

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: P956580

Luminaire Tested: **GALN-SB9A-940-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956580  
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-SB9A-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

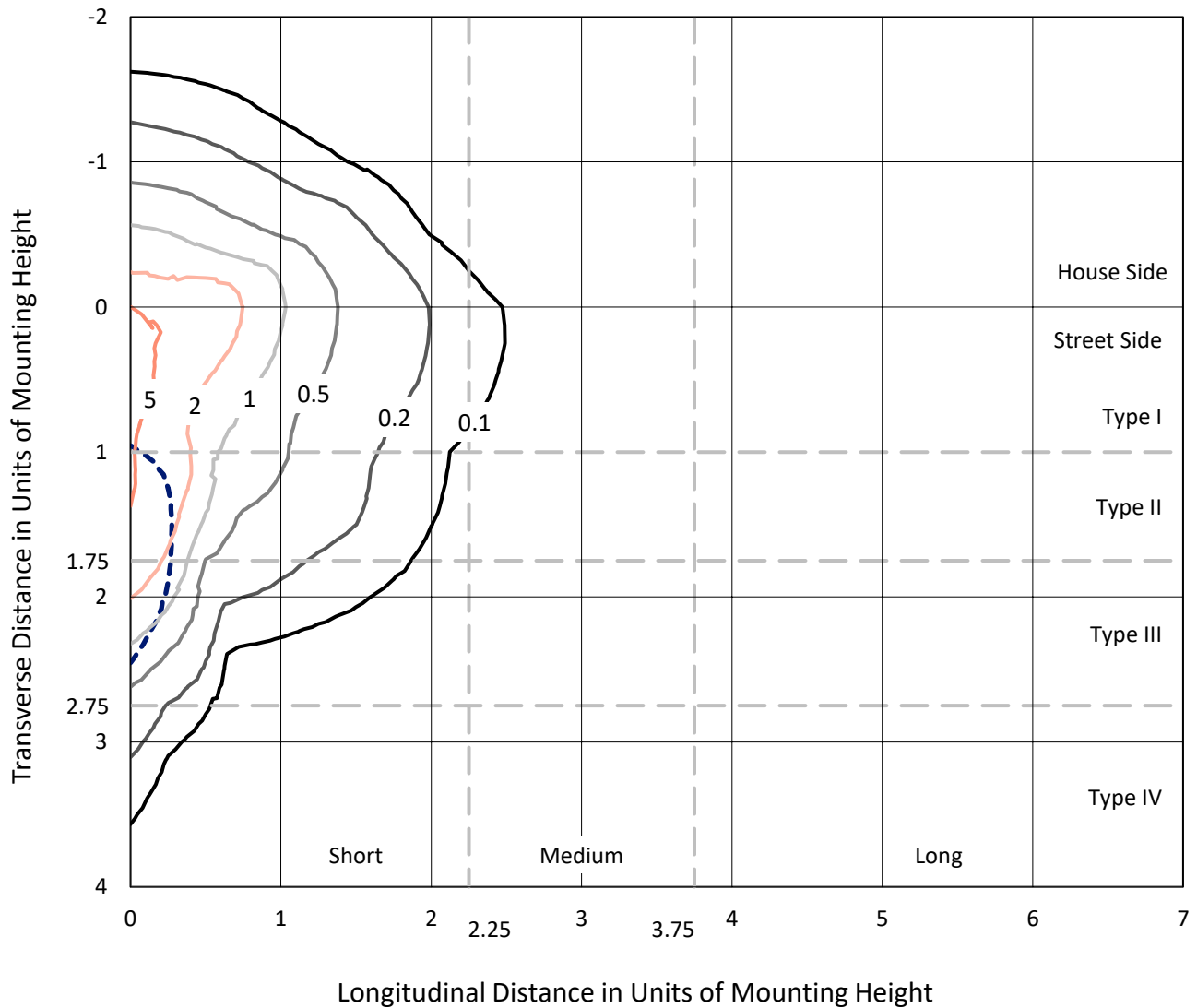
Lumens per Lamp: N/A  
Luminaire Lumens: 22596 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

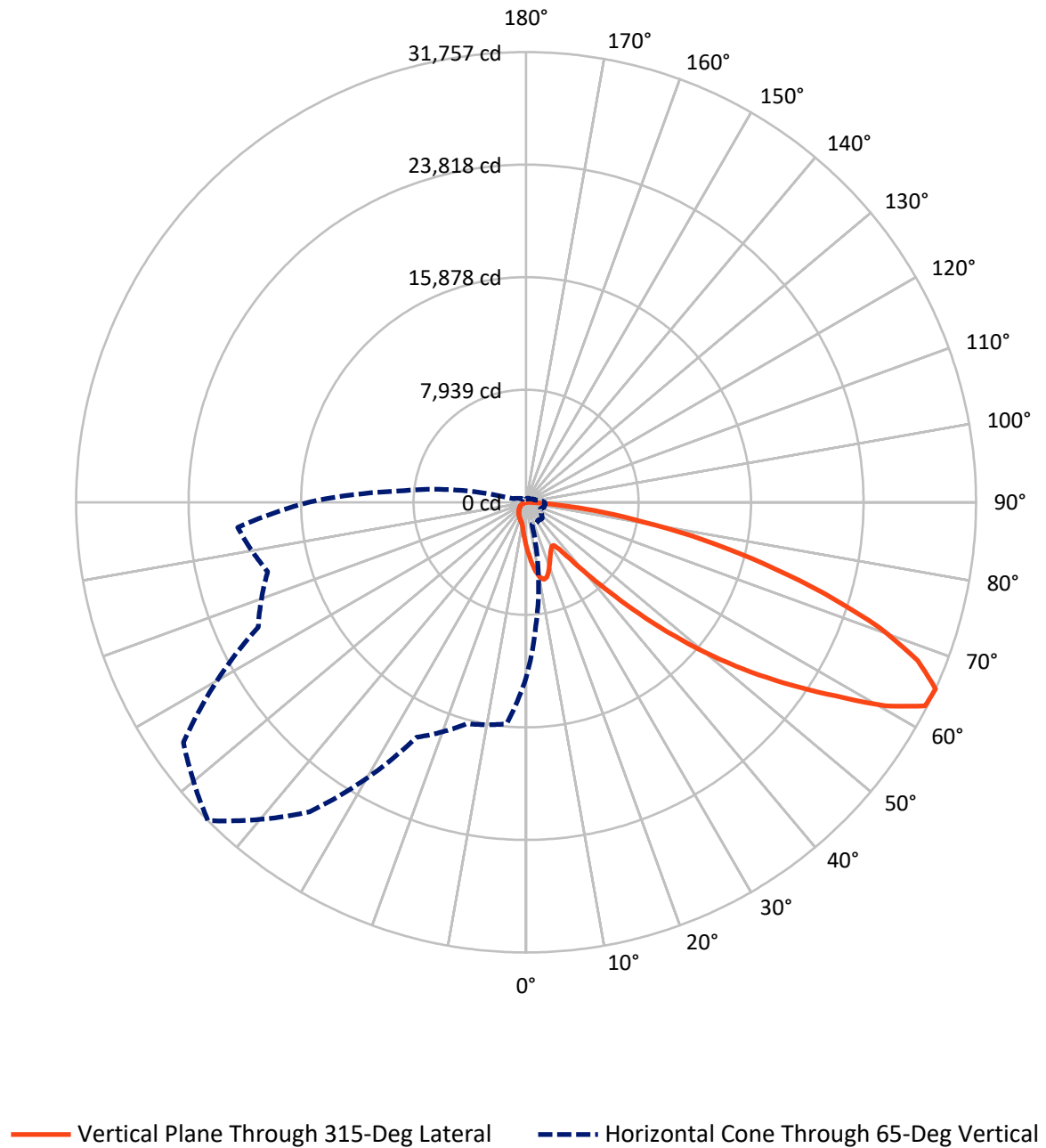
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3164.4	0.0	3164.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	19431.6	0.0	19431.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	22596.0	0.0	22596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.0	1.4
10°-20°	923.4	4.1
20°-30°	1360.4	6.0
30°-40°	1747.7	7.7
40°-50°	2826.6	12.5
50°-60°	4956.7	21.9
60°-70°	6202.2	27.4
70°-80°	3624.3	16.0
80°-90°	646.6	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°	22596.0	100.0
0°-180°	22596.0	100.0

**Coefficient of Utilization**



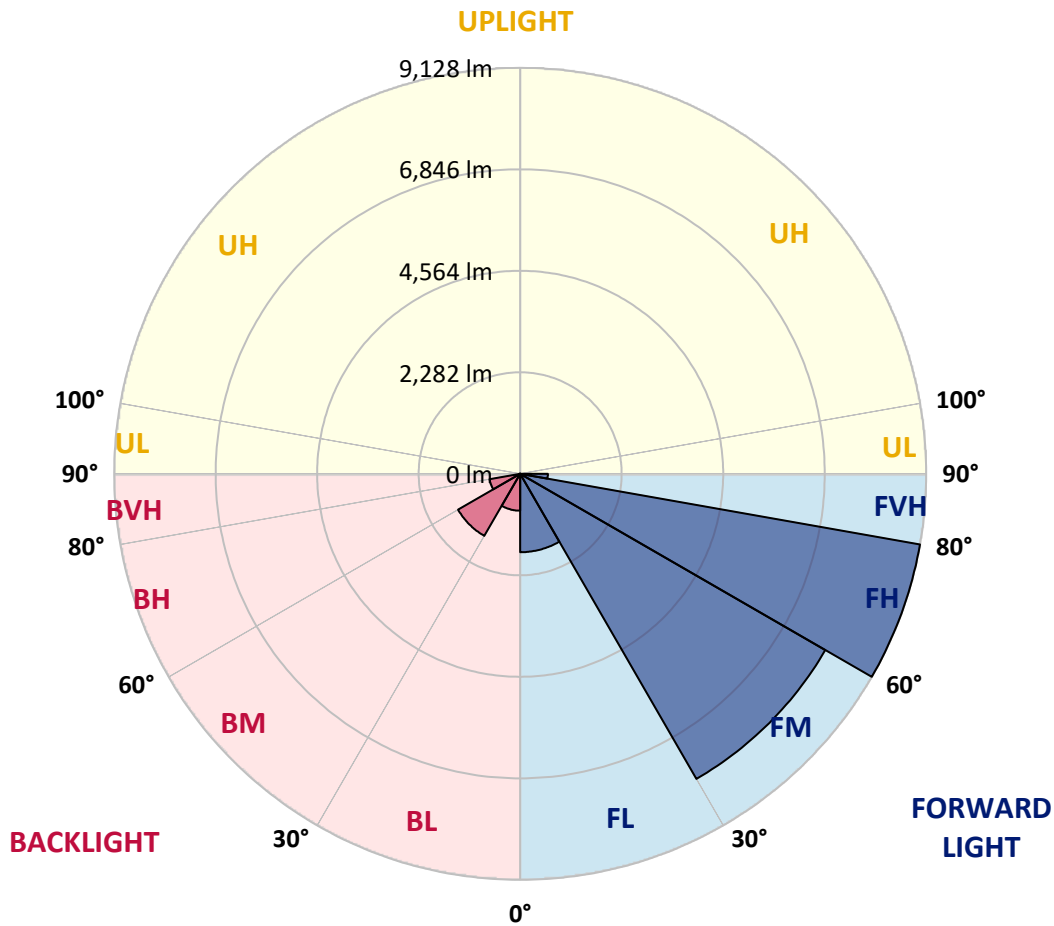
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.4	7.8			
FM (30°-60°)	7919.6	35.0			
FH (60°-80°)	9127.8	40.4			G4/12000
FVH (80°-90°)	621.8	2.8			G4/750
BL (0°-30°)	829.4	3.7	B2/1000		
BM (30°-60°)	1611.4	7.1	B2/2500		
BH (60°-80°)	698.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	24.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
2.5°	3535.1	3474.4	3438.6	3349.9	3261.1	3189.5	3093.0	3029.2	2952.9	2879.8
5°	3939.8	3841.8	3723.5	3561.6	3413.7	3262.7	3116.4	2971.6	2819.1	2679.0
7.5°	4282.3	4140.6	3932.0	3717.2	3528.9	3346.8	3175.5	2984.1	2798.8	2579.3
10°	4543.8	4363.2	4089.3	3807.5	3591.1	3407.5	3240.9	3079.0	2892.2	2627.6
