

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: P957187

Luminaire Tested: **GALN-SB9C-840-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957187  
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-SB9C-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

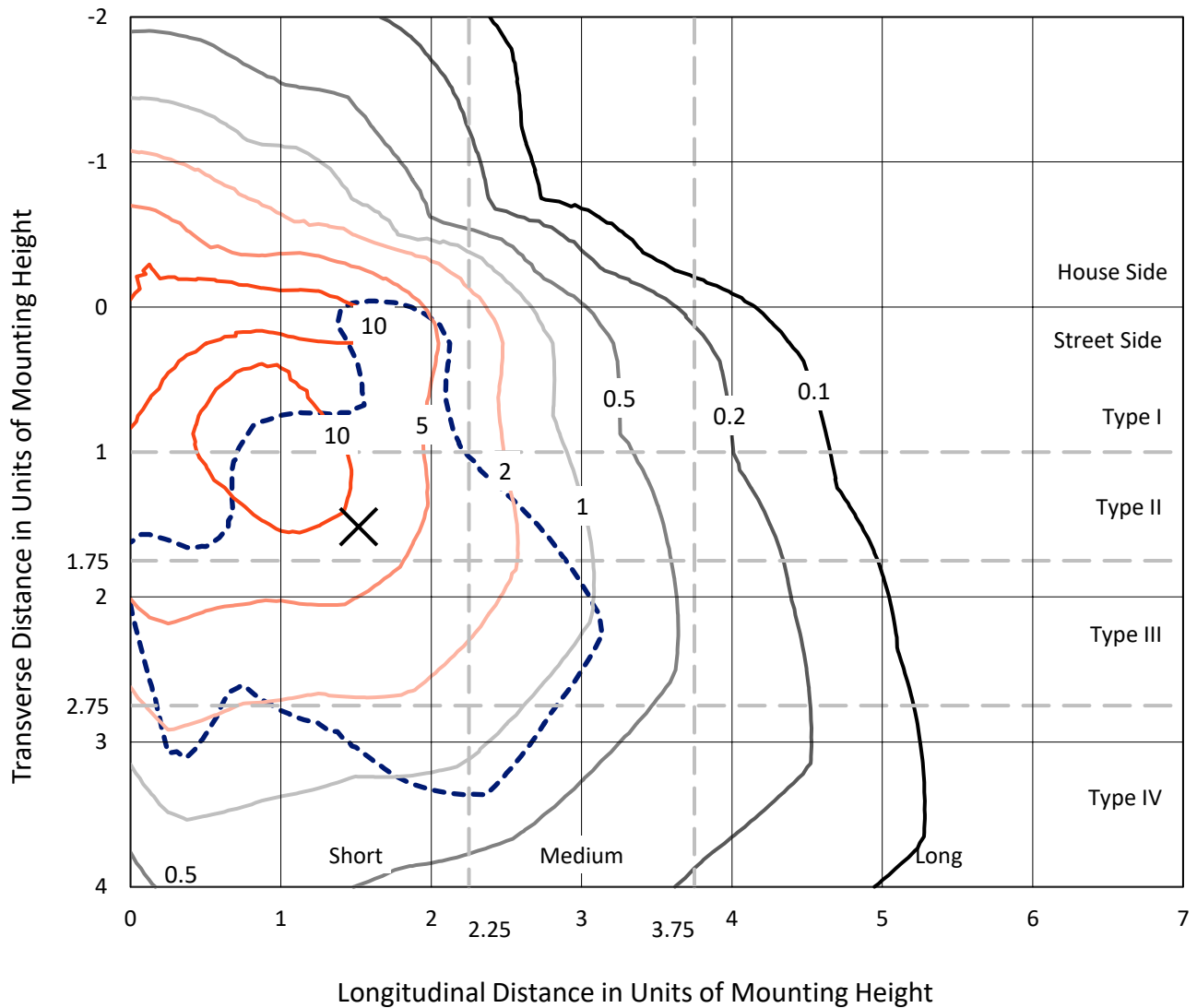
Lumens per Lamp: N/A  
Luminaire Lumens: 49796 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

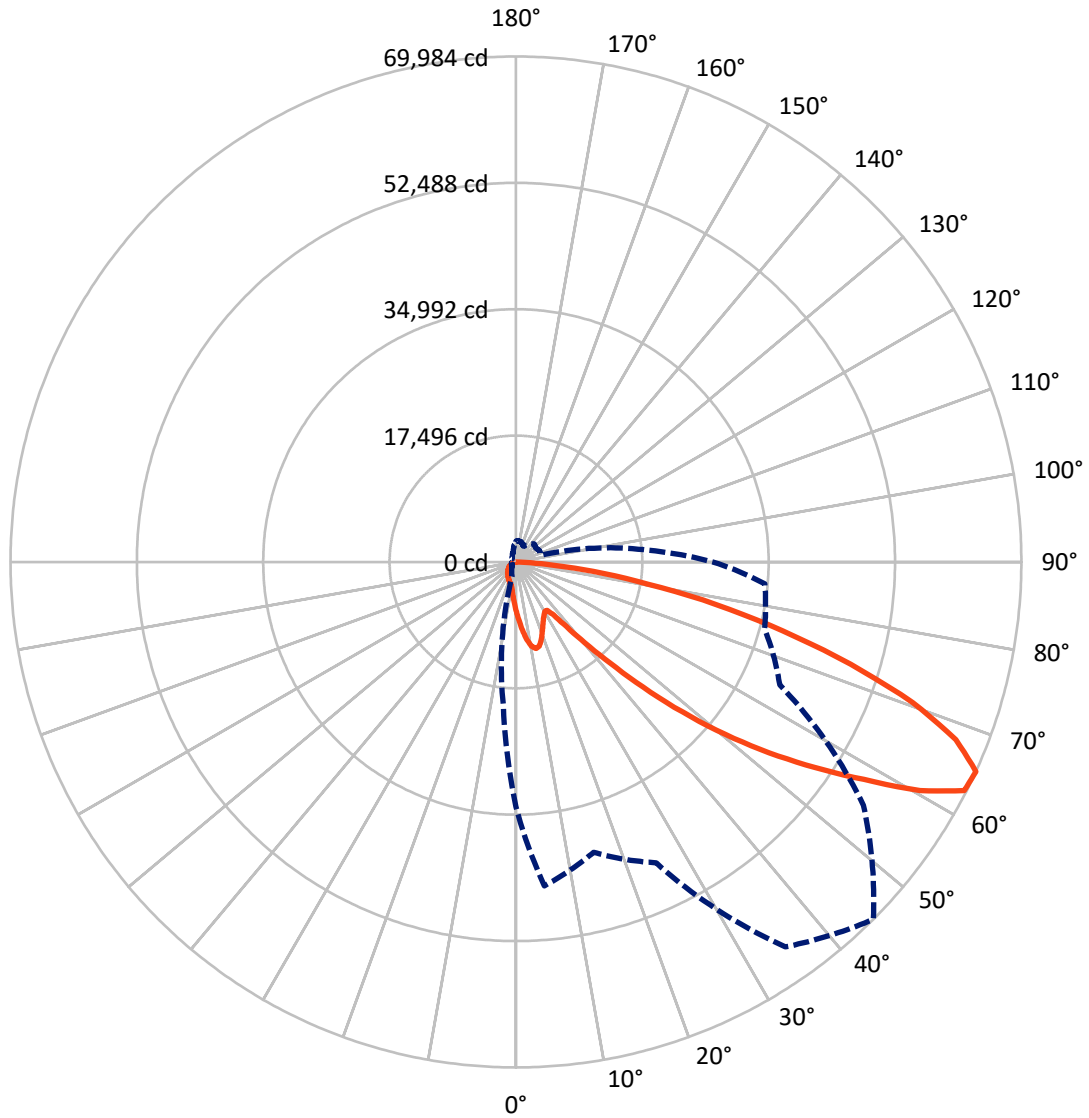
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	9897.9	0.0	9897.9
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	39898.1	0.0	39898.1
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	49796.0	0.0	49796.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.9	1.4
10°-20°	2035.0	4.1
20°-30°	2998.0	6.0
30°-40°	3851.6	7.7
40°-50°	6229.1	12.5
50°-60°	10923.4	21.9
60°-70°	13668.1	27.4
70°-80°	7987.0	16.0
80°-90°	1425.0	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°	49796.0	100.0
0°-180°	49796.0	100.0

**Coefficient of Utilization**



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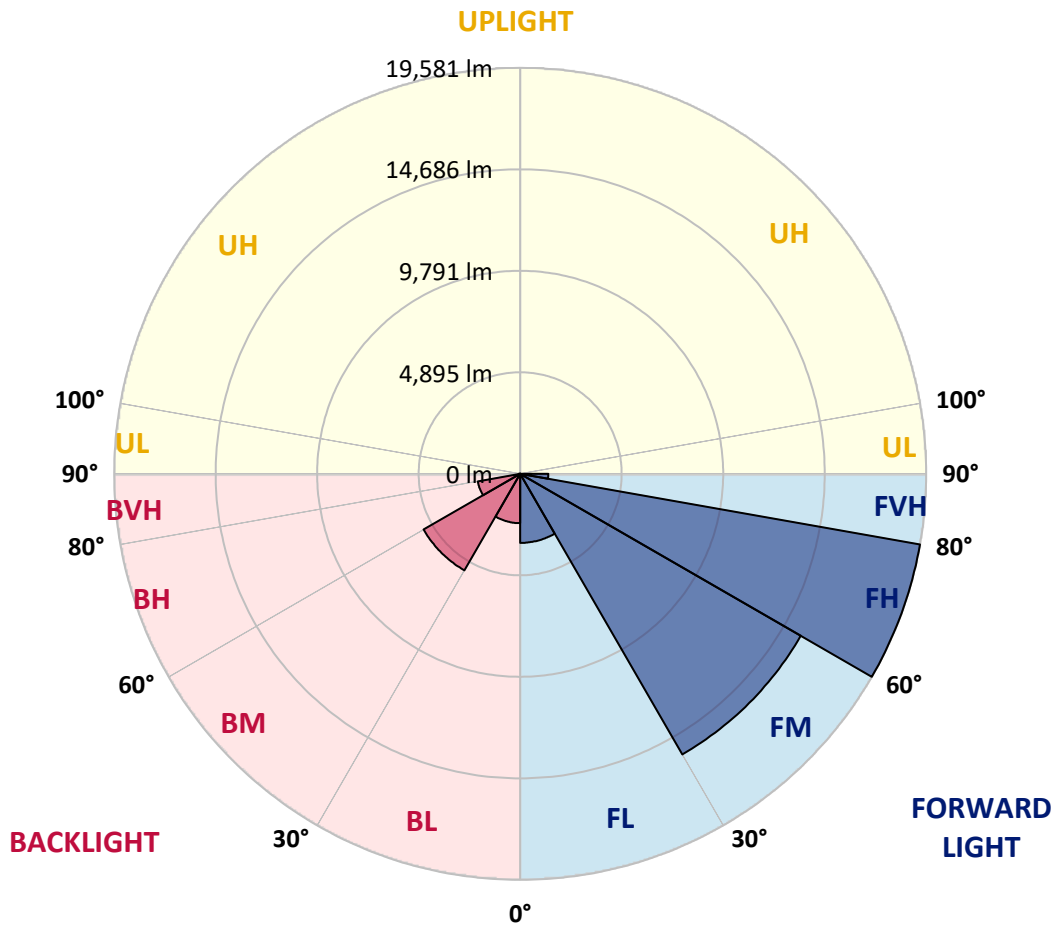
CATALOG NUMBER: GALN-SB9C-840-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3331.9	6.7			
FM (30°-60°)	15626.6	31.4			
FH (60°-80°)	19581.3	39.3			G5
FVH (80°-90°)	1358.2	2.7			G5
BL (0°-30°)	2379.9	4.8	B3/2500		
BM (30°-60°)	5377.5	10.8	B4/8500		
BH (60°-80°)	2073.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	66.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	7725.3	7783.6	7914.0	7982.6	8088.9	8095.8	8095.8	8003.2	7999.7	7811.1
5°	8634.4	8771.6	9080.3	9399.4	9468.0	9485.1	9450.8	9265.6	9128.4	8761.3
7.5°	9536.6	9800.7	10270.7	10696.1	10833.3	10833.3	10750.9	10449.1	10167.8	9636.1
10°	10284.4	10617.2	11255.2	11732.1	11889.9	11855.5	11687.5	11306.7	10919.0	10274.1
