

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: P957483

Luminaire Tested: **GALN-SB9D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957483
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-SB9D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61511 lumens
Efficiency: N/A
Efficacy: 93.5 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

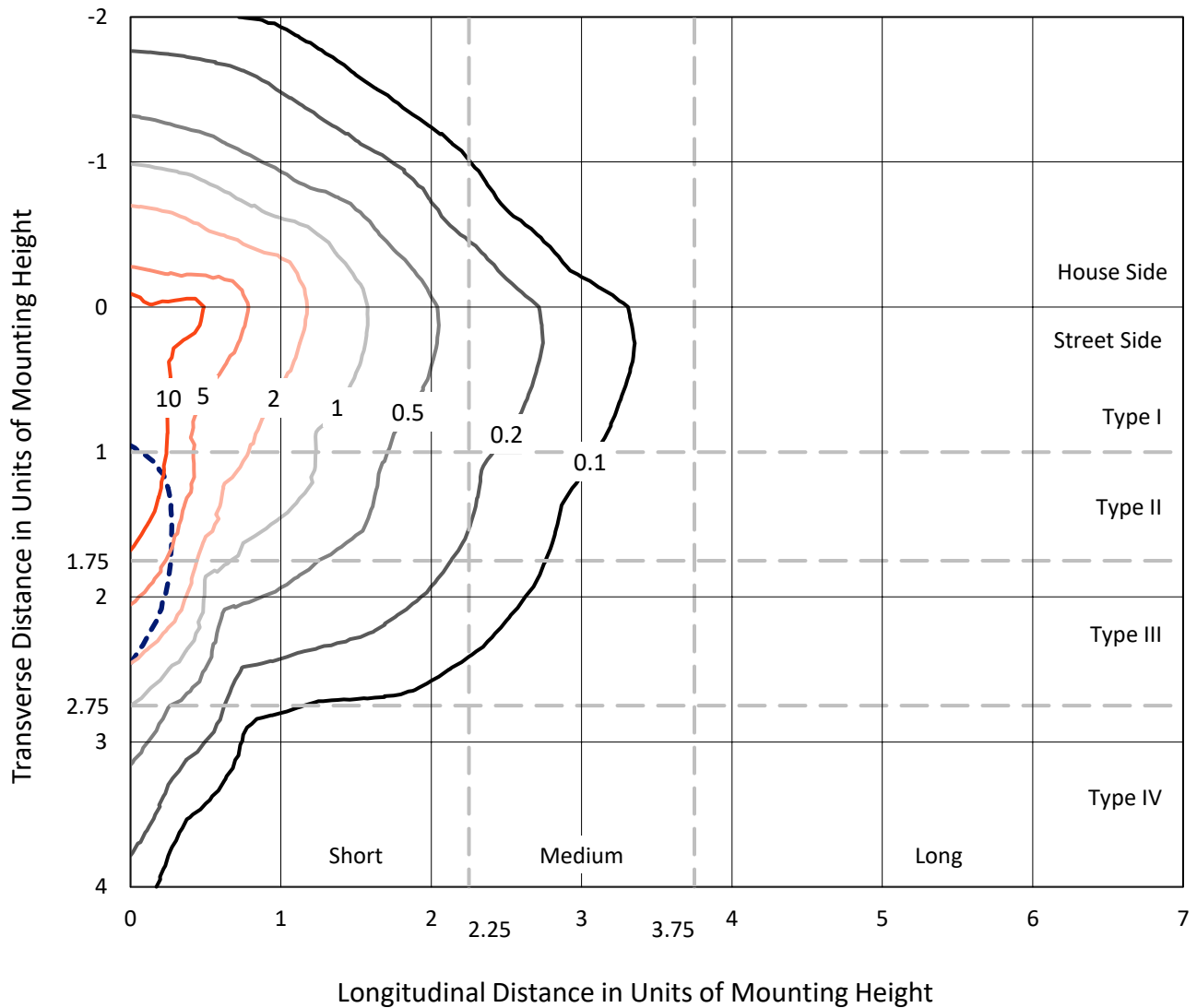
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957483
 CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

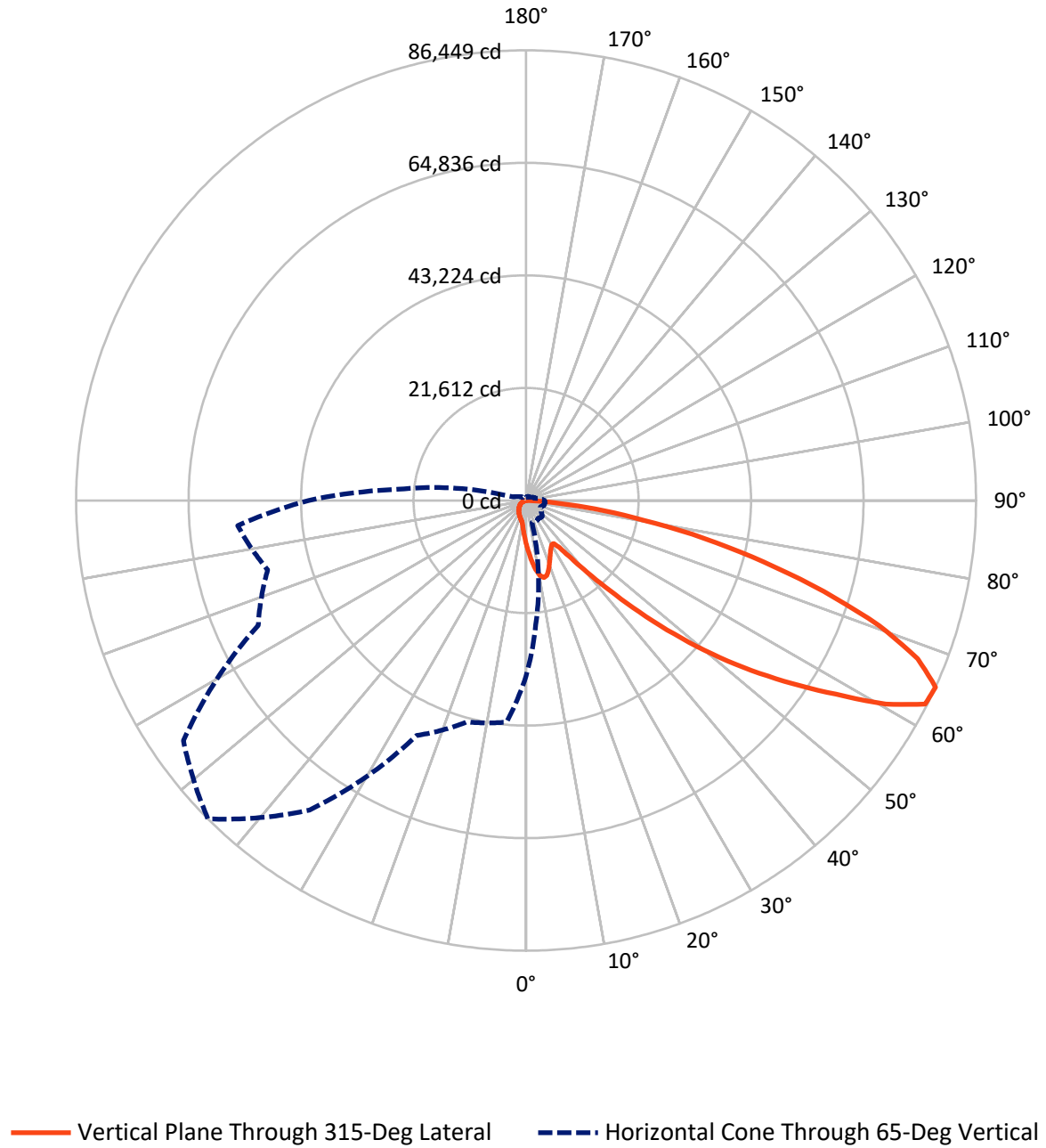
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type IV - Short - N/A

REPORT NUMBER: P957483
CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P957483
 CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8614.2	0.0	8614.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	52896.8	0.0	52896.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	61511.0	0.0	61511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.6	1.4
10°-20°	2513.7	4.1
20°-30°	3703.3	6.0
30°-40°	4757.7	7.7
40°-50°	7694.6	12.5
50°-60°	13493.2	21.9
60°-70°	16883.7	27.4
70°-80°	9866.0	16.0
80°-90°	1760.2	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°	61511.0	100.0
0°-180°	61511.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957483

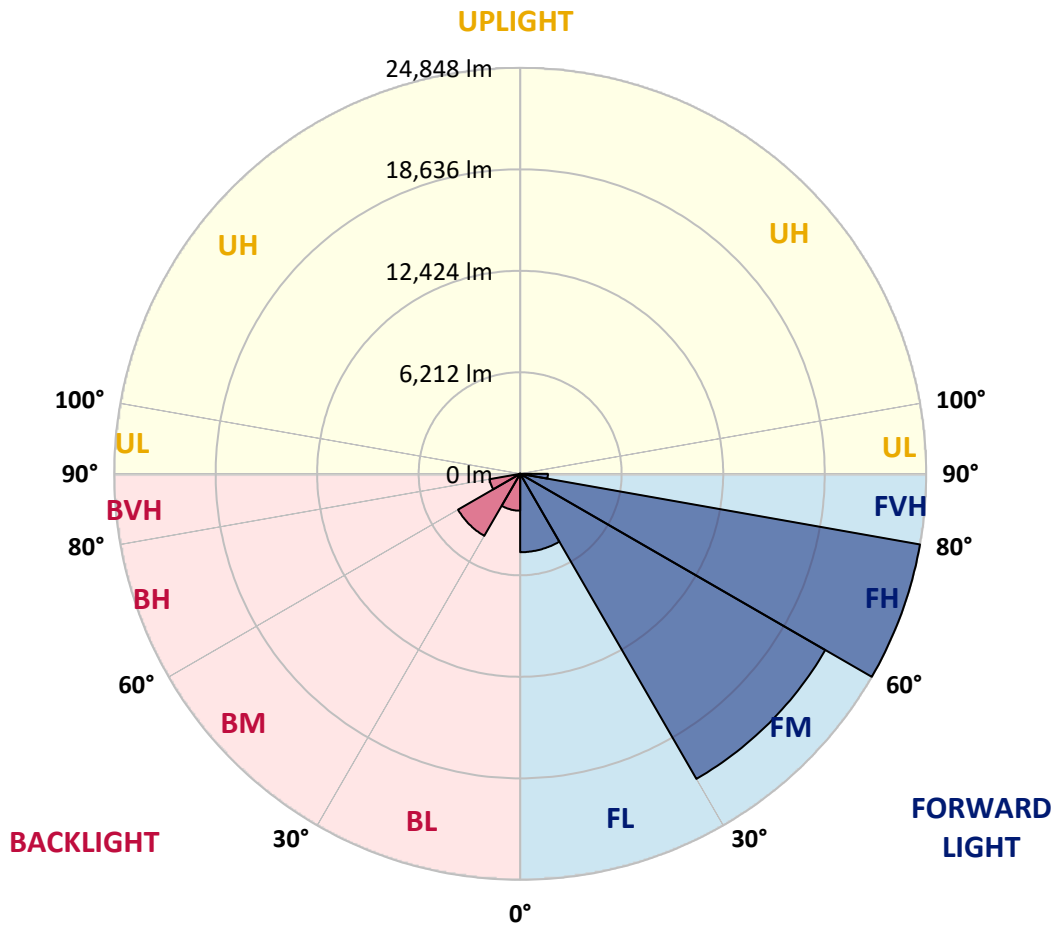
CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4797.6	7.8			
FM (30°-60°)	21558.9	35.0			
FH (60°-80°)	24847.6	40.4			G5
FVH (80°-90°)	1692.6	2.8			G5
BL (0°-30°)	2257.9	3.7	B3/2500		
BM (30°-60°)	4386.5	7.1	B3/5000		
BH (60°-80°)	1902.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	67.6	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