12.5°	4702.6	4509.6	4184.2	3854.2	3606.7	3401.2	3272.0	3200.4	3127.3	2864.2
15°	4819.3	4610.7	4251.2	3886.9	3570.9	3318.7	3223.8	3295.4	3379.4	3211.3
17.5°	4940.7	4721.3	4338.3	3900.9	3474.4	3158.4	3117.9	3303.2	3497.7	3490.0
20°	5055.9	4838.0	4414.6	3891.6	3318.7	2963.8	2999.6	3236.2	3461.9	3556.9
22.5°	5188.2	4957.9	4487.8	3855.8	3116.4	2781.7	2893.8	3130.4	3328.1	3440.1
25°	5350.1	5108.9	4590.5	3802.8	2898.4	2630.7	2786.4	3007.4	3167.7	3245.6
27.5°	5524.5	5289.4	4727.5	3774.8	2722.5	2523.3	2664.9	2861.1	3004.3	3058.8
30°	5740.8	5499.6	4889.4	3743.7	2607.4	2461.0	2538.9	2691.4	2831.5	2886.0
32.5°	5977.5	5733.1	5045.0	3669.0	2537.3	2414.3	2415.9	2512.4	2640.0	2705.4
35°	6273.2	6013.3	5211.6	3505.5	2481.3	2359.8	2296.0	2342.7	2448.6	2526.4
37.5°	6695.1	6380.6	5415.5	3272.0	2398.8	2275.8	2169.9	2180.8	2261.8	2347.4
40°	7277.2	6874.1	5655.2	3029.2	2280.5	2157.5	2031.4	2026.7	2085.9	2169.9
42.5°	8064.9	7526.3	5943.2	2797.3	2166.8	2014.3	1885.1	1877.3	1924.0	1997.2
45°	9104.7	8360.7	6296.6	2598.0	2078.1	1874.2	1746.5	1743.4	1782.3	1846.2
47.5°	10435.6	9520.3	6649.9	2462.6	2031.4	1763.7	1632.9	1639.1	1673.4	1731.0
50°	12158.8	11031.8	6757.3	2394.1	2031.4	1704.5	1531.7	1562.9	1590.9	1634.5
52.5°	14224.5	12482.6	6402.4	2331.8	2043.9	1712.3	1446.1	1513.0	1533.3	1570.6
55°	16139.1	13194.0	5504.2	2246.2	2047.0	1760.5	1372.9	1472.6	1509.9	1523.9
57.5°	17250.6	12949.6	4450.4	2101.4	2034.5	1793.2	1326.2	1422.8	1494.4	1503.7
60°	17038.9	12091.9	3276.7	1990.9	1942.7	1780.8	1312.2	1346.5	1460.1	1474.1
62.5°	15407.5	10653.6	2274.2	1905.3	1740.3	1726.3	1307.6	1226.6	1385.4	1419.6
65°	12384.5	8387.1	1606.4	1640.7	1525.5	1608.0	1282.7	1102.1	1295.1	1341.8
67.5°	8984.9	5675.5	1159.7	1329.4	1382.3	1416.5	1226.6	1011.8	1192.4	1254.6
