

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: P956767

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956767  
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-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

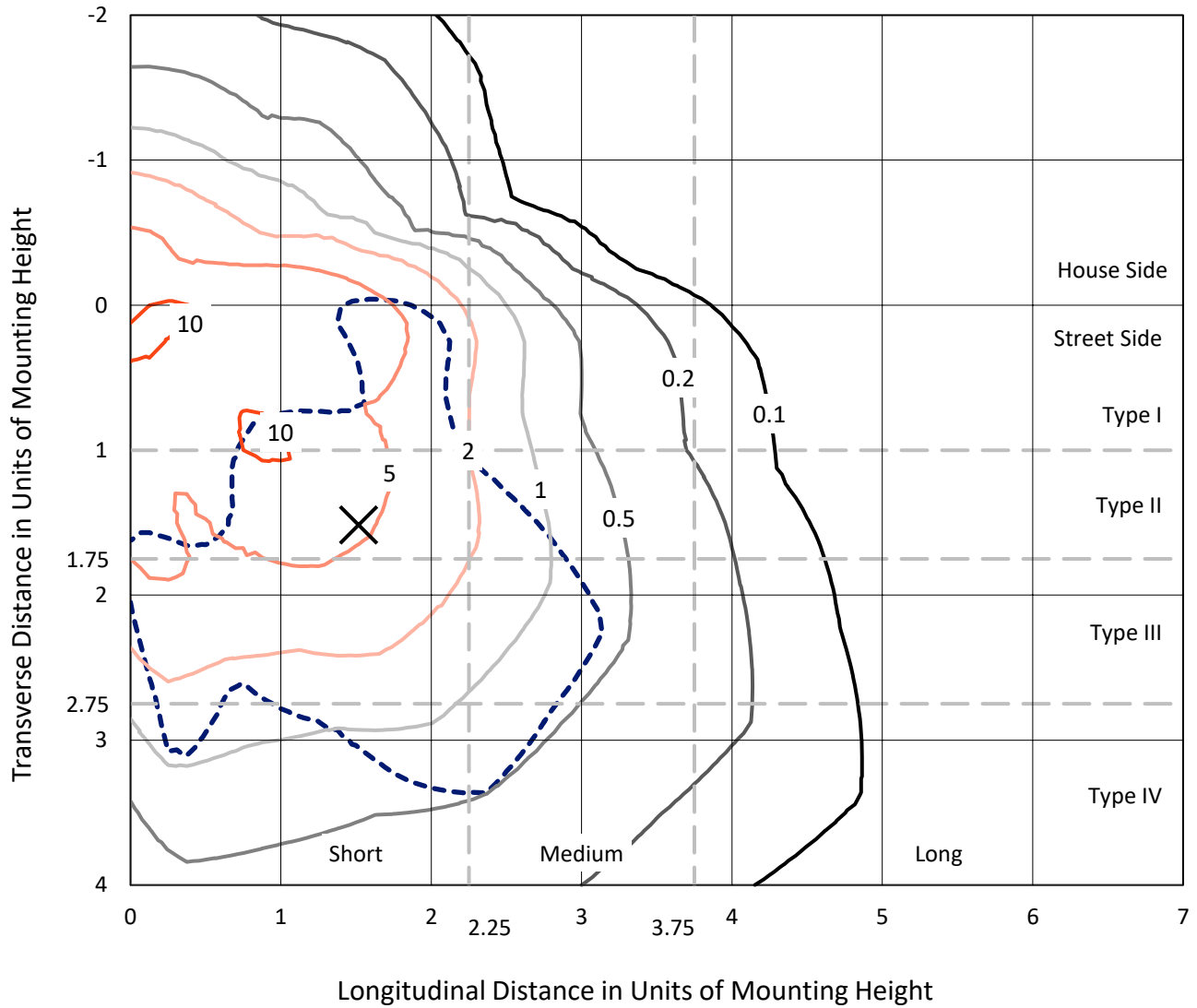
Lumens per Lamp: N/A  
Luminaire Lumens: 34038 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain):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

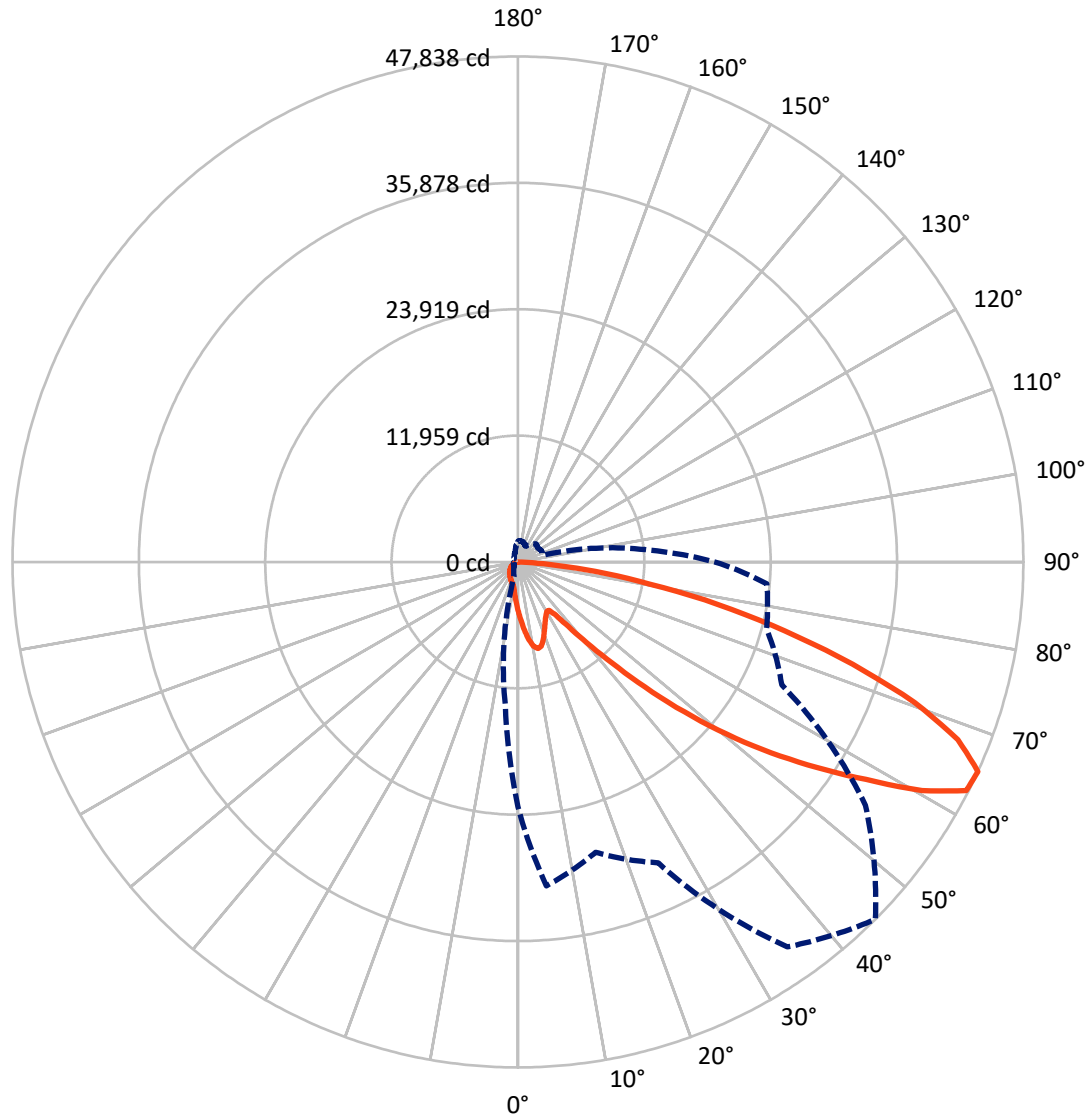
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6765.7	0.0	6765.7
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	27272.3	0.0	27272.3
	% Fixture	80.1	0.0	80.1
<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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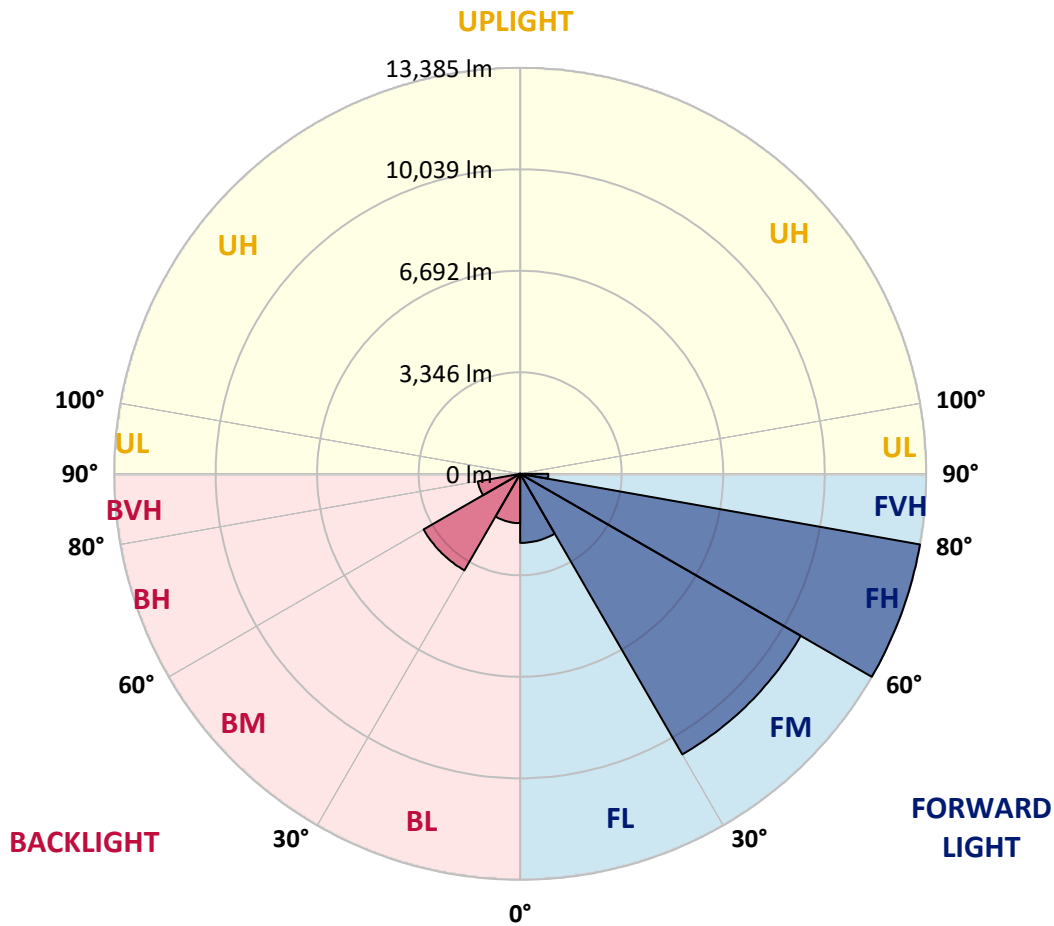
CATALOG NUMBER: GALN-SB9B-827-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.5	6.7			
FM (30°-60°)	10681.5	31.4			
FH (60°-80°)	13384.8	39.3			G5
FVH (80°-90°)	928.4	2.7			G5
BL (0°-30°)	1626.8	4.8	B3/2500		
BM (30°-60°)	3675.8	10.8	B3/5000		
BH (60°-80°)	1417.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	45.6	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°	5280.6	5320.5	5409.6	5456.5	5529.2	5533.9	5533.9	5470.6	5468.2	5339.3
5°	5902.0	5995.8	6206.9	6424.9	6471.8	6483.5	6460.1	6333.5	6239.7	5988.8
7.5°	6518.7	6699.3	7020.5	7311.3	7405.1	7405.1	7348.8	7142.5	6950.2	6586.7
10°	7029.9	7257.3	7693.5	8019.4	8127.3	8103.8	7988.9	7728.7	7463.7	7022.9
12.5°	7367.6	7623.1	8101.5	8364.1	8474.3	8413.4	8282.1	8028.8	7749.8	7285.5
15°	7536.4	7803.7	8218.7	8357.1	8326.6	8263.3	8246.9	8124.9	7913.9	7480.1
17.5°	7609.1	7857.6	8146.1	8059.3	7801.4	7752.1	7916.3	8071.0	8019.4	7648.9
