

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: P951769

Luminaire Tested: **GALN-SB5D-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951769
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-SB5D-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 34114 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

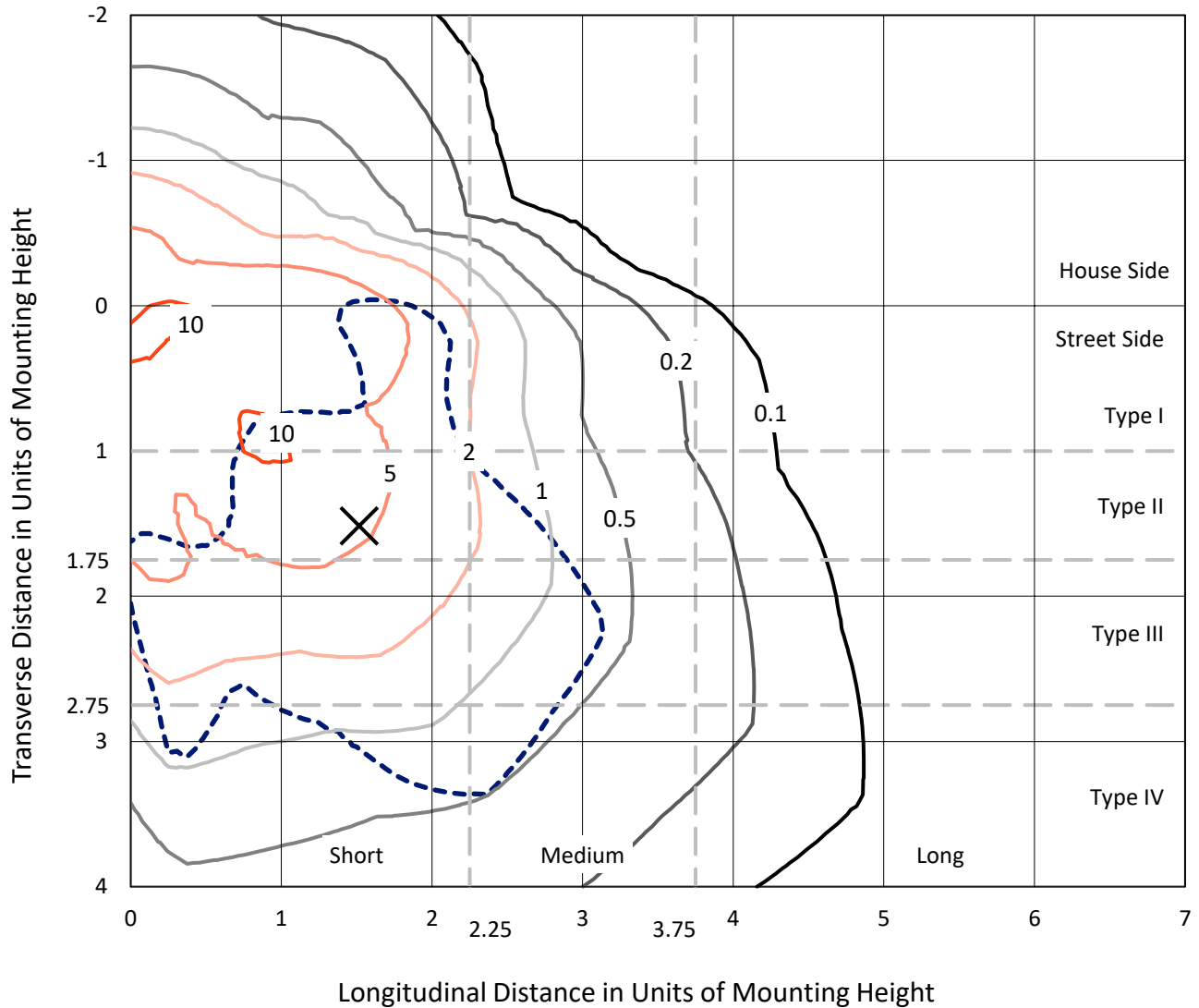
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951769
 CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

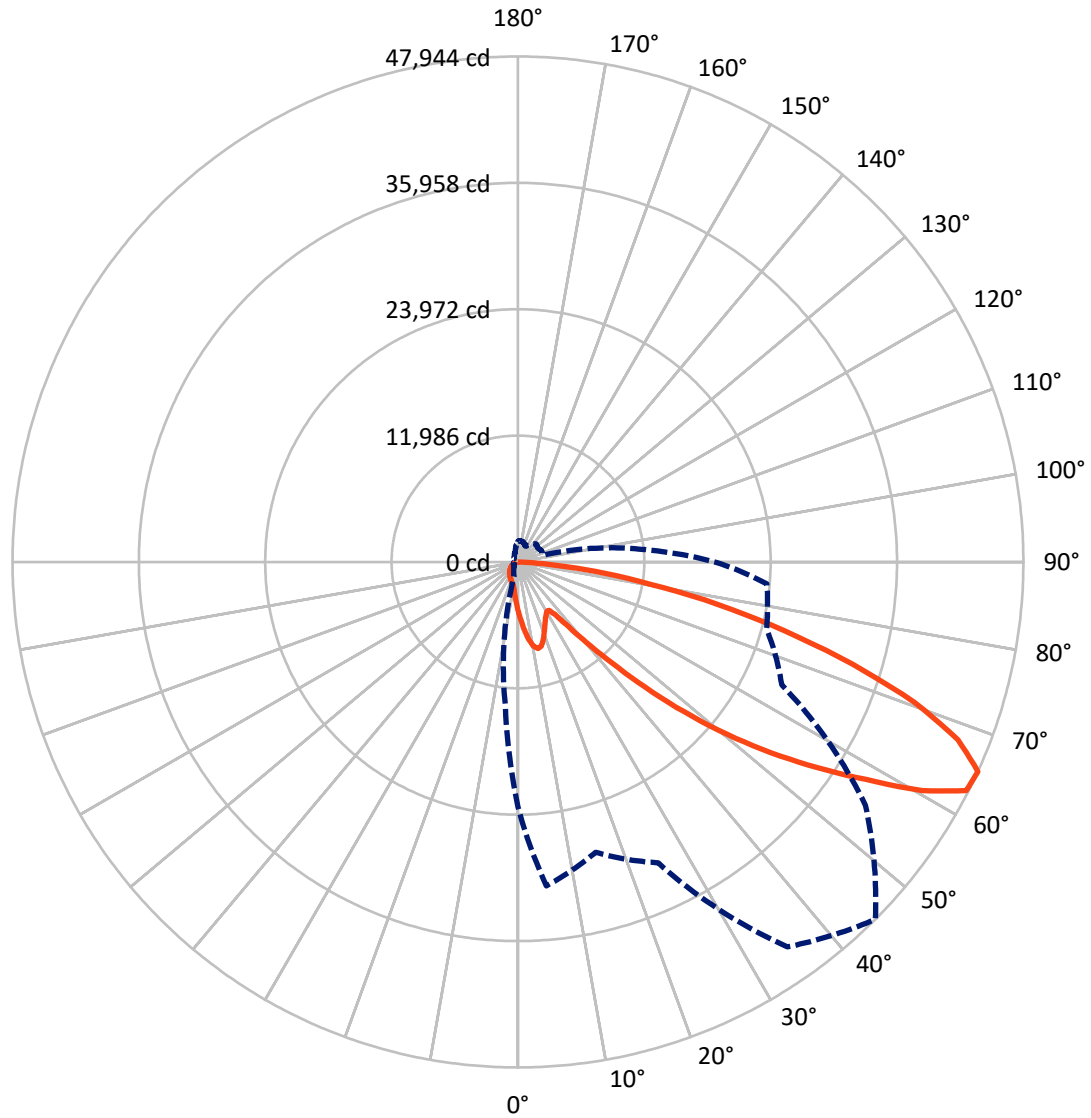
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P951769
CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951769
 CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6780.8	0.0	6780.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	27333.2	0.0	27333.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	34114.0	0.0	34114.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.1	1.4
10°-20°	1394.1	4.1
20°-30°	2053.8	6.0
30°-40°	2638.6	7.7
40°-50°	4267.4	12.5
50°-60°	7483.3	21.9
60°-70°	9363.7	27.4
70°-80°	5471.7	16.0
80°-90°	976.2	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°	34114.0	100.0
0°-180°	34114.0	100.0



REPORT NUMBER: P951769

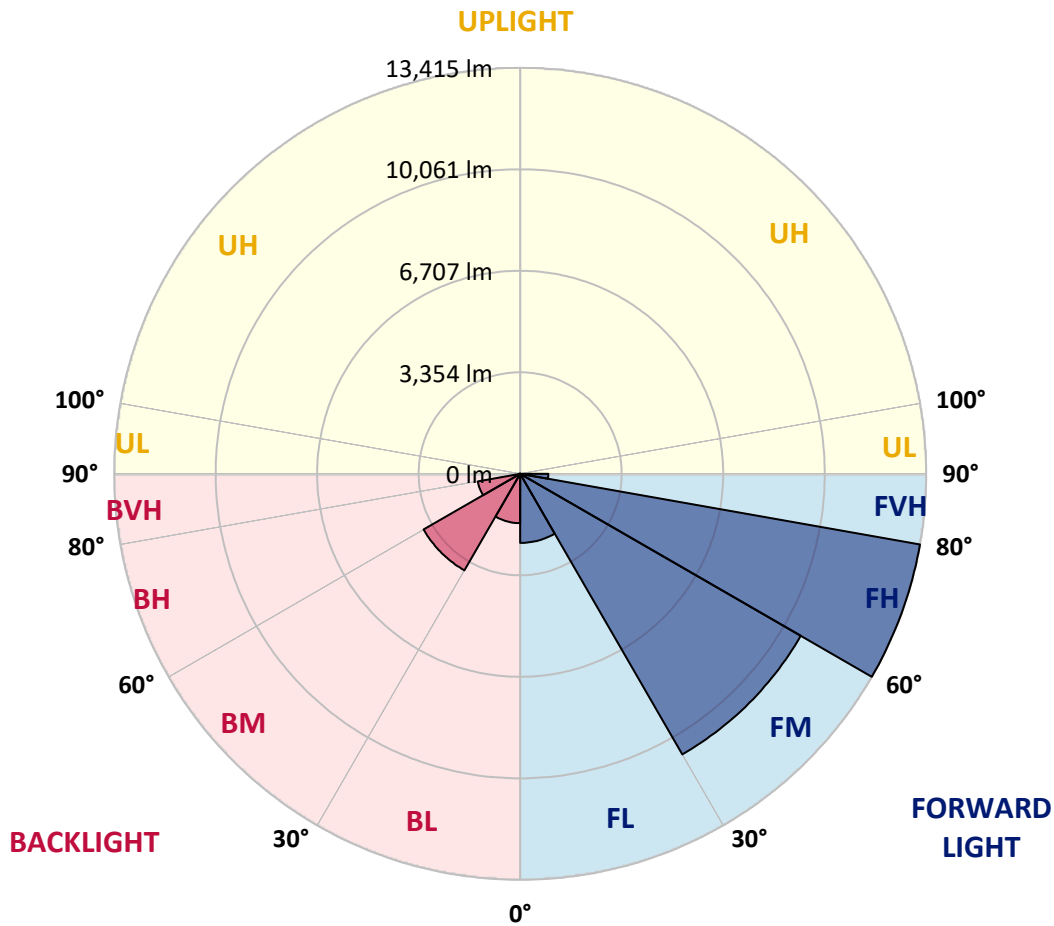
CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2282.6	6.7			
FM (30°-60°)	10705.4	31.4			
FH (60°-80°)	13414.7	39.3			G5
FVH (80°-90°)	930.5	2.7			G5
BL (0°-30°)	1630.4	4.8	B3/2500		
BM (30°-60°)	3684.0	10.8	B3/5000		
BH (60°-80°)	1420.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	45.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P951769
 CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
2.5°	5292.4	5332.4	5421.7	5468.7	5541.5	5546.2	5546.2	5482.8	5480.4	5351.2
5°	5915.2	6009.2	6220.7	6439.3	6486.3	6498.0	6474.5	6347.6	6253.6	6002.2