70°	5765.8	3065.0	814.1	877.9	1164.4	1203.3	1130.1	930.9	1088.1	1159.7
72.5°	4098.6	1810.4	585.3	614.9	935.5	1002.5	994.7	840.6	966.7	1053.8
75°	2828.4	997.8	395.4	439.0	678.7	814.1	767.4	722.3	818.8	907.5
77.5°	1773.0	446.8	236.6	305.1	445.2	639.8	526.1	558.8	638.2	720.7
80°	986.9	172.8	132.3	202.4	242.8	465.4	291.1	359.6	470.1	529.3
82.5°	214.8	21.8	59.2	87.2	95.0	270.9	154.1	208.6	295.8	291.1
85°	0.0	0.0	10.9	12.5	6.2	116.7	56.0	68.5	96.5	90.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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°
3128.8	0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
2814.4	2.5°	2801.9	2725.7	2669.6	2641.6	2618.2	2640.0	2652.5	2652.5	2705.4	2736.6
2593.3	5°	2538.9	2401.9	2297.6	2227.5	2185.5	2199.5	2215.1	2232.2	2299.1	2344.3
2462.6	7.5°	2356.7	2146.6	1987.8	1889.7	1838.4	1846.2	1857.1	1871.1	1936.4	1981.6
2481.3	10°	2322.5	2020.5	1796.3	1667.1	1604.9	1594.0	1587.8	1583.1	1622.0	1656.3
2693.0	12.5°	2462.6	2026.7	1713.8	1556.6	1480.4	1447.7	1410.3	1380.7	1387.0	1408.7
3013.6	15°	2713.2	2106.1	1687.4	1499.0	1404.1	1349.6	1306.0	1270.2	1262.4	1270.2
3293.8	17.5°	2999.6	2213.5	1684.3	1449.2	1330.9	1274.9	1239.1	1206.4	1195.5	1197.0
3451.0	20°	3189.5	2299.1	1674.9	1393.2	1260.9	1211.1	1179.9	1147.2	1136.3	1139.5
3407.5	22.5°	3208.2	2344.3	1660.9	1330.9	1190.8	1148.8	1117.7	1088.1	1086.5	1086.5
3244.0	25°	3107.0	2344.3	1631.3	1274.9	1123.9	1086.5	1058.5	1022.7	1028.9	1032.0
3058.8	27.5°	2949.8	2288.2	1575.3	1229.7	1066.3	1027.4	999.4	966.7	974.4	979.1
2886.0	30°	2794.1	2216.6	1508.4	1178.4	1011.8	966.7	946.4	918.4	921.5	927.8
2714.8	32.5°	2649.4	2140.4	1429.0	1136.3	957.3	912.2	896.6	865.5	870.2	876.4
2546.6	35°	2506.2	2056.3	1335.6	1086.5	907.5	862.4	849.9	814.1	817.2	826.6