20°	7677.1	7885.8	7972.5	7588.0	7137.8	7093.2	7407.4	7848.3	8073.4	7806.0
22.5°	7770.9	7899.8	7721.6	7090.9	6605.5	6502.3	6849.3	7512.9	8089.8	8005.4
25°	7899.8	7935.0	7444.9	6619.5	6131.8	6028.6	6352.2	7140.1	8061.6	8221.1
27.5°	8054.6	7981.9	7180.0	6225.6	5754.3	5658.2	5981.7	6781.3	7981.9	8436.8
30°	8256.3	8042.9	6917.3	5920.8	5484.6	5414.3	5726.2	6471.8	7883.4	8711.2
32.5°	8460.3	8068.7	6673.5	5742.6	5423.7	5449.5	5705.1	6305.3	7775.6	8973.8
35°	8680.7	8150.7	6553.9	5918.4	5932.5	6157.6	6263.1	6460.1	7759.2	9330.2
37.5°	8980.8	8333.6	6696.9	6793.1	7280.8	7747.4	7660.7	7217.5	7949.1	9862.5
40°	9412.3	8654.9	7320.7	8282.1	9283.3	10040.7	9710.1	8593.9	8530.6	10629.3
42.5°	10040.7	9166.1	8427.4	10101.7	11799.3	13046.8	12160.5	10369.0	9548.3	11724.3
45°	10969.3	9993.8	9766.4	12022.1	14901.6	16866.6	15023.5	12261.3	10974.0	13382.1
47.5°	12256.6	11210.8	11020.9	14045.7	18672.1	21214.0	18198.5	14015.2	12596.6	15642.6
50°	13966.0	12849.8	12209.7	16259.3	22806.1	25645.8	21371.1	15708.2	14456.1	18404.8
52.5°	16221.8	15136.1	13595.5	18367.3	27057.4	29983.8	24557.7	17194.9	16763.4	21610.3
55°	19298.2	18576.0	15490.2	20379.2	31306.3	34347.5	27620.1	18597.1	19811.7	25418.3
57.5°	23115.7	23631.5	18221.9	22712.3	35126.0	38845.0	30696.6	20557.4	23769.9	29676.6
60°	25577.8	30354.2	23453.3	26161.6	39466.4	43931.0	34912.7	24285.7	27929.7	31203.1
62.5°	24982.2	32492.8	29718.8	30565.3	43457.3	47628.8	39044.3	28030.5	28712.8	28954.4
65°	23155.5	30766.9	28440.8	31421.2	44468.0	47837.5	40148.7	27547.4	24356.1	23638.6
67.5°	20641.8	28719.9	25404.2	29151.3	42641.3	44920.5	38092.3	24367.8	18822.2	17738.9
70°	17928.8	26454.7	23411.1	26604.8	39159.2	39836.9	34596.1	21432.0	13844.1	11979.9
