

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: P956053

Luminaire Tested: **GALN-SB8D-827-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956053  
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-SB8D-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

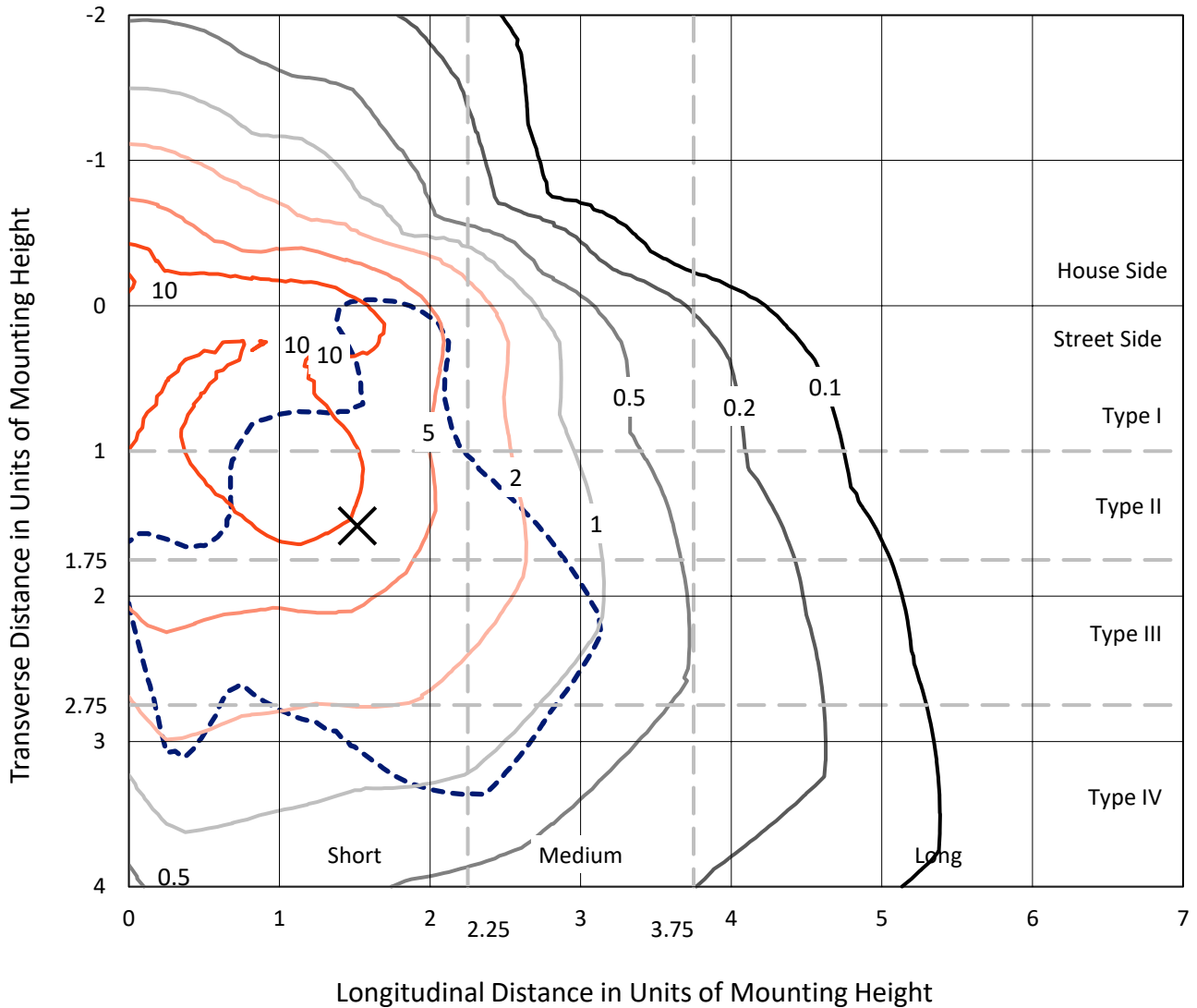
Lumens per Lamp: N/A  
Luminaire Lumens: 54608 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

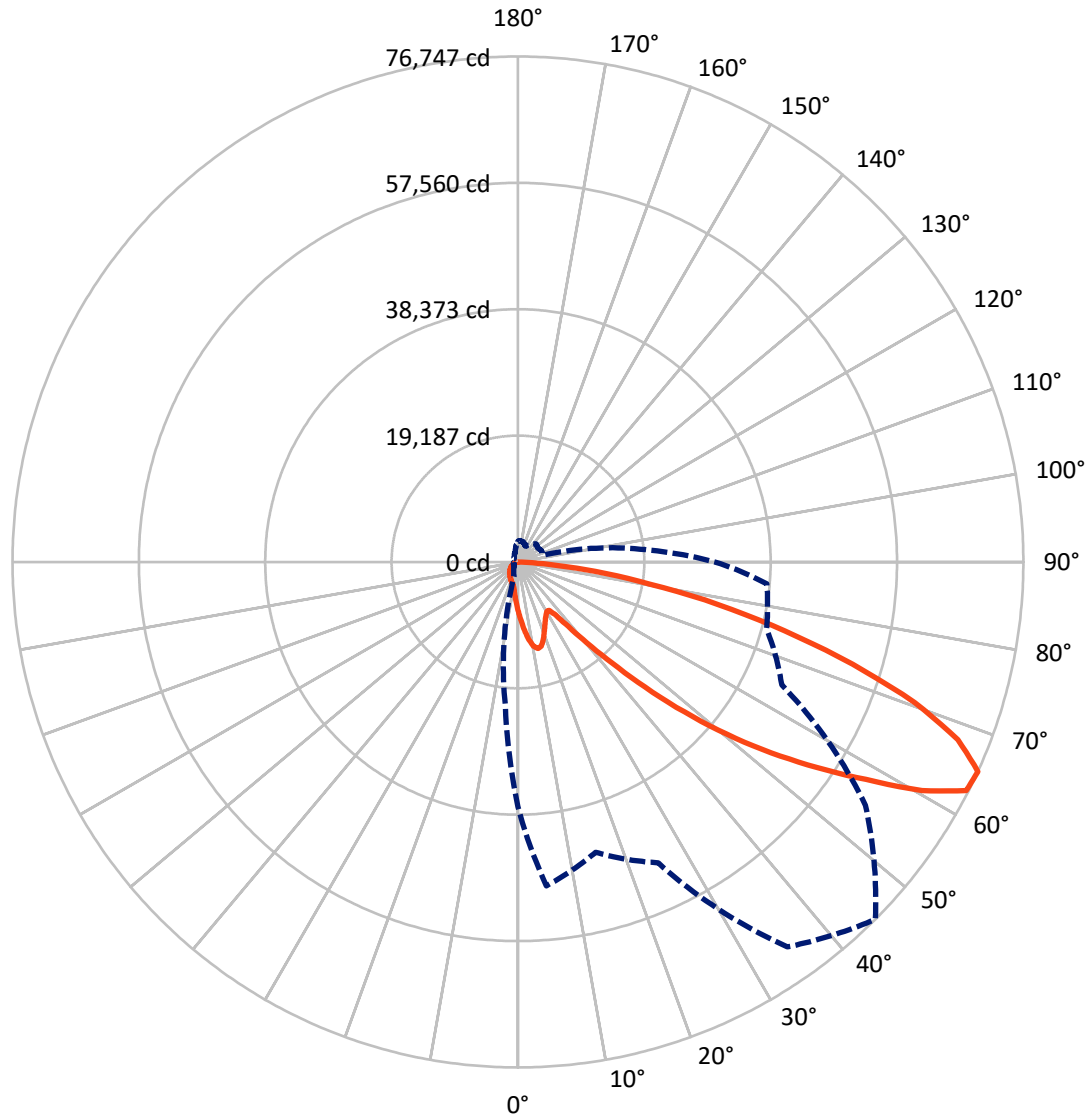
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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	10854.4	0.0	10854.4
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	43753.6	0.0	43753.6
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	54608.0	0.0	54608.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	744.5	1.4
10°-20°	2231.6	4.1
20°-30°	3287.7	6.0
30°-40°	4223.8	7.7
40°-50°	6831.1	12.5
50°-60°	11978.9	21.9
60°-70°	14988.9	27.4
70°-80°	8758.8	16.0
80°-90°	1562.7	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°	54608.0	100.0
0°-180°	54608.0	100.0



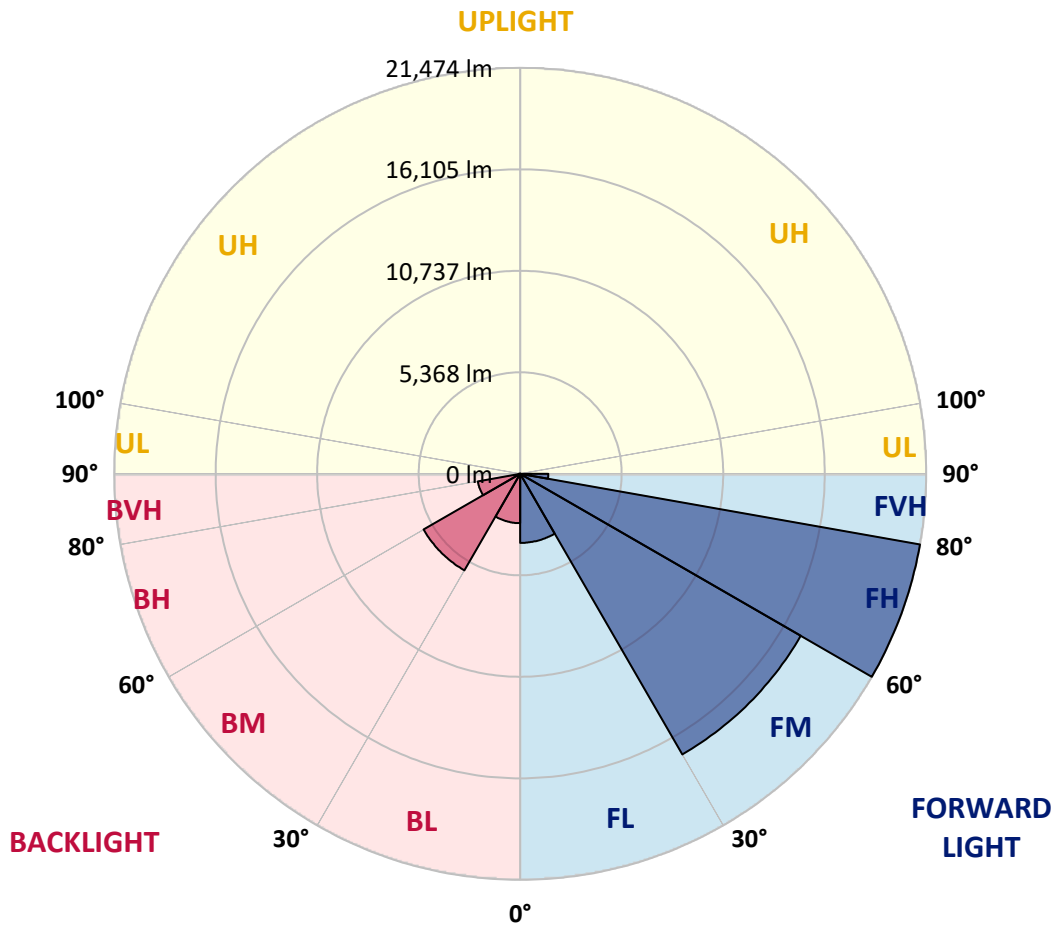
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3653.9	6.7			
FM (30°-60°)	17136.7	31.4			
FH (60°-80°)	21473.6	39.3			G5
FVH (80°-90°)	1489.5	2.7			G5
BL (0°-30°)	2609.8	4.8	B4/5000		
BM (30°-60°)	5897.1	10.8	B4/8500		
BH (60°-80°)	2274.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	73.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5
2.5°	8471.8	8535.8	8678.8	8754.0	8870.6	8878.1	8878.1	8776.6	8772.8	8565.9
5°	9468.8	9619.2	9957.8	10307.7	10382.9	10401.7	10364.1	10160.9	10010.5	9607.9
7.5°	10458.1	10747.8	11263.2	11729.7	11880.1	11880.1	11789.9	11458.8	11150.3	10567.2
10°	11278.2	11643.1	12342.9	12865.8	13038.8	13001.2	12816.9	12399.3	11974.2	11267.0
