

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: P952842

Luminaire Tested: **GALN-SB6C-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952842
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-SB6C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 30139 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

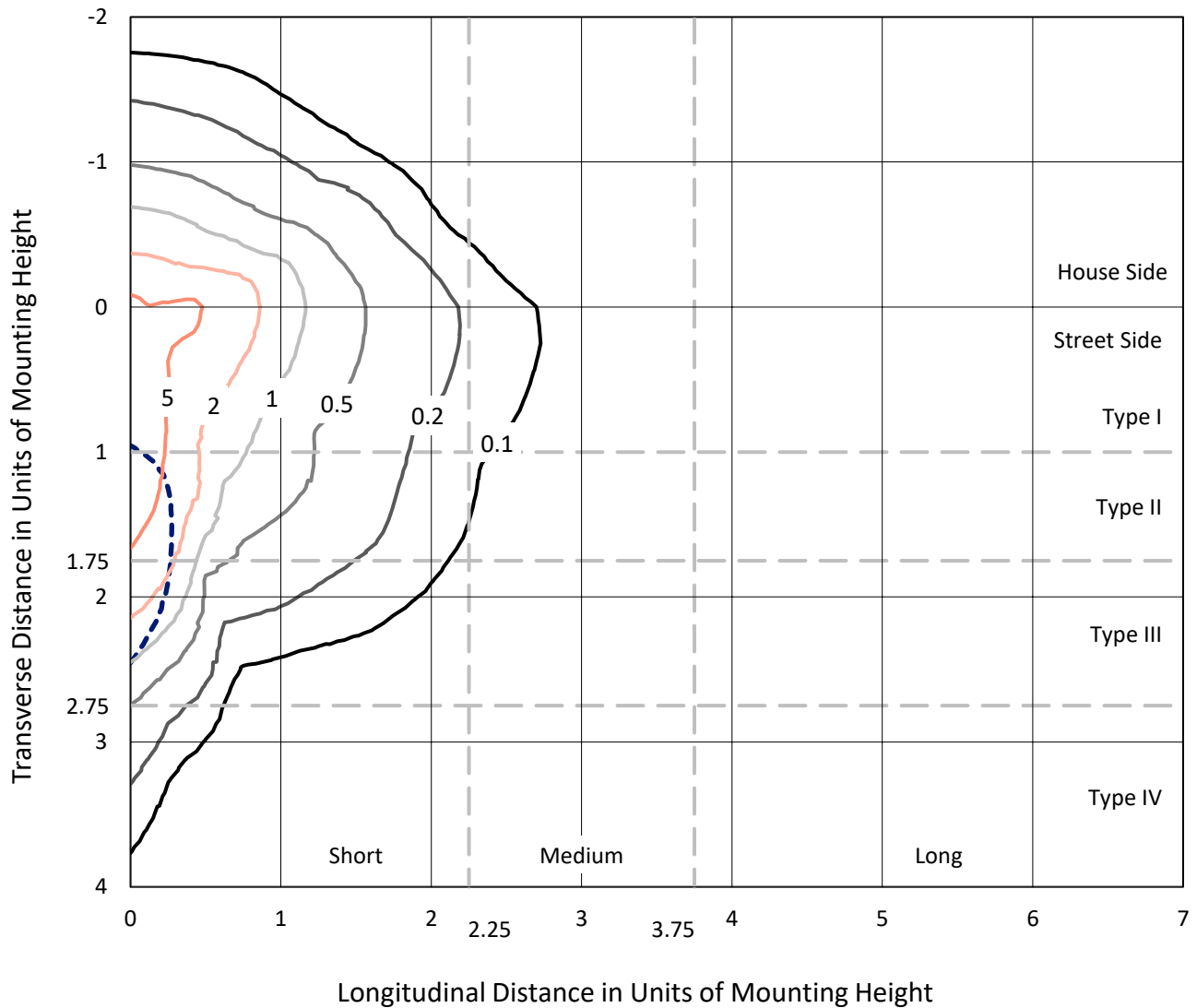
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

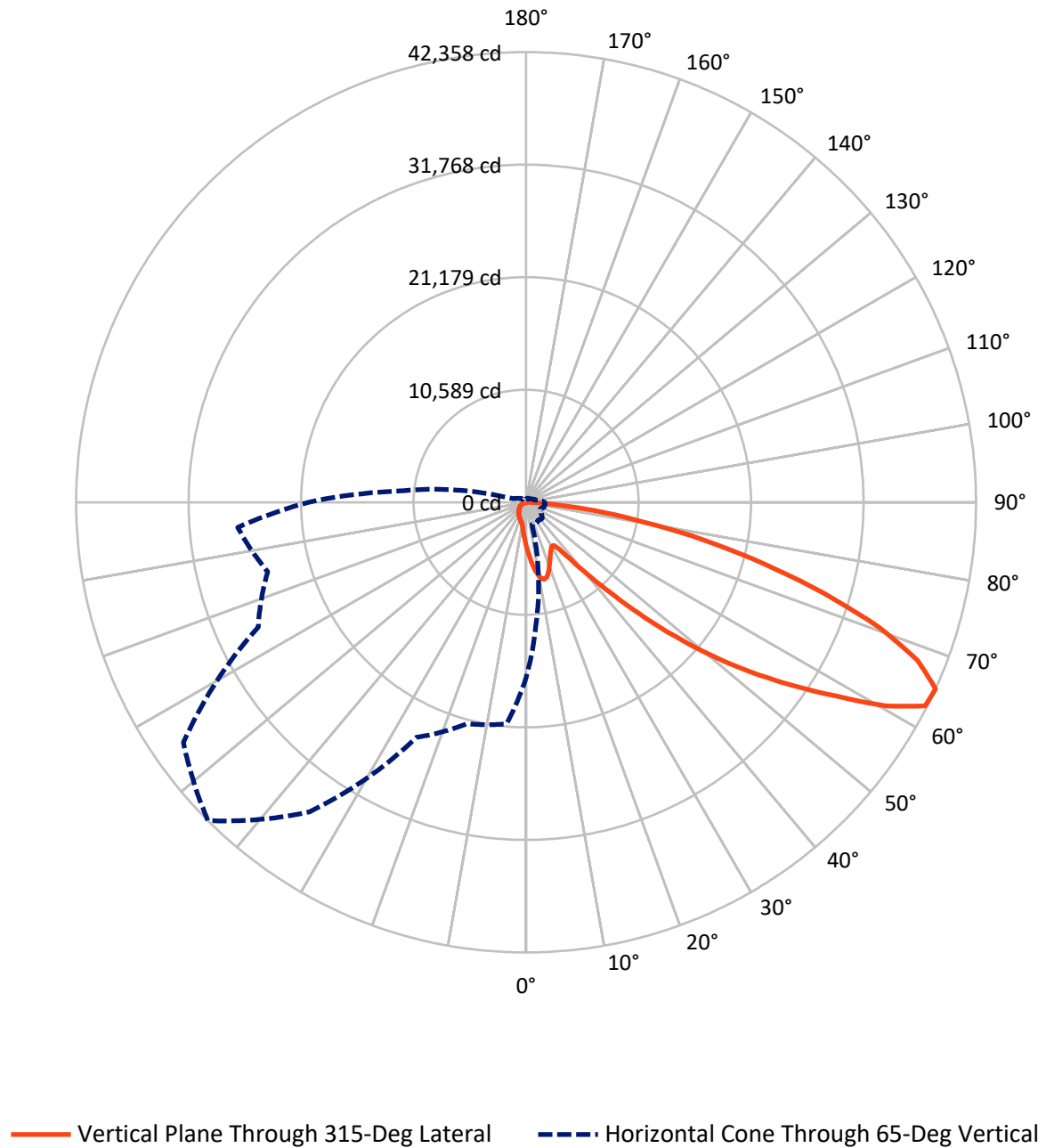
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4220.7	0.0	4220.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25918.3	0.0	25918.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	30139.0	0.0	30139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	1.4
10°-20°	1231.7	4.1
20°-30°	1814.5	6.0
30°-40°	2331.2	7.7
40°-50°	3770.2	12.5
50°-60°	6611.4	21.9
60°-70°	8272.6	27.4
70°-80°	4834.1	16.0
80°-90°	862.5	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°	30139.0	100.0
0°-180°	30139.0	100.0

Coefficient of Utilization



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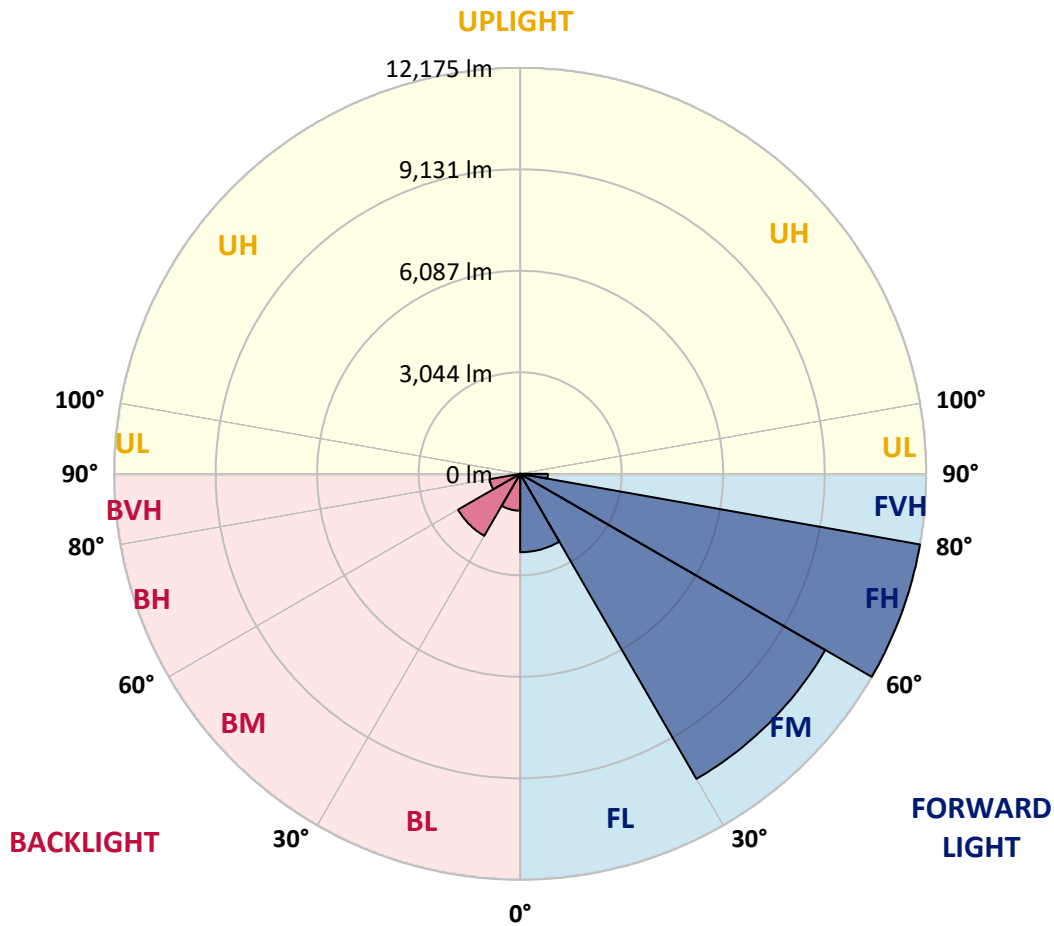
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2350.7	7.8			
FM (30°-60°)	10563.4	35.0			
FH (60°-80°)	12174.8	40.4			G5
FVH (80°-90°)	829.4	2.8			G5
BL (0°-30°)	1106.3	3.7	B3/2500		
BM (30°-60°)	2149.3	7.1	B2/2500		
BH (60°-80°)	932.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	33.1	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°	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3
2.5°	4715.2	4634.2	4586.5	4468.1	4349.8	4254.3	4125.5	4040.4	3938.7	3841.1
5°	5255.0	5124.2	4966.4	4750.5	4553.2	4351.8	4156.7	3963.6	3760.1	3573.2
7.5°	5711.8	5522.9	5244.6	4958.1	4706.9	4464.0	4235.6	3980.2	3733.1	3440.4
10°	6060.6	5819.8	5454.3	5078.5	4789.9	4544.9	4322.8	4106.8	3857.7	3504.7
