

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: P955341

Luminaire Tested: **GALN-SB8B-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955341
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-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA 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: 30218 lumens
Efficiency: N/A
Efficacy: 103.2 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

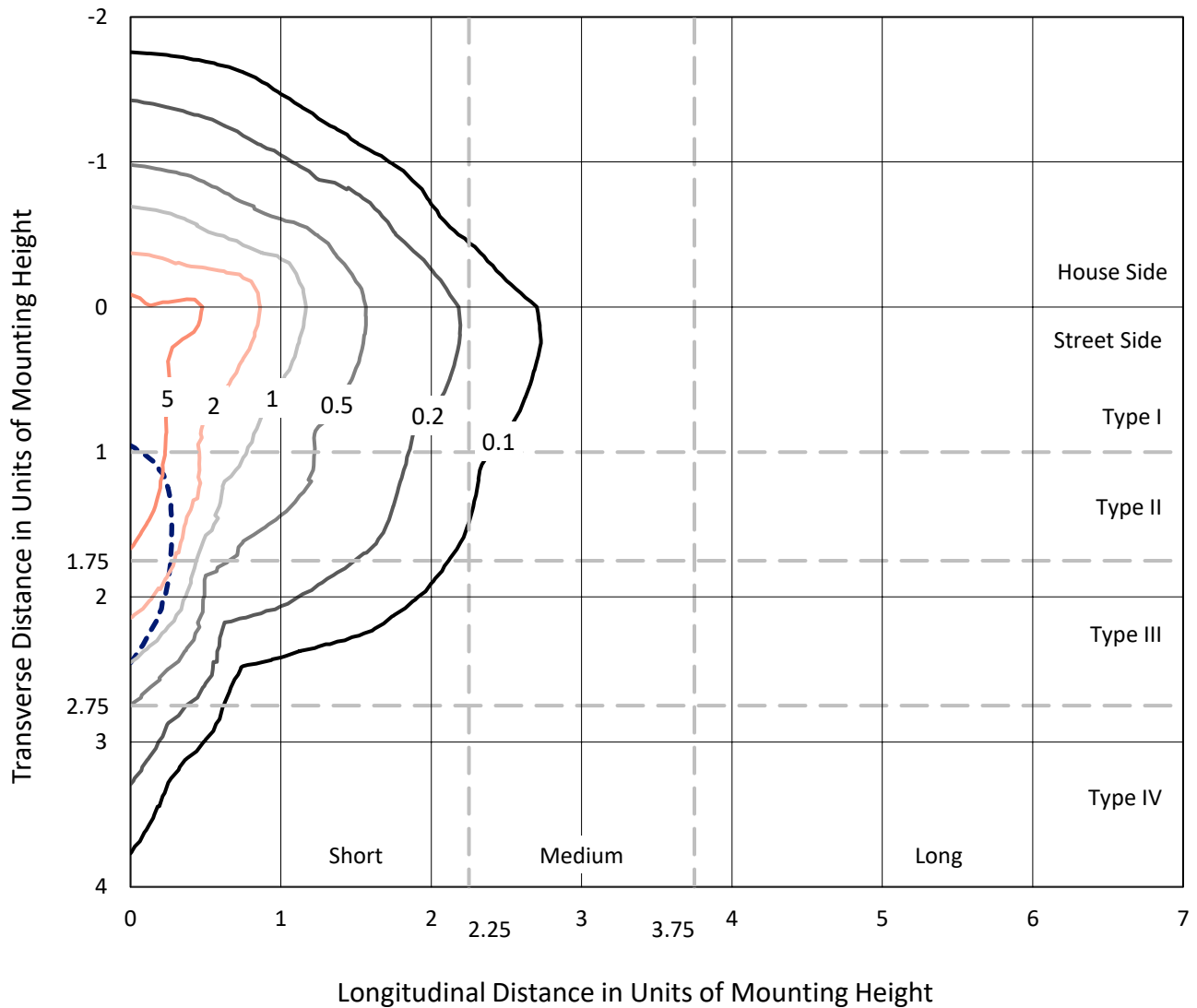
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955341
 CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

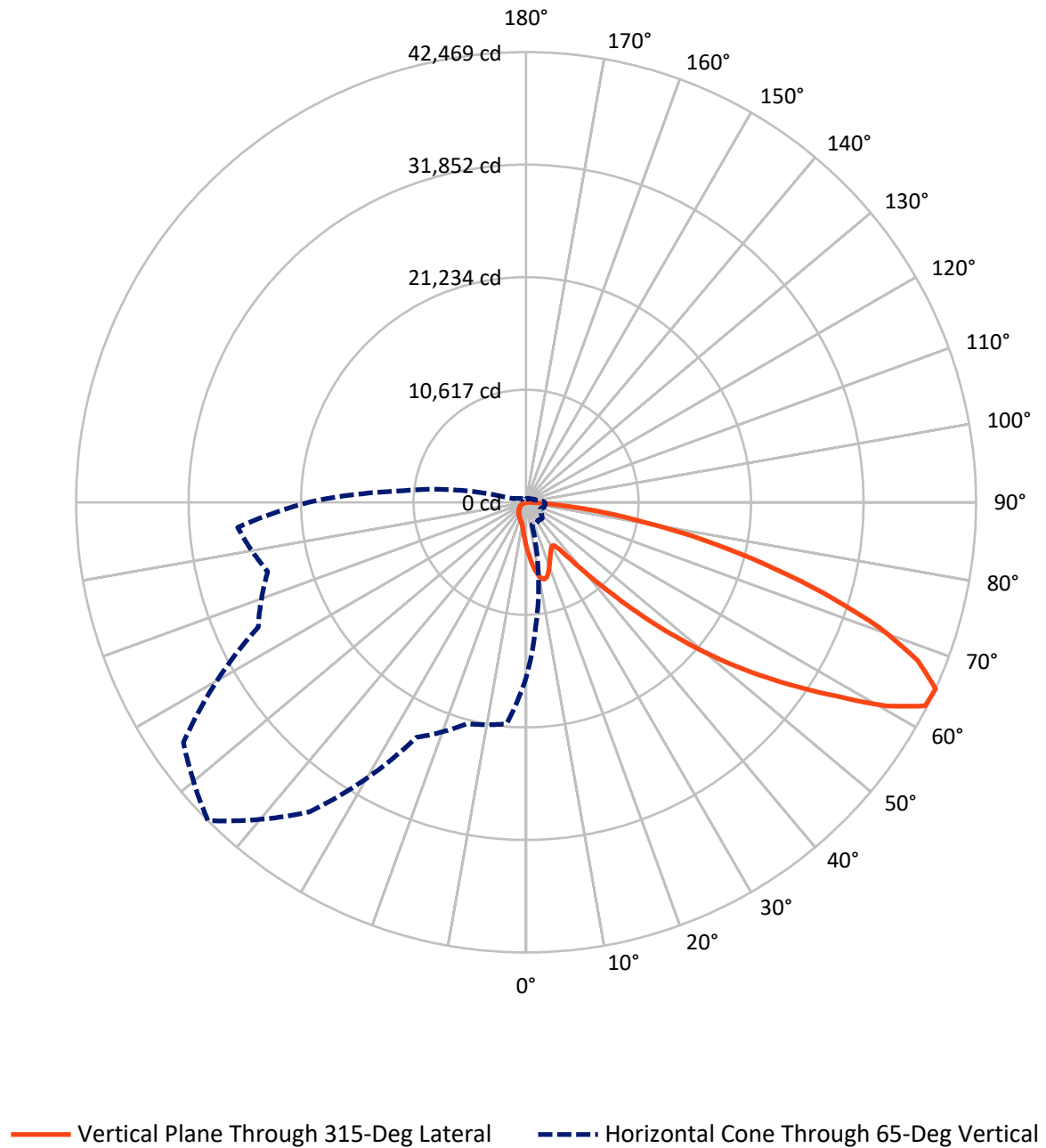
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P955341
CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P955341
 CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4231.8	0.0	4231.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25986.2	0.0	25986.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	30218.0	0.0	30218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.0	1.4
10°-20°	1234.9	4.1
20°-30°	1819.3	6.0
30°-40°	2337.3	7.7
40°-50°	3780.1	12.5
50°-60°	6628.7	21.9
60°-70°	8294.3	27.4
70°-80°	4846.8	16.0
80°-90°	864.7	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°	30218.0	100.0
0°-180°	30218.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955341

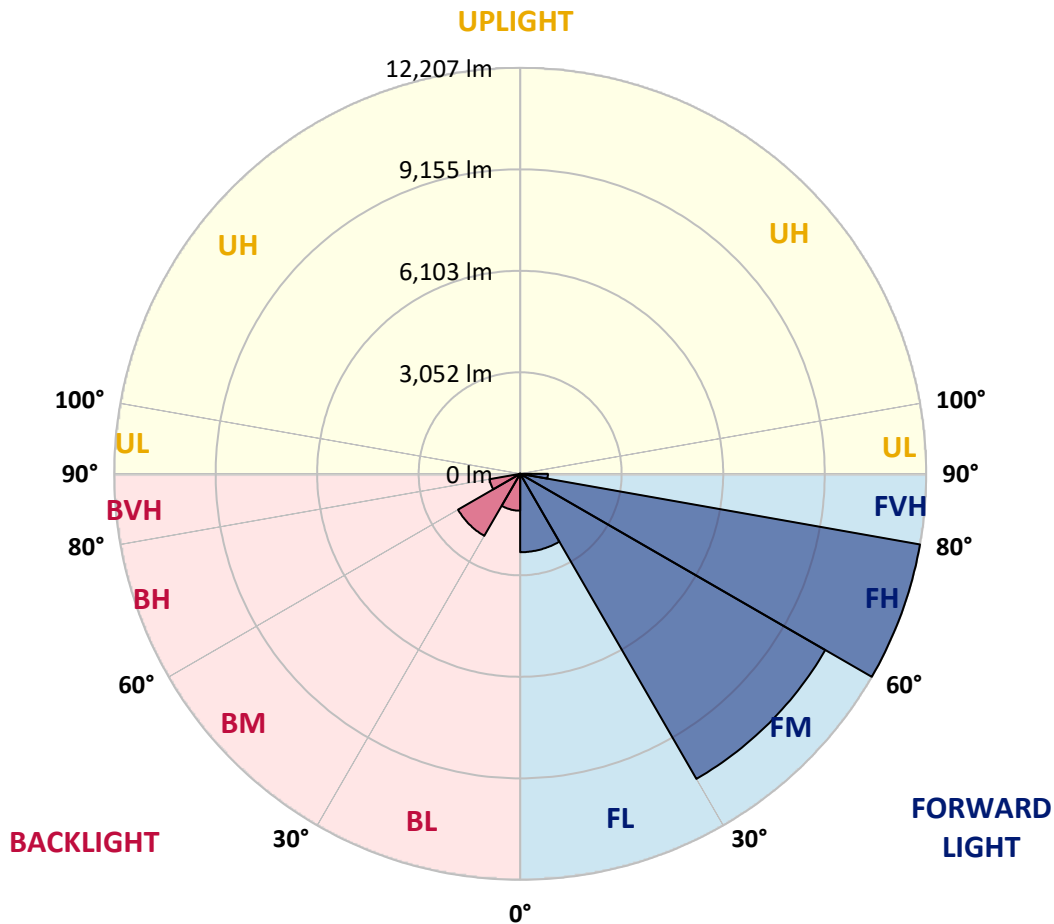
CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.9	7.8			
FM (30°-60°)	10591.1	35.0			
FH (60°-80°)	12206.7	40.4			G5
FVH (80°-90°)	831.5	2.8			G5
BL (0°-30°)	1109.2	3.7	B3/2500		
BM (30°-60°)	2154.9	7.1	B2/2500		
BH (60°-80°)	934.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	33.2	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: P955341
 CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
2.5°	4727.6	4646.4	4598.5	4479.8	4361.2	4265.4	4136.3	4051.0	3949.0	3851.2