12.5°	11820.0	12230.0	12997.4	13418.8	13595.6	13497.8	13287.1	12880.8	12433.1	11688.3
15°	12090.8	12519.7	13185.5	13407.5	13358.6	13257.0	13230.7	13035.1	12696.5	12000.5
17.5°	12207.4	12606.2	13068.9	12929.7	12515.9	12436.9	12700.2	12948.5	12865.8	12271.4
20°	12316.5	12651.3	12790.5	12173.6	11451.3	11379.8	11883.9	12591.1	12952.3	12523.4
22.5°	12467.0	12673.9	12388.0	11376.0	10597.3	10431.8	10988.6	12053.2	12978.6	12843.2
25°	12673.9	12730.3	11944.1	10619.9	9837.4	9671.9	10191.0	11455.0	12933.5	13189.3
27.5°	12922.2	12805.6	11519.0	9987.9	9231.8	9077.5	9596.7	10879.5	12805.6	13535.4
30°	13245.7	12903.4	11097.7	9498.8	8799.1	8686.3	9186.6	10382.9	12647.6	13975.5
32.5°	13573.0	12944.8	10706.4	9212.9	8701.3	8742.7	9152.8	10115.8	12474.5	14396.9
35°	13926.6	13076.4	10514.6	9495.1	9517.7	9878.8	10048.1	10364.1	12448.2	14968.7
37.5°	14408.2	13369.9	10744.0	10898.3	11680.8	12429.4	12290.2	11579.2	12752.9	15822.6
40°	15100.3	13885.2	11744.7	13287.1	14893.4	16108.5	15578.1	13787.4	13685.9	17052.8
42.5°	16108.5	14705.3	13520.3	16206.4	18930.0	20931.3	19509.3	16635.2	15318.5	18809.6
45°	17598.3	16033.3	15668.4	19287.4	23907.0	27059.5	24102.6	19671.1	17605.8	21469.3
47.5°	19663.6	17985.7	17681.0	22533.9	29956.2	34034.1	29196.3	22485.0	20209.0	25095.8
50°	22406.0	20615.3	19588.3	26085.2	36588.4	41144.1	34286.1	25201.1	23192.2	29527.3
52.5°	26025.0	24283.2	21811.6	29467.1	43408.8	48103.7	39398.6	27586.2	26894.0	34669.9
55°	30960.6	29801.9	24851.2	32694.9	50225.4	55104.6	44311.7	29835.8	31784.5	40779.2
57.5°	37085.0	37912.6	29233.9	36438.0	56353.6	62320.0	49247.3	32980.8	38134.6	47610.9
60°	41035.0	48698.1	37626.7	41971.7	63316.9	70479.6	56011.2	38962.2	44808.2	50059.9
62.5°	40079.5	52128.9	47678.6	49036.6	69719.7	76412.1	62639.7	44970.0	46064.7	46452.2
65°	37149.0	49360.2	45628.3	50409.7	71341.1	76746.9	64411.6	44195.0	39075.1	37923.9