12.5°	6272.4	6014.9	5581.0	5140.8	4810.7	4536.6	4364.3	4268.8	4171.2	3820.3
15°	6428.1	6149.9	5670.3	5184.4	4762.9	4426.6	4299.9	4395.4	4507.6	4283.3
17.5°	6590.1	6297.3	5786.5	5203.1	4634.2	4212.7	4158.8	4405.8	4665.4	4655.0
20°	6743.7	6453.0	5888.3	5190.7	4426.6	3953.2	4001.0	4316.5	4617.6	4744.3
22.5°	6920.2	6612.9	5985.9	5142.9	4156.7	3710.3	3859.8	4175.4	4439.0	4588.5
25°	7136.1	6814.3	6122.9	5072.3	3866.0	3508.9	3716.5	4011.3	4225.2	4329.0
27.5°	7368.7	7055.1	6305.6	5034.9	3631.4	3365.6	3554.6	3816.2	4007.2	4079.9
30°	7657.3	7335.4	6521.5	4993.4	3477.7	3282.6	3386.4	3589.9	3776.7	3849.4
32.5°	7972.8	7646.9	6729.2	4893.8	3384.3	3220.3	3222.4	3351.1	3521.3	3608.5
35°	8367.3	8020.6	6951.3	4675.7	3309.6	3147.6	3062.5	3124.8	3266.0	3369.8
37.5°	8930.0	8510.6	7223.3	4364.3	3199.5	3035.5	2894.3	2908.8	3016.8	3131.0
40°	9706.5	9168.8	7543.1	4040.4	3041.7	2877.7	2709.5	2703.3	2782.2	2894.3
42.5°	10757.1	10038.7	7927.2	3731.0	2890.2	2686.7	2514.4	2504.0	2566.3	2663.8
45°	12144.1	11151.6	8398.5	3465.3	2771.8	2499.8	2329.6	2325.4	2377.3	2462.4
47.5°	13919.3	12698.4	8869.8	3284.6	2709.5	2352.4	2178.0	2186.3	2232.0	2308.8
50°	16217.7	14714.5	9013.1	3193.3	2709.5	2273.5	2043.0	2084.6	2121.9	2180.1
52.5°	18972.9	16649.5	8539.7	3110.2	2726.1	2283.9	1928.8	2018.1	2045.1	2094.9
55°	21526.7	17598.4	7341.7	2996.0	2730.3	2348.3	1831.3	1964.1	2014.0	2032.7
57.5°	23009.1	17272.4	5936.0	2803.0	2713.7	2391.9	1769.0	1897.7	1993.2	2005.7
60°	22726.8	16128.4	4370.5	2655.5	2591.2	2375.2	1750.3	1796.0	1947.5	1966.2
62.5°	20550.8	14209.9	3033.4	2541.3	2321.3	2302.6	1744.1	1636.1	1847.9	1893.6
65°	16518.7	11186.9	2142.7	2188.4	2034.7	2144.8	1710.8	1470.0	1727.5	1789.7
67.5°	11984.2	7570.1	1546.8	1773.1	1843.7	1889.4	1636.1	1349.6	1590.4	1673.5
