

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: P956874

Luminaire Tested: **GALN-SB9B-927-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956874  
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-SB9B-927-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

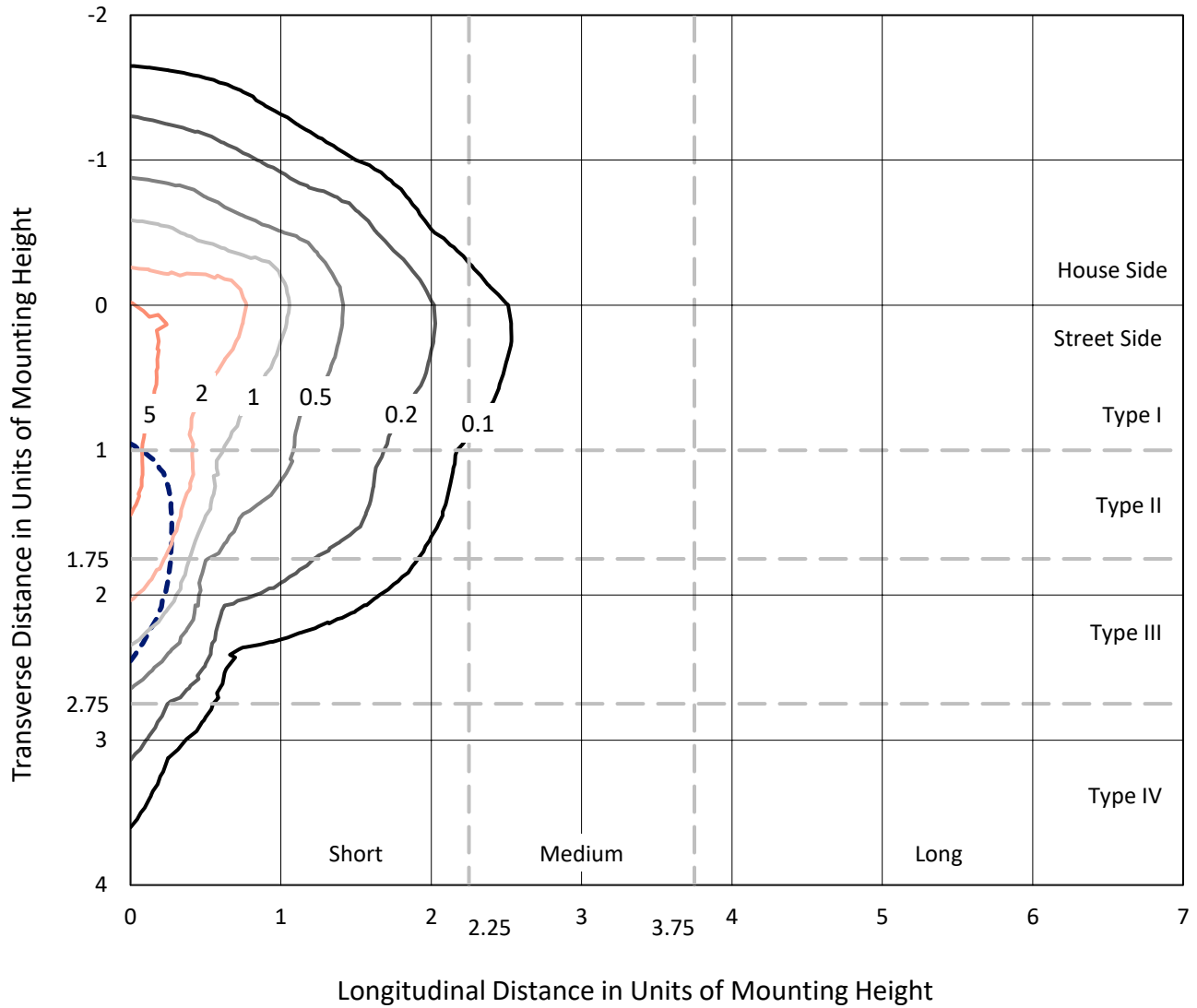
Lumens per Lamp: N/A  
Luminaire Lumens: 23827 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

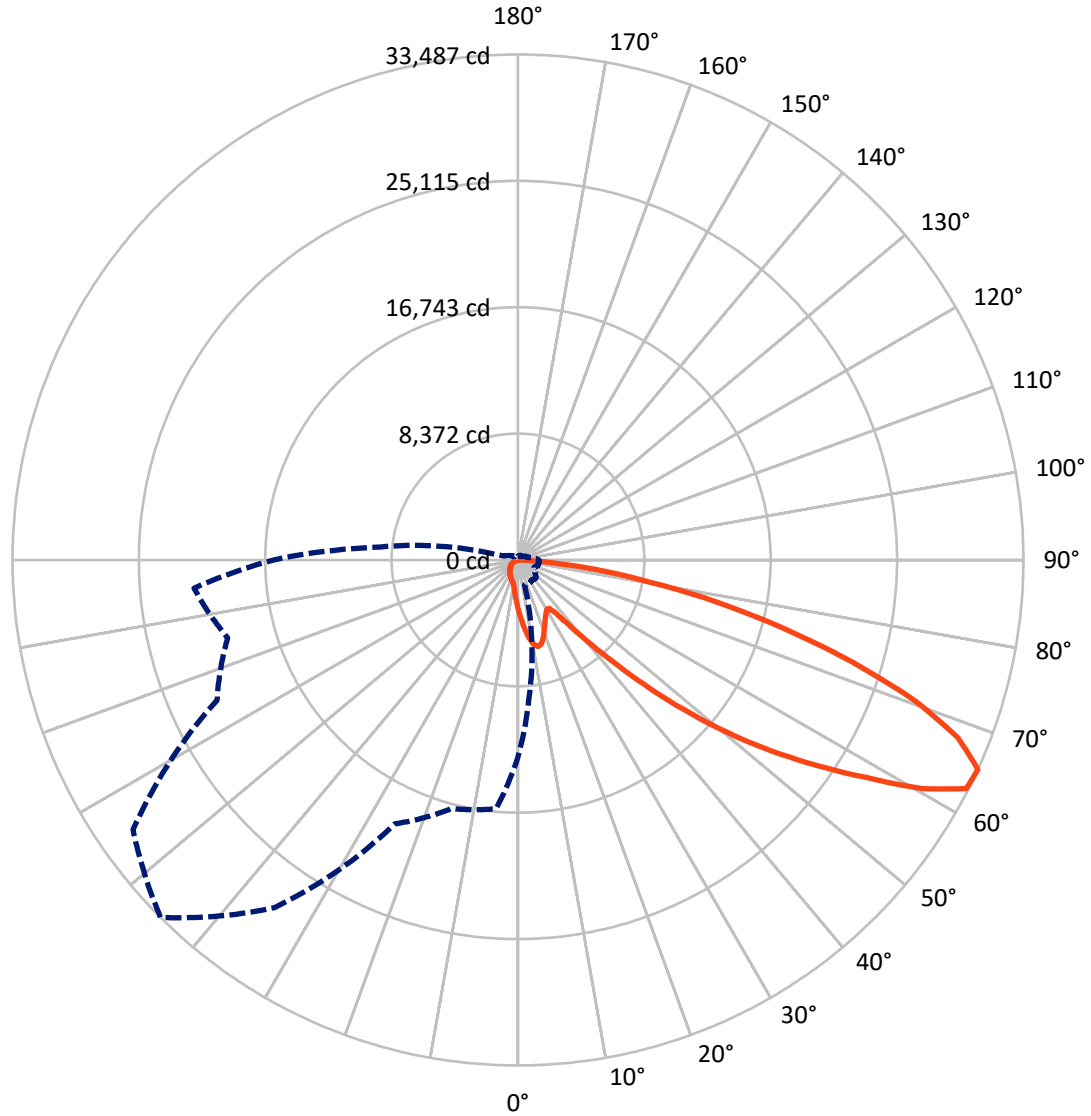
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3336.8	0.0	3336.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	20490.2	0.0	20490.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	23827.0	0.0	23827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.8	1.4
10°-20°	973.7	4.1
20°-30°	1434.5	6.0
30°-40°	1842.9	7.7
40°-50°	2980.6	12.5
50°-60°	5226.7	21.9
60°-70°	6540.1	27.4
70°-80°	3821.7	16.0
80°-90°	681.9	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°	23827.0	100.0
0°-180°	23827.0	100.0

**Coefficient of Utilization**



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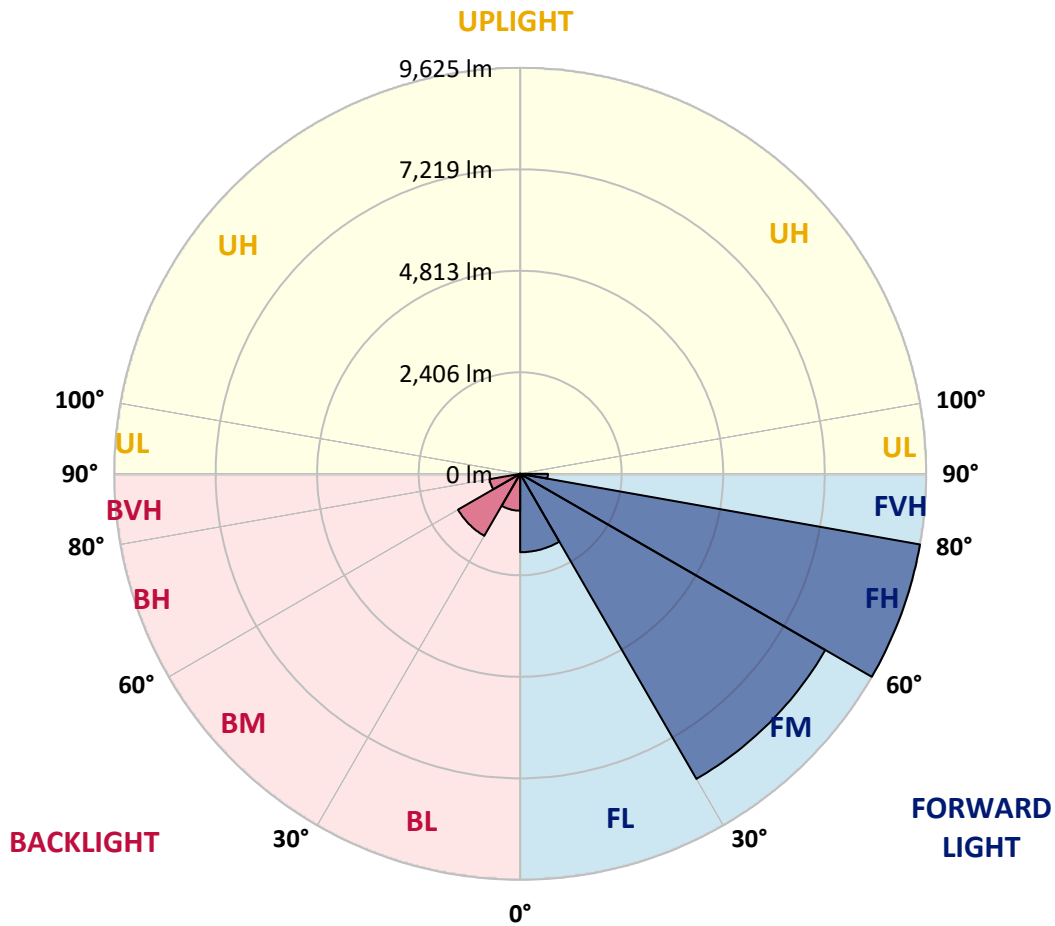
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.4	7.8			
FM (30°-60°)	8351.1	35.0			
FH (60°-80°)	9625.0	40.4			G4/12000
FVH (80°-90°)	655.7	2.8			G4/750
BL (0°-30°)	874.6	3.7	B2/1000		
BM (30°-60°)	1699.2	7.1	B2/2500		
BH (60°-80°)	736.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3
2.5°	3727.7	3663.7	3625.9	3532.4	3438.8	3363.3	3261.5	3194.2	3113.8	3036.6
5°	4154.5	4051.1	3926.3	3755.6	3599.7	3440.4	3286.1	3133.5	2972.6	2824.9
7.5°	4515.6	4366.2	4146.3	3919.7	3721.1	3529.1	3348.5	3146.6	2951.3	2719.9
10°	4791.3	4600.9	4312.0	4014.9	3786.8	3593.1	3417.5	3246.8	3049.8	2770.7
12.5°	4958.8	4755.2	4412.2	4064.2	3803.2	3586.5	3450.3	3374.8	3297.6	3020.2