5°	5268.8	5137.6	4979.4	4762.9	4565.2	4363.3	4167.6	3974.0	3770.0	3582.6
7.5°	5726.8	5537.3	5258.4	4971.1	4719.2	4475.7	4246.7	3990.6	3742.9	3449.4
10°	6076.5	5835.0	5468.6	5091.8	4802.5	4556.9	4334.1	4117.6	3867.8	3513.9
12.5°	6288.8	6030.7	5595.6	5154.3	4823.3	4548.5	4375.7	4280.0	4182.1	3830.3
15°	6445.0	6166.0	5685.1	5198.0	4775.4	4438.2	4311.2	4407.0	4519.4	4294.6
17.5°	6607.3	6313.8	5801.7	5216.8	4646.4	4223.8	4169.7	4417.4	4677.6	4667.2
20°	6761.4	6469.9	5903.7	5204.3	4438.2	3963.6	4011.4	4327.9	4629.7	4756.7
22.5°	6938.3	6630.2	6001.6	5156.4	4167.6	3720.0	3869.9	4186.3	4450.7	4600.6
25°	7154.8	6832.2	6138.9	5085.6	3876.1	3518.1	3726.3	4021.9	4236.3	4340.4
27.5°	7388.0	7073.6	6322.1	5048.1	3640.9	3374.4	3563.9	3826.2	4017.7	4090.5
30°	7677.3	7354.7	6538.6	5006.5	3486.9	3291.2	3395.3	3599.3	3786.6	3859.5
32.5°	7993.7	7666.9	6746.8	4906.6	3393.2	3228.7	3230.8	3359.9	3530.6	3618.0
35°	8389.3	8041.6	6969.5	4688.0	3318.2	3155.9	3070.5	3133.0	3274.5	3378.6
37.5°	8953.4	8532.9	7242.3	4375.7	3207.9	3043.5	2901.9	2916.5	3024.7	3139.2
40°	9732.0	9192.8	7562.8	4051.0	3049.7	2885.2	2716.6	2710.4	2789.5	2901.9
42.5°	10785.3	10065.0	7947.9	3740.8	2897.7	2693.7	2520.9	2510.5	2573.0	2670.8
45°	12175.9	11180.8	8420.5	3474.4	2779.1	2506.4	2335.7	2331.5	2383.6	2468.9
47.5°	13955.7	12731.7	8893.0	3293.3	2716.6	2358.6	2183.7	2192.0	2237.8	2314.9
50°	16260.2	14753.0	9036.7	3201.7	2716.6	2279.5	2048.4	2090.0	2127.5	2185.8
52.5°	19022.6	16693.2	8562.1	3118.4	2733.3	2289.9	1933.9	2023.4	2050.5	2100.4
55°	21583.1	17644.5	7360.9	3003.9	2737.4	2354.4	1836.1	1969.3	2019.3	2038.0
57.5°	23069.4	17317.7	5951.6	2810.3	2720.8	2398.1	1773.6	1902.7	1998.4	2010.9
60°	22786.3	16170.7	4382.0	2662.5	2598.0	2381.5	1754.9	1800.7	1952.6	1971.4
62.5°	20604.7	14247.2	3041.4	2548.0	2327.3	2308.6	1748.6	1640.4	1852.7	1898.5