70°	7690.5	4088.2	1085.9	1171.0	1553.0	1605.0	1507.4	1241.6	1451.3	1546.8
72.5°	5466.8	2414.7	780.7	820.1	1247.8	1337.1	1326.7	1121.2	1289.4	1405.6
75°	3772.6	1330.9	527.4	585.5	905.3	1085.9	1023.6	963.4	1092.1	1210.5
77.5°	2364.9	595.9	315.6	406.9	593.8	853.3	701.8	745.4	851.3	961.3
80°	1316.4	230.5	176.5	269.9	323.9	620.8	388.3	479.6	627.0	705.9
82.5°	286.5	29.1	78.9	116.3	126.7	361.3	205.5	278.2	394.5	388.3
85°	0.0	0.0	14.5	16.6	8.3	155.7	74.7	91.4	128.7	120.4
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

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4173.3	0°	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3
3753.9	2.5°	3737.3	3635.5	3560.8	3523.4	3492.3	3521.3	3538.0	3538.0	3608.5	3650.1
3459.1	5°	3386.4	3203.7	3064.6	2971.1	2915.1	2933.8	2954.5	2977.4	3066.6	3126.9
3284.6	7.5°	3143.5	2863.2	2651.4	2520.6	2452.1	2462.4	2477.0	2495.7	2582.9	2643.1
3309.6	10°	3097.8	2695.0	2396.0	2223.7	2140.6	2126.1	2117.8	2111.6	2163.5	2209.1
3591.9	12.5°	3284.6	2703.3	2286.0	2076.3	1974.5	1930.9	1881.1	1841.6	1849.9	1879.0
4019.6	15°	3618.9	2809.2	2250.7	1999.4	1872.8	1800.1	1742.0	1694.2	1683.8	1694.2
4393.4	17.5°	4001.0	2952.4	2246.5	1933.0	1775.2	1700.5	1652.7	1609.1	1594.6	1596.6
4603.1	20°	4254.3	3066.6	2234.1	1858.3	1681.8	1615.3	1573.8	1530.2	1515.7	1519.8
4544.9	22.5°	4279.2	3126.9	2215.4	1775.2	1588.3	1532.3	1490.8	1451.3	1449.2	1449.2
4326.9	25°	4144.2	3126.9	2175.9	1700.5	1499.1	1449.2	1411.9	1364.1	1372.4	1376.6
4079.9	27.5°	3934.5	3052.1	2101.2	1640.2	1422.2	1370.3	1333.0	1289.4	1299.7	1306.0
3849.4	30°	3726.9	2956.6	2011.9	1571.7	1349.6	1289.4	1262.4	1225.0	1229.1	1237.5
3621.0	32.5°	3533.8	2854.9	1906.0	1515.7	1276.9	1216.7	1195.9	1154.4	1160.6	1168.9
3396.8	35°	3342.8	2742.7	1781.4	1449.2	1210.5	1150.2	1133.6	1085.9	1090.0	1102.5