15°	5081.9	4861.9	4482.7	4098.7	3765.4	3499.5	3399.4	3474.9	3563.5	3386.3
17.5°	5209.9	4978.5	4574.7	4113.4	3663.7	3330.5	3287.8	3483.1	3688.3	3680.1
20°	5331.4	5101.6	4655.1	4103.6	3499.5	3125.3	3163.0	3412.5	3650.5	3750.7
22.5°	5470.9	5228.0	4732.2	4065.8	3286.1	2933.2	3051.4	3300.9	3509.4	3627.6
25°	5641.6	5387.2	4840.6	4010.0	3056.3	2774.0	2938.2	3171.2	3340.3	3422.4
27.5°	5825.4	5577.6	4985.0	3980.5	2870.9	2660.8	2810.1	3017.0	3168.0	3225.4
30°	6053.6	5799.2	5155.7	3947.6	2749.4	2595.1	2677.2	2838.0	2985.8	3043.2
32.5°	6303.1	6045.4	5319.9	3868.9	2675.5	2545.9	2547.5	2649.3	2783.9	2852.8
35°	6615.0	6340.8	5495.5	3696.5	2616.4	2488.4	2421.1	2470.4	2582.0	2664.0
37.5°	7059.8	6728.2	5710.5	3450.3	2529.4	2399.8	2288.2	2299.6	2385.0	2475.3
40°	7673.7	7248.6	5963.3	3194.2	2404.7	2275.0	2142.1	2137.1	2199.5	2288.2
42.5°	8504.3	7936.3	6267.0	2949.7	2284.9	2124.0	1987.8	1979.6	2028.8	2106.0
45°	9600.7	8816.1	6639.6	2739.5	2191.3	1976.3	1841.7	1838.4	1879.4	1946.7
47.5°	11004.2	10039.0	7012.2	2596.7	2142.1	1859.7	1721.9	1728.4	1764.5	1825.3
50°	12821.2	11632.8	7125.5	2524.5	2142.1	1797.4	1615.2	1648.0	1677.5	1723.5
52.5°	14999.4	13162.6	6751.2	2458.9	2155.2	1805.6	1524.9	1595.5	1616.8	1656.2
55°	17018.4	13912.8	5804.1	2368.6	2158.5	1856.5	1447.7	1552.8	1592.2	1607.0
57.5°	18190.3	13655.1	4692.9	2215.9	2145.4	1890.9	1398.5	1500.3	1575.8	1585.6
60°	17967.1	12750.6	3455.2	2099.4	2048.5	1877.8	1383.7	1419.8	1539.7	1554.4
62.5°	16246.9	11234.0	2398.1	2009.1	1835.1	1820.3	1378.8	1293.4	1460.9	1497.0
65°	13059.2	8844.0	1694.0	1730.1	1608.6	1695.6	1352.5	1162.1	1365.7	1414.9
67.5°	9474.3	5984.7	1222.9	1401.8	1457.6	1493.7	1293.4	1066.9	1257.3	1323.0
70°	6079.9	3232.0	858.5	925.8	1227.8	1268.8	1191.7	981.6	1147.4	1222.9
