°	4209.0	3339.1	2272.2	1775.1	1524.2	1456.2	1425.7	1383.5	1388.2	1397.5
4089.4	32.5°	3991.0	3224.2	2152.6	1711.7	1442.1	1374.1	1350.6	1303.7	1310.8	1320.2
3836.2	35°	3775.2	3097.6	2011.9	1636.7	1367.1	1299.1	1280.3	1226.4	1231.1	1245.1
3583.0	37.5°	3543.1	2963.9	1897.0	1561.7	1294.4	1224.0	1205.3	1149.0	1153.7	1170.1
3320.3	40°	3299.2	2832.6	1784.4	1482.0	1217.0	1146.6	1130.2	1069.3	1073.9	1092.7
3062.4	42.5°	3053.0	2689.6	1697.7	1378.8	1137.3	1062.2	1045.8	989.5	996.6	1017.7
2837.3	45°	2825.6	2518.4	1641.4	1263.9	1062.2	977.8	961.4	909.8	923.9	947.3
2647.3	47.5°	2630.9	2342.5	1618.0	1167.7	982.5	891.0	877.0	834.8	858.2	884.0
2485.6	50°	2464.5	2173.7	1587.5	1069.3	907.5	816.0	801.9	773.8	804.3	830.1
2375.3	52.5°	2344.9	1981.4	1521.8	980.2	841.8	752.7	748.0	733.9	762.1	785.5
2293.3	55°	2241.7	1782.1	1416.3	902.8	783.2	698.8	703.5	696.4	719.9	738.6
2244.0	57.5°	2147.9	1608.6	1282.6	841.8	719.9	651.9	665.9	656.6	668.3	680.0
2192.4	60°	2035.3	1432.7	1123.2	773.8	644.8	605.0	621.4	595.6	593.3	597.9
2098.7	62.5°	1868.9	1195.9	956.7	689.4	579.2	553.4	560.4	511.2	473.7	473.7
1960.3	65°	1636.7	961.4	801.9	595.6	504.1	483.0	478.4	408.0	356.4	351.7
1810.2	67.5°	1367.1	790.2	665.9	501.8	419.7	405.7	410.4	358.8	307.2	302.5
1660.2	70°	1113.8	654.2	537.0	401.0	323.6	337.7	358.8	307.2	257.9	250.9
1484.3	72.5°	905.1	520.6	419.7	307.2	239.2	279.0	304.8	250.9	204.0	199.3
1266.2	75°	698.8	382.2	300.1	208.7	173.5	215.7	239.2	182.9	145.4	138.3
980.2	77.5°	466.6	236.8	168.8	131.3	103.2	147.7	159.5	96.1	84.4	82.1
712.8	80°	283.7	110.2	72.7	63.3	35.2	53.9	63.3	39.9	44.6	46.9
379.9	82.5°	143.0	30.5	11.7	2.3	0.0	0.0	18.8	9.4	18.8	23.4
103.2	85°	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	11.7
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°
4713.2	0°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
4141.0	2.5°	4272.3	4370.8	4464.6	4614.7	4769.5	4921.9	5076.6	5226.7	5280.6	5320.5
3575.9	5°	3779.9	3965.2	4180.9	4478.7	4797.6	5125.9	5458.8	5763.7	5902.0	5995.8
3043.6	7.5°	3271.1	3512.6	3822.1	4270.0	4769.5	5292.4	5815.3	6296.0	6518.7	6699.3
2541.8	10°	2766.9	3029.6	3421.2	3932.3	4607.7	5358.0	6080.2	6741.5	7029.9	7257.3
2180.7	12.5°	2323.8	2570.0	2980.3	3545.4	4354.4	5306.4	6232.6	7027.6	7367.6	7623.1
1922.8	15°	2011.9	2185.4	2548.9	3158.5	4054.3	5139.9	6242.0	7163.6	7536.4	7803.7
1814.9	17.5°	1838.4	1897.0	2133.8	2764.6	3721.3	4921.9	6155.3	7210.5	7609.1	7857.6