7.5°	6533.3	6714.2	7036.2	7327.6	7421.6	7421.6	7365.2	7158.4	6965.7	6601.4
10°	7045.6	7273.6	7710.7	8037.3	8145.4	8121.9	8006.8	7745.9	7480.4	7038.5
12.5°	7384.0	7640.2	8119.6	8382.8	8493.3	8432.2	8300.5	8046.7	7767.1	7301.8
15°	7553.2	7821.1	8237.1	8375.8	8345.2	8281.7	8265.3	8143.1	7931.6	7496.8
17.5°	7626.1	7875.2	8164.2	8077.3	7818.8	7769.4	7933.9	8089.0	8037.3	7666.0
20°	7694.2	7903.4	7990.3	7604.9	7153.7	7109.0	7424.0	7865.8	8091.4	7823.5
22.5°	7788.2	7917.5	7738.9	7106.7	6620.2	6516.8	6864.6	7529.7	8107.8	8023.2
25°	7917.5	7952.7	7461.6	6634.3	6145.5	6042.1	6366.4	7156.0	8079.6	8239.4
27.5°	8072.6	7999.7	7196.0	6239.5	5767.1	5670.8	5995.1	6796.5	7999.7	8455.7
30°	8274.7	8060.8	6932.8	5934.0	5496.9	5426.4	5738.9	6486.3	7901.0	8730.6
32.5°	8479.2	8086.7	6688.4	5755.4	5435.8	5461.6	5717.8	6319.4	7792.9	8993.8
35°	8700.1	8168.9	6568.5	5931.6	5945.7	6171.4	6277.1	6474.5	7776.5	9351.0
37.5°	9000.9	8352.2	6711.9	6808.2	7297.1	7764.7	7677.8	7233.6	7966.8	9884.5
40°	9433.3	8674.2	7337.0	8300.5	9304.0	10063.1	9731.8	8613.1	8549.7	10653.0
42.5°	10063.1	9186.5	8446.3	10124.2	11825.7	13075.9	12187.6	10392.1	9569.6	11750.5
45°	10993.8	10016.1	9788.2	12049.0	14934.9	16904.3	15057.1	12288.7	10998.5	13412.0
47.5°	12284.0	11235.8	11045.5	14077.1	18713.8	21261.3	18239.1	14046.5	12624.7	15677.5
50°	13997.2	12878.5	12237.0	16295.6	22857.1	25703.0	21418.8	15743.3	14488.4	18445.9
52.5°	16258.0	15169.9	13625.9	18408.3	27117.8	30050.7	24612.6	17233.3	16800.9	21658.5
55°	19341.3	18617.5	15524.7	20424.7	31376.2	34424.2	27681.8	18638.6	19856.0	25475.1
57.5°	23167.3	23684.3	18262.6	22763.1	35204.5	38931.7	30765.1	20603.3	23822.9	29742.8
60°	25634.9	30422.0	23505.7	26220.0	39554.5	44029.1	34990.6	24340.0	27992.0	31272.8
62.5°	25037.9	32565.3	29785.1	30633.5	43554.4	47735.2	39131.5	28093.1	28777.0	29019.0