12.5°	10778.4	11152.3	11852.1	12236.3	12397.6	12308.4	12116.3	11745.8	11337.6	10658.3
15°	11025.4	11416.5	12023.6	12226.0	12181.4	12088.8	12064.8	11886.4	11577.7	10943.1
17.5°	11131.7	11495.4	11917.3	11790.4	11413.0	11341.0	11581.1	11807.5	11732.1	11190.0
20°	11231.2	11536.5	11663.4	11100.9	10442.2	10377.0	10836.7	11481.6	11811.0	11419.9
22.5°	11368.4	11557.1	11296.4	10373.6	9663.5	9512.6	10020.3	10991.1	11835.0	11711.5
25°	11557.1	11608.6	10891.6	9684.1	8970.6	8819.6	9293.0	10445.6	11793.8	12027.1
27.5°	11783.5	11677.2	10504.0	9107.8	8418.3	8277.6	8751.0	9920.8	11677.2	12342.7
30°	12078.5	11766.4	10119.8	8661.8	8023.8	7920.8	8377.1	9468.0	11533.1	12744.0
32.5°	12377.0	11804.1	9763.0	8401.1	7934.6	7972.3	8346.2	9224.4	11375.3	13128.2
35°	12699.4	11924.2	9588.0	8658.4	8679.0	9008.3	9162.7	9450.8	11351.3	13649.7
37.5°	13138.5	12191.7	9797.3	9937.9	10651.5	11334.1	11207.2	10558.8	11629.1	14428.4
40°	13769.7	12661.7	10709.8	12116.3	13581.0	14689.1	14205.4	12572.5	12479.9	15550.1
42.5°	14689.1	13409.5	12328.9	14778.3	17261.9	19086.9	17790.2	15169.3	13968.7	17152.1
45°	16047.5	14620.5	14287.7	17587.8	21800.3	24675.0	21978.7	17937.7	16054.4	19577.4
47.5°	17930.8	16400.9	16123.0	20548.2	27316.5	31035.0	26623.5	20503.6	18428.2	22884.4
50°	20431.6	18798.7	17862.2	23786.6	33364.3	37518.5	31264.9	22980.4	21148.6	26925.4
52.5°	23731.7	22143.4	19889.6	26870.5	39583.7	43864.8	35926.8	25155.3	24524.1	31614.8
55°	28232.4	27175.8	22661.4	29813.8	45799.6	50248.9	40407.0	27206.7	28983.7	37185.8
57.5°	33817.1	34571.8	26657.8	33227.1	51387.8	56828.4	44907.7	30074.5	34774.2	43415.4
60°	37419.1	44406.8	34311.1	38273.2	57737.5	64269.0	51075.6	35528.9	40859.8	45648.7
62.5°	36547.7	47535.4	43477.2	44715.6	63576.1	69678.8	57120.0	41007.3	42005.5	42358.9
65°	33875.4	45010.6	41607.6	45967.7	65054.6	69984.1	58735.7	40300.6	35631.8	34582.1