REPORT NUMBER: P957483

CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
2.5°	9623.3	9458.0	9360.6	9119.0	8877.5	8682.6	8419.8	8246.1	8038.5	7839.3
5°	10725.0	10458.1	10136.0	9695.3	9292.8	8881.7	8483.4	8089.3	7674.0	7292.7
7.5°	11657.3	11271.7	10703.8	10119.1	9606.3	9110.6	8644.4	8123.2	7619.0	7021.5
10°	12369.2	11877.6	11131.8	10364.8	9775.8	9275.8	8822.4	8381.7	7873.2	7152.8
12.5°	12801.4	12275.9	11390.3	10492.0	9818.2	9258.9	8907.2	8712.2	8513.1	7796.9
15°	13119.2	12551.4	11572.5	10581.0	9720.7	9034.3	8775.8	8970.7	9199.5	8741.9
17.5°	13449.7	12852.2	11809.8	10619.1	9458.0	8597.8	8487.6	8991.9	9521.6	9500.4
20°	13763.3	13170.0	12017.5	10593.7	9034.3	8068.1	8165.6	8809.7	9424.1	9682.6
22.5°	14123.5	13496.3	12216.6	10496.2	8483.4	7572.4	7877.4	8521.5	9059.7	9364.8
25°	14564.2	13907.4	12496.3	10352.1	7890.2	7161.3	7585.1	8186.8	8623.2	8835.1
27.5°	15038.8	14398.9	12869.2	10275.9	7411.3	6868.9	7254.5	7788.5	8178.3	8326.6
30°	15627.8	14971.0	13309.9	10191.1	7097.8	6699.4	6911.3	7326.6	7707.9	7856.3
32.5°	16271.9	15606.6	13733.6	9987.7	6907.1	6572.3	6576.5	6839.3	7186.7	7364.7
35°	17077.0	16369.3	14187.0	9542.8	6754.5	6424.0	6250.3	6377.4	6665.5	6877.4
37.5°	18225.3	17369.4	14742.1	8907.2	6529.9	6195.2	5907.0	5936.7	6157.0	6390.1
40°	19810.2	18712.6	15394.7	8246.1	6207.9	5873.1	5529.9	5517.2	5678.2	5907.0
42.5°	21954.3	20488.1	16178.6	7614.7	5898.6	5483.3	5131.6	5110.4	5237.5	5436.7
45°	24784.9	22759.4	17140.5	7072.3	5657.0	5101.9	4754.4	4746.0	4851.9	5025.6
47.5°	28408.0	25916.3	18102.5	6703.7	5529.9	4801.0	4445.1	4462.1	4555.3	4712.1