72.5°	15354.2	24095.8	22046.4	23995.0	34514.0	33111.8	30044.7	18836.3	10080.6	8640.8
75°	12720.9	20616.0	20102.5	20895.1	28405.7	26081.9	24963.4	15595.7	7911.6	6251.4
77.5°	9815.6	16109.2	17291.0	16732.9	19994.6	19373.3	19349.8	11719.6	5780.1	4171.5
80°	6718.0	11227.2	13508.8	11804.0	12976.5	12659.9	14573.3	7862.3	4192.6	2511.3
82.5°	3948.7	6835.3	9402.9	5714.4	7175.3	7365.2	8678.3	3824.5	2466.8	579.2
85°	1601.5	2698.9	3676.7	2237.0	3461.0	2919.4	3294.5	1073.9	687.0	14.1
87.5°	403.3	862.9	605.0	250.9	401.0	368.1	290.8	131.3	28.1	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):**

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
5325.2	2.5°	5233.7	5179.8	5046.1	4912.5	4804.6	4659.2	4563.1	4448.2	4338.0	4239.5
5934.8	5°	5787.1	5608.9	5365.0	5142.3	4914.8	4694.4	4476.3	4246.5	4035.5	3906.5
6450.7	7.5°	6237.3	5923.1	5599.5	5315.8	5041.5	4783.5	4495.1	4216.1	3885.4	3709.6
6844.7	10°	6572.6	6160.0	5735.5	5409.6	5132.9	4882.0	4638.1	4356.8	3958.1	3737.7
7083.8	12.5°	6793.1	6303.0	5805.9	5433.0	5123.5	4928.9	4821.0	4710.8	4314.5	4056.6
7259.7	15°	6945.5	6403.8	5855.1	5379.1	4999.2	4856.2	4964.1	5090.7	4837.5	4539.7
7442.6	17.5°	7112.0	6535.1	5876.2	5233.7	4757.7	4696.8	4975.8	5268.9	5257.2	4961.7
7616.1	20°	7287.8	6650.0	5862.2	4999.2	4464.6	4518.6	4875.0	5215.0	5358.0	5198.6
7815.4	22.5°	7468.4	6760.2	5808.2	4694.4	4190.3	4359.1	4715.5	5013.3	5182.1	5132.9
8059.3	25°	7695.8	6915.0	5728.5	4366.1	3962.8	4197.3	4530.3	4771.8	4889.0	4886.7
8321.9	27.5°	7967.8	7121.3	5686.3	4101.2	3801.0	4014.4	4309.9	4525.6	4607.7	4607.7
8647.9	30°	8284.4	7365.2	5639.4	3927.6	3707.2	3824.5	4054.3	4265.3	4347.4	4347.4
9004.3	32.5°	8636.1	7599.7	5526.8	3822.1	3636.9	3639.2	3784.6	3976.9	4075.4	4089.4