72.5°	4321.9	1909.0	617.2	648.4	986.5	1057.1	1048.9	886.4	1019.3	1111.2
75°	2982.5	1052.2	416.9	462.9	715.7	858.5	809.2	761.6	863.4	957.0
77.5°	1869.6	471.1	249.5	321.7	469.4	674.6	554.8	589.3	673.0	760.0
80°	1040.7	182.2	139.5	213.4	256.1	490.8	306.9	379.2	495.7	558.1
82.5°	226.5	23.0	62.4	91.9	100.1	285.6	162.5	220.0	311.9	306.9
85°	0.0	0.0	11.5	13.1	6.6	123.1	59.1	72.2	101.8	95.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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°
3299.3	0°	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3
2967.7	2.5°	2954.6	2874.1	2815.1	2785.5	2760.9	2783.9	2797.0	2797.0	2852.8	2885.6
2734.6	5°	2677.2	2532.7	2422.8	2348.9	2304.6	2319.3	2335.8	2353.8	2424.4	2472.0
2596.7	7.5°	2485.1	2263.5	2096.1	1992.7	1938.5	1946.7	1958.2	1973.0	2041.9	2089.5
2616.4	10°	2449.0	2130.6	1894.2	1758.0	1692.3	1680.8	1674.3	1669.3	1710.4	1746.5
2839.7	12.5°	2596.7	2137.1	1807.2	1641.4	1561.0	1526.5	1487.1	1455.9	1462.5	1485.5
3177.8	15°	2861.0	2220.9	1779.3	1580.7	1480.6	1423.1	1377.2	1339.4	1331.2	1339.4
3473.3	17.5°	3163.0	2334.1	1776.0	1528.2	1403.4	1344.3	1306.6	1272.1	1260.6	1262.3
3639.1	20°	3363.3	2424.4	1766.2	1469.1	1329.6	1277.0	1244.2	1209.7	1198.2	1201.5
3593.1	22.5°	3383.0	2472.0	1751.4	1403.4	1255.7	1211.4	1178.5	1147.4	1145.7	1145.7
3420.7	25°	3276.3	2472.0	1720.2	1344.3	1185.1	1145.7	1116.2	1078.4	1085.0	1088.3
3225.4	27.5°	3110.5	2412.9	1661.1	1296.7	1124.4	1083.3	1053.8	1019.3	1027.5	1032.5
3043.2	30°	2946.4	2337.4	1590.5	1242.6	1066.9	1019.3	998.0	968.4	971.7	978.3
2862.7	32.5°	2793.7	2257.0	1506.8	1198.2	1009.5	961.9	945.5	912.6	917.6	924.1
2685.4	35°	2642.7	2168.3	1408.3	1145.7	957.0	909.4	896.2	858.5	861.8	871.6
2508.1	37.5°	2480.2	2074.8	1327.9	1093.2	906.1	856.8	843.7	804.3	807.6	819.1