3172.5	37.5°	3137.2	2624.4	1679.7	1382.8	1146.1	1083.8	1067.2	1017.4	1021.5	1036.1
2940.0	40°	2921.3	2508.1	1580.0	1312.2	1077.6	1015.3	1000.8	946.8	950.9	967.5
2711.6	42.5°	2703.3	2381.5	1503.2	1220.8	1007.0	940.5	926.0	876.2	882.4	901.1
2512.3	45°	2501.9	2229.9	1453.4	1119.1	940.5	865.8	851.3	805.6	818.0	838.8
2344.1	47.5°	2329.6	2074.2	1432.6	1034.0	870.0	789.0	776.5	739.1	759.9	782.8
2200.8	50°	2182.2	1924.7	1405.6	946.8	803.5	722.5	710.1	685.2	712.2	735.0
2103.3	52.5°	2076.3	1754.4	1347.5	867.9	745.4	666.5	662.3	649.9	674.8	695.5
2030.6	55°	1984.9	1578.0	1254.1	799.4	693.5	618.7	622.9	616.6	637.4	654.0
1987.0	57.5°	1901.9	1424.3	1135.7	745.4	637.4	577.2	589.7	581.4	591.7	602.1
1941.3	60°	1802.2	1268.6	994.5	685.2	571.0	535.7	550.2	527.4	525.3	529.4
1858.3	62.5°	1654.8	1058.9	847.1	610.4	512.8	490.0	496.2	452.6	419.4	419.4
1735.8	65°	1449.2	851.3	710.1	527.4	446.4	427.7	423.6	361.3	315.6	311.4
1602.9	67.5°	1210.5	699.7	589.7	444.3	371.7	359.2	363.3	317.7	272.0	267.8
1470.0	70°	986.2	579.3	475.5	355.0	286.5	299.0	317.7	272.0	228.4	222.2
1314.3	72.5°	801.4	460.9	371.7	272.0	211.8	247.1	269.9	222.2	180.6	176.5
1121.2	75°	618.7	338.4	265.8	184.8	153.6	191.0	211.8	161.9	128.7	122.5
867.9	77.5°	413.2	209.7	149.5	116.3	91.4	130.8	141.2	85.1	74.7	72.7
631.2	80°	251.2	97.6	64.4	56.1	31.1	47.8	56.1	35.3	39.4	41.5
336.4	82.5°	126.7	27.0	10.4	2.1	0.0	0.0	16.6	8.3	16.6	20.8
91.4	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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4173.3	0°	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3
3666.7	2.5°	3782.9	3870.2	3953.2	4086.1	4223.1	4358.1	4495.1	4628.0	4675.7	4711.0
3166.3	5°	3346.9	3511.0	3702.0	3965.7	4248.0	4538.7	4833.5	5103.5	5226.0	5309.0