9449.8	35°	9058.2	7850.6	5280.6	3737.7	3554.8	3458.7	3529.0	3688.5	3805.7	3836.2
10085.3	37.5°	9611.6	8157.8	4928.9	3613.4	3428.2	3268.7	3285.2	3407.1	3536.1	3583.0
10962.2	40°	10354.9	8518.9	4563.1	3435.2	3250.0	3060.0	3053.0	3142.1	3268.7	3320.3
12148.7	42.5°	11337.4	8952.7	4213.7	3264.0	3034.3	2839.6	2827.9	2898.3	3008.5	3062.4
13715.1	45°	12594.3	9485.0	3913.6	3130.4	2823.2	2630.9	2626.2	2684.9	2781.0	2837.3
15720.0	47.5°	14341.2	10017.3	3709.6	3060.0	2656.7	2459.8	2469.1	2520.7	2607.5	2647.3
18315.7	50°	16618.0	10179.0	3606.4	3060.0	2567.6	2307.3	2354.2	2396.4	2462.1	2485.6
21427.4	52.5°	18803.5	9644.4	3512.6	3078.8	2579.3	2178.4	2279.2	2309.7	2366.0	2375.3
24311.5	55°	19875.1	8291.4	3383.6	3083.5	2652.0	2068.2	2218.2	2274.5	2295.6	2293.3
25985.8	57.5°	19506.9	6704.0	3165.6	3064.7	2701.3	1997.8	2143.2	2251.1	2265.1	2244.0
25666.9	60°	18214.9	4935.9	2999.1	2926.4	2682.5	1976.7	2028.3	2199.5	2220.6	2192.4
23209.5	62.5°	16048.2	3425.8	2870.1	2621.6	2600.5	1969.7	1847.8	2086.9	2138.5	2098.7
18655.7	65°	12634.1	2419.9	2471.5	2298.0	2422.2	1932.2	1660.2	1950.9	2021.3	1960.3
13534.5	67.5°	8549.4	1746.9	2002.5	2082.2	2133.8	1847.8	1524.2	1796.2	1890.0	1810.2
8685.4	70°	4617.0	1226.4	1322.5	1754.0	1812.6	1702.4	1402.2	1639.1	1746.9	1660.2
6174.0	72.5°	2727.1	881.7	926.2	1409.3	1510.1	1498.4	1266.2	1456.2	1587.5	1484.3
4260.6	75°	1503.1	595.6	661.3	1022.4	1226.4	1156.0	1088.0	1233.4	1367.1	1266.2
2670.8	77.5°	673.0	356.4	459.6	670.6	963.7	792.6	841.8	961.4	1085.7	980.2
1486.6	80°	260.3	199.3	304.8	365.8	701.1	438.5	541.7	708.1	797.3	712.8
323.6	82.5°	32.8	89.1	131.3	143.0	408.0	232.1	314.2	445.5	438.5	379.9