65°	23207.2	30835.6	28504.3	31491.3	44567.3	47944.4	40238.4	27609.0	24410.5	23691.3
67.5°	20687.9	28784.0	25461.0	29216.4	42736.5	45020.8	38177.3	24422.2	18864.2	17778.5
70°	17968.9	26513.8	23463.4	26664.2	39246.6	39925.8	34673.3	21479.9	13875.0	12006.7
72.5°	15388.4	24149.6	22095.6	24048.6	34591.1	33185.7	30111.8	18878.3	10103.1	8660.1
75°	12749.3	20662.1	20147.4	20941.7	28469.1	26140.1	25019.1	15630.5	7929.2	6265.4
77.5°	9837.5	16145.2	17329.6	16770.3	20039.3	19416.5	19393.0	11745.8	5793.0	4180.8
80°	6733.0	11252.3	13538.9	11830.4	13005.4	12688.2	14605.9	7879.9	4202.0	2517.0
82.5°	3957.6	6850.5	9423.9	5727.2	7191.3	7381.7	8697.7	3833.0	2472.3	580.5
85°	1605.1	2705.0	3685.0	2242.0	3468.7	2925.9	3301.9	1076.3	688.6	14.1
87.5°	404.2	864.8	606.3	251.5	401.9	369.0	291.4	131.6	28.2	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: P951769
 CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4723.7	0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
5337.1	2.5°	5245.4	5191.4	5057.4	4923.5	4815.4	4669.6	4573.3	4458.1	4347.7	4249.0
5948.1	5°	5800.0	5621.4	5377.0	5153.8	4925.8	4704.9	4486.3	4256.0	4044.5	3915.3
6465.1	7.5°	6251.3	5936.3	5612.0	5327.7	5052.7	4794.2	4505.1	4225.5	3894.1	3717.9
6859.9	10°	6587.3	6173.7	5748.3	5421.7	5144.4	4892.9	4648.5	4366.5	3967.0	3746.1
7099.6	12.5°	6808.2	6317.1	5818.8	5445.2	5135.0	4939.9	4831.8	4721.3	4324.2	4065.7
7275.9	15°	6961.0	6418.1	5868.2	5391.1	5010.4	4867.1	4975.2	5102.1	4848.3	4549.8
7459.2	17.5°	7127.8	6549.7	5889.3	5245.4	4768.3	4707.2	4986.9	5280.7	5268.9	4972.8
7633.1	20°	7304.1	6664.9	5875.2	5010.4	4474.6	4528.6	4885.9	5226.6	5370.0	5210.2
7832.9	22.5°	7485.1	6775.3	5821.2	4704.9	4199.6	4368.8	4726.0	5024.5	5193.7	5144.4
8077.3	25°	7713.0	6930.4	5741.3	4375.9	3971.7	4206.7	4540.4	4782.4	4900.0	4897.6