50°	33098.8	30030.9	18394.8	6517.2	5529.9	4640.0	4169.7	4254.4	4330.7	4449.3
52.5°	38722.0	33980.2	17428.7	6347.7	5563.8	4661.2	3936.6	4118.8	4173.9	4275.6
55°	43934.0	35916.8	14983.7	6114.7	5572.3	4792.6	3737.4	4008.6	4110.3	4148.5
57.5°	46959.6	35251.5	12114.9	5720.6	5538.4	4881.6	3610.3	3873.0	4068.0	4093.4
60°	46383.3	32916.6	8919.9	5419.7	5288.4	4847.7	3572.2	3665.4	3974.7	4012.9
62.5°	41942.4	29001.2	6190.9	5186.7	4737.5	4699.3	3559.5	3339.1	3771.3	3864.6
65°	33713.3	22831.5	4373.1	4466.3	4152.7	4377.3	3491.7	3000.1	3525.6	3652.7
67.5°	24458.6	15449.8	3156.9	3618.8	3762.9	3856.1	3339.1	2754.4	3245.9	3415.4
70°	15695.6	8343.6	2216.2	2389.9	3169.6	3275.6	3076.4	2534.0	2962.0	3156.9
72.5°	11157.2	4928.2	1593.3	1673.8	2546.7	2728.9	2707.7	2288.2	2631.5	2868.8
75°	7699.5	2716.2	1076.3	1195.0	1847.5	2216.2	2089.1	1966.2	2228.9	2470.4
77.5°	4826.5	1216.2	644.1	830.5	1211.9	1741.6	1432.3	1521.3	1737.4	1961.9
80°	2686.6	470.4	360.2	550.9	661.0	1267.0	792.4	978.9	1279.7	1440.7
82.5°	584.8	59.3	161.0	237.3	258.5	737.3	419.5	567.8	805.1	792.4
85°	0.0	0.0	29.7	33.9	16.9	317.8	152.5	186.4	262.7	245.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957483
 CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8517.3	0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
7661.3	2.5°	7627.4	7419.8	7267.3	7191.0	7127.4	7186.7	7220.6	7220.6	7364.7	7449.5
7059.6	5°	6911.3	6538.4	6254.5	6063.8	5949.4	5987.5	6029.9	6076.5	6258.7	6381.6
6703.7	7.5°	6415.5	5843.5	5411.2	5144.3	5004.4	5025.6	5055.3	5093.4	5271.4	5394.3
6754.5	10°	6322.3	5500.2	4890.0	4538.3	4368.8	4339.2	4322.2	4309.5	4415.4	4508.7
7330.8	12.5°	6703.7	5517.2	4665.4	4237.5	4029.8	3940.8	3839.1	3758.6	3775.6	3834.9