2378.5	37.5°	2352.1	1967.6	1259.3	1036.7	859.3	812.6	800.1	762.7	765.9	776.8
2204.2	40°	2190.2	1880.4	1184.6	983.8	807.9	761.2	750.3	709.8	712.9	725.4
2033.0	42.5°	2026.7	1785.5	1127.0	915.3	755.0	705.2	694.3	656.9	661.6	675.6
1883.5	45°	1875.7	1671.8	1089.6	839.0	705.2	649.1	638.2	604.0	613.3	628.9
1757.4	47.5°	1746.5	1555.1	1074.1	775.2	652.2	591.5	582.2	554.2	569.7	586.8
1650.0	50°	1636.0	1443.0	1053.8	709.8	602.4	541.7	532.4	513.7	533.9	551.0
1576.9	52.5°	1556.6	1315.4	1010.3	650.7	558.8	499.7	496.6	487.2	505.9	521.5
1522.4	55°	1488.1	1183.0	940.2	599.3	519.9	463.9	467.0	462.3	477.9	490.3
1489.7	57.5°	1425.9	1067.8	851.5	558.8	477.9	432.7	442.1	435.9	443.6	451.4
1455.4	60°	1351.2	951.1	745.6	513.7	428.1	401.6	412.5	395.4	393.8	396.9
1393.2	62.5°	1240.6	793.9	635.1	457.6	384.5	367.4	372.0	339.3	314.4	314.4
1301.3	65°	1086.5	638.2	532.4	395.4	334.7	320.7	317.6	270.9	236.6	233.5
1201.7	67.5°	907.5	524.6	442.1	333.1	278.6	269.3	272.4	238.2	203.9	200.8
1102.1	70°	739.4	434.3	356.5	266.2	214.8	224.2	238.2	203.9	171.2	166.6
985.3	72.5°	600.9	345.6	278.6	203.9	158.8	185.2	202.4	166.6	135.4	132.3
840.6	75°	463.9	253.7	199.2	138.5	115.2	143.2	158.8	121.4	96.5	91.8
650.7	77.5°	309.8	157.2	112.1	87.2	68.5	98.1	105.9	63.8	56.0	54.5
473.2	80°	188.4	73.2	48.3	42.0	23.3	35.8	42.0	26.5	29.6	31.1
252.2	82.5°	95.0	20.2	7.8	1.6	0.0	0.0	12.5	6.2	12.5	15.6
68.5	85°	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8
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°
3128.8	0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
2749.0	2.5°	2836.2	2901.6	2963.8	3063.4	3166.2	3267.4	3370.1	3469.7	3505.5	3532.0
2373.9	5°	2509.3	2632.3	2775.5	2973.2	3184.9	3402.8	3623.8	3826.2	3918.0	3980.3