65°	16562.0	11216.2	2148.3	2194.1	2040.1	2150.4	1715.3	1473.8	1732.0	1794.4
67.5°	12015.6	7589.9	1550.9	1777.8	1848.6	1894.4	1640.4	1353.1	1594.6	1677.9
70°	7710.6	4098.9	1088.7	1174.1	1557.1	1609.2	1511.3	1244.9	1455.1	1550.9
72.5°	5481.1	2421.0	782.7	822.3	1251.1	1340.6	1330.2	1124.1	1292.7	1409.3
75°	3782.5	1334.4	528.8	587.0	907.6	1088.7	1026.3	965.9	1095.0	1213.6
77.5°	2371.1	597.4	316.4	408.0	595.4	855.6	703.6	747.3	853.5	963.8
80°	1319.8	231.1	176.9	270.6	324.7	622.4	389.3	480.9	628.7	707.8
82.5°	287.3	29.1	79.1	116.6	127.0	362.2	206.1	278.9	395.5	389.3
85°	0.0	0.0	14.6	16.7	8.3	156.1	74.9	91.6	129.1	120.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955341
 CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4184.2	0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
3763.7	2.5°	3747.1	3645.1	3570.1	3532.7	3501.4	3530.6	3547.2	3547.2	3618.0	3659.6
3468.1	5°	3395.3	3212.1	3072.6	2978.9	2922.7	2941.4	2962.3	2985.2	3074.7	3135.0
3293.3	7.5°	3151.7	2870.7	2658.3	2527.2	2458.5	2468.9	2483.5	2502.2	2589.6	2650.0
3318.2	10°	3105.9	2702.1	2402.3	2229.5	2146.2	2131.7	2123.3	2117.1	2169.1	2214.9
3601.3	12.5°	3293.3	2710.4	2292.0	2081.7	1979.7	1936.0	1886.0	1846.5	1854.8	1883.9
4030.2	15°	3628.4	2816.5	2256.6	2004.7	1877.7	1804.8	1746.6	1698.7	1688.3	1698.7
4404.9	17.5°	4011.4	2960.2	2252.4	1938.1	1779.9	1704.9	1657.0	1613.3	1598.7	1600.8
4615.1	20°	4265.4	3074.7	2239.9	1863.1	1686.2	1619.6	1577.9	1534.2	1519.6	1523.8
4556.9	22.5°	4290.4	3135.0	2221.2	1779.9	1592.5	1536.3	1494.7	1455.1	1453.0	1453.0
4338.3	25°	4155.1	3135.0	2181.6	1704.9	1503.0	1453.0	1415.6	1367.7	1376.0	1380.2
4090.5	27.5°	3944.8	3060.1	2106.7	1644.5	1426.0	1373.9	1336.5	1292.7	1303.1	1309.4
3859.5	30°	3736.7	2964.3	2017.2	1575.9	1353.1	1292.7	1265.7	1228.2	1232.4	1240.7
