

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: P955402

Luminaire Tested: **GALN-SB8B-840-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955402  
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-SB8B-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

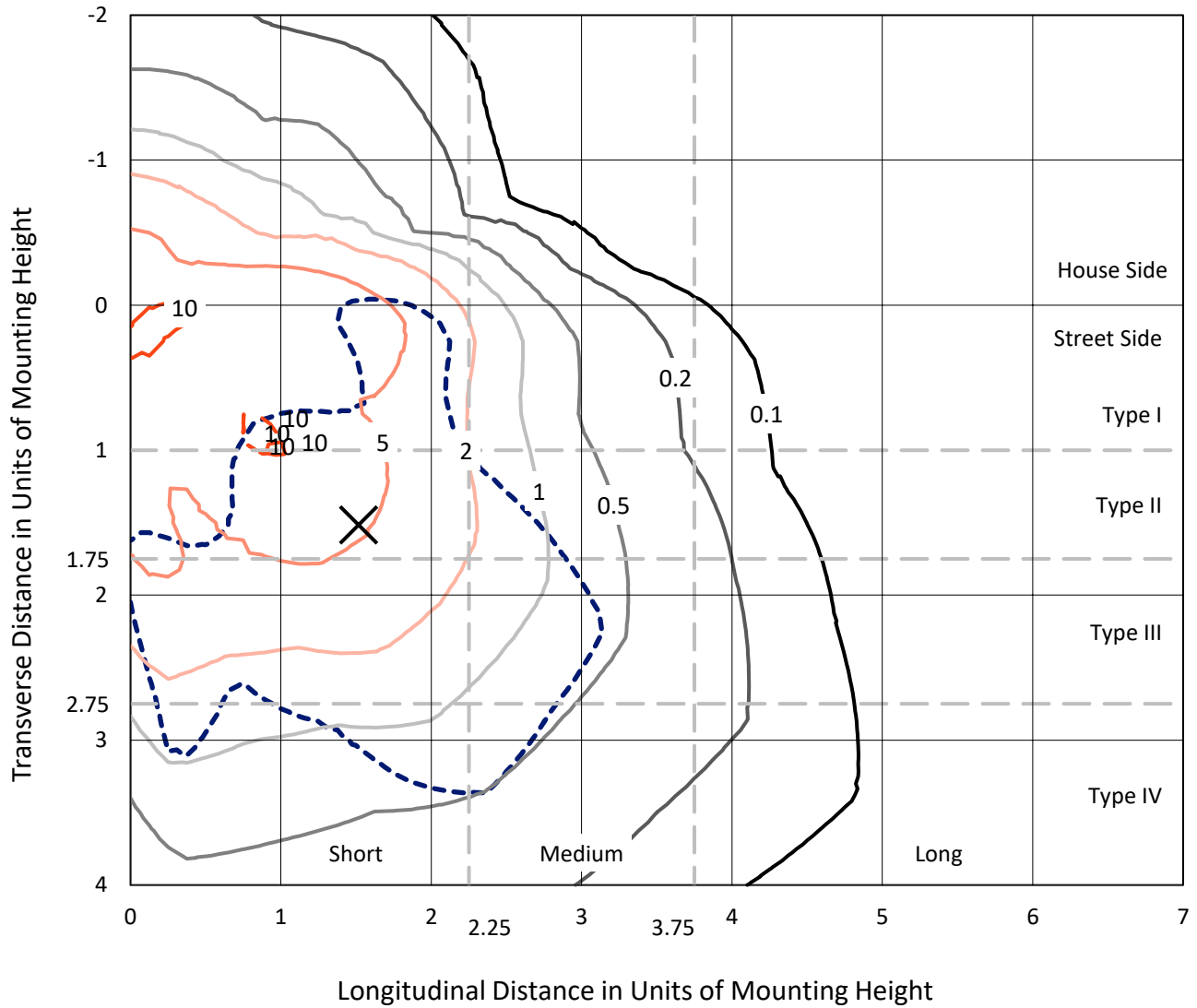
Lumens per Lamp: N/A  
Luminaire Lumens: 33240 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

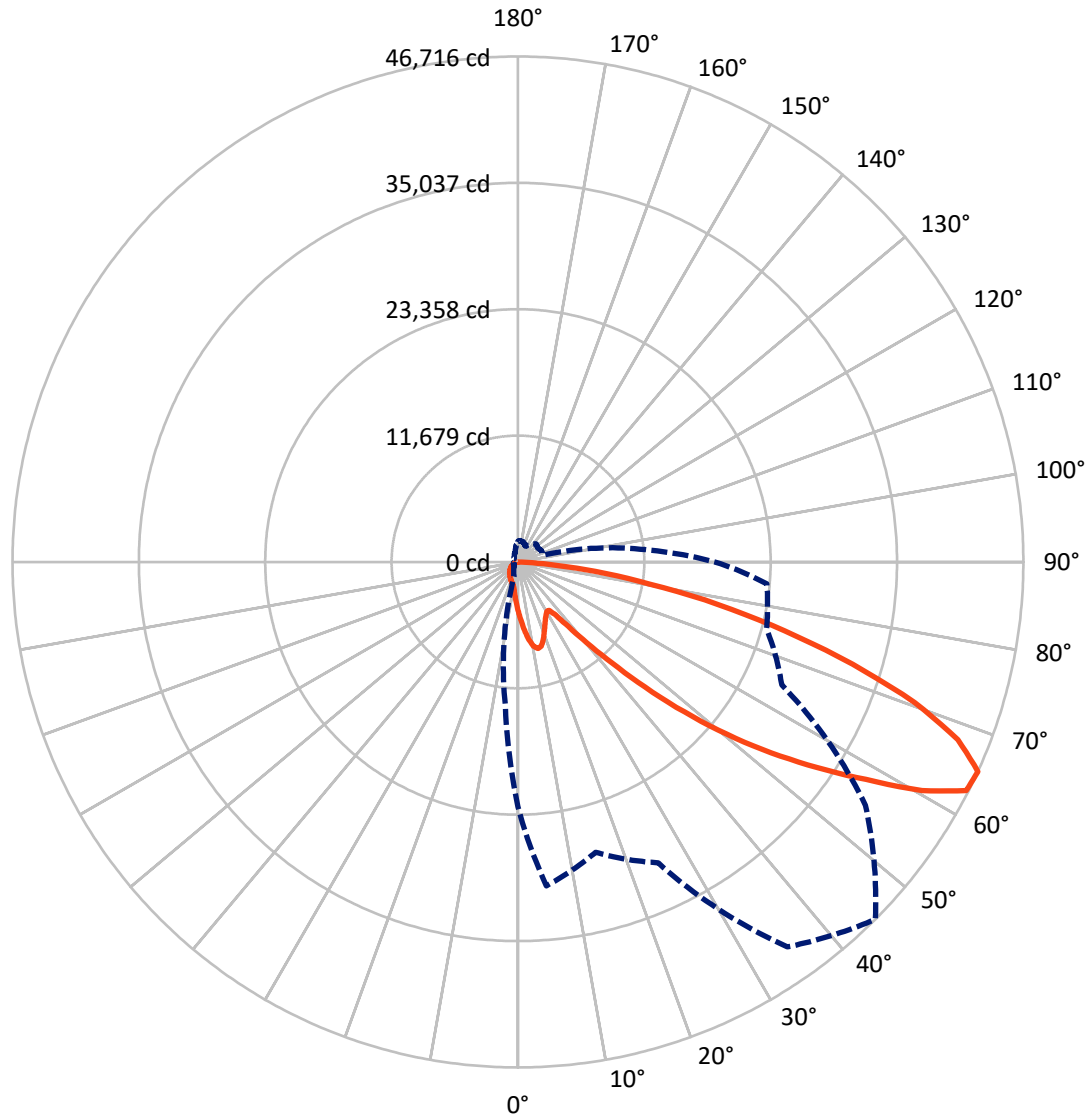
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P955402  
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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	6607.1	0.0	6607.1
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	26632.9	0.0	26632.9
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	33240.0	0.0	33240.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.2	1.4
10°-20°	1358.4	4.1
20°-30°	2001.2	6.0
30°-40°	2571.0	7.7
40°-50°	4158.1	12.5
50°-60°	7291.6	21.9
60°-70°	9123.8	27.4
70°-80°	5331.5	16.0
80°-90°	951.2	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°	33240.0	100.0
0°-180°	33240.0	100.0



REPORT NUMBER: P955402

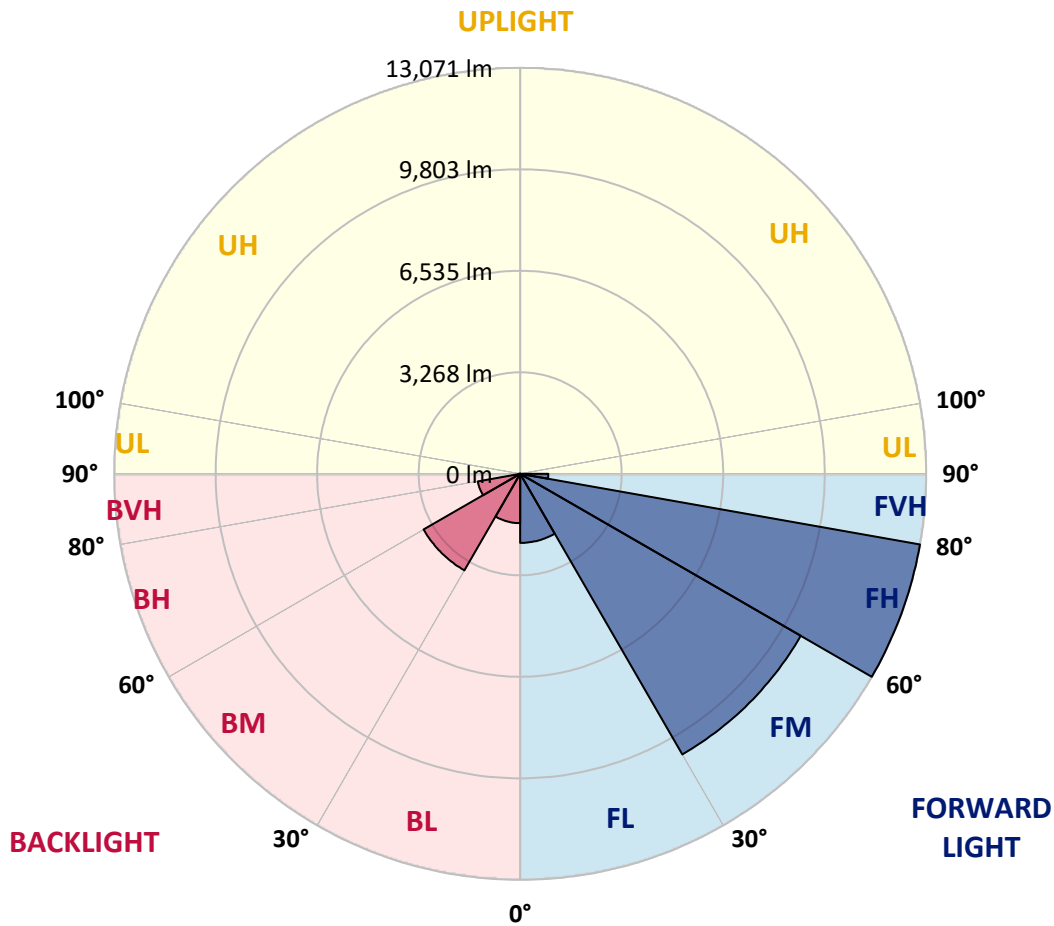
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2224.1	6.7			
FM (30°-60°)	10431.1	31.4			
FH (60°-80°)	13071.0	39.3			G5
FVH (80°-90°)	906.7	2.7			G5
BL (0°-30°)	1588.6	4.8	B3/2500		
BM (30°-60°)	3589.6	10.8	B3/5000		
BH (60°-80°)	1384.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	44.6	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°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
2.5°	5156.8	5195.8	5282.8	5328.6	5399.6	5404.1	5404.1	5342.3	5340.0	5214.1
5°	5763.6	5855.2	6061.3	6274.3	6320.1	6331.5	6308.6	6185.0	6093.4	5848.4
7.5°	6365.9	6542.2	6855.9	7139.9	7231.5	7231.5	7176.5	6975.0	6787.2	6432.3