8203.7	15°	7385.9	5733.3	4593.4	4080.7	3822.2	3673.9	3555.2	3457.8	3436.6	3457.8
8966.5	17.5°	8165.6	6025.7	4584.9	3945.1	3623.0	3470.5	3373.0	3284.0	3254.4	3258.6
9394.5	20°	8682.6	6258.7	4559.5	3792.5	3432.3	3296.7	3212.0	3123.0	3093.3	3101.8
9275.8	22.5°	8733.4	6381.6	4521.4	3623.0	3241.7	3127.2	3042.5	2962.0	2957.8	2957.8
8830.9	25°	8458.0	6381.6	4440.9	3470.5	3059.4	2957.8	2881.5	2784.0	2801.0	2809.4
8326.6	27.5°	8030.0	6229.1	4288.3	3347.6	2902.7	2796.7	2720.5	2631.5	2652.7	2665.4
7856.3	30°	7606.3	6034.2	4106.1	3207.8	2754.4	2631.5	2576.4	2500.1	2508.6	2525.5
7390.1	32.5°	7212.2	5826.5	3890.0	3093.3	2606.0	2483.2	2440.8	2356.0	2368.7	2385.7
6932.5	35°	6822.3	5597.7	3635.7	2957.8	2470.4	2347.6	2313.7	2216.2	2224.7	2250.1
6474.8	37.5°	6402.8	5356.2	3428.1	2822.2	2339.1	2212.0	2178.1	2076.4	2084.8	2114.5
6000.3	40°	5962.1	5118.9	3224.7	2678.1	2199.2	2072.1	2042.5	1932.3	1940.8	1974.7
5534.1	42.5°	5517.2	4860.4	3067.9	2491.6	2055.2	1919.6	1889.9	1788.2	1800.9	1839.1
5127.3	45°	5106.1	4551.0	2966.2	2284.0	1919.6	1767.0	1737.4	1644.1	1669.6	1711.9
4784.1	47.5°	4754.4	4233.2	2923.9	2110.3	1775.5	1610.2	1584.8	1508.5	1550.9	1597.5
4491.7	50°	4453.6	3928.1	2868.8	1932.3	1639.9	1474.6	1449.2	1398.4	1453.5	1500.1
4292.6	52.5°	4237.5	3580.7	2750.1	1771.3	1521.3	1360.2	1351.8	1326.3	1377.2	1419.6
4144.2	55°	4051.0	3220.5	2559.4	1631.4	1415.3	1262.8	1271.2	1258.5	1300.9	1334.8
4055.3	57.5°	3881.5	2906.9	2317.9	1521.3	1300.9	1178.0	1203.4	1186.5	1207.7	1228.9
3962.0	60°	3678.1	2589.1	2029.7	1398.4	1165.3	1093.3	1122.9	1076.3	1072.1	1080.6
3792.5	62.5°	3377.3	2161.1	1728.9	1245.8	1046.7	1000.0	1012.8	923.8	856.0	856.0