2020.5	7.5°	2171.5	2331.8	2537.3	2834.6	3166.2	3513.3	3860.4	4179.5	4327.4	4447.3
1687.4	10°	1836.8	2011.2	2271.1	2610.5	3058.8	3556.9	4036.3	4475.3	4666.8	4817.8
1447.7	12.5°	1542.6	1706.1	1978.5	2353.6	2890.7	3522.6	4137.5	4665.2	4890.9	5060.6
1276.4	15°	1335.6	1450.8	1692.1	2096.8	2691.4	3412.1	4143.7	4755.5	5003.0	5180.5
1204.8	17.5°	1220.4	1259.3	1416.5	1835.3	2470.4	3267.4	4086.1	4786.6	5051.3	5216.3
1141.0	20°	1158.1	1164.4	1207.9	1495.9	2187.1	3131.9	4031.7	4817.8	5096.4	5234.9
1095.9	22.5°	1108.3	1108.3	1119.2	1223.5	1821.3	2970.0	4014.5	4872.2	5158.7	5244.3
1044.5	25°	1063.2	1063.2	1066.3	1094.3	1443.0	2722.5	4003.6	4956.3	5244.3	5267.6
993.1	27.5°	1016.5	1018.0	1018.0	1033.6	1162.8	2386.3	3956.9	5065.3	5347.0	5298.8
943.3	30°	969.8	972.9	972.9	983.8	1028.9	1992.5	3865.1	5196.0	5480.9	5339.2
893.5	32.5°	923.1	926.2	926.2	935.5	968.2	1590.9	3749.9	5315.9	5616.3	5356.4
845.2	35°	874.8	879.5	876.4	888.8	923.1	1265.5	3603.6	5435.7	5762.6	5410.8
798.6	37.5°	826.6	829.7	828.1	840.6	879.5	1092.8	3433.9	5526.0	5961.9	5532.3
748.7	40°	778.3	776.8	776.8	790.8	832.8	1042.9	3220.7	5669.2	6248.3	5745.5
698.9	42.5°	728.5	728.5	725.4	741.0	792.3	1005.6	3016.7	5926.1	6665.5	6084.9
652.2	45°	683.4	681.8	675.6	689.6	753.4	940.2	2945.1	6405.5	7281.9	6634.4
605.5	47.5°	639.8	638.2	622.7	635.1	706.7	881.1	3212.9	7190.1	8136.5	7442.2
568.2	50°	600.9	602.4	572.8	583.7	660.0	835.9	3793.5	8208.1	9271.3	8530.3
537.0	52.5°	565.1	565.1	526.1	532.4	602.4	795.4	4346.1	9311.8	10768.8	10048.0
504.3	55°	529.3	526.1	482.6	485.7	544.8	737.8	4428.6	10388.9	12811.1	12331.6
468.5	57.5°	488.8	482.6	442.1	442.1	491.9	695.8	3838.6	11217.1	15345.2	15687.7
401.6	60°	439.0	434.3	407.8	400.1	449.9	733.2	2708.5	11313.6	16979.7	20150.6