0.0	85°	0.0	16.4	18.8	9.4	175.9	84.4	103.2	145.4	136.0	103.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	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
4220.8	2.5°	4105.9	4021.4	3979.2	3944.1	3976.9	3995.6	3995.6	4075.4	4122.3	4141.0
3824.5	5°	3618.1	3461.0	3355.5	3292.2	3313.3	3336.7	3362.5	3463.4	3531.4	3575.9
3550.1	7.5°	3233.6	2994.4	2846.7	2769.3	2781.0	2797.4	2818.5	2917.0	2985.0	3043.6
3498.5	10°	3043.6	2706.0	2511.3	2417.6	2401.1	2391.8	2384.7	2443.3	2494.9	2541.8
3709.6	12.5°	3053.0	2581.7	2344.9	2230.0	2180.7	2124.4	2079.9	2089.3	2122.1	2180.7
4087.1	15°	3172.6	2541.8	2258.1	2115.1	2033.0	1967.3	1913.4	1901.7	1913.4	1922.8
4518.6	17.5°	3334.4	2537.1	2183.1	2004.9	1920.4	1866.5	1817.3	1800.9	1803.2	1814.9
4804.6	20°	3463.4	2523.1	2098.7	1899.3	1824.3	1777.4	1728.2	1711.7	1716.4	1718.8
4832.8	22.5°	3531.4	2502.0	2004.9	1793.8	1730.5	1683.6	1639.1	1636.7	1636.7	1650.8
4680.3	25°	3531.4	2457.4	1920.4	1693.0	1636.7	1594.5	1540.6	1550.0	1554.6	1573.4
4443.5	27.5°	3446.9	2373.0	1852.4	1606.2	1547.6	1505.4	1456.2	1467.9	1474.9	1496.0
4209.0	30°	3339.1	2272.2	1775.1	1524.2	1456.2	1425.7	1383.5	1388.2	1397.5	1421.0
3991.0	32.5°	3224.2	2152.6	1711.7	1442.1	1374.1	1350.6	1303.7	1310.8	1320.2	1346.0
3775.2	35°	3097.6	2011.9	1636.7	1367.1	1299.1	1280.3	1226.4	1231.1	1245.1	1273.3
3543.1	37.5°	2963.9	1897.0	1561.7	1294.4	1224.0	1205.3	1149.0	1153.7	1170.1	1202.9
3299.2	40°	2832.6	1784.4	1482.0	1217.0	1146.6	1130.2	1069.3	1073.9	1092.7	1127.9
3053.0	42.5°	2689.6	1697.7	1378.8	1137.3	1062.2	1045.8	989.5	996.6	1017.7	1052.8
2825.6	45°	2518.4	1641.4	1263.9	1062.2	977.8	961.4	909.8	923.9	947.3	982.5
2630.9	47.5°	2342.5	1618.0	1167.7	982.5	891.0	877.0	834.8	858.2	884.0	912.2
2464.5	50°	2173.7	1587.5	1069.3	907.5	816.0	801.9	773.8	804.3	830.1	855.9