67.5°	30198.0	42015.8	37165.2	42647.0	62382.3	65716.6	55727.2	35649.0	27536.0	25951.2
70°	26229.0	38702.0	34249.4	38921.6	57288.1	58279.5	50612.5	31354.1	20253.2	17526.0
72.5°	22462.4	35251.0	32252.8	35103.5	50492.4	48441.0	43954.0	27556.6	14747.4	12641.1
75°	18610.1	30160.3	29409.0	30568.5	41556.2	38156.6	36520.3	22815.8	11574.3	9145.5
77.5°	14359.8	23567.0	25295.9	24479.5	29251.2	28342.2	28307.9	17145.3	8456.0	6102.7
80°	9828.2	16424.9	19762.7	17268.8	18984.0	18520.9	21320.1	11502.2	6133.6	3674.0
82.5°	5776.8	9999.7	13756.0	8359.9	10497.1	10775.0	12696.0	5595.0	3608.8	847.3
85°	2343.0	3948.4	5378.9	3272.6	5063.3	4270.9	4819.7	1571.1	1005.1	20.6
87.5°	590.0	1262.4	885.0	367.1	586.6	538.6	425.4	192.1	41.2	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°
6895.2	0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
7790.5	2.5°	7656.7	7577.8	7382.3	7186.7	7028.9	6816.3	6675.6	6507.5	6346.3	6202.2
8682.4	5°	8466.3	8205.6	7848.8	7522.9	7190.2	6867.7	6548.7	6212.5	5903.8	5715.1
9437.1	7.5°	9124.9	8665.3	8191.9	7776.8	7375.4	6998.1	6576.1	6167.9	5684.2	5426.9
10013.4	10°	9615.5	9011.7	8390.8	7914.0	7509.2	7142.1	6785.4	6373.7	5790.6	5468.1
10363.3	12.5°	9937.9	9221.0	8493.7	7948.3	7495.5	7210.8	7053.0	6891.7	6312.0	5934.6
10620.6	15°	10160.9	9368.5	8565.8	7869.4	7313.7	7104.4	7262.2	7447.5	7077.0	6641.3
10888.2	17.5°	10404.5	9560.6	8596.6	7656.7	6960.3	6871.1	7279.4	7708.2	7691.0	7258.8
11142.0	20°	10661.8	9728.7	8576.1	7313.7	6531.5	6610.4	7131.9	7629.3	7838.5	7605.3
11433.6	22.5°	10925.9	9889.9	8497.2	6867.7	6130.2	6377.2	6898.6	7334.2	7581.2	7509.2
11790.4	25°	11258.7	10116.3	8380.5	6387.4	5797.4	6140.5	6627.6	6980.9	7152.4	7149.0
12174.6	27.5°	11656.6	10418.2	8318.8	5999.8	5560.7	5872.9	6305.1	6620.7	6740.8	6740.8