67.5°	33116.2	46076.0	40756.6	46768.2	68410.5	72067.1	61112.4	39093.9	30196.9	28458.9
70°	28763.6	42442.0	37559.0	42682.8	62824.1	63911.3	55503.4	34384.0	22210.4	19219.7
72.5°	24633.1	38657.5	35369.6	38495.7	55371.7	53122.1	48201.5	30219.5	16172.5	13862.7
75°	20408.4	33074.8	32250.9	33522.5	45571.9	41843.8	40049.4	25020.5	12692.7	10029.3
77.5°	15747.4	25844.4	27740.4	26845.1	32077.9	31081.0	31043.4	18802.1	9273.1	6692.5
80°	10777.9	18012.1	21672.4	18937.5	20818.5	20310.6	23380.3	12613.7	6726.3	4029.0
82.5°	6335.1	10966.0	15085.3	9167.8	11511.5	11816.2	13922.9	6135.7	3957.5	929.2
85°	2569.4	4330.0	5898.7	3588.9	5552.6	4683.6	5285.5	1723.0	1102.2	22.6
87.5°	647.1	1384.4	970.6	402.5	643.3	590.6	466.5	210.7	45.1	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°
7561.5	0°	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5
8543.3	2.5°	8396.6	8310.1	8095.7	7881.2	7708.2	7474.9	7320.7	7136.4	6959.6	6801.6
9521.4	5°	9284.4	8998.5	8607.3	8249.9	7885.0	7531.4	7181.5	6812.8	6474.3	6267.4
10349.0	7.5°	10006.7	9502.6	8983.5	8528.3	8088.1	7674.3	7211.6	6763.9	6233.5	5951.4
10981.0	10°	10544.7	9882.6	9201.7	8678.8	8234.8	7832.3	7441.1	6989.6	6350.1	5996.5
11364.8	12.5°	10898.3	10112.0	9314.5	8716.4	8219.8	7907.6	7734.5	7557.7	6921.9	6508.1
11646.9	15°	11142.8	10273.8	9393.5	8629.8	8020.4	7790.9	7964.0	8167.1	7760.8	7283.1
11940.3	17.5°	11409.9	10484.5	9427.4	8396.6	7632.9	7535.1	7982.8	8453.0	8434.2	7960.2
12218.7	20°	11692.0	10668.8	9404.8	8020.4	7162.7	7249.2	7821.0	8366.5	8596.0	8340.2
12538.5	22.5°	11981.7	10845.6	9318.3	7531.4	6722.6	6993.4	7565.2	8043.0	8313.8	8234.8
12929.7	25°	12346.6	11093.9	9190.4	7004.7	6357.6	6733.8	7268.0	7655.5	7843.6	7839.8
13351.1	27.5°	12783.0	11425.0	9122.7	6579.6	6098.1	6440.4	6914.4	7260.5	7392.2	7392.2