2695.0	7.5°	2896.4	3110.2	3384.3	3780.9	4223.1	4686.1	5149.1	5574.8	5772.0	5931.9
2250.7	10°	2450.0	2682.5	3029.3	3481.9	4079.9	4744.3	5383.7	5969.3	6224.6	6426.0
1930.9	12.5°	2057.6	2275.6	2638.9	3139.3	3855.6	4698.6	5518.7	6222.6	6523.6	6749.9
1702.5	15°	1781.4	1935.1	2256.9	2796.7	3589.9	4551.2	5527.0	6343.0	6673.1	6909.8
1607.0	17.5°	1627.8	1679.7	1889.4	2447.9	3295.0	4358.1	5450.2	6384.5	6737.5	6957.6
1521.9	20°	1544.7	1553.0	1611.2	1995.3	2917.1	4177.4	5377.5	6426.0	6797.7	6982.5
1461.7	22.5°	1478.3	1478.3	1492.8	1631.9	2429.2	3961.5	5354.7	6498.7	6880.7	6994.9
1393.2	25°	1418.1	1418.1	1422.2	1459.6	1924.7	3631.4	5340.1	6610.8	6994.9	7026.1
1324.7	27.5°	1355.8	1357.9	1357.9	1378.6	1551.0	3182.9	5277.9	6756.2	7132.0	7067.6
1258.2	30°	1293.5	1297.7	1297.7	1312.2	1372.4	2657.6	5155.4	6930.6	7310.5	7121.6
1191.8	32.5°	1231.2	1235.4	1235.4	1247.8	1291.4	2121.9	5001.7	7090.4	7491.2	7144.4
1127.4	35°	1166.9	1173.1	1168.9	1185.5	1231.2	1688.0	4806.5	7250.3	7686.3	7217.1
1065.1	37.5°	1102.5	1106.6	1104.6	1121.2	1173.1	1457.5	4580.2	7370.7	7952.1	7379.0
998.7	40°	1038.1	1036.1	1036.1	1054.7	1110.8	1391.1	4295.8	7561.7	8334.1	7663.5
932.2	42.5°	971.7	971.7	967.5	988.3	1056.8	1341.3	4023.8	7904.3	8890.6	8116.1
870.0	45°	911.5	909.4	901.1	919.8	1004.9	1254.1	3928.3	8543.8	9712.8	8849.0
807.7	47.5°	853.3	851.3	830.5	847.1	942.6	1175.2	4285.4	9590.3	10852.6	9926.6
757.8	50°	801.4	803.5	764.1	778.6	880.3	1115.0	5059.9	10948.1	12366.2	11377.9
716.3	52.5°	753.7	753.7	701.8	710.1	803.5	1061.0	5796.9	12420.2	14363.6	13402.3
672.7	55°	705.9	701.8	643.6	647.8	726.7	984.1	5907.0	13857.0	17087.6	16448.1
625.0	57.5°	651.9	643.6	589.7	589.7	656.1	928.1	5120.1	14961.5	20467.8	20924.6
535.7	60°	585.5	579.3	544.0	533.6	600.0	977.9	3612.7	15090.3	22647.9	26877.2