3542.5	65°	2957.8	1737.4	1449.2	1076.3	911.1	872.9	864.4	737.3	644.1	635.6
3271.3	67.5°	2470.4	1428.0	1203.4	906.8	758.5	733.1	741.6	648.3	555.1	546.6
3000.1	70°	2012.8	1182.3	970.4	724.6	584.8	610.2	648.3	555.1	466.1	453.4
2682.3	72.5°	1635.7	940.7	758.5	555.1	432.2	504.3	550.9	453.4	368.7	360.2
2288.2	75°	1262.8	690.7	542.4	377.1	313.6	389.8	432.2	330.5	262.7	250.0
1771.3	77.5°	843.3	428.0	305.1	237.3	186.4	267.0	288.1	173.7	152.5	148.3
1288.2	80°	512.7	199.2	131.4	114.4	63.6	97.5	114.4	72.0	80.5	84.7
686.5	82.5°	258.5	55.1	21.2	4.2	0.0	0.0	33.9	16.9	33.9	42.4
186.4	85°	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	21.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P957483
 CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
8517.3	0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
7483.4	2.5°	7720.7	7898.6	8068.1	8339.3	8619.0	8894.4	9174.1	9445.3	9542.8	9614.8
6462.1	5°	6830.8	7165.6	7555.4	8093.6	8669.9	9263.1	9864.8	10415.7	10665.7	10835.2
5500.2	7.5°	5911.3	6347.7	6907.1	7716.4	8619.0	9564.0	10508.9	11377.6	11780.2	12106.4
4593.4	10°	5000.2	5474.8	6182.5	7106.2	8326.6	9682.6	10987.7	12182.7	12703.9	13115.0
3940.8	12.5°	4199.3	4644.3	5385.8	6407.0	7869.0	9589.4	11263.2	12699.7	13314.1	13776.0
3474.7	15°	3635.7	3949.3	4606.1	5707.9	7326.6	9288.5	11280.1	12945.5	13619.2	14102.3
3279.8	17.5°	3322.2	3428.1	3856.1	4996.0	6724.9	8894.4	11123.3	13030.2	13750.6	14199.7
3106.1	20°	3152.7	3169.6	3288.3	4072.2	5953.6	8525.8	10975.0	13115.0	13873.5	14250.6
2983.2	22.5°	3017.1	3017.1	3046.7	3330.6	4957.8	8085.1	10928.4	13263.3	14043.0	14276.0
2843.3	25°	2894.2	2894.2	2902.7	2978.9	3928.1	7411.3	10898.8	13492.1	14276.0	14339.6