13874.0	30°	13290.9	11816.2	9047.4	6301.2	5947.6	6135.7	6504.4	6842.9	6974.6	6974.6
14445.8	32.5°	13855.2	12192.4	8866.8	6131.9	5834.7	5838.5	6071.7	6380.2	6538.2	6560.8
15160.5	35°	14532.3	12594.9	8471.8	5996.5	5703.1	5548.8	5661.7	5917.5	6105.6	6154.5
16180.0	37.5°	15420.1	13087.7	7907.6	5797.1	5499.9	5244.1	5270.5	5466.1	5673.0	5748.2
17587.0	40°	16612.6	13667.1	7320.7	5511.2	5214.0	4909.3	4898.0	5041.0	5244.1	5326.9
19490.5	42.5°	18188.9	14363.0	6760.2	5236.6	4867.9	4555.7	4536.9	4649.7	4826.5	4913.1
22003.5	45°	20205.3	15217.0	6278.6	5022.2	4529.4	4220.9	4213.4	4307.4	4461.6	4551.9
25219.9	47.5°	23007.9	16070.9	5951.4	4909.3	4262.3	3946.3	3961.3	4044.1	4183.3	4247.2
29384.4	50°	26660.7	16330.5	5785.8	4909.3	4119.3	3701.7	3777.0	3844.7	3950.0	3987.6
34376.4	52.5°	30166.8	15472.8	5635.4	4939.4	4138.1	3494.8	3656.6	3705.5	3795.8	3810.8
39003.6	55°	31886.0	13302.2	5428.5	4946.9	4254.7	3318.0	3558.8	3649.1	3682.9	3679.2
41689.6	57.5°	31295.4	10755.3	5078.6	4916.8	4333.7	3205.2	3438.4	3611.4	3634.0	3600.2
41178.0	60°	29222.6	7918.8	4811.5	4694.9	4303.6	3171.3	3254.1	3528.7	3562.5	3517.4
37235.5	62.5°	25746.6	5496.2	4604.6	4205.8	4172.0	3160.0	2964.4	3348.1	3430.9	3366.9
29929.8	65°	20269.2	3882.3	3965.1	3686.7	3886.1	3099.8	2663.4	3129.9	3242.8	3145.0
21713.8	67.5°	13716.0	2802.6	3212.7	3340.6	3423.3	2964.4	2445.2	2881.6	3032.1	2904.2
13934.2	70°	7407.2	1967.5	2121.7	2813.9	2908.0	2731.2	2249.6	2629.6	2802.6	2663.4
9905.1	72.5°	4375.1	1414.5	1486.0	2260.9	2422.7	2403.9	2031.4	2336.2	2546.8	2381.3
6835.4	75°	2411.4	955.5	1060.9	1640.2	1967.5	1854.6	1745.5	1978.8	2193.2	2031.4
4284.8	77.5°	1079.7	571.8	737.3	1075.9	1546.1	1271.5	1350.5	1542.4	1741.8	1572.5
2385.1	80°	417.6	319.8	489.0	586.9	1124.8	703.5	869.0	1136.1	1279.1	1143.6
519.1	82.5°	52.7	143.0	210.7	229.5	654.6	372.4	504.1	714.8	703.5	609.4
