

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: P951475

Luminaire Tested: **GALN-SB5C-840-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951475
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-SB5C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 27617 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

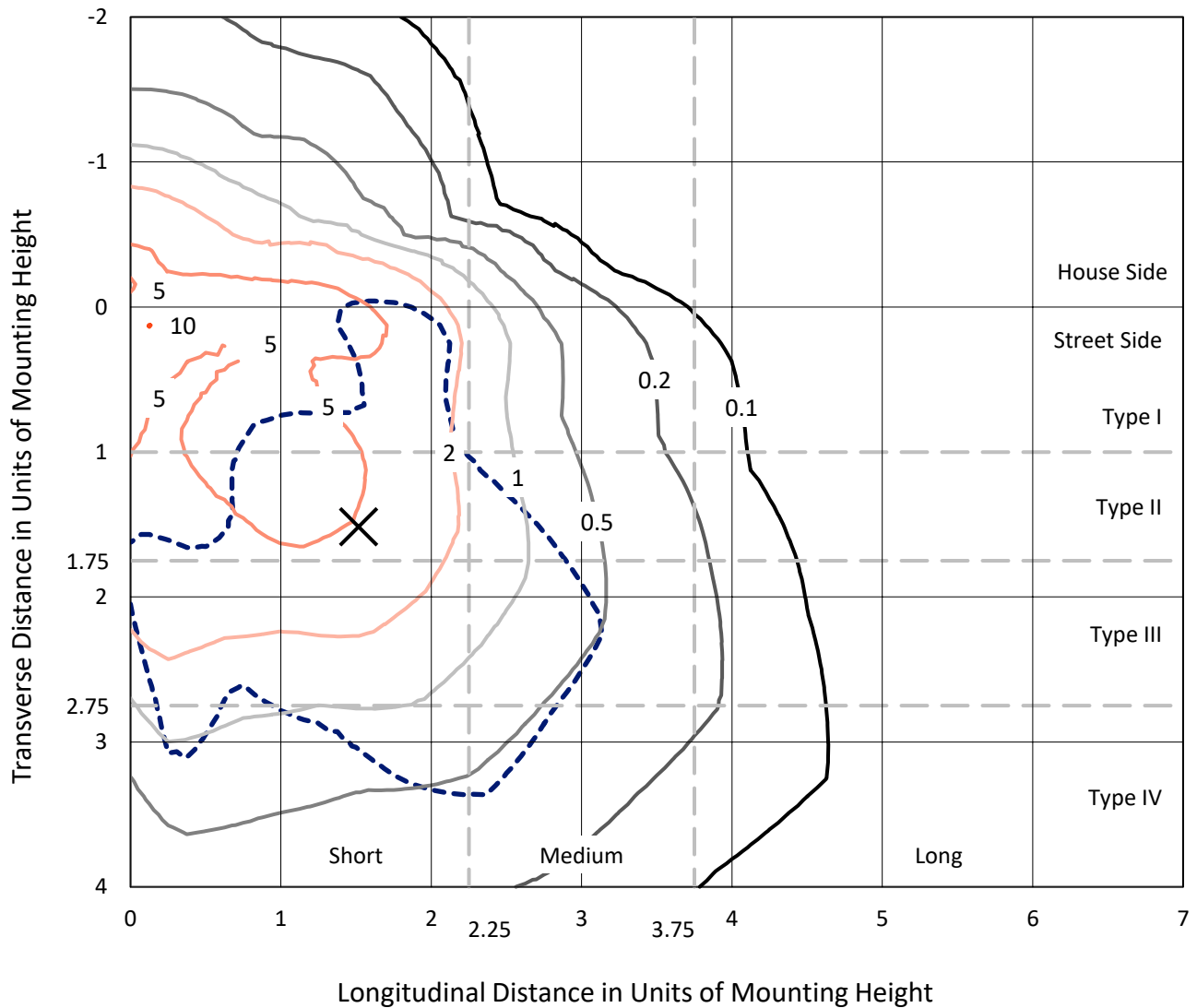
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951475
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Iso-Footcandle Lines of Horizontal Illumination

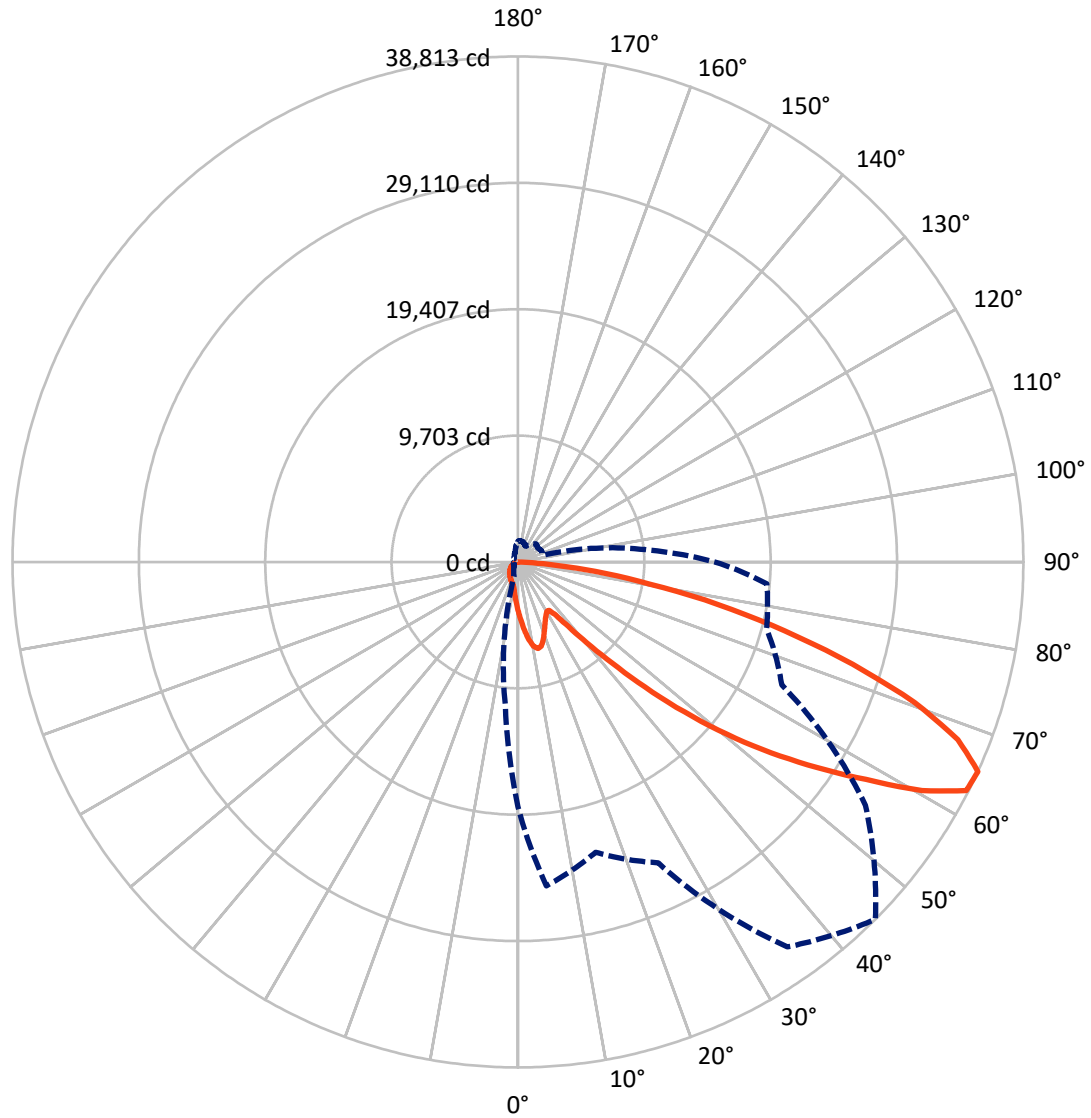
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

REPORT NUMBER: P951475
CATALOG NUMBER: GALN-SB5C-840-U-SLL-HSS

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
House Side	Lumens	5489.4	0.0	5489.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	22127.6	0.0	22127.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	27617.0	0.0	27617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	1.4
10°-20°	1128.6	4.1
20°-30°	1662.7	6.0
30°-40°	2136.1	7.7
40°-50°	3454.7	12.5
50°-60°	6058.1	21.9
60°-70°	7580.4	27.4
70°-80°	4429.6	16.0
80°-90°	790.3	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°	27617.0	100.0
0°-180°	27617.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951475

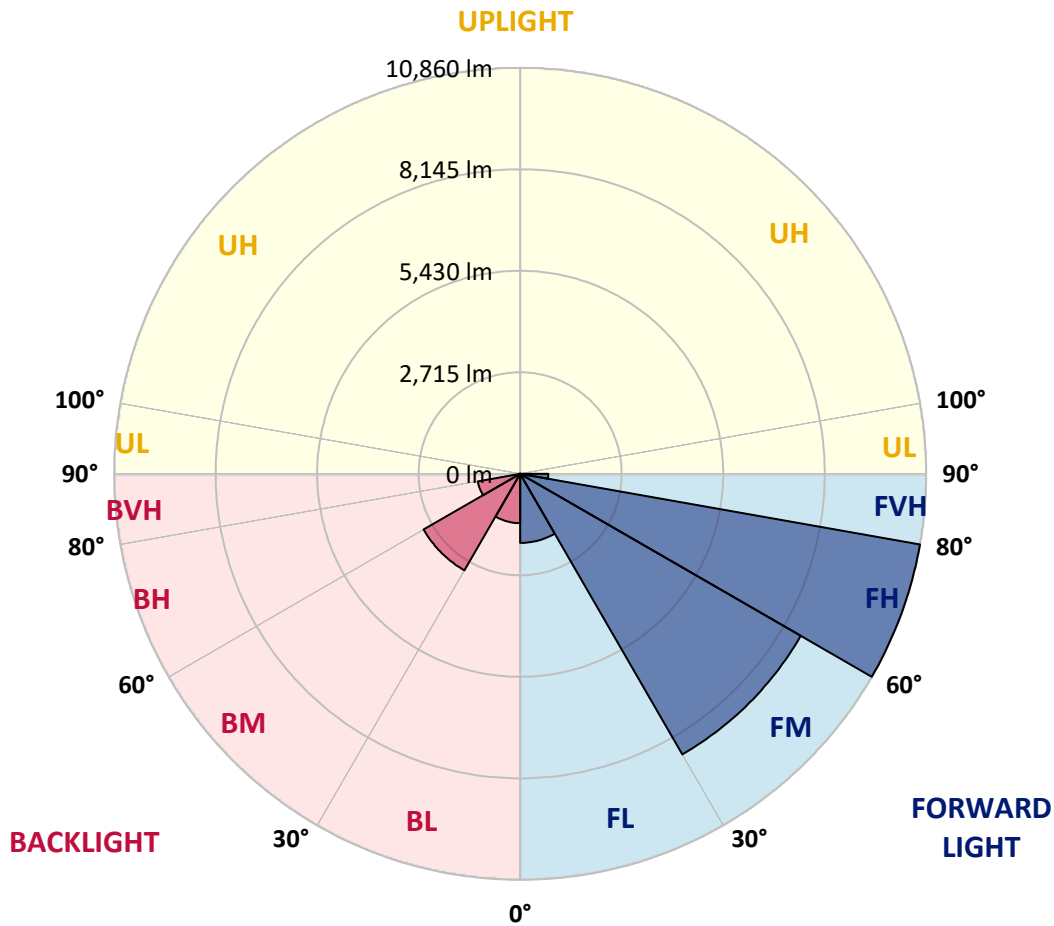
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1847.9	6.7			
FM (30°-60°)	8666.6	31.4			
FH (60°-80°)	10859.9	39.3			G4/12000
FVH (80°-90°)	753.3	2.7			G5
BL (0°-30°)	1319.9	4.8	B3/2500		
BM (30°-60°)	2982.4	10.8	B3/5000		
BH (60°-80°)	1150.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	37.0	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



REPORT NUMBER: P951475
 CATALOG NUMBER: GALN-SB5C-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
2.5°	4284.5	4316.8	4389.1	4427.2	4486.1	4490.0	4490.0	4438.6	4436.7	4332.0