10°	6865.1	7087.2	7513.1	7831.4	7936.8	7913.9	7801.7	7547.5	7288.7	6858.2
12.5°	7194.8	7444.4	7911.6	8168.0	8275.7	8216.1	8087.9	7840.6	7568.1	7114.7
15°	7359.7	7620.7	8026.1	8161.2	8131.4	8069.6	8053.5	7934.5	7728.4	7304.7
17.5°	7430.7	7673.4	7955.1	7870.3	7618.5	7570.4	7730.7	7881.8	7831.4	7469.6
20°	7497.1	7700.9	7785.6	7410.1	6970.4	6926.9	7233.8	7664.3	7884.1	7623.0
22.5°	7588.7	7714.6	7540.6	6924.6	6450.6	6349.9	6688.8	7336.8	7900.1	7817.7
25°	7714.6	7749.0	7270.4	6464.4	5988.1	5887.3	6203.3	6972.7	7872.6	8028.3
27.5°	7865.8	7794.8	7011.6	6079.7	5619.4	5525.5	5841.5	6622.4	7794.8	8239.0
30°	8062.7	7854.3	6755.2	5782.0	5356.0	5287.4	5591.9	6320.1	7698.6	8506.9
32.5°	8261.9	7879.5	6517.0	5607.9	5296.5	5321.7	5571.3	6157.5	7593.3	8763.4
35°	8477.2	7959.7	6400.2	5779.7	5793.4	6013.2	6116.3	6308.6	7577.2	9111.5
37.5°	8770.3	8138.3	6539.9	6633.8	7110.1	7565.8	7481.1	7048.3	7762.7	9631.3
40°	9191.6	8452.0	7149.0	8087.9	9065.7	9805.3	9482.4	8392.4	8330.6	10380.1
42.5°	9805.3	8951.2	8229.9	9864.8	11522.7	12740.9	11875.4	10125.9	9324.4	11449.4
45°	10712.1	9759.5	9537.4	11740.3	14552.2	16471.2	14671.3	11973.8	10716.7	13068.4
47.5°	11969.2	10948.0	10762.5	13716.4	18234.4	20716.6	17771.8	13686.7	12301.3	15275.8
50°	13638.6	12548.6	11923.5	15878.1	22271.5	25044.5	20870.0	15340.0	14117.2	17973.3
52.5°	15841.5	14781.2	13276.8	17936.7	26423.0	29280.8	23982.0	16791.8	16370.4	21103.6
55°	18845.8	18140.5	15127.0	19901.4	30572.3	33542.3	26972.6	18161.1	19347.3	24822.4
57.5°	22573.7	23077.5	17794.7	22179.9	34302.5	37934.3	29976.9	20075.5	23212.6	28980.8
60°	24978.1	29642.6	22903.5	25548.3	38541.1	42901.1	34094.2	23716.4	27274.9	30471.5
62.5°	24396.5	31731.0	29022.1	29848.7	42438.5	46512.2	38128.9	27373.3	28039.7	28275.5
65°	22612.7	30045.6	27774.1	30684.5	43425.5	46716.0	39207.5	26901.6	23785.1	23084.4