2703.5	27.5°	2767.1	2771.3	2771.3	2813.7	3165.4	6496.0	10771.6	13788.7	14555.7	14424.3
2567.9	30°	2639.9	2648.4	2648.4	2678.1	2801.0	5424.0	10521.6	14144.7	14920.1	14534.5
2432.3	32.5°	2512.8	2521.3	2521.3	2546.7	2635.7	4330.7	10208.1	14470.9	15288.8	14581.1
2300.9	35°	2381.5	2394.2	2385.7	2419.6	2512.8	3445.1	9809.7	14797.2	15687.1	14729.4
2173.8	37.5°	2250.1	2258.6	2254.3	2288.2	2394.2	2974.7	9347.8	15043.0	16229.5	15060.0
2038.2	40°	2118.7	2114.5	2114.5	2152.6	2267.0	2839.1	8767.3	15432.8	17009.2	15640.5
1902.6	42.5°	1983.1	1983.1	1974.7	2017.0	2156.9	2737.4	8212.2	16132.0	18144.8	16564.3
1775.5	45°	1860.2	1856.0	1839.1	1877.2	2050.9	2559.4	8017.3	17437.2	19822.9	18060.1
1648.4	47.5°	1741.6	1737.4	1695.0	1728.9	1923.8	2398.4	8746.1	19572.9	22149.2	20259.3
1546.7	50°	1635.7	1639.9	1559.4	1589.0	1796.7	2275.5	10326.7	22344.2	25238.3	23221.3
1461.9	52.5°	1538.2	1538.2	1432.3	1449.2	1639.9	2165.3	11831.0	25348.5	29314.8	27352.8
1372.9	55°	1440.7	1432.3	1313.6	1322.1	1483.1	2008.6	12055.6	28280.8	34874.3	33569.2
1275.5	57.5°	1330.6	1313.6	1203.4	1203.4	1339.0	1894.1	10449.6	30535.2	41772.9	42705.2
1093.3	60°	1195.0	1182.3	1110.2	1089.0	1224.6	1995.8	7373.2	30797.9	46222.3	54854.0
868.7	62.5°	1021.2	1038.2	1000.0	970.4	1114.5	2072.1	4368.8	28683.4	45146.0	58718.6
673.8	65°	805.1	872.9	864.4	843.3	1224.6	1745.8	2580.6	24623.9	41845.0	55599.8
589.0	67.5°	686.5	733.1	720.4	720.4	1284.0	1326.3	1622.9	19238.1	37302.4	51900.5
491.5	70°	584.8	631.4	584.8	584.8	970.4	805.1	1122.9	13432.8	32399.7	47807.1
394.1	72.5°	483.1	529.7	478.8	444.9	775.5	601.7	822.1	8394.4	27746.9	43544.2