0.0	85°	0.0	26.3	30.1	15.0	282.1	135.4	165.5	233.2	218.2	165.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	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°
7561.5	0°	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5
6771.5	2.5°	6587.1	6451.7	6384.0	6327.6	6380.2	6410.3	6410.3	6538.2	6613.5	6643.6
6135.7	5°	5804.6	5552.6	5383.3	5281.7	5315.6	5353.2	5394.6	5556.4	5665.5	5736.9
5695.5	7.5°	5187.7	4804.0	4567.0	4442.8	4461.6	4488.0	4521.8	4679.8	4788.9	4883.0
5612.8	10°	4883.0	4341.3	4029.0	3878.5	3852.2	3837.2	3825.9	3919.9	4002.7	4077.9
5951.4	12.5°	4898.0	4141.9	3761.9	3577.6	3498.6	3408.3	3336.8	3351.9	3404.5	3498.6
6557.0	15°	5089.9	4077.9	3622.7	3393.3	3261.6	3156.3	3069.7	3050.9	3069.7	3084.8
7249.2	17.5°	5349.5	4070.4	3502.3	3216.4	3081.0	2994.5	2915.5	2889.2	2892.9	2911.7
7708.2	20°	5556.4	4047.8	3366.9	3047.2	2926.8	2851.5	2772.5	2746.2	2753.7	2757.5
7753.3	22.5°	5665.5	4014.0	3216.4	2877.9	2776.3	2701.1	2629.6	2625.8	2625.8	2648.4
7508.8	25°	5665.5	3942.5	3081.0	2716.1	2625.8	2558.1	2471.6	2486.6	2494.2	2524.2
7128.8	27.5°	5530.0	3807.1	2971.9	2576.9	2482.9	2415.2	2336.2	2355.0	2366.2	2400.1
6752.6	30°	5357.0	3645.3	2847.8	2445.2	2336.2	2287.2	2219.5	2227.1	2242.1	2279.7
6402.8	32.5°	5172.6	3453.4	2746.2	2313.6	2204.5	2166.9	2091.6	2102.9	2118.0	2159.3
6056.7	35°	4969.5	3227.7	2625.8	2193.2	2084.1	2054.0	1967.5	1975.0	1997.6	2042.7
5684.3	37.5°	4755.1	3043.4	2505.4	2076.6	1963.7	1933.6	1843.3	1850.9	1877.2	1929.9
5293.0	40°	4544.4	2862.8	2377.5	1952.4	1839.6	1813.2	1715.4	1723.0	1753.1	1809.5
4898.0	42.5°	4314.9	2723.6	2212.0	1824.5	1704.2	1677.8	1587.5	1598.8	1632.7	1689.1
4533.1	45°	4040.3	2633.3	2027.7	1704.2	1568.7	1542.4	1459.6	1482.2	1519.8	1576.2
4220.9	47.5°	3758.2	2595.7	1873.4	1576.2	1429.5	1407.0	1339.2	1376.9	1418.2	1463.4