1718.8	20°	1744.6	1754.0	1819.6	2253.4	3294.5	4717.9	6073.2	7257.3	7677.1	7885.8
1650.8	22.5°	1669.5	1669.5	1686.0	1843.1	2743.5	4474.0	6047.4	7339.4	7770.9	7899.8
1573.4	25°	1601.5	1601.5	1606.2	1648.4	2173.7	4101.2	6031.0	7466.0	7899.8	7935.0
1496.0	27.5°	1531.2	1533.5	1533.5	1557.0	1751.6	3594.7	5960.6	7630.2	8054.6	7981.9
1421.0	30°	1460.8	1465.5	1465.5	1482.0	1550.0	3001.4	5822.3	7827.2	8256.3	8042.9
1346.0	32.5°	1390.5	1395.2	1395.2	1409.3	1458.5	2396.4	5648.8	8007.7	8460.3	8068.7
1273.3	35°	1317.8	1324.8	1320.2	1338.9	1390.5	1906.4	5428.4	8188.3	8680.7	8150.7
1202.9	37.5°	1245.1	1249.8	1247.5	1266.2	1324.8	1646.1	5172.8	8324.3	8980.8	8333.6
1127.9	40°	1172.4	1170.1	1170.1	1191.2	1254.5	1571.1	4851.5	8540.0	9412.3	8654.9
1052.8	42.5°	1097.4	1097.4	1092.7	1116.2	1193.5	1514.8	4544.3	8926.9	10040.7	9166.1
982.5	45°	1029.4	1027.0	1017.7	1038.8	1134.9	1416.3	4436.5	9649.1	10969.3	9993.8
912.2	47.5°	963.7	961.4	937.9	956.7	1064.6	1327.2	4839.8	10830.9	12256.6	11210.8
855.9	50°	905.1	907.5	862.9	879.3	994.2	1259.2	5714.4	12364.5	13966.0	12849.8
809.0	52.5°	851.2	851.2	792.6	801.9	907.5	1198.2	6546.9	14027.0	16221.8	15136.1
759.7	55°	797.3	792.6	726.9	731.6	820.7	1111.5	6671.1	15649.6	19298.2	18576.0
705.8	57.5°	736.3	726.9	665.9	665.9	741.0	1048.2	5782.4	16897.1	23115.7	23631.5
605.0	60°	661.3	654.2	614.4	602.6	677.7	1104.4	4080.1	17042.5	25577.8	30354.2
480.7	62.5°	565.1	574.5	553.4	537.0	616.7	1146.6	2417.6	15872.4	24982.2	32492.8
372.8	65°	445.5	483.0	478.4	466.6	677.7	966.1	1428.0	13626.0	23155.5	30766.9
325.9	67.5°	379.9	405.7	398.6	398.6	710.5	733.9	898.1	10645.7	20641.8	28719.9
272.0	70°	323.6	349.4	323.6	323.6	537.0	445.5	621.4	7433.2	17928.8	26454.7
218.1	72.5°	267.3	293.1	265.0	246.2	429.1	333.0	454.9	4645.2	15354.2	24095.8
154.8	75°	204.0	234.5	213.4	189.9	283.7	248.6	344.7	2698.9	12720.9	20616.0
93.8	77.5°	129.0	168.8	159.5	133.7	208.7	180.6	248.6	1606.2	9815.6	16109.2
56.3	80°	79.7	86.8	89.1	84.4	119.6	121.9	168.8	914.5	6718.0	11227.2
35.2	82.5°	51.6	51.6	39.9	44.6	58.6	70.3	96.1	344.7	3948.7	6835.3
21.1	85°	37.5	32.8	21.1	21.1	28.1	35.2	37.5	105.5	1601.5	2698.9
9.4	87.5°	18.8	16.4	7.0	9.4	14.1	11.7	9.4	4.7	403.3	862.9
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°
4713.2	0°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
5409.6	2.5°	5456.5	5529.2	5533.9	5533.9	5470.6	5468.2	5339.3	5325.2
6206.9	5°	6424.9	6471.8	6483.5	6460.1	6333.5	6239.7	5988.8	5934.8