67.5°	20157.9	28046.6	24808.7	28467.9	41641.6	43867.4	37199.2	23796.5	18380.9	17323.0
70°	17508.5	25834.5	22862.2	25981.1	38241.1	38902.9	33785.0	20929.6	13519.5	11699.0
72.5°	14994.2	23530.9	21529.5	23432.4	33704.9	32335.5	29340.3	18394.7	9844.2	8438.2
75°	12422.6	20132.7	19631.2	20405.2	27739.7	25470.4	24378.2	15230.1	7726.1	6104.8
77.5°	9585.5	15731.5	16885.6	16340.6	19525.9	18919.1	18896.2	11444.9	5644.6	4073.7
80°	6560.5	10964.0	13192.0	11527.3	12672.2	12363.1	14231.7	7678.0	4094.3	2452.5
82.5°	3856.2	6675.0	9182.5	5580.5	7007.1	7192.5	8474.9	3734.8	2409.0	565.6
85°	1564.0	2635.7	3590.5	2184.6	3379.9	2850.9	3217.3	1048.8	670.9	13.7
87.5°	393.9	842.7	590.8	245.0	391.6	359.5	283.9	128.2	27.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955402  
 CATALOG NUMBER: GALN-SB8B-840-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4602.7	0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
5200.3	2.5°	5111.0	5058.4	4927.8	4797.3	4692.0	4550.0	4456.1	4343.9	4236.3	4140.1
5795.7	5°	5651.4	5477.4	5239.3	5021.7	4799.6	4584.4	4371.4	4147.0	3940.9	3815.0
6299.5	7.5°	6091.1	5784.3	5468.3	5191.2	4923.3	4671.4	4389.7	4117.2	3794.3	3622.6
6684.2	10°	6418.6	6015.5	5601.1	5282.8	5012.6	4767.5	4529.4	4254.6	3865.3	3650.1
6917.8	12.5°	6633.8	6155.2	5669.8	5305.7	5003.4	4813.3	4708.0	4600.4	4213.4	3961.5
7089.5	15°	6782.7	6253.7	5717.9	5253.0	4882.0	4742.4	4847.7	4971.3	4724.0	4433.2
7268.1	17.5°	6945.2	6381.9	5738.5	5111.0	4646.2	4586.6	4859.1	5145.4	5133.9	4845.4
7437.6	20°	7117.0	6494.1	5724.7	4882.0	4359.9	4412.6	4760.7	5092.7	5232.4	5076.7
7632.2	22.5°	7293.3	6601.7	5672.1	4584.4	4092.0	4256.9	4605.0	4895.8	5060.7	5012.6
7870.3	25°	7515.4	6752.9	5594.2	4263.8	3869.9	4098.9	4424.1	4659.9	4774.4	4772.1