2324.3	40°	2309.5	1982.8	1249.1	1037.4	851.9	802.7	791.2	748.5	751.8	764.9
2143.7	42.5°	2137.1	1882.7	1188.4	965.2	796.1	743.6	732.1	692.7	697.6	712.4
1986.1	45°	1977.9	1762.9	1149.0	884.7	743.6	684.5	673.0	636.9	646.7	663.1
1853.2	47.5°	1841.7	1639.8	1132.6	817.4	687.8	623.7	613.9	584.3	600.8	618.8
1739.9	50°	1725.1	1521.6	1111.2	748.5	635.2	571.2	561.4	541.7	563.0	581.1
1662.8	52.5°	1641.4	1387.0	1065.3	686.1	589.3	526.9	523.6	513.8	533.5	549.9
1605.3	55°	1569.2	1247.5	991.4	632.0	548.2	489.1	492.4	487.5	503.9	517.1
1570.8	57.5°	1503.6	1126.0	897.9	589.3	503.9	456.3	466.2	459.6	467.8	476.0
1534.7	60°	1424.8	1002.9	786.2	541.7	451.4	423.5	435.0	416.9	415.3	418.6
1469.1	62.5°	1308.2	837.1	669.7	482.6	405.4	387.4	392.3	357.8	331.6	331.6
1372.2	65°	1145.7	673.0	561.4	416.9	352.9	338.1	334.9	285.6	249.5	246.2
1267.2	67.5°	957.0	553.2	466.2	351.3	293.8	284.0	287.3	251.1	215.0	211.7
1162.1	70°	779.7	458.0	375.9	280.7	226.5	236.4	251.1	215.0	180.6	175.6
1039.0	72.5°	633.6	364.4	293.8	215.0	167.4	195.3	213.4	175.6	142.8	139.5
886.4	75°	489.1	267.6	210.1	146.1	121.5	151.0	167.4	128.0	101.8	96.8
686.1	77.5°	326.6	165.8	118.2	91.9	72.2	103.4	111.6	67.3	59.1	57.5
499.0	80°	198.6	77.1	50.9	44.3	24.6	37.8	44.3	27.9	31.2	32.8
265.9	82.5°	100.1	21.3	8.2	1.6	0.0	0.0	13.1	6.6	13.1	16.4
72.2	85°	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.2
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

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**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
3299.3	0°	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3
2898.8	2.5°	2990.7	3059.6	3125.3	3230.3	3338.7	3445.4	3553.7	3658.8	3696.5	3724.4
2503.2	5°	2646.0	2775.7	2926.7	3135.1	3358.4	3588.2	3821.3	4034.6	4131.5	4197.1