7020.5	7.5°	7311.3	7405.1	7405.1	7348.8	7142.5	6950.2	6586.7	6450.7
7693.5	10°	8019.4	8127.3	8103.8	7988.9	7728.7	7463.7	7022.9	6844.7
8101.5	12.5°	8364.1	8474.3	8413.4	8282.1	8028.8	7749.8	7285.5	7083.8
8218.7	15°	8357.1	8326.6	8263.3	8246.9	8124.9	7913.9	7480.1	7259.7
8146.1	17.5°	8059.3	7801.4	7752.1	7916.3	8071.0	8019.4	7648.9	7442.6
7972.5	20°	7588.0	7137.8	7093.2	7407.4	7848.3	8073.4	7806.0	7616.1
7721.6	22.5°	7090.9	6605.5	6502.3	6849.3	7512.9	8089.8	8005.4	7815.4
7444.9	25°	6619.5	6131.8	6028.6	6352.2	7140.1	8061.6	8221.1	8059.3
7180.0	27.5°	6225.6	5754.3	5658.2	5981.7	6781.3	7981.9	8436.8	8321.9
6917.3	30°	5920.8	5484.6	5414.3	5726.2	6471.8	7883.4	8711.2	8647.9
6673.5	32.5°	5742.6	5423.7	5449.5	5705.1	6305.3	7775.6	8973.8	9004.3
6553.9	35°	5918.4	5932.5	6157.6	6263.1	6460.1	7759.2	9330.2	9449.8
6696.9	37.5°	6793.1	7280.8	7747.4	7660.7	7217.5	7949.1	9862.5	10085.3
7320.7	40°	8282.1	9283.3	10040.7	9710.1	8593.9	8530.6	10629.3	10962.2
8427.4	42.5°	10101.7	11799.3	13046.8	12160.5	10369.0	9548.3	11724.3	12148.7
9766.4	45°	12022.1	14901.6	16866.6	15023.5	12261.3	10974.0	13382.1	13715.1
11020.9	47.5°	14045.7	18672.1	21214.0	18198.5	14015.2	12596.6	15642.6	15720.0
12209.7	50°	16259.3	22806.1	25645.8	21371.1	15708.2	14456.1	18404.8	18315.7
13595.5	52.5°	18367.3	27057.4	29983.8	24557.7	17194.9	16763.4	21610.3	21427.4
15490.2	55°	20379.2	31306.3	34347.5	27620.1	18597.1	19811.7	25418.3	24311.5
18221.9	57.5°	22712.3	35126.0	38845.0	30696.6	20557.4	23769.9	29676.6	25985.8
23453.3	60°	26161.6	39466.4	43931.0	34912.7	24285.7	27929.7	31203.1	25666.9
29718.8	62.5°	30565.3	43457.3	47628.8	39044.3	28030.5	28712.8	28954.4	23209.5
28440.8	65°	31421.2	44468.0	47837.5	40148.7	27547.4	24356.1	23638.6	18655.7
25404.2	67.5°	29151.3	42641.3	44920.5	38092.3	24367.8	18822.2	17738.9	13534.5
23411.1	70°	26604.8	39159.2	39836.9	34596.1	21432.0	13844.1	11979.9	8685.4
22046.4	72.5°	23995.0	34514.0	33111.8	30044.7	18836.3	10080.6	8640.8	6174.0
20102.5	75°	20895.1	28405.7	26081.9	24963.4	15595.7	7911.6	6251.4	4260.6
17291.0	77.5°	16732.9	19994.6	19373.3	19349.8	11719.6	5780.1	4171.5	2670.8
13508.8	80°	11804.0	12976.5	12659.9	14573.3	7862.3	4192.6	2511.3	1486.6
9402.9	82.5°	5714.4	7175.3	7365.2	8678.3	3824.5	2466.8	579.2	323.6
3676.7	85°	2237.0	3461.0	2919.4	3294.5	1073.9	687.0	14.1	0.0
605.0	87.5°	250.9	401.0	368.1	290.8	131.3	28.1	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)