5°	4788.6	4864.8	5036.0	5212.9	5251.0	5260.5	5241.5	5138.7	5062.6	4859.0
7.5°	5289.0	5435.5	5696.2	5932.1	6008.2	6008.2	5962.5	5795.1	5639.1	5344.2
10°	5703.8	5888.3	6242.2	6506.6	6594.1	6575.1	6481.9	6270.7	6055.7	5698.1
12.5°	5977.7	6185.1	6573.2	6786.3	6875.7	6826.3	6719.7	6514.2	6287.8	5911.1
15°	6114.7	6331.6	6668.3	6780.6	6755.9	6704.5	6691.2	6592.2	6421.0	6069.0
17.5°	6173.7	6375.4	6609.4	6539.0	6329.7	6289.7	6422.9	6548.5	6506.6	6206.0
20°	6228.9	6398.2	6468.6	6156.6	5791.3	5755.1	6010.1	6367.7	6550.4	6333.5
22.5°	6305.0	6409.6	6265.0	5753.2	5359.4	5275.7	5557.3	6095.7	6563.7	6495.2
25°	6409.6	6438.1	6040.5	5370.8	4975.1	4891.4	5153.9	5793.2	6540.9	6670.2
27.5°	6535.2	6476.2	5825.5	5051.2	4668.8	4590.8	4853.3	5502.1	6476.2	6845.3
30°	6698.8	6525.7	5612.4	4803.9	4450.0	4392.9	4646.0	5251.0	6396.3	7067.9
32.5°	6864.3	6546.6	5414.6	4659.3	4400.5	4421.5	4628.8	5115.9	6308.8	7281.0
35°	7043.1	6613.2	5317.6	4802.0	4813.4	4996.0	5081.6	5241.5	6295.4	7570.1
37.5°	7286.7	6761.6	5433.6	5511.6	5907.3	6285.9	6215.5	5856.0	6449.6	8002.0
40°	7636.7	7022.2	5939.7	6719.7	7532.1	8146.6	7878.3	6972.7	6921.4	8624.1
42.5°	8146.6	7437.0	6837.7	8196.1	9573.5	10585.6	9866.5	8413.0	7747.1	9512.6
45°	8900.0	8108.6	7924.0	9754.2	12090.5	13684.8	12189.5	9948.3	8903.8	10857.7
47.5°	9944.5	9096.0	8941.9	11396.1	15149.8	17212.1	14765.5	11371.4	10220.4	12691.7
50°	11331.4	10425.8	9906.4	13192.1	18503.9	20807.9	17339.6	12745.0	11729.1	14932.9
52.5°	13161.7	12280.8	11030.8	14902.5	21953.2	24327.6	19925.1	13951.2	13601.1	17533.7
55°	15657.8	15071.8	12568.1	16534.8	25400.6	27868.2	22409.8	15088.9	16074.4	20623.3
57.5°	18755.1	19173.6	14784.5	18427.8	28499.8	31517.2	24905.9	16679.4	19285.9	24078.3
60°	20752.7	24628.2	19029.0	21226.4	32021.4	35643.8	28326.7	19704.4	22660.9	25316.9