3630.5	32.5°	3543.1	2862.3	1911.0	1519.6	1280.2	1219.9	1199.1	1157.4	1163.7	1172.0
3405.7	35°	3351.5	2749.9	1786.1	1453.0	1213.6	1153.3	1136.6	1088.7	1092.9	1105.4
3180.8	37.5°	3145.5	2631.3	1684.1	1386.4	1149.1	1086.6	1070.0	1020.0	1024.2	1038.8
2947.7	40°	2929.0	2514.7	1584.2	1315.6	1080.4	1018.0	1003.4	949.3	953.4	970.1
2718.7	42.5°	2710.4	2387.7	1507.2	1224.0	1009.6	943.0	928.4	878.5	884.7	903.5
2518.9	45°	2508.5	2235.8	1457.2	1122.0	943.0	868.1	853.5	807.7	820.2	841.0
2350.2	47.5°	2335.7	2079.6	1436.4	1036.7	872.2	791.0	778.6	741.1	761.9	784.8
2206.6	50°	2187.9	1929.7	1409.3	949.3	805.6	724.4	711.9	687.0	714.0	736.9
2108.8	52.5°	2081.7	1759.0	1351.0	870.2	747.3	668.2	664.1	651.6	676.6	697.4
2035.9	55°	1990.1	1582.1	1257.3	801.5	695.3	620.3	624.5	618.3	639.1	655.7
1992.2	57.5°	1906.8	1428.0	1138.7	747.3	639.1	578.7	591.2	582.9	593.3	603.7
1946.4	60°	1806.9	1271.9	997.1	687.0	572.5	537.1	551.7	528.8	526.7	530.8
1863.1	62.5°	1659.1	1061.7	849.3	612.0	514.2	491.3	497.5	453.8	420.5	420.5
1740.3	65°	1453.0	853.5	711.9	528.8	447.6	428.8	424.7	362.2	316.4	312.3
1607.1	67.5°	1213.6	701.5	591.2	445.5	372.6	360.1	364.3	318.5	272.7	268.5
1473.8	70°	988.8	580.8	476.7	356.0	287.3	299.8	318.5	272.7	229.0	222.7
1317.7	72.5°	803.5	462.1	372.6	272.7	212.3	247.7	270.6	222.7	181.1	176.9
1124.1	75°	620.3	339.3	266.5	185.3	154.0	191.5	212.3	162.4	129.1	122.8
870.2	77.5°	414.3	210.3	149.9	116.6	91.6	131.1	141.6	85.3	74.9	72.9
632.8	80°	251.9	97.8	64.5	56.2	31.2	47.9	56.2	35.4	39.6	41.6
337.2	82.5°	127.0	27.1	10.4	2.1	0.0	0.0	16.7	8.3	16.7	20.8
91.6	85°	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.4
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: P955341
 CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4184.2	0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
3676.3	2.5°	3792.9	3880.3	3963.6	4096.8	4234.2	4369.5	4506.9	4640.1	4688.0	4723.4