8340.5	27.5°	7985.6	7137.2	5699.0	4110.3	3809.5	4023.4	4319.5	4535.7	4617.9	4617.9
8667.2	30°	8302.9	7381.7	5652.0	3936.4	3715.5	3833.0	4063.3	4274.8	4357.1	4357.1
9024.4	32.5°	8655.4	7616.7	5539.2	3830.7	3645.0	3647.4	3793.1	3985.8	4084.5	4098.6
9470.9	35°	9078.4	7868.1	5292.4	3746.1	3562.7	3466.4	3536.9	3696.7	3814.2	3844.8
10107.8	37.5°	9633.1	8176.0	4939.9	3621.5	3435.8	3276.0	3292.5	3414.7	3543.9	3591.0
10986.7	40°	10378.0	8537.9	4573.3	3442.9	3257.2	3066.9	3059.8	3149.1	3276.0	3327.7
12175.9	42.5°	11362.7	8972.7	4223.1	3271.3	3041.0	2846.0	2834.2	2904.7	3015.2	3069.2
13745.7	45°	12622.4	9506.1	3922.3	3137.4	2829.5	2636.8	2632.1	2690.9	2787.2	2843.6
15755.1	47.5°	14373.2	10039.6	3717.9	3066.9	2662.7	2465.3	2474.7	2526.4	2613.3	2653.3
18356.6	50°	16655.1	10201.8	3614.5	3066.9	2573.4	2312.5	2359.5	2401.8	2467.6	2491.1
21475.2	52.5°	18845.4	9666.0	3520.4	3085.7	2585.1	2183.2	2284.3	2314.8	2371.2	2380.6
24365.8	55°	19919.4	8309.9	3391.2	3090.4	2658.0	2072.8	2223.2	2279.6	2300.7	2298.4
26043.8	57.5°	19550.5	6718.9	3172.6	3071.6	2707.3	2002.3	2148.0	2256.1	2270.2	2249.0
25724.2	60°	18255.6	4947.0	3005.8	2932.9	2688.5	1981.1	2032.8	2204.4	2225.5	2197.3
23261.3	62.5°	16084.1	3433.5	2876.5	2627.4	2606.3	1974.1	1851.9	2091.6	2143.3	2103.3
18697.4	65°	12662.3	2425.3	2477.0	2303.1	2427.7	1936.5	1663.9	1955.3	2025.8	1964.7
13564.8	67.5°	8568.5	1750.8	2007.0	2086.9	2138.6	1851.9	1527.6	1800.2	1894.2	1814.3
8704.8	70°	4627.3	1229.1	1325.5	1757.9	1816.6	1706.2	1405.4	1642.7	1750.8	1663.9
6187.8	72.5°	2733.2	883.6	928.3	1412.4	1513.5	1501.7	1269.1	1459.4	1591.0	1487.6
4270.1	75°	1506.4	596.9	662.7	1024.6	1229.1	1158.6	1090.4	1236.2	1370.1	1269.1
2676.8	77.5°	674.5	357.2	460.6	672.1	965.9	794.3	843.7	963.5	1088.1	982.3
1490.0	80°	260.9	199.8	305.5	366.6	702.7	439.5	542.9	709.7	799.0	714.4