62.5°	20269.5	26363.3	24112.6	24799.4	35259.5	38644.0	31678.9	22742.8	23296.4	23492.4
65°	18787.4	24963.0	23075.7	25493.8	36079.4	38813.4	32575.0	22350.8	19761.5	19179.3
67.5°	16747.9	23302.1	20611.9	23652.2	34597.4	36446.6	30906.5	19771.0	15271.6	14392.6
70°	14546.7	21464.3	18994.8	21586.0	31772.1	32322.0	28069.8	17389.1	11232.5	9720.0
72.5°	12457.7	19550.3	17887.5	19468.5	28003.2	26865.5	24377.0	15283.0	8178.9	7010.8
75°	10321.2	16727.0	16310.3	16953.4	23047.2	21161.8	20254.3	12653.7	6419.1	5072.1
77.5°	7964.0	13070.3	14029.2	13576.4	16222.8	15718.6	15699.6	9508.8	4689.7	3384.6
80°	5450.7	9109.3	10960.4	9577.3	10528.6	10271.7	11824.2	6379.2	3401.7	2037.6
82.5°	3203.8	5545.9	7629.1	4636.4	5821.7	5975.8	7041.2	3103.0	2001.5	469.9
85°	1299.4	2189.8	2983.2	1815.0	2808.1	2368.6	2673.0	871.4	557.4	11.4
87.5°	327.2	700.1	490.9	203.6	325.3	298.7	235.9	106.5	22.8	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: P951475
 CATALOG NUMBER: GALN-SB5C-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3824.1	0°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
4320.6	2.5°	4246.4	4202.7	4094.2	3985.8	3898.3	3780.3	3702.3	3609.1	3519.7	3439.8
4815.3	5°	4695.4	4550.8	4353.0	4172.2	3987.7	3808.9	3631.9	3445.5	3274.2	3169.6
5233.8	7.5°	5060.7	4805.8	4543.2	4313.0	4090.4	3881.1	3647.1	3420.7	3152.5	3009.8
5553.5	10°	5332.8	4997.9	4653.6	4389.1	4164.6	3961.1	3763.2	3534.9	3211.5	3032.6
5747.5	12.5°	5511.6	5114.0	4710.6	4408.1	4157.0	3999.1	3911.6	3822.2	3500.6	3291.4
5890.2	15°	5635.3	5195.8	4750.6	4364.4	4056.2	3940.1	4027.6	4130.4	3924.9	3683.3
6038.6	17.5°	5770.4	5302.3	4767.7	4246.4	3860.2	3810.8	4037.2	4275.0	4265.5	4025.7
6179.4	20°	5913.0	5395.6	4756.3	4056.2	3622.4	3666.2	3955.3	4231.2	4347.3	4217.9
6341.1	22.5°	6059.5	5485.0	4712.5	3808.9	3399.8	3536.8	3826.0	4067.6	4204.6	4164.6
6539.0	25°	6244.1	5610.5	4647.9	3542.5	3215.3	3405.5	3675.7	3871.6	3966.8	3964.9