12651.4	30°	12119.7	10775.0	8250.2	5746.0	5423.5	5595.0	5931.2	6239.9	6360.0	6360.0
13172.8	32.5°	12634.3	11118.0	8085.5	5591.6	5320.6	5324.0	5536.7	5818.0	5962.1	5982.7
13824.6	35°	13251.7	11485.1	7725.3	5468.1	5200.5	5059.9	5162.8	5396.1	5567.6	5612.2
14754.3	37.5°	14061.3	11934.4	7210.8	5286.3	5015.3	4782.0	4806.0	4984.4	5173.1	5241.7
16037.2	40°	15148.8	12462.7	6675.6	5025.6	4754.6	4476.7	4466.4	4596.8	4782.0	4857.5
17773.0	42.5°	16586.1	13097.4	6164.5	4775.2	4439.0	4154.2	4137.1	4240.0	4401.2	4480.1
20064.6	45°	18424.8	13876.1	5725.4	4579.6	4130.2	3848.9	3842.1	3927.8	4068.5	4150.8
22997.6	47.5°	20980.5	14654.8	5426.9	4476.7	3886.7	3598.5	3612.2	3687.7	3814.6	3872.9
26795.0	50°	24311.4	14891.5	5276.0	4476.7	3756.3	3375.5	3444.1	3505.9	3601.9	3636.2
31347.2	52.5°	27508.6	14109.3	5138.8	4504.1	3773.5	3186.9	3334.4	3379.0	3461.3	3475.0
35566.6	55°	29076.3	12130.0	4950.1	4511.0	3879.8	3025.6	3245.2	3327.5	3358.4	3355.0
38016.0	57.5°	28537.7	9807.6	4631.1	4483.6	3951.8	2922.7	3135.4	3293.2	3313.8	3282.9
37549.4	60°	26647.5	7221.0	4387.5	4281.2	3924.4	2891.8	2967.3	3217.7	3248.6	3207.4
33954.3	62.5°	23477.8	5011.8	4198.8	3835.2	3804.3	2881.6	2703.2	3053.1	3128.5	3070.2
27292.5	65°	18483.1	3540.2	3615.7	3361.8	3543.6	2826.7	2428.7	2854.1	2957.0	2867.8
19800.4	67.5°	12507.3	2555.7	2929.6	3046.2	3121.7	2703.2	2229.8	2627.7	2764.9	2648.3
12706.3	70°	6754.5	1794.1	1934.8	2566.0	2651.7	2490.5	2051.4	2397.9	2555.7	2428.7
9032.3	72.5°	3989.6	1289.8	1355.0	2061.7	2209.2	2192.0	1852.4	2130.3	2322.4	2171.5
6233.1	75°	2198.9	871.3	967.4	1495.7	1794.1	1691.2	1591.7	1804.4	1999.9	1852.4
3907.3	77.5°	984.5	521.4	672.4	981.1	1409.9	1159.5	1231.5	1406.5	1588.3	1433.9
2174.9	80°	380.8	291.6	446.0	535.1	1025.7	641.5	792.4	1036.0	1166.3	1042.8
473.4	82.5°	48.0	130.4	192.1	209.3	596.9	339.6	459.7	651.8	641.5	555.7