319.1	62.5°	375.1	381.4	367.4	356.5	409.4	761.2	1604.9	10536.8	16584.3	21570.2
247.5	65°	295.8	320.7	317.6	309.8	449.9	641.3	948.0	9045.6	15371.7	20424.5
216.4	67.5°	252.2	269.3	264.6	264.6	471.7	487.2	596.2	7067.1	13703.0	19065.6
180.6	70°	214.8	231.9	214.8	214.8	356.5	295.8	412.5	4934.5	11902.0	17561.9
144.8	72.5°	177.5	194.6	175.9	163.4	284.9	221.0	302.0	3083.7	10192.8	15995.9
102.7	75°	135.4	155.7	141.7	126.1	188.4	165.0	228.8	1791.7	8444.7	13685.9
62.3	77.5°	85.6	112.1	105.9	88.7	138.5	119.9	165.0	1066.3	6516.0	10694.0
37.4	80°	52.9	57.6	59.2	56.0	79.4	80.9	112.1	607.1	4459.7	7453.1
23.3	82.5°	34.2	34.2	26.5	29.6	38.9	46.7	63.8	228.8	2621.4	4537.6
14.0	85°	24.9	21.8	14.0	14.0	18.7	23.3	24.9	70.0	1063.2	1791.7
6.2	87.5°	12.5	10.9	4.7	6.2	9.3	7.8	6.2	3.1	267.7	572.8
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-SB9A-940-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
3128.8	0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
3591.1	2.5°	3622.3	3670.5	3673.6	3673.6	3631.6	3630.1	3544.4	3535.1
4120.4	5°	4265.2	4296.3	4304.1	4288.5	4204.5	4142.2	3975.6	3939.8
4660.5	7.5°	4853.6	4915.8	4915.8	4878.5	4741.5	4613.8	4372.6	4282.3
5107.3	10°	5323.7	5395.3	5379.7	5303.4	5130.6	4954.7	4662.1	4543.8
5378.2	12.5°	5552.5	5625.7	5585.2	5498.0	5329.9	5144.7	4836.4	4702.6
5456.0	15°	5547.8	5527.6	5485.6	5474.7	5393.7	5253.6	4965.6	4819.3
5407.7	17.5°	5350.1	5178.9	5146.2	5255.2	5357.9	5323.7	5077.7	4940.7
5292.5	20°	5037.2	4738.4	4708.8	4917.4	5210.0	5359.5	5182.0	5055.9
5126.0	22.5°	4707.2	4385.0	4316.5	4546.9	4987.4	5370.4	5314.3	5188.2
4942.3	25°	4394.4	4070.6	4002.1	4216.9	4739.9	5351.7	5457.5	5350.1
4766.4	27.5°	4132.8	3820.0	3756.1	3971.0	4501.8	5298.8	5600.7	5524.5