6752.1	27.5°	6464.8	5778.0	4613.6	3327.5	3084.0	3257.1	3496.8	3671.9	3738.5	3738.5
7016.5	30°	6721.6	5975.8	4575.6	3186.7	3007.9	3103.0	3289.5	3460.7	3527.3	3527.3
7305.7	32.5°	7007.0	6166.1	4484.2	3101.1	2950.8	2952.7	3070.7	3226.7	3306.6	3318.0
7667.2	35°	7349.4	6369.6	4284.5	3032.6	2884.2	2806.2	2863.3	2992.7	3087.8	3112.5
8182.8	37.5°	7798.4	6618.9	3999.1	2931.8	2781.5	2652.1	2665.4	2764.4	2869.0	2907.1
8894.3	40°	8401.5	6911.9	3702.3	2787.2	2636.9	2482.8	2477.1	2549.4	2652.1	2694.0
9857.0	42.5°	9198.7	7263.8	3418.8	2648.3	2461.9	2304.0	2294.4	2351.5	2440.9	2484.7
11127.9	45°	10218.4	7695.7	3175.3	2539.9	2290.6	2134.6	2130.8	2178.4	2256.4	2302.1
12754.5	47.5°	11635.8	8127.6	3009.8	2482.8	2155.6	1995.7	2003.4	2045.2	2115.6	2147.9
14860.6	50°	13483.2	8258.9	2926.1	2482.8	2083.3	1872.1	1910.1	1944.4	1997.6	2016.7
17385.3	52.5°	15256.3	7825.1	2850.0	2498.0	2092.8	1767.4	1849.3	1874.0	1919.6	1927.3
19725.4	55°	16125.8	6727.3	2745.3	2501.8	2151.8	1678.0	1799.8	1845.4	1862.6	1860.7
21083.8	57.5°	15827.1	5439.3	2568.4	2486.6	2191.7	1620.9	1738.9	1826.4	1837.8	1820.7
20825.0	60°	14778.8	4004.8	2433.3	2374.3	2176.5	1603.8	1645.7	1784.6	1801.7	1778.9
18831.2	62.5°	13020.9	2779.6	2328.7	2127.0	2109.9	1598.1	1499.2	1693.2	1735.1	1702.8
15136.5	65°	10250.8	1963.4	2005.3	1864.5	1965.3	1567.7	1347.0	1582.9	1640.0	1590.5
10981.4	67.5°	6936.6	1417.4	1624.8	1689.4	1731.3	1499.2	1236.6	1457.3	1533.4	1468.7
7046.9	70°	3746.1	995.0	1073.0	1423.1	1470.7	1381.2	1137.7	1329.9	1417.4	1347.0
5009.3	72.5°	2212.6	715.3	751.5	1143.4	1225.2	1215.7	1027.4	1181.5	1288.0	1204.3
3456.9	75°	1219.5	483.2	536.5	829.5	995.0	937.9	882.8	1000.7	1109.2	1027.4
2167.0	77.5°	546.0	289.2	372.9	544.1	781.9	643.1	683.0	780.0	880.9	795.3
1206.2	80°	211.2	161.7	247.3	296.8	568.9	355.8	439.5	574.6	646.9	578.4