425.6	62.5°	500.4	508.7	490.0	475.5	546.1	1015.3	2140.6	14054.2	22120.5	28770.8
330.1	65°	394.5	427.7	423.6	413.2	600.0	855.4	1264.4	12065.2	20503.1	27242.6
288.6	67.5°	336.4	359.2	353.0	353.0	629.1	649.9	795.2	9426.2	18277.3	25430.1
240.8	70°	286.5	309.4	286.5	286.5	475.5	394.5	550.2	6581.8	15875.1	23424.4
193.1	72.5°	236.7	259.5	234.6	218.0	380.0	294.8	402.8	4113.1	13595.4	21335.7
137.0	75°	180.6	207.6	188.9	168.2	251.2	220.1	305.2	2389.8	11263.7	18254.5
83.1	77.5°	114.2	149.5	141.2	118.3	184.8	159.9	220.1	1422.2	8691.2	14263.9
49.8	80°	70.6	76.8	78.9	74.7	105.9	108.0	149.5	809.7	5948.5	9941.1
31.1	82.5°	45.7	45.7	35.3	39.4	51.9	62.3	85.1	305.2	3496.4	6052.3
18.7	85°	33.2	29.1	18.7	18.7	24.9	31.1	33.2	93.4	1418.1	2389.8
8.3	87.5°	16.6	14.5	6.2	8.3	12.5	10.4	8.3	4.2	357.1	764.1
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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 CATALOG NUMBER: GALN-SB6C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4173.3	0°	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3	4173.3
4789.9	2.5°	4831.5	4895.8	4900.0	4900.0	4843.9	4841.8	4727.6	4715.2
5495.9	5°	5689.0	5730.5	5740.9	5720.1	5608.0	5524.9	5302.8	5255.0
6216.3	7.5°	6473.8	6556.8	6556.8	6507.0	6324.3	6154.0	5832.2	5711.8
6812.2	10°	7100.8	7196.3	7175.6	7073.8	6843.4	6608.7	6218.4	6060.6
7173.5	12.5°	7406.0	7503.6	7449.6	7333.4	7109.1	6862.0	6450.9	6272.4
7277.3	15°	7399.8	7372.8	7316.7	7302.2	7194.2	7007.4	6623.3	6428.1
7212.9	17.5°	7136.1	6907.7	6864.1	7009.5	7146.5	7100.8	6772.8	6590.1
7059.3	20°	6718.8	6320.1	6280.7	6558.9	6949.2	7148.6	6911.9	6743.7
6837.1	22.5°	6278.6	5848.8	5757.5	6064.8	6652.3	7163.1	7088.4	6920.2
6592.1	25°	5861.3	5429.4	5338.1	5624.6	6322.2	7138.2	7279.4	7136.1
6357.5	27.5°	5512.5	5095.1	5010.0	5296.5	6004.6	7067.6	7470.4	7368.7