2344.9	52.5°	1981.4	1521.8	980.2	841.8	752.7	748.0	733.9	762.1	785.5	809.0
2241.7	55°	1782.1	1416.3	902.8	783.2	698.8	703.5	696.4	719.9	738.6	759.7
2147.9	57.5°	1608.6	1282.6	841.8	719.9	651.9	665.9	656.6	668.3	680.0	705.8
2035.3	60°	1432.7	1123.2	773.8	644.8	605.0	621.4	595.6	593.3	597.9	605.0
1868.9	62.5°	1195.9	956.7	689.4	579.2	553.4	560.4	511.2	473.7	473.7	480.7
1636.7	65°	961.4	801.9	595.6	504.1	483.0	478.4	408.0	356.4	351.7	372.8
1367.1	67.5°	790.2	665.9	501.8	419.7	405.7	410.4	358.8	307.2	302.5	325.9
1113.8	70°	654.2	537.0	401.0	323.6	337.7	358.8	307.2	257.9	250.9	272.0
905.1	72.5°	520.6	419.7	307.2	239.2	279.0	304.8	250.9	204.0	199.3	218.1
698.8	75°	382.2	300.1	208.7	173.5	215.7	239.2	182.9	145.4	138.3	154.8
466.6	77.5°	236.8	168.8	131.3	103.2	147.7	159.5	96.1	84.4	82.1	93.8
283.7	80°	110.2	72.7	63.3	35.2	53.9	63.3	39.9	44.6	46.9	56.3
143.0	82.5°	30.5	11.7	2.3	0.0	0.0	18.8	9.4	18.8	23.4	35.2
11.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	11.7	21.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
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
4272.3	2.5°	4370.8	4464.6	4614.7	4769.5	4921.9	5076.6	5226.7	5280.6
3779.9	5°	3965.2	4180.9	4478.7	4797.6	5125.9	5458.8	5763.7	5902.0
3271.1	7.5°	3512.6	3822.1	4270.0	4769.5	5292.4	5815.3	6296.0	6518.7
2766.9	10°	3029.6	3421.2	3932.3	4607.7	5358.0	6080.2	6741.5	7029.9
2323.8	12.5°	2570.0	2980.3	3545.4	4354.4	5306.4	6232.6	7027.6	7367.6
2011.9	15°	2185.4	2548.9	3158.5	4054.3	5139.9	6242.0	7163.6	7536.4
1838.4	17.5°	1897.0	2133.8	2764.6	3721.3	4921.9	6155.3	7210.5	7609.1
1744.6	20°	1754.0	1819.6	2253.4	3294.5	4717.9	6073.2	7257.3	7677.1
1669.5	22.5°	1669.5	1686.0	1843.1	2743.5	4474.0	6047.4	7339.4	7770.9