3174.6	5°	3355.7	3520.2	3711.7	3976.1	4259.2	4550.6	4846.2	5116.8	5239.7	5322.9
2702.1	7.5°	2904.0	3118.4	3393.2	3790.8	4234.2	4698.4	5162.6	5589.4	5787.1	5947.4
2256.6	10°	2456.4	2689.6	3037.2	3491.0	4090.5	4756.7	5397.9	5984.9	6241.0	6442.9
1936.0	12.5°	2063.0	2281.5	2645.8	3147.5	3865.7	4710.9	5533.2	6238.9	6540.7	6767.6
1707.0	15°	1786.1	1940.1	2262.8	2804.1	3599.3	4563.1	5541.5	6359.6	6690.6	6927.9
1611.2	17.5°	1632.1	1684.1	1894.4	2454.3	3303.7	4369.5	5464.5	6401.2	6755.1	6975.8
1525.9	20°	1548.8	1557.1	1615.4	2000.5	2924.8	4188.4	5391.6	6442.9	6815.5	7000.8
1465.5	22.5°	1482.2	1482.2	1496.7	1636.2	2435.6	3971.9	5368.7	6515.7	6898.8	7013.3
1396.8	25°	1421.8	1421.8	1426.0	1463.4	1929.7	3640.9	5354.1	6628.1	7013.3	7044.5
1328.1	27.5°	1359.4	1361.4	1361.4	1382.3	1555.0	3191.3	5291.7	6773.9	7150.7	7086.1
1261.5	30°	1296.9	1301.1	1301.1	1315.6	1376.0	2664.6	5168.9	6948.7	7329.7	7140.2
1194.9	32.5°	1234.5	1238.6	1238.6	1251.1	1294.8	2127.5	5014.8	7109.0	7510.8	7163.1
1130.4	35°	1169.9	1176.2	1172.0	1188.7	1234.5	1692.4	4819.1	7269.3	7706.5	7236.0
1067.9	37.5°	1105.4	1109.5	1107.5	1124.1	1176.2	1461.4	4592.2	7390.1	7972.9	7398.4
1001.3	40°	1040.9	1038.8	1038.8	1057.5	1113.7	1394.7	4307.0	7581.6	8356.0	7683.6
934.7	42.5°	974.2	974.2	970.1	990.9	1059.6	1344.8	4034.3	7925.0	8913.9	8137.4
872.2	45°	913.9	911.8	903.5	922.2	1007.5	1257.3	3938.6	8566.2	9738.2	8872.2
809.8	47.5°	855.6	853.5	832.7	849.3	945.1	1178.2	4296.6	9615.4	10881.1	9952.6
759.8	50°	803.5	805.6	766.1	780.6	882.6	1117.9	5073.1	10976.8	12398.6	11407.7
718.2	52.5°	755.7	755.7	703.6	711.9	805.6	1063.8	5812.1	12452.8	14401.2	13437.4
674.5	55°	707.8	703.6	645.3	649.5	728.6	986.7	5922.4	13893.3	17132.4	16491.3
626.6	57.5°	653.7	645.3	591.2	591.2	657.8	930.5	5133.5	15000.8	20521.4	20979.4