0.0	85°	0.0	24.0	27.4	13.7	257.3	123.5	150.9	212.7	199.0	150.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	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°
6895.2	0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
6174.8	2.5°	6006.7	5883.2	5821.4	5770.0	5818.0	5845.4	5845.4	5962.1	6030.7	6058.1
5595.0	5°	5293.1	5063.3	4908.9	4816.3	4847.2	4881.5	4919.2	5066.7	5166.2	5231.4
5193.7	7.5°	4730.6	4380.7	4164.5	4051.3	4068.5	4092.5	4123.4	4267.4	4366.9	4452.7
5118.2	10°	4452.7	3958.7	3674.0	3536.8	3512.8	3499.0	3488.7	3574.5	3650.0	3718.6
5426.9	12.5°	4466.4	3776.9	3430.4	3262.3	3190.3	3108.0	3042.8	3056.5	3104.5	3190.3
5979.2	15°	4641.4	3718.6	3303.5	3094.2	2974.2	2878.1	2799.2	2782.1	2799.2	2812.9
6610.4	17.5°	4878.1	3711.7	3193.7	2933.0	2809.5	2730.6	2658.6	2634.6	2638.0	2655.1
7028.9	20°	5066.7	3691.1	3070.2	2778.6	2668.9	2600.3	2528.2	2504.2	2511.1	2514.5
7070.1	22.5°	5166.2	3660.3	2933.0	2624.3	2531.7	2463.0	2397.9	2394.4	2394.4	2415.0
6847.1	25°	5166.2	3595.1	2809.5	2476.8	2394.4	2332.7	2253.8	2267.5	2274.4	2301.8
6500.7	27.5°	5042.7	3471.6	2710.0	2349.8	2264.1	2202.3	2130.3	2147.4	2157.7	2188.6
6157.6	30°	4884.9	3324.1	2596.8	2229.8	2130.3	2085.7	2024.0	2030.8	2044.5	2078.8
5838.6	32.5°	4716.8	3149.1	2504.2	2109.7	2010.2	1975.9	1907.3	1917.6	1931.3	1969.1
5523.0	35°	4531.6	2943.3	2394.4	1999.9	1900.5	1873.0	1794.1	1801.0	1821.6	1862.7
5183.4	37.5°	4336.1	2775.2	2284.7	1893.6	1790.7	1763.2	1680.9	1687.8	1711.8	1759.8
4826.6	40°	4144.0	2610.6	2168.0	1780.4	1677.5	1653.5	1564.3	1571.1	1598.6	1650.0
4466.4	42.5°	3934.7	2483.6	2017.1	1663.8	1554.0	1530.0	1447.6	1457.9	1488.8	1540.3
4133.7	45°	3684.3	2401.3	1849.0	1554.0	1430.5	1406.5	1331.0	1351.6	1385.9	1437.3
3848.9	47.5°	3427.0	2367.0	1708.4	1437.3	1303.6	1283.0	1221.2	1255.5	1293.3	1334.4