8126.8	27.5°	7781.0	6954.4	5553.0	4005.0	3711.9	3920.3	4208.8	4419.5	4499.6	4499.6
8445.1	30°	8090.2	7192.5	5507.2	3835.6	3620.3	3734.8	3959.2	4165.3	4245.5	4245.5
8793.2	32.5°	8433.7	7421.5	5397.3	3732.5	3551.6	3553.9	3695.9	3883.7	3979.8	3993.6
9228.3	35°	8845.8	7666.5	5156.8	3650.1	3471.5	3377.6	3446.3	3602.0	3716.5	3746.3
9848.8	37.5°	9386.3	7966.5	4813.3	3528.7	3347.8	3192.1	3208.1	3327.2	3453.2	3499.0
10705.2	40°	10112.1	8319.2	4456.1	3354.7	3173.8	2988.3	2981.4	3068.5	3192.1	3242.5
11863.9	42.5°	11071.6	8742.8	4114.9	3187.5	2963.1	2773.1	2761.6	2830.3	2937.9	2990.6
13393.6	45°	12299.0	9262.6	3821.8	3057.0	2757.0	2569.3	2564.7	2621.9	2715.8	2770.8
15351.4	47.5°	14005.0	9782.4	3622.6	2988.3	2594.4	2402.1	2411.3	2461.6	2546.4	2585.3
17886.3	50°	16228.4	9940.4	3521.8	2988.3	2507.4	2253.3	2299.0	2340.3	2404.4	2427.3
20925.0	52.5°	18362.6	9418.3	3430.3	3006.6	2518.9	2127.3	2225.8	2255.5	2310.5	2319.7
23741.6	55°	19409.1	8097.0	3304.3	3011.2	2589.9	2019.7	2166.2	2221.2	2241.8	2239.5
25376.5	57.5°	19049.6	6546.8	3091.3	2992.9	2638.0	1951.0	2093.0	2198.3	2212.0	2191.4
25065.1	60°	17787.9	4820.2	2928.8	2857.8	2619.6	1930.4	1980.8	2147.9	2168.5	2141.0
22665.3	62.5°	15672.0	3345.5	2802.8	2560.1	2539.5	1923.5	1804.4	2038.0	2088.4	2049.5
18218.4	65°	12337.9	2363.2	2413.5	2244.1	2365.5	1886.9	1621.2	1905.2	1973.9	1914.3
13217.2	67.5°	8348.9	1706.0	1955.6	2033.4	2083.8	1804.4	1488.4	1754.1	1845.7	1767.8
8481.7	70°	4508.8	1197.6	1291.5	1712.8	1770.1	1662.5	1369.4	1600.6	1706.0	1621.2
6029.3	72.5°	2663.1	861.0	904.5	1376.2	1474.7	1463.2	1236.5	1422.0	1550.3	1449.5
4160.7	75°	1467.8	581.6	645.7	998.4	1197.6	1128.9	1062.5	1204.5	1335.0	1236.5
2608.2	77.5°	657.2	348.1	448.8	654.9	941.1	774.0	822.1	938.9	1060.2	957.2
1451.8	80°	254.2	194.6	297.7	357.2	684.7	428.2	529.0	691.5	778.6	696.1