279.7	75°	368.7	423.7	385.6	343.2	512.7	449.2	622.9	4877.3	22988.2	37255.8
169.5	77.5°	233.1	305.1	288.1	241.5	377.1	326.3	449.2	2902.7	17738.0	29111.4
101.7	80°	144.1	156.8	161.0	152.5	216.1	220.3	305.1	1652.6	12140.3	20289.0
63.6	82.5°	93.2	93.2	72.0	80.5	105.9	127.1	173.7	622.9	7135.9	12352.2
38.1	85°	67.8	59.3	38.1	38.1	50.8	63.6	67.8	190.7	2894.2	4877.3
16.9	87.5°	33.9	29.7	12.7	16.9	25.4	21.2	16.9	8.5	728.8	1559.4
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: P957483
 CATALOG NUMBER: GALN-SB9D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
8517.3	0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
9775.8	2.5°	9860.6	9991.9	10000.4	10000.4	9886.0	9881.8	9648.7	9623.3
11216.6	5°	11610.7	11695.4	11716.6	11674.2	11445.4	11275.9	10822.5	10725.0
12687.0	7.5°	13212.4	13381.9	13381.9	13280.2	12907.3	12559.8	11903.0	11657.3
13903.1	10°	14492.1	14687.1	14644.7	14437.0	13966.7	13487.9	12691.2	12369.2
14640.4	12.5°	15115.0	15314.2	15204.0	14966.7	14509.1	14004.8	13165.8	12801.4
14852.3	15°	15102.3	15047.2	14932.8	14903.2	14682.8	14301.4	13517.5	13119.2
14721.0	17.5°	14564.2	14098.0	14009.1	14305.7	14585.4	14492.1	13822.6	13449.7
14407.4	20°	13712.4	12898.8	12818.3	13386.2	14182.8	14589.6	14106.5	13763.3
13954.0	22.5°	12814.1	11936.9	11750.5	12377.6	13576.8	14619.3	14466.7	14123.5
13454.0	25°	11962.4	11081.0	10894.5	11479.3	12903.1	14568.4	14856.6	14564.2
12975.1	27.5°	11250.5	10398.7	10225.0	10809.8	12254.7	14424.3	15246.4	15038.8
12500.5	30°	10699.6	9911.4	9784.3	10347.9	11695.4	14246.4	15742.2	15627.8
12059.8	32.5°	10377.6	9801.3	9847.9	10309.8	11394.5	14051.4	16216.8	16271.9
11843.7	35°	10695.4	10720.8	11127.6	11318.3	11674.2	14021.8	16860.9	17077.0