3605.4	50°	3180.0	2322.4	1564.3	1327.6	1193.8	1173.2	1132.0	1176.6	1214.4	1252.1
3430.4	52.5°	2898.7	2226.3	1433.9	1231.5	1101.2	1094.3	1073.7	1114.9	1149.2	1183.5
3279.5	55°	2607.1	2072.0	1320.7	1145.8	1022.3	1029.1	1018.8	1053.1	1080.6	1111.5
3142.3	57.5°	2353.3	1876.4	1231.5	1053.1	953.7	974.2	960.5	977.7	994.8	1032.6
2977.6	60°	2096.0	1643.2	1132.0	943.4	885.0	909.1	871.3	867.9	874.8	885.0
2734.0	62.5°	1749.5	1399.6	1008.5	847.3	809.6	819.9	747.8	692.9	692.9	703.2
2394.4	65°	1406.5	1173.2	871.3	737.5	706.7	699.8	596.9	521.4	514.6	545.4
1999.9	67.5°	1156.1	974.2	734.1	614.0	593.5	600.3	524.9	449.4	442.5	476.8
1629.5	70°	957.1	785.6	586.6	473.4	494.0	524.9	449.4	377.3	367.1	397.9
1324.1	72.5°	761.6	614.0	449.4	349.9	408.2	446.0	367.1	298.4	291.6	319.0
1022.3	75°	559.2	439.1	305.3	253.9	315.6	349.9	267.6	212.7	202.4	226.4
682.7	77.5°	346.5	247.0	192.1	150.9	216.1	233.3	140.6	123.5	120.1	137.2
415.1	80°	161.2	106.3	92.6	51.5	78.9	92.6	58.3	65.2	68.6	82.3
209.3	82.5°	44.6	17.2	3.4	0.0	0.0	27.4	13.7	27.4	34.3	51.5
17.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	17.2	30.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7
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°
6895.2	0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
6250.2	2.5°	6394.3	6531.5	6751.1	6977.5	7200.5	7426.9	7646.4	7725.3
5529.8	5°	5800.8	6116.4	6552.1	7018.6	7498.9	7986.0	8432.0	8634.4
4785.4	7.5°	5138.8	5591.6	6246.8	6977.5	7742.5	8507.5	9210.7	9536.6
4047.9	10°	4432.1	5005.0	5752.8	6740.8	7838.5	8895.1	9862.5	10284.4
3399.6	12.5°	3759.7	4360.1	5186.8	6370.3	7763.0	9118.1	10281.0	10778.4
2943.3	15°	3197.2	3728.9	4620.8	5931.2	7519.5	9131.8	10479.9	11025.4
2689.5	17.5°	2775.2	3121.7	4044.5	5444.1	7200.5	9004.9	10548.6	11131.7
2552.2	20°	2566.0	2662.0	3296.6	4819.7	6902.0	8884.8	10617.2	11231.2