4592.1	30°	3930.5	3641.0	3594.3	3801.3	4296.3	5233.4	5782.9	5740.8
4430.2	32.5°	3812.2	3600.5	3617.6	3787.3	4185.8	5161.8	5957.2	5977.5
4350.8	35°	3928.9	3938.3	4087.7	4157.8	4288.5	5150.9	6193.8	6273.2
4445.7	37.5°	4509.6	4833.3	5143.1	5085.5	4791.3	5277.0	6547.2	6695.1
4859.8	40°	5498.0	6162.7	6665.5	6446.0	5705.0	5663.0	7056.2	7277.2
5594.5	42.5°	6706.0	7833.0	8661.1	8072.7	6883.4	6338.6	7783.1	8064.9
6483.4	45°	7980.8	9892.4	11196.8	9973.3	8139.6	7285.0	8883.7	9104.7
7316.2	47.5°	9324.2	12395.4	14082.8	12081.0	9304.0	8362.2	10384.3	10435.6
8105.4	50°	10793.7	15139.8	17024.8	14187.1	10427.9	9596.6	12218.0	12158.8
9025.3	52.5°	12193.1	17961.9	19904.6	16302.6	11414.8	11128.3	14345.9	14224.5
10283.1	55°	13528.7	20782.5	22801.5	18335.5	12345.6	13152.0	16873.9	16139.1
12096.6	57.5°	15077.5	23318.3	25787.1	20377.8	13647.0	15779.5	19700.7	17250.6
15569.4	60°	17367.3	26199.6	29163.4	23176.6	16122.0	18541.0	20714.1	17038.9
19728.7	62.5°	20290.7	28849.0	31618.2	25919.4	18607.9	19060.9	19221.2	15407.5
18880.3	65°	20858.8	29519.9	31756.8	26652.6	18287.3	16168.7	15692.4	12384.5
16864.5	67.5°	19352.0	28307.3	29820.3	25287.4	16176.5	12495.1	11775.9	8984.9
15541.4	70°	17661.5	25995.7	26445.6	22966.5	14227.6	9190.3	7952.8	5765.8
14635.4	72.5°	15929.0	22912.0	21981.1	19945.1	12504.4	6691.9	5736.2	4098.6
13345.0	75°	13871.1	18857.0	17314.4	16571.9	10353.1	5252.1	4150.0	2828.4
11478.6	77.5°	11108.1	13273.4	12860.9	12845.3	7780.0	3837.1	2769.2	1773.0
8967.7	80°	7836.1	8614.4	8404.2	9674.4	5219.4	2783.3	1667.1	986.9
6242.1	82.5°	3793.5	4763.3	4889.4	5761.1	2538.9	1637.6	384.5	214.8
2440.8	85°	1485.0	2297.6	1938.0	2187.1	712.9	456.1	9.3	0.0
401.6	87.5°	166.6	266.2	244.4	193.0	87.2	18.7	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)