2130.6	7.5°	2289.8	2458.9	2675.5	2989.0	3338.7	3704.7	4070.7	4407.2	4563.2	4689.6
1779.3	10°	1936.9	2120.7	2394.8	2752.7	3225.4	3750.7	4256.2	4719.1	4921.0	5080.2
1526.5	12.5°	1626.7	1799.0	2086.3	2481.8	3048.1	3714.6	4362.9	4919.4	5157.4	5336.3
1346.0	15°	1408.3	1529.8	1784.2	2211.0	2838.0	3598.0	4369.5	5014.6	5275.6	5462.7
1270.5	17.5°	1286.9	1327.9	1493.7	1935.2	2605.0	3445.4	4308.8	5047.4	5326.4	5500.4
1203.2	20°	1221.2	1227.8	1273.8	1577.4	2306.2	3302.6	4251.3	5080.2	5374.0	5520.1
1155.6	22.5°	1168.7	1168.7	1180.2	1290.2	1920.5	3131.9	4233.3	5137.7	5439.7	5530.0
1101.4	25°	1121.1	1121.1	1124.4	1153.9	1521.6	2870.9	4221.8	5226.3	5530.0	5554.6
1047.2	27.5°	1071.9	1073.5	1073.5	1089.9	1226.1	2516.3	4172.5	5341.2	5638.3	5587.4
994.7	30°	1022.6	1025.9	1025.9	1037.4	1085.0	2101.0	4075.7	5479.1	5779.5	5630.1
942.2	32.5°	973.4	976.7	976.7	986.5	1021.0	1677.5	3954.2	5605.5	5922.3	5648.2
891.3	35°	922.5	927.4	924.1	937.3	973.4	1334.5	3799.9	5731.9	6076.6	5705.6
842.1	37.5°	871.6	874.9	873.2	886.4	927.4	1152.3	3621.0	5827.1	6286.7	5833.6
789.5	40°	820.7	819.1	819.1	833.8	878.2	1099.8	3396.1	5978.1	6588.7	6058.5
737.0	42.5°	768.2	768.2	764.9	781.3	835.5	1060.4	3181.1	6248.9	7028.6	6416.4
687.8	45°	720.6	718.9	712.4	727.2	794.5	991.4	3105.6	6754.5	7678.6	6995.8
638.5	47.5°	674.6	673.0	656.6	669.7	745.2	929.1	3387.9	7581.8	8579.8	7847.7
599.1	50°	633.6	635.2	604.0	615.5	696.0	881.4	4000.2	8655.3	9776.4	8995.0
566.3	52.5°	595.8	595.8	554.8	561.4	635.2	838.8	4582.9	9819.0	11355.4	10595.4
531.8	55°	558.1	554.8	508.8	512.1	574.5	778.0	4669.9	10954.9	13509.0	13003.4
494.1	57.5°	515.4	508.8	466.2	466.2	518.7	733.7	4047.8	11828.2	16181.2	16542.3
423.5	60°	462.9	458.0	430.1	421.8	474.4	773.1	2856.1	11929.9	17904.7	21248.3