316.0	82.5°	32.1	87.0	128.2	139.7	398.4	226.7	306.8	435.1	428.2	371.0
0.0	85°	0.0	16.0	18.3	9.2	171.7	82.4	100.8	142.0	132.8	100.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	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°
4602.7	0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
4121.8	2.5°	4009.6	3927.2	3885.9	3851.6	3883.7	3902.0	3902.0	3979.8	4025.6	4043.9
3734.8	5°	3533.3	3379.9	3276.8	3215.0	3235.6	3258.5	3283.7	3382.2	3448.6	3492.1
3466.9	7.5°	3157.8	2924.2	2779.9	2704.4	2715.8	2731.8	2752.4	2848.6	2915.0	2972.3
3416.5	10°	2972.3	2642.5	2452.5	2360.9	2344.8	2335.7	2328.8	2386.1	2436.4	2482.2
3622.6	12.5°	2981.4	2521.2	2289.9	2177.7	2129.6	2074.6	2031.1	2040.3	2072.3	2129.6
3991.3	15°	3098.2	2482.2	2205.2	2065.5	1985.3	1921.2	1868.5	1857.1	1868.5	1877.7
4412.6	17.5°	3256.2	2477.7	2131.9	1957.9	1875.4	1822.8	1774.7	1758.6	1760.9	1772.4
4692.0	20°	3382.2	2463.9	2049.5	1854.8	1781.5	1735.7	1687.6	1671.6	1676.2	1678.5
4719.5	22.5°	3448.6	2443.3	1957.9	1751.8	1689.9	1644.1	1600.6	1598.3	1598.3	1612.1
4570.6	25°	3448.6	2399.8	1875.4	1653.3	1598.3	1557.1	1504.5	1513.6	1518.2	1536.5
4339.3	27.5°	3366.1	2317.4	1809.0	1568.6	1511.3	1470.1	1422.0	1433.5	1440.3	1460.9
4110.4	30°	3260.8	2218.9	1733.4	1488.4	1422.0	1392.3	1351.0	1355.6	1364.8	1387.7
3897.4	32.5°	3148.6	2102.1	1671.6	1408.3	1341.9	1319.0	1273.2	1280.0	1289.2	1314.4
3686.7	35°	3024.9	1964.7	1598.3	1335.0	1268.6	1250.3	1197.6	1202.2	1215.9	1243.4
3460.0	37.5°	2894.4	1852.5	1525.1	1264.0	1195.3	1177.0	1122.0	1126.6	1142.7	1174.7
3221.9	40°	2766.2	1742.6	1447.2	1188.5	1119.8	1103.7	1044.2	1048.8	1067.1	1101.4
2981.4	42.5°	2626.5	1657.9	1346.5	1110.6	1037.3	1021.3	966.3	973.2	993.8	1028.2
2759.3	45°	2459.3	1602.9	1234.3	1037.3	954.9	938.9	888.5	902.2	925.1	959.5
2569.3	47.5°	2287.6	1580.0	1140.4	959.5	870.2	856.4	815.2	838.1	863.3	890.8