3953.8	50°	3487.3	2546.8	1715.4	1455.9	1309.1	1286.6	1241.4	1290.3	1331.7	1373.1
3761.9	52.5°	3178.8	2441.5	1572.5	1350.5	1207.6	1200.1	1177.5	1222.6	1260.2	1297.9
3596.4	55°	2859.1	2272.2	1448.3	1256.5	1121.1	1128.6	1117.3	1154.9	1185.0	1218.9
3445.9	57.5°	2580.7	2057.8	1350.5	1154.9	1045.8	1068.4	1053.3	1072.1	1091.0	1132.3
3265.3	60°	2298.5	1802.0	1241.4	1034.5	970.6	996.9	955.5	951.8	959.3	970.6
2998.3	62.5°	1918.6	1534.9	1106.0	929.2	887.8	899.1	820.1	759.9	759.9	771.2
2625.8	65°	1542.4	1286.6	955.5	808.8	775.0	767.4	654.6	571.8	564.3	598.1
2193.2	67.5°	1267.8	1068.4	805.1	673.4	650.8	658.3	575.6	492.8	485.3	522.9
1786.9	70°	1049.6	861.5	643.3	519.1	541.7	575.6	492.8	413.8	402.5	436.4
1452.1	72.5°	835.1	673.4	492.8	383.7	447.7	489.0	402.5	327.3	319.8	349.9
1121.1	75°	613.2	481.5	334.8	278.4	346.1	383.7	293.4	233.2	222.0	248.3
748.6	77.5°	380.0	270.9	210.7	165.5	237.0	255.8	154.2	135.4	131.7	150.5
455.2	80°	176.8	116.6	101.6	56.4	86.5	101.6	64.0	71.5	75.2	90.3
229.5	82.5°	48.9	18.8	3.8	0.0	0.0	30.1	15.0	30.1	37.6	56.4
18.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	18.8	33.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
7561.5	0°	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5
6854.2	2.5°	7012.2	7162.7	7403.5	7651.7	7896.3	8144.6	8385.3	8471.8
6064.2	5°	6361.4	6707.5	7185.3	7696.9	8223.6	8757.8	9246.8	9468.8
5247.9	7.5°	5635.4	6131.9	6850.5	7651.7	8490.7	9329.6	10100.8	10458.1
4439.1	10°	4860.4	5488.6	6308.7	7392.2	8596.0	9754.7	10815.5	11278.2
3728.1	12.5°	4123.1	4781.4	5688.0	6985.9	8513.2	9999.2	11274.5	11820.0
3227.7	15°	3506.1	4089.2	5067.3	6504.4	8246.1	10014.2	11492.7	12090.8
2949.3	17.5°	3043.4	3423.3	4435.3	5970.2	7896.3	9875.0	11567.9	12207.4
2798.9	20°	2813.9	2919.3	3615.2	5285.5	7569.0	9743.4	11643.1	12316.5
2678.5	22.5°	2678.5	2704.8	2956.9	4401.4	7177.7	9702.0	11774.8	12467.0