336.5	62.5°	395.6	402.2	387.4	375.9	431.7	802.7	1692.3	11110.8	17487.8	22745.3
261.0	65°	311.9	338.1	334.9	326.6	474.4	676.3	999.6	9538.4	16209.1	21537.2
228.2	67.5°	265.9	284.0	279.0	279.0	497.4	513.8	628.7	7452.1	14449.5	20104.3
190.4	70°	226.5	244.6	226.5	226.5	375.9	311.9	435.0	5203.3	12550.4	18518.6
152.7	72.5°	187.1	205.2	185.5	172.4	300.4	233.1	318.4	3251.7	10748.1	16867.3
108.3	75°	142.8	164.1	149.4	133.0	198.6	174.0	241.3	1889.3	8904.8	14431.5
65.7	77.5°	90.3	118.2	111.6	93.6	146.1	126.4	174.0	1124.4	6871.0	11276.6
39.4	80°	55.8	60.7	62.4	59.1	83.7	85.4	118.2	640.2	4702.7	7859.2
24.6	82.5°	36.1	36.1	27.9	31.2	41.0	49.2	67.3	241.3	2764.2	4784.8
14.8	85°	26.3	23.0	14.8	14.8	19.7	24.6	26.3	73.9	1121.1	1889.3
6.6	87.5°	13.1	11.5	4.9	6.6	9.8	8.2	6.6	3.3	282.3	604.0
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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 CATALOG NUMBER: GALN-SB9B-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
3299.3	0°	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3	3299.3
3786.8	2.5°	3819.6	3870.5	3873.8	3873.8	3829.5	3827.8	3737.5	3727.7
4344.9	5°	4497.5	4530.4	4538.6	4522.1	4433.5	4367.8	4192.2	4154.5
4914.4	7.5°	5118.0	5183.6	5183.6	5144.2	4999.8	4865.2	4610.8	4515.6
5385.5	10°	5613.7	5689.2	5672.8	5592.4	5410.2	5224.7	4916.1	4791.3
5671.1	12.5°	5855.0	5932.1	5889.5	5797.5	5620.3	5424.9	5099.9	4958.8
5753.2	15°	5850.1	5828.7	5784.4	5772.9	5687.6	5539.8	5236.2	5081.9
5702.3	17.5°	5641.6	5461.0	5426.6	5541.5	5649.8	5613.7	5354.3	5209.9
5580.9	20°	5311.7	4996.5	4965.3	5185.3	5493.9	5651.4	5464.3	5331.4
5405.2	22.5°	4963.7	4623.9	4551.7	4794.6	5259.1	5662.9	5603.8	5470.9
5211.5	25°	4633.8	4292.3	4220.1	4446.6	4998.2	5643.2	5754.9	5641.6
5026.1	27.5°	4358.0	4028.1	3960.8	4187.3	4747.0	5587.4	5905.9	5825.4