2442.5	22.5°	2442.5	2466.5	2696.3	4013.6	6545.2	8847.1	10737.2	11368.4
2343.0	25°	2343.0	2349.8	2411.6	3180.0	5999.8	8823.1	10922.5	11557.1
2240.1	27.5°	2243.5	2243.5	2277.8	2562.5	5258.8	8720.1	11162.6	11783.5
2137.2	30°	2144.0	2144.0	2168.0	2267.5	4390.9	8517.7	11450.8	12078.5
2034.2	32.5°	2041.1	2041.1	2061.7	2133.7	3505.9	8263.9	11714.9	12377.0
1927.9	35°	1938.2	1931.3	1958.8	2034.2	2788.9	7941.4	11979.0	12699.4
1821.6	37.5°	1828.4	1825.0	1852.4	1938.2	2408.2	7567.5	12178.0	13138.5
1715.2	40°	1711.8	1711.8	1742.7	1835.3	2298.4	7097.5	12493.6	13769.7
1605.4	42.5°	1605.4	1598.6	1632.9	1746.1	2216.1	6648.2	13059.6	14689.1
1506.0	45°	1502.5	1488.8	1519.7	1660.3	2072.0	6490.4	14116.2	16047.5
1409.9	47.5°	1406.5	1372.2	1399.6	1557.4	1941.6	7080.4	15845.1	17930.8
1324.1	50°	1327.6	1262.4	1286.4	1454.5	1842.1	8359.9	18088.6	20431.6
1245.2	52.5°	1245.2	1159.5	1173.2	1327.6	1752.9	9577.7	20520.8	23731.7
1166.3	55°	1159.5	1063.4	1070.3	1200.6	1626.0	9759.6	22894.7	28232.4
1077.2	57.5°	1063.4	974.2	974.2	1084.0	1533.4	8459.4	24719.6	33817.1
967.4	60°	957.1	898.8	881.6	991.4	1615.7	5968.9	24932.3	37419.1
826.7	62.5°	840.5	809.6	785.6	902.2	1677.5	3536.8	23220.5	36547.7
651.8	65°	706.7	699.8	682.7	991.4	1413.3	2089.1	19934.2	33875.4
555.7	67.5°	593.5	583.2	583.2	1039.4	1073.7	1313.9	15574.1	30198.0
473.4	70°	511.1	473.4	473.4	785.6	651.8	909.1	10874.4	26229.0
391.1	72.5°	428.8	387.6	360.2	627.8	487.1	665.5	6795.7	22462.4
298.4	75°	343.0	312.2	277.9	415.1	363.6	504.3	3948.4	18610.1
188.7	77.5°	247.0	233.3	195.5	305.3	264.1	363.6	2349.8	14359.8
116.6	80°	126.9	130.4	123.5	175.0	178.4	247.0	1337.9	9828.2
75.5	82.5°	75.5	58.3	65.2	85.8	102.9	140.6	504.3	5776.8
54.9	85°	48.0	30.9	30.9	41.2	51.5	54.9	154.4	2343.0
27.4	87.5°	24.0	10.3	13.7	20.6	17.2	13.7	6.9	590.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)