262.5	82.5°	26.6	72.3	106.5	116.1	331.0	188.3	254.9	361.5	355.8	308.2
0.0	85°	0.0	13.3	15.2	7.6	142.7	68.5	83.7	118.0	110.3	83.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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

REPORT NUMBER: P951475
 CATALOG NUMBER: GALN-SB5C-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
3824.1	0°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
3424.5	2.5°	3331.3	3262.8	3228.6	3200.0	3226.7	3241.9	3241.9	3306.6	3344.6	3359.9
3103.0	5°	2935.6	2808.1	2722.5	2671.1	2688.3	2707.3	2728.2	2810.0	2865.2	2901.3
2880.4	7.5°	2623.6	2429.5	2309.7	2246.9	2256.4	2269.7	2286.8	2366.7	2421.9	2469.5
2838.6	10°	2469.5	2195.5	2037.6	1961.5	1948.2	1940.6	1934.9	1982.4	2024.3	2062.3
3009.8	12.5°	2477.1	2094.7	1902.5	1809.3	1769.3	1723.7	1687.5	1695.1	1721.8	1769.3
3316.1	15°	2574.1	2062.3	1832.1	1716.1	1649.5	1596.2	1552.5	1542.9	1552.5	1560.1
3666.2	17.5°	2705.4	2058.5	1771.2	1626.7	1558.2	1514.4	1474.5	1461.1	1463.0	1472.6
3898.3	20°	2810.0	2047.1	1702.8	1541.0	1480.2	1442.1	1402.2	1388.8	1392.6	1394.5
3921.1	22.5°	2865.2	2030.0	1626.7	1455.4	1404.1	1366.0	1329.9	1328.0	1328.0	1339.4
3797.4	25°	2865.2	1993.8	1558.2	1373.6	1328.0	1293.7	1250.0	1257.6	1261.4	1276.6
3605.3	27.5°	2796.7	1925.4	1503.0	1303.2	1255.7	1221.4	1181.5	1191.0	1196.7	1213.8
3415.0	30°	2709.2	1843.5	1440.2	1236.6	1181.5	1156.7	1122.5	1126.3	1133.9	1152.9
3238.1	32.5°	2616.0	1746.5	1388.8	1170.1	1114.9	1095.9	1057.8	1063.5	1071.1	1092.0
3063.1	35°	2513.2	1632.4	1328.0	1109.2	1054.0	1038.8	995.0	998.8	1010.2	1033.1
2874.7	37.5°	2404.8	1539.1	1267.1	1050.2	993.1	977.9	932.2	936.0	949.4	976.0
2676.8	40°	2298.2	1447.8	1202.4	987.4	930.3	917.0	867.6	871.4	886.6	915.1
2477.1	42.5°	2182.2	1377.4	1118.7	922.7	861.8	848.5	802.9	808.6	825.7	854.2
2292.5	45°	2043.3	1331.8	1025.5	861.8	793.4	780.0	738.2	749.6	768.6	797.2