324.3	82.5°	32.9	89.3	131.6	143.4	408.9	232.7	314.9	446.5	439.5	380.7
0.0	85°	0.0	16.5	18.8	9.4	176.3	84.6	103.4	145.7	136.3	103.4
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

REPORT NUMBER: P951769
 CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4723.7	0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
4230.2	2.5°	4115.0	4030.4	3988.1	3952.9	3985.8	4004.6	4004.6	4084.5	4131.5	4150.3
3833.0	5°	3626.2	3468.7	3363.0	3299.5	3320.7	3344.2	3370.0	3471.1	3539.2	3583.9
3558.0	7.5°	3240.8	3001.1	2853.0	2775.5	2787.2	2803.7	2824.8	2923.5	2991.7	3050.4
3506.3	10°	3050.4	2712.0	2517.0	2423.0	2406.5	2397.1	2390.0	2448.8	2500.5	2547.5
3717.9	12.5°	3059.8	2587.5	2350.1	2234.9	2185.6	2129.2	2084.5	2093.9	2126.8	2185.6
4096.2	15°	3179.7	2547.5	2263.1	2119.8	2037.5	1971.7	1917.7	1905.9	1917.7	1927.1
4528.6	17.5°	3341.8	2542.8	2187.9	2009.3	1924.7	1870.7	1821.3	1804.9	1807.2	1819.0
4815.4	20°	3471.1	2528.7	2103.3	1903.6	1828.4	1781.4	1732.0	1715.6	1720.3	1722.6
4843.6	22.5°	3539.2	2507.6	2009.3	1797.8	1734.4	1687.4	1642.7	1640.4	1640.4	1654.5
4690.8	25°	3539.2	2462.9	1924.7	1696.8	1640.4	1598.1	1544.0	1553.4	1558.1	1576.9
4453.4	27.5°	3454.6	2378.3	1856.6	1609.8	1551.1	1508.8	1459.4	1471.2	1478.2	1499.4
4218.4	30°	3346.5	2277.2	1779.0	1527.6	1459.4	1428.9	1386.6	1391.3	1400.7	1424.2
3999.9	32.5°	3231.4	2157.4	1715.6	1445.3	1377.2	1353.7	1306.7	1313.7	1323.1	1349.0
3783.7	35°	3104.5	2016.4	1640.4	1370.1	1302.0	1283.2	1229.1	1233.8	1247.9	1276.1
3551.0	37.5°	2970.5	1901.2	1565.2	1297.3	1226.8	1208.0	1151.5	1156.2	1172.7	1205.6
3306.6	40°	2838.9	1788.4	1485.3	1219.7	1149.2	1132.7	1071.6	1076.3	1095.1	1130.4
3059.8	42.5°	2695.6	1701.5	1381.9	1139.8	1064.6	1048.1	991.7	998.8	1019.9	1055.2
2831.9	45°	2524.0	1645.1	1266.7	1064.6	980.0	963.5	911.8	925.9	949.4	984.7
2636.8	47.5°	2347.7	1621.6	1170.3	984.7	893.0	878.9	836.6	860.1	886.0	914.2