6125.0	30°	5242.6	4856.4	4794.1	5070.2	5730.5	6980.4	7713.3	7657.3
5909.0	32.5°	5084.8	4802.4	4825.2	5051.5	5583.1	6884.9	7945.9	7972.8
5803.2	35°	5240.5	5252.9	5452.3	5545.7	5720.1	6870.4	8261.4	8367.3
5929.8	37.5°	6014.9	6446.8	6860.0	6783.1	6390.7	7038.5	8732.8	8930.0
6482.1	40°	7333.4	8219.9	8890.6	8597.8	7609.5	7553.4	9411.7	9706.5
7462.1	42.5°	8944.5	10447.8	11552.3	10767.5	9181.2	8454.5	10381.3	10757.1
8647.6	45°	10645.0	13194.6	14934.6	13302.6	10856.8	9716.9	11849.2	12144.1
9758.4	47.5°	12436.8	16533.3	18783.9	16113.9	12409.8	11153.7	13850.7	13919.3
10811.1	50°	14396.8	20193.7	22708.1	18923.1	13908.9	12800.2	16296.6	16217.7
12038.2	52.5°	16263.4	23958.0	26549.2	21744.7	15225.2	14843.2	19134.8	18972.9
13715.8	55°	18044.8	27720.2	30413.1	24456.3	16466.8	17542.3	22506.7	21526.7
16134.6	57.5°	20110.7	31102.4	34395.4	27180.3	18202.6	21047.1	26277.2	23009.1
20766.8	60°	23164.9	34945.6	38898.8	30913.5	21503.8	24730.4	27628.8	22726.8
26314.5	62.5°	27064.1	38479.4	42173.0	34571.8	24819.6	25423.8	25637.7	20550.8
25183.0	65°	27821.9	39374.2	42357.8	35549.8	24391.9	21566.1	20930.8	16518.7
22494.2	67.5°	25812.1	37756.8	39775.0	33728.9	21576.5	16666.2	15706.9	11984.2
20729.4	70°	23557.3	34673.6	35273.6	30633.2	18977.0	12258.3	10607.6	7690.5
19521.0	72.5°	21246.4	30560.5	29318.9	26603.1	16678.6	8925.9	7651.0	5466.8
17799.8	75°	18501.6	25151.8	23094.3	22103.9	13809.2	7005.3	5535.3	3772.6
15310.4	77.5°	14816.2	17704.3	17154.1	17133.3	10377.2	5118.0	3693.7	2364.9
11961.3	80°	10451.9	11490.0	11209.7	12904.0	6961.7	3712.4	2223.7	1316.4
8325.8	82.5°	5059.9	6353.4	6521.5	7684.2	3386.4	2184.2	512.8	286.5
3255.6	85°	1980.8	3064.6	2584.9	2917.1	950.9	608.3	12.5	0.0
535.7	87.5°	222.2	355.0	326.0	257.5	116.3	24.9	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)