2569.4	25°	2569.4	2576.9	2644.6	3487.3	6579.6	9675.7	11978.0	12673.9
2456.5	27.5°	2460.3	2460.3	2497.9	2810.2	5767.0	9562.8	12241.3	12922.2
2343.7	30°	2351.2	2351.2	2377.5	2486.6	4815.3	9340.8	12557.3	13245.7
2230.8	32.5°	2238.3	2238.3	2260.9	2339.9	3844.7	9062.5	12847.0	13573.0
2114.2	35°	2125.5	2118.0	2148.1	2230.8	3058.4	8708.8	13136.6	13926.6
1997.6	37.5°	2005.1	2001.3	2031.4	2125.5	2640.9	8298.8	13354.8	14408.2
1881.0	40°	1877.2	1877.2	1911.1	2012.6	2520.5	7783.4	13700.9	15100.3
1760.6	42.5°	1760.6	1753.1	1790.7	1914.8	2430.2	7290.6	14321.6	16108.5
1651.5	45°	1647.7	1632.7	1666.5	1820.8	2272.2	7117.6	15480.3	17598.3
1546.1	47.5°	1542.4	1504.8	1534.9	1707.9	2129.2	7764.6	17376.3	19663.6
1452.1	50°	1455.9	1384.4	1410.7	1595.1	2020.2	9167.8	19836.6	22406.0
1365.6	52.5°	1365.6	1271.5	1286.6	1455.9	1922.3	10503.3	22503.8	26025.0
1279.1	55°	1271.5	1166.2	1173.7	1316.7	1783.2	10702.7	25107.1	30960.6
1181.2	57.5°	1166.2	1068.4	1068.4	1188.8	1681.6	9276.9	27108.4	37085.0
1060.9	60°	1049.6	985.6	966.8	1087.2	1771.9	6545.7	27341.6	41035.0
906.6	62.5°	921.7	887.8	861.5	989.4	1839.6	3878.5	25464.4	40079.5
714.8	65°	775.0	767.4	748.6	1087.2	1549.9	2291.0	21860.5	37149.0
609.4	67.5°	650.8	639.5	639.5	1139.9	1177.5	1440.8	17079.1	33116.2
519.1	70°	560.5	519.1	519.1	861.5	714.8	996.9	11925.3	28763.6
428.9	72.5°	470.2	425.1	395.0	688.4	534.2	729.8	7452.4	24633.1
327.3	75°	376.2	342.3	304.7	455.2	398.8	553.0	4330.0	20408.4
206.9	77.5°	270.9	255.8	214.4	334.8	289.7	398.8	2576.9	15747.4
127.9	80°	139.2	143.0	135.4	191.9	195.6	270.9	1467.1	10777.9
82.8	82.5°	82.8	64.0	71.5	94.0	112.9	154.2	553.0	6335.1
60.2	85°	52.7	33.9	33.9	45.1	56.4	60.2	169.3	2569.4
30.1	87.5°	26.3	11.3	15.0	22.6	18.8	15.0	7.5	647.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)