12102.2	37.5°	12275.9	13157.3	14000.6	13843.8	13042.9	14365.0	17822.8	18225.3
13229.4	40°	14966.7	16776.1	18144.8	17547.3	15530.3	15415.9	19208.4	19810.2
15229.5	42.5°	18255.0	21322.9	23577.3	21975.5	18738.1	17255.0	21187.3	21954.3
17649.0	45°	21725.5	26929.1	30480.1	27149.4	22157.7	19831.3	24183.2	24784.9
19916.1	47.5°	25382.4	33742.9	38336.3	32887.0	25327.3	22763.7	28268.1	28408.0
22064.5	50°	29382.6	41213.6	46345.2	38620.3	28386.8	26124.0	33259.9	33098.8
24568.8	52.5°	33192.1	48896.1	54184.5	44379.0	31073.3	30293.6	39052.5	38722.0
27992.7	55°	36827.8	56574.4	62070.4	49913.1	33607.3	35802.3	45934.1	43934.0
32929.3	57.5°	41044.1	63477.2	70197.9	55472.7	37149.9	42955.2	53629.4	46959.6
42383.1	60°	47277.4	71320.8	79388.9	63091.6	43887.4	50472.4	56388.0	46383.3
53705.6	62.5°	55235.4	78532.9	86071.4	70558.0	50654.7	51887.8	52324.2	41942.4
51396.2	65°	56782.0	80359.3	86448.5	72553.9	49781.7	44014.6	42717.9	33713.3
45908.7	67.5°	52680.2	77058.3	81177.1	68837.6	44035.7	34014.1	32056.4	24458.6
42306.9	70°	48078.3	70765.7	71990.3	62519.6	38730.4	25018.0	21649.2	15695.6
39840.6	72.5°	43362.0	62371.3	59837.2	54294.6	34039.6	18216.9	15615.1	11157.2
36327.8	75°	37760.1	51332.7	47133.3	45112.1	28183.4	14297.2	11297.1	7699.5
31247.1	77.5°	30238.6	36132.9	35009.9	34967.6	21178.9	10445.4	7538.5	4826.5
24412.0	80°	21331.4	23450.1	22878.1	26335.8	14208.2	7576.6	4538.3	2686.6
16992.2	82.5°	10326.7	12966.6	13309.9	15682.9	6911.3	4457.8	1046.7	584.8
6644.3	85°	4042.5	6254.5	5275.6	5953.6	1940.8	1241.6	25.4	0.0
1093.3	87.5°	453.4	724.6	665.3	525.4	237.3	50.8	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)