537.1	60°	587.0	580.8	545.4	535.0	601.6	980.5	3622.2	15129.8	22707.2	26947.7
426.7	62.5°	501.7	510.0	491.3	476.7	547.5	1018.0	2146.2	14091.1	22178.5	28846.2
331.0	65°	395.5	428.8	424.7	414.3	601.6	857.7	1267.8	12096.8	20556.8	27314.0
289.4	67.5°	337.2	360.1	353.9	353.9	630.8	651.6	797.3	9450.9	18325.2	25496.7
241.5	70°	287.3	310.2	287.3	287.3	476.7	395.5	551.7	6599.0	15916.7	23485.8
193.6	72.5°	237.3	260.2	235.2	218.6	381.0	295.6	403.9	4123.9	13631.0	21391.6
137.4	75°	181.1	208.2	189.4	168.6	251.9	220.7	306.0	2396.0	11293.2	18302.3
83.3	77.5°	114.5	149.9	141.6	118.7	185.3	160.3	220.7	1426.0	8714.0	14301.3
50.0	80°	70.8	77.0	79.1	74.9	106.2	108.2	149.9	811.9	5964.1	9967.2
31.2	82.5°	45.8	45.8	35.4	39.6	52.0	62.5	85.3	306.0	3505.6	6068.2
18.7	85°	33.3	29.1	18.7	18.7	25.0	31.2	33.3	93.7	1421.8	2396.0
8.3	87.5°	16.7	14.6	6.2	8.3	12.5	10.4	8.3	4.2	358.1	766.1
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: P955341
 CATALOG NUMBER: GALN-SB8B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4184.2	0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
4802.5	2.5°	4844.1	4908.7	4912.8	4912.8	4856.6	4854.5	4740.0	4727.6
5510.3	5°	5703.9	5745.5	5755.9	5735.1	5622.7	5539.4	5316.7	5268.8
6232.6	7.5°	6490.8	6574.0	6574.0	6524.1	6340.9	6170.2	5847.5	5726.8
6830.1	10°	7119.4	7215.2	7194.4	7092.4	6861.3	6626.1	6234.7	6076.5
7192.3	12.5°	7425.4	7523.3	7469.2	7352.6	7127.8	6880.0	6467.9	6288.8
7296.4	15°	7419.2	7392.1	7335.9	7321.4	7213.1	7025.8	6640.6	6445.0
7231.8	17.5°	7154.8	6925.8	6882.1	7027.8	7165.2	7119.4	6790.5	6607.3
7077.8	20°	6736.4	6336.7	6297.2	6576.1	6967.5	7167.3	6930.0	6761.4
6855.1	22.5°	6295.1	5864.2	5772.6	6080.7	6669.8	7181.9	7106.9	6938.3
6609.4	25°	5876.7	5443.7	5352.1	5639.3	6338.8	7156.9	7298.5	7154.8
6374.2	27.5°	5526.9	5108.5	5023.2	5310.4	6020.3	7086.1	7490.0	7388.0