2406.7	50°	2122.7	1550.3	1044.2	886.2	796.9	783.1	755.7	785.4	810.6	835.8
2289.9	52.5°	1935.0	1486.1	957.2	822.1	735.1	730.5	716.7	744.2	767.1	790.0
2189.1	55°	1740.3	1383.1	881.6	764.8	682.4	687.0	680.1	703.0	721.3	741.9
2097.5	57.5°	1570.9	1252.6	822.1	703.0	636.6	650.3	641.2	652.6	664.1	689.3
1987.6	60°	1399.1	1096.9	755.7	629.7	590.8	606.8	581.6	579.3	583.9	590.8
1825.0	62.5°	1167.8	934.3	673.2	565.6	540.4	547.3	499.2	462.6	462.6	469.4
1598.3	65°	938.9	783.1	581.6	492.3	471.7	467.1	398.4	348.1	343.5	364.1
1335.0	67.5°	771.7	650.3	490.0	409.9	396.2	400.7	350.4	300.0	295.4	318.3
1087.7	70°	638.9	524.4	391.6	316.0	329.7	350.4	300.0	251.9	245.0	265.6
883.9	72.5°	508.4	409.9	300.0	233.6	272.5	297.7	245.0	199.2	194.6	213.0
682.4	75°	373.3	293.1	203.8	169.5	210.7	233.6	178.6	142.0	135.1	151.1
455.7	77.5°	231.3	164.9	128.2	100.8	144.3	155.7	93.9	82.4	80.1	91.6
277.1	80°	107.6	71.0	61.8	34.3	52.7	61.8	38.9	43.5	45.8	55.0
139.7	82.5°	29.8	11.4	2.3	0.0	0.0	18.3	9.2	18.3	22.9	34.3
11.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.4	20.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955402  
 CATALOG NUMBER: GALN-SB8B-840-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
4602.7	0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
4172.2	2.5°	4268.4	4359.9	4506.5	4657.6	4806.5	4957.6	5104.2	5156.8
3691.3	5°	3872.2	4082.9	4373.7	4685.1	5005.7	5330.9	5628.5	5763.6
3194.4	7.5°	3430.3	3732.5	4169.9	4657.6	5168.3	5678.9	6148.4	6365.9
2702.1	10°	2958.5	3340.9	3840.1	4499.6	5232.4	5937.7	6583.4	6865.1
2269.3	12.5°	2509.7	2910.4	3462.3	4252.3	5182.0	6086.5	6862.8	7194.8
1964.7	15°	2134.2	2489.1	3084.5	3959.2	5019.4	6095.7	6995.6	7359.7
1795.3	17.5°	1852.5	2083.8	2699.8	3634.1	4806.5	6011.0	7041.4	7430.7
1703.7	20°	1712.8	1777.0	2200.6	3217.3	4607.3	5930.8	7087.2	7497.1