4842.2	30°	4144.6	3839.3	3790.1	4008.4	4530.4	5518.5	6097.9	6053.6
4671.5	32.5°	4019.9	3796.6	3814.7	3993.6	4413.8	5443.0	6281.8	6303.1
4587.8	35°	4143.0	4152.8	4310.4	4384.3	4522.1	5431.5	6531.3	6615.0
4687.9	37.5°	4755.2	5096.6	5423.3	5362.6	5052.3	5564.5	6903.9	7059.8
5124.5	40°	5797.5	6498.4	7028.6	6797.2	6015.8	5971.5	7440.6	7673.7
5899.3	42.5°	7071.3	8259.7	9132.9	8512.5	7258.4	6683.9	8207.2	8504.3
6836.6	45°	8415.6	10431.3	11806.8	10516.7	8583.0	7681.9	9367.6	9600.7
7714.7	47.5°	9832.2	13070.7	14850.0	12739.1	9810.8	8817.8	10950.0	11004.2
8546.9	50°	11381.7	15964.6	17952.3	14960.0	10995.9	10119.4	12883.6	12821.2
9517.0	52.5°	12857.3	18940.5	20989.0	17190.7	12036.6	11734.6	15127.4	14999.4
10843.3	55°	14265.7	21914.8	24043.7	19334.4	13018.2	13868.5	17793.1	17018.4
12755.6	57.5°	15898.9	24588.6	27192.0	21488.0	14390.4	16639.2	20774.0	18190.3
16417.6	60°	18313.5	27626.9	30752.2	24439.3	17000.3	19551.1	21842.5	17967.1
20803.5	62.5°	21396.1	30420.6	33340.8	27331.5	19621.7	20099.3	20268.4	16246.9
19908.9	65°	21995.2	31128.1	33486.8	28104.6	19283.5	17049.5	16547.3	13059.2
17783.3	67.5°	20406.3	29849.4	31444.9	26665.1	17057.8	13175.8	12417.4	9474.3
16388.1	70°	18623.7	27411.9	27886.3	24217.7	15002.7	9691.0	8386.1	6079.9
15432.7	72.5°	16796.8	24160.2	23178.7	21031.7	13185.6	7056.5	6048.7	4321.9
14072.0	75°	14626.8	19884.3	18257.6	17474.7	10917.2	5538.2	4376.1	2982.5
12103.9	77.5°	11713.3	13996.5	13561.5	13545.1	8203.9	4046.1	2920.1	1869.6
9456.3	80°	8263.0	9083.7	8862.1	10201.5	5503.7	2934.9	1758.0	1040.7
6582.1	82.5°	4000.2	5022.8	5155.7	6074.9	2677.2	1726.8	405.4	226.5
2573.8	85°	1565.9	2422.8	2043.6	2306.2	751.8	480.9	9.8	0.0
423.5	87.5°	175.6	280.7	257.7	203.5	91.9	19.7	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)