2470.0	50°	2178.5	1591.0	1071.6	909.5	817.8	803.7	775.5	806.1	831.9	857.8
2350.1	52.5°	1985.8	1525.2	982.3	843.7	754.4	749.7	735.6	763.8	787.3	810.8
2246.7	55°	1786.1	1419.5	904.8	784.9	700.3	705.0	698.0	721.5	740.3	761.4
2152.7	57.5°	1612.2	1285.5	843.7	721.5	653.3	667.4	658.0	669.8	681.5	707.4
2039.9	60°	1435.9	1125.7	775.5	646.3	606.3	622.8	596.9	594.6	599.3	606.3
1873.0	62.5°	1198.6	958.8	690.9	580.5	554.6	561.7	512.3	474.7	474.7	481.8
1640.4	65°	963.5	803.7	596.9	505.3	484.1	479.4	408.9	357.2	352.5	373.7
1370.1	67.5°	792.0	667.4	502.9	420.7	406.6	411.3	359.6	307.9	303.2	326.7
1116.3	70°	655.7	538.2	401.9	324.3	338.4	359.6	307.9	258.5	251.5	272.6
907.1	72.5°	521.7	420.7	307.9	239.7	279.7	305.5	251.5	204.5	199.8	218.6
700.3	75°	383.1	300.8	209.2	173.9	216.2	239.7	183.3	145.7	138.7	155.1
467.7	77.5°	237.4	169.2	131.6	103.4	148.1	159.8	96.4	84.6	82.3	94.0
284.4	80°	110.5	72.9	63.5	35.3	54.1	63.5	40.0	44.7	47.0	56.4
143.4	82.5°	30.6	11.8	2.4	0.0	0.0	18.8	9.4	18.8	23.5	35.3
11.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	11.8	21.2
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

REPORT NUMBER: P951769
 CATALOG NUMBER: GALN-SB5D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4723.7	0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
4281.9	2.5°	4380.6	4474.6	4625.0	4780.1	4932.9	5088.0	5238.4	5292.4
3788.4	5°	3974.0	4190.2	4488.7	4808.3	5137.3	5471.0	5776.5	5915.2
3278.4	7.5°	3520.4	3830.7	4279.5	4780.1	5304.2	5828.2	6310.0	6533.3
2773.1	10°	3036.3	3428.8	3941.1	4617.9	5370.0	6093.8	6756.5	7045.6
2328.9	12.5°	2575.7	2987.0	3553.3	4364.1	5318.3	6246.6	7043.2	7384.0
2016.4	15°	2190.3	2554.6	3165.6	4063.3	5151.4	6256.0	7179.6	7553.2
1842.5	17.5°	1901.2	2138.6	2770.8	3729.6	4932.9	6169.0	7226.6	7626.1