2134.6	47.5°	1900.6	1312.7	947.5	797.2	723.0	711.5	677.3	696.3	717.3	740.1
1999.6	50°	1763.6	1288.0	867.6	736.3	662.1	650.7	627.8	652.6	673.5	694.4
1902.5	52.5°	1607.6	1234.7	795.3	683.0	610.7	606.9	595.5	618.3	637.3	656.4
1818.8	55°	1445.9	1149.1	732.5	635.4	567.0	570.8	565.0	584.1	599.3	616.4
1742.7	57.5°	1305.1	1040.7	683.0	584.1	528.9	540.3	532.7	542.2	551.7	572.7
1651.4	60°	1162.4	911.3	627.8	523.2	490.9	504.2	483.2	481.3	485.1	490.9
1516.3	62.5°	970.3	776.2	559.3	469.9	449.0	454.7	414.7	384.3	384.3	390.0
1328.0	65°	780.0	650.7	483.2	409.0	391.9	388.1	331.0	289.2	285.4	302.5
1109.2	67.5°	641.2	540.3	407.1	340.6	329.1	332.9	291.1	249.2	245.4	264.5
903.7	70°	530.8	435.7	325.3	262.5	274.0	291.1	249.2	209.3	203.6	220.7
734.4	72.5°	422.4	340.6	249.2	194.1	226.4	247.3	203.6	165.5	161.7	176.9
567.0	75°	310.1	243.5	169.3	140.8	175.0	194.1	148.4	118.0	112.2	125.6
378.6	77.5°	192.2	137.0	106.5	83.7	119.9	129.4	78.0	68.5	66.6	76.1
230.2	80°	89.4	59.0	51.4	28.5	43.8	51.4	32.3	36.1	38.1	45.7
116.1	82.5°	24.7	9.5	1.9	0.0	0.0	15.2	7.6	15.2	19.0	28.5
9.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.5	17.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
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: P951475
 CATALOG NUMBER: GALN-SB5C-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3824.1	0°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
3466.4	2.5°	3546.3	3622.4	3744.2	3869.7	3993.4	4119.0	4240.7	4284.5
3066.9	5°	3217.2	3392.2	3633.8	3892.6	4158.9	4429.1	4676.4	4788.6
2654.0	7.5°	2850.0	3101.1	3464.5	3869.7	4294.0	4718.3	5108.3	5289.0
2245.0	10°	2458.1	2775.8	3190.5	3738.5	4347.3	4933.2	5469.8	5703.8
1885.4	12.5°	2085.2	2418.1	2876.6	3533.0	4305.4	5056.9	5701.9	5977.7
1632.4	15°	1773.2	2068.0	2562.7	3289.5	4170.3	5064.5	5812.2	6114.7
1491.6	17.5°	1539.1	1731.3	2243.1	3019.3	3993.4	4994.1	5850.3	6173.7