1601.5	25°	1601.5	1606.2	1648.4	2173.7	4101.2	6031.0	7466.0	7899.8
1531.2	27.5°	1533.5	1533.5	1557.0	1751.6	3594.7	5960.6	7630.2	8054.6
1460.8	30°	1465.5	1465.5	1482.0	1550.0	3001.4	5822.3	7827.2	8256.3
1390.5	32.5°	1395.2	1395.2	1409.3	1458.5	2396.4	5648.8	8007.7	8460.3
1317.8	35°	1324.8	1320.2	1338.9	1390.5	1906.4	5428.4	8188.3	8680.7
1245.1	37.5°	1249.8	1247.5	1266.2	1324.8	1646.1	5172.8	8324.3	8980.8
1172.4	40°	1170.1	1170.1	1191.2	1254.5	1571.1	4851.5	8540.0	9412.3
1097.4	42.5°	1097.4	1092.7	1116.2	1193.5	1514.8	4544.3	8926.9	10040.7
1029.4	45°	1027.0	1017.7	1038.8	1134.9	1416.3	4436.5	9649.1	10969.3
963.7	47.5°	961.4	937.9	956.7	1064.6	1327.2	4839.8	10830.9	12256.6
905.1	50°	907.5	862.9	879.3	994.2	1259.2	5714.4	12364.5	13966.0
851.2	52.5°	851.2	792.6	801.9	907.5	1198.2	6546.9	14027.0	16221.8
797.3	55°	792.6	726.9	731.6	820.7	1111.5	6671.1	15649.6	19298.2
736.3	57.5°	726.9	665.9	665.9	741.0	1048.2	5782.4	16897.1	23115.7
661.3	60°	654.2	614.4	602.6	677.7	1104.4	4080.1	17042.5	25577.8
565.1	62.5°	574.5	553.4	537.0	616.7	1146.6	2417.6	15872.4	24982.2
445.5	65°	483.0	478.4	466.6	677.7	966.1	1428.0	13626.0	23155.5
379.9	67.5°	405.7	398.6	398.6	710.5	733.9	898.1	10645.7	20641.8
323.6	70°	349.4	323.6	323.6	537.0	445.5	621.4	7433.2	17928.8
267.3	72.5°	293.1	265.0	246.2	429.1	333.0	454.9	4645.2	15354.2
204.0	75°	234.5	213.4	189.9	283.7	248.6	344.7	2698.9	12720.9
129.0	77.5°	168.8	159.5	133.7	208.7	180.6	248.6	1606.2	9815.6
79.7	80°	86.8	89.1	84.4	119.6	121.9	168.8	914.5	6718.0
51.6	82.5°	51.6	39.9	44.6	58.6	70.3	96.1	344.7	3948.7
37.5	85°	32.8	21.1	21.1	28.1	35.2	37.5	105.5	1601.5
18.8	87.5°	16.4	7.0	9.4	14.1	11.7	9.4	4.7	403.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)