6141.0	30°	5256.3	4869.1	4806.7	5083.5	5745.5	6998.7	7733.5	7677.3
5924.5	32.5°	5098.1	4815.0	4837.9	5064.8	5597.7	6902.9	7966.7	7993.7
5818.4	35°	5254.2	5266.7	5466.6	5560.2	5735.1	6888.4	8283.1	8389.3
5945.3	37.5°	6030.7	6463.7	6878.0	6800.9	6407.5	7057.0	8755.6	8953.4
6499.1	40°	7352.6	8241.5	8913.9	8620.3	7629.4	7573.2	9436.4	9732.0
7481.6	42.5°	8968.0	10475.1	11582.6	10795.7	9205.3	8476.7	10408.5	10785.3
8670.3	45°	10672.9	13229.2	14973.7	13337.5	10885.2	9742.4	11880.3	12175.9
9784.0	47.5°	12469.4	16576.6	18833.2	16156.1	12442.3	11182.9	13887.1	13955.7
10839.4	50°	14434.5	20246.7	22767.6	18972.7	13945.3	12833.7	16339.3	16260.2
12069.7	52.5°	16306.0	24020.8	26618.8	21801.7	15265.1	14882.1	19185.0	19022.6
13751.7	55°	18092.1	27792.8	30492.8	24520.4	16510.0	17588.3	22565.7	21583.1
16176.9	57.5°	20163.4	31183.9	34485.5	27251.6	18250.3	21102.2	26346.1	23069.4
20821.2	60°	23225.6	35037.2	39000.7	30994.5	21560.2	24795.2	27701.2	22786.3
26383.5	62.5°	27135.0	38580.2	42283.6	34662.5	24884.7	25490.5	25704.9	20604.7
25249.0	65°	27894.8	39477.4	42468.9	35642.9	24455.9	21622.7	20985.7	16562.0
22553.2	67.5°	25879.8	37855.8	39879.2	33817.3	21633.1	16709.8	15748.1	12015.6
20783.7	70°	23619.0	34764.5	35366.1	30713.5	19026.8	12290.4	10635.4	7710.6
19572.2	72.5°	21302.1	30640.6	29395.7	26672.9	16722.3	8949.2	7671.1	5481.1
17846.5	75°	18550.1	25217.8	23154.8	22161.8	13845.4	7023.7	5549.8	3782.5
15350.5	77.5°	14855.0	17750.7	17199.0	17178.2	10404.4	5131.4	3703.4	2371.1
11992.7	80°	10479.3	11520.2	11239.1	12937.8	6980.0	3722.1	2229.5	1319.8
8347.6	82.5°	5073.1	6370.0	6538.6	7704.4	3395.3	2190.0	514.2	287.3
3264.1	85°	1985.9	3072.6	2591.7	2924.8	953.4	609.9	12.5	0.0
537.1	87.5°	222.7	356.0	326.8	258.1	116.6	25.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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