1415.5	20°	1423.1	1476.4	1828.3	2673.0	3827.9	4927.5	5888.3	6228.9
1354.6	22.5°	1354.6	1367.9	1495.4	2226.0	3630.0	4906.6	5954.9	6305.0
1299.4	25°	1299.4	1303.2	1337.5	1763.6	3327.5	4893.3	6057.6	6409.6
1242.3	27.5°	1244.2	1244.2	1263.3	1421.2	2916.6	4836.2	6190.8	6535.2
1185.3	30°	1189.1	1189.1	1202.4	1257.6	2435.2	4724.0	6350.6	6698.8
1128.2	32.5°	1132.0	1132.0	1143.4	1183.4	1944.4	4583.2	6497.1	6864.3
1069.2	35°	1074.9	1071.1	1086.3	1128.2	1546.8	4404.3	6643.6	7043.1
1010.2	37.5°	1014.0	1012.1	1027.4	1074.9	1335.6	4197.0	6754.0	7286.7
951.3	40°	949.4	949.4	966.5	1017.8	1274.7	3936.3	6929.0	7636.7
890.4	42.5°	890.4	886.6	905.6	968.4	1229.0	3687.1	7242.9	8146.6
835.2	45°	833.3	825.7	842.8	920.8	1149.1	3599.6	7828.9	8900.0
781.9	47.5°	780.0	761.0	776.2	863.7	1076.8	3926.8	8787.8	9944.5
734.4	50°	736.3	700.1	713.4	806.7	1021.7	4636.4	10032.0	11331.4
690.6	52.5°	690.6	643.1	650.7	736.3	972.2	5311.8	11380.9	13161.7
646.9	55°	643.1	589.8	593.6	665.9	901.8	5412.7	12697.4	15657.8
597.4	57.5°	589.8	540.3	540.3	601.2	850.4	4691.6	13709.6	18755.1
536.5	60°	530.8	498.5	488.9	549.8	896.1	3310.4	13827.5	20752.7
458.5	62.5°	466.1	449.0	435.7	500.4	930.3	1961.5	12878.2	20269.5
361.5	65°	391.9	388.1	378.6	549.8	783.8	1158.6	11055.6	18787.4
308.2	67.5°	329.1	323.4	323.4	576.5	595.5	728.7	8637.5	16747.9
262.5	70°	283.5	262.5	262.5	435.7	361.5	504.2	6031.0	14546.7
216.9	72.5°	237.8	215.0	199.8	348.2	270.2	369.1	3768.9	12457.7
165.5	75°	190.3	173.1	154.1	230.2	201.7	279.7	2189.8	10321.2
104.6	77.5°	137.0	129.4	108.4	169.3	146.5	201.7	1303.2	7964.0
64.7	80°	70.4	72.3	68.5	97.0	98.9	137.0	742.0	5450.7
41.9	82.5°	41.9	32.3	36.1	47.6	57.1	78.0	279.7	3203.8
30.4	85°	26.6	17.1	17.1	22.8	28.5	30.4	85.6	1299.4
15.2	87.5°	13.3	5.7	7.6	11.4	9.5	7.6	3.8	327.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)