1748.5	20°	1757.9	1823.7	2258.4	3301.9	4728.4	6086.8	7273.6	7694.2
1673.3	22.5°	1673.3	1689.7	1847.2	2749.6	4484.0	6060.9	7355.8	7788.2
1605.1	25°	1605.1	1609.8	1652.1	2178.5	4110.3	6044.5	7482.7	7917.5
1534.6	27.5°	1537.0	1537.0	1560.5	1755.5	3602.7	5973.9	7647.2	8072.6
1464.1	30°	1468.8	1468.8	1485.3	1553.4	3008.1	5835.3	7844.6	8274.7
1393.6	32.5°	1398.3	1398.3	1412.4	1461.8	2401.8	5661.4	8025.6	8479.2
1320.8	35°	1327.8	1323.1	1341.9	1393.6	1910.6	5440.5	8206.5	8700.1
1247.9	37.5°	1252.6	1250.3	1269.1	1327.8	1649.8	5184.3	8342.8	9000.9
1175.0	40°	1172.7	1172.7	1193.8	1257.3	1574.6	4862.4	8559.1	9433.3
1099.8	42.5°	1099.8	1095.1	1118.6	1196.2	1518.2	4554.5	8946.8	10063.1
1031.7	45°	1029.3	1019.9	1041.1	1137.4	1419.5	4446.4	9670.7	10993.8
965.9	47.5°	963.5	940.0	958.8	1066.9	1330.2	4850.6	10855.1	12284.0
907.1	50°	909.5	864.8	881.3	996.4	1262.0	5727.2	12392.1	13997.2
853.1	52.5°	853.1	794.3	803.7	909.5	1200.9	6561.5	14058.3	16258.0
799.0	55°	794.3	728.5	733.2	822.5	1113.9	6686.0	15684.6	19341.3
737.9	57.5°	728.5	667.4	667.4	742.6	1050.5	5795.3	16934.8	23167.3
662.7	60°	655.7	615.7	604.0	679.2	1106.9	4089.2	17080.5	25634.9
566.4	62.5°	575.8	554.6	538.2	618.1	1149.2	2423.0	15907.8	25037.9
446.5	65°	484.1	479.4	467.7	679.2	968.2	1431.2	13656.4	23207.2
380.7	67.5°	406.6	399.5	399.5	712.1	735.6	900.1	10669.4	20687.9
324.3	70°	350.2	324.3	324.3	538.2	446.5	622.8	7449.8	17968.9
267.9	72.5°	293.8	265.6	246.8	430.1	333.7	455.9	4655.5	15388.4
204.5	75°	235.0	213.9	190.4	284.4	249.1	345.5	2705.0	12749.3
129.3	77.5°	169.2	159.8	134.0	209.2	181.0	249.1	1609.8	9837.5
79.9	80°	87.0	89.3	84.6	119.9	122.2	169.2	916.5	6733.0
51.7	82.5°	51.7	40.0	44.7	58.8	70.5	96.4	345.5	3957.6
37.6	85°	32.9	21.2	21.2	28.2	35.3	37.6	105.8	1605.1
18.8	87.5°	16.5	7.1	9.4	14.1	11.8	9.4	4.7	404.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)