1630.4	22.5°	1630.4	1646.4	1799.9	2679.2	4369.1	5905.6	7167.4	7588.7
1564.0	25°	1564.0	1568.6	1609.8	2122.7	4005.0	5889.6	7291.0	7714.6
1495.3	27.5°	1497.6	1497.6	1520.5	1710.5	3510.4	5820.9	7451.3	7865.8
1426.6	30°	1431.2	1431.2	1447.2	1513.6	2931.1	5685.8	7643.6	8062.7
1357.9	32.5°	1362.5	1362.5	1376.2	1424.3	2340.3	5516.3	7820.0	8261.9
1286.9	35°	1293.8	1289.2	1307.5	1357.9	1861.7	5301.1	7996.3	8477.2
1215.9	37.5°	1220.5	1218.2	1236.5	1293.8	1607.5	5051.5	8129.1	8770.3
1144.9	40°	1142.7	1142.7	1163.3	1225.1	1534.2	4737.8	8339.8	9191.6
1071.7	42.5°	1071.7	1067.1	1090.0	1165.6	1479.3	4437.8	8717.6	9805.3
1005.3	45°	1003.0	993.8	1014.4	1108.3	1383.1	4332.5	9422.9	10712.1
941.1	47.5°	938.9	916.0	934.3	1039.6	1296.1	4726.3	10577.0	11969.2
883.9	50°	886.2	842.7	858.7	970.9	1229.7	5580.5	12074.6	13638.6
831.2	52.5°	831.2	774.0	783.1	886.2	1170.1	6393.4	13698.1	15841.5
778.6	55°	774.0	709.9	714.4	801.5	1085.4	6514.7	15282.7	18845.8
719.0	57.5°	709.9	650.3	650.3	723.6	1023.6	5646.9	16500.9	22573.7
645.7	60°	638.9	600.0	588.5	661.8	1078.5	3984.4	16642.9	24978.1
551.9	62.5°	561.0	540.4	524.4	602.2	1119.8	2360.9	15500.3	24396.5
435.1	65°	471.7	467.1	455.7	661.8	943.4	1394.5	13306.5	22612.7
371.0	67.5°	396.2	389.3	389.3	693.8	716.7	877.0	10396.1	20157.9
316.0	70°	341.2	316.0	316.0	524.4	435.1	606.8	7258.9	17508.5
261.0	72.5°	286.2	258.8	240.4	419.0	325.2	444.2	4536.3	14994.2
199.2	75°	229.0	208.4	185.5	277.1	242.7	336.6	2635.7	12422.6
125.9	77.5°	164.9	155.7	130.5	203.8	176.3	242.7	1568.6	9585.5
77.9	80°	84.7	87.0	82.4	116.8	119.1	164.9	893.1	6560.5
50.4	82.5°	50.4	38.9	43.5	57.2	68.7	93.9	336.6	3856.2
36.6	85°	32.1	20.6	20.6	27.5	34.3	36.6	103.0	1564.0
18.3	87.5°	16.0	6.9	9.2	13.7	11.4	9.2	4.6	393.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)