

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: P950782

Luminaire Tested: **GALN-SB5A-850-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950782  
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-SB5A-850-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

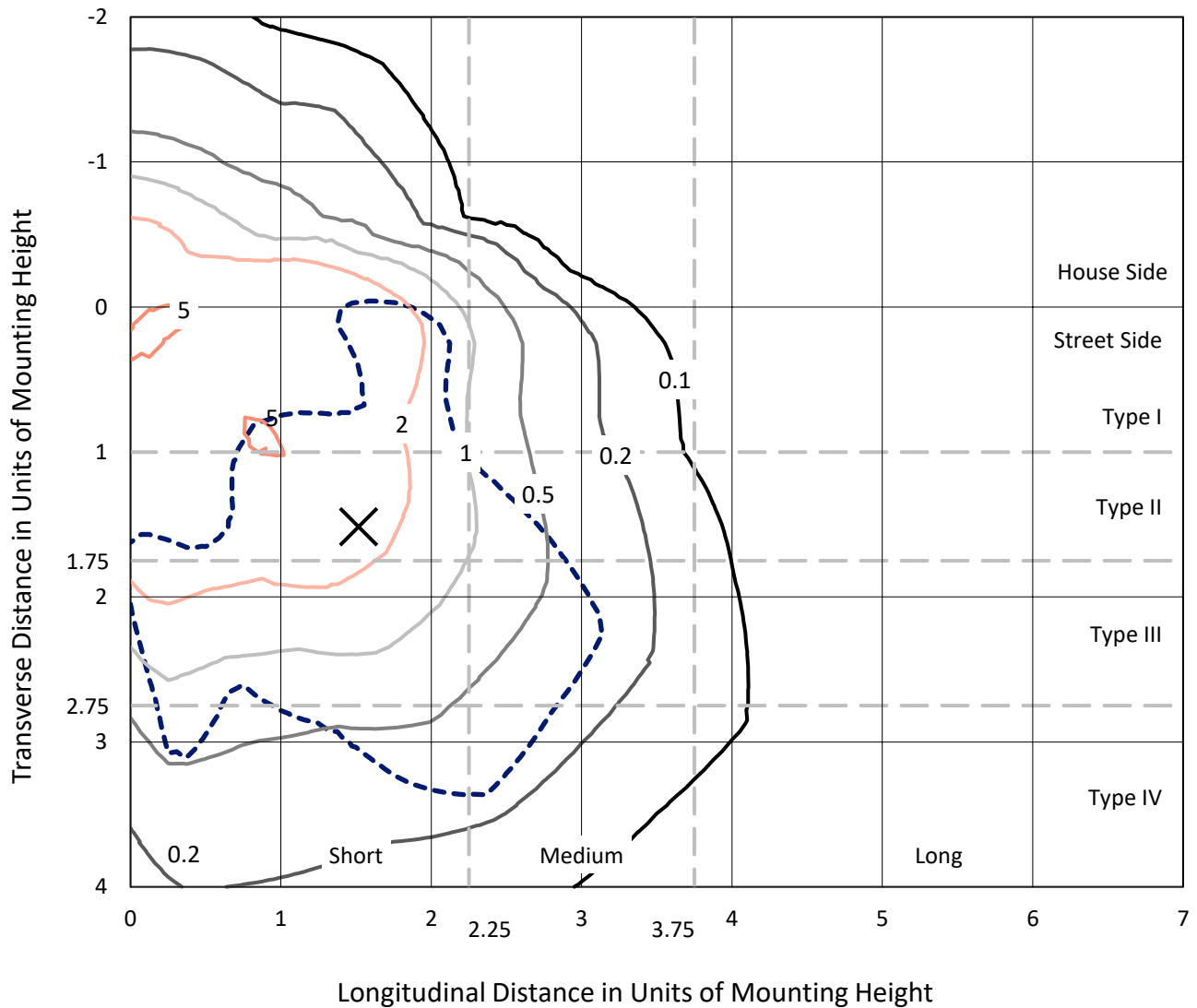
Lumens per Lamp: N/A  
Luminaire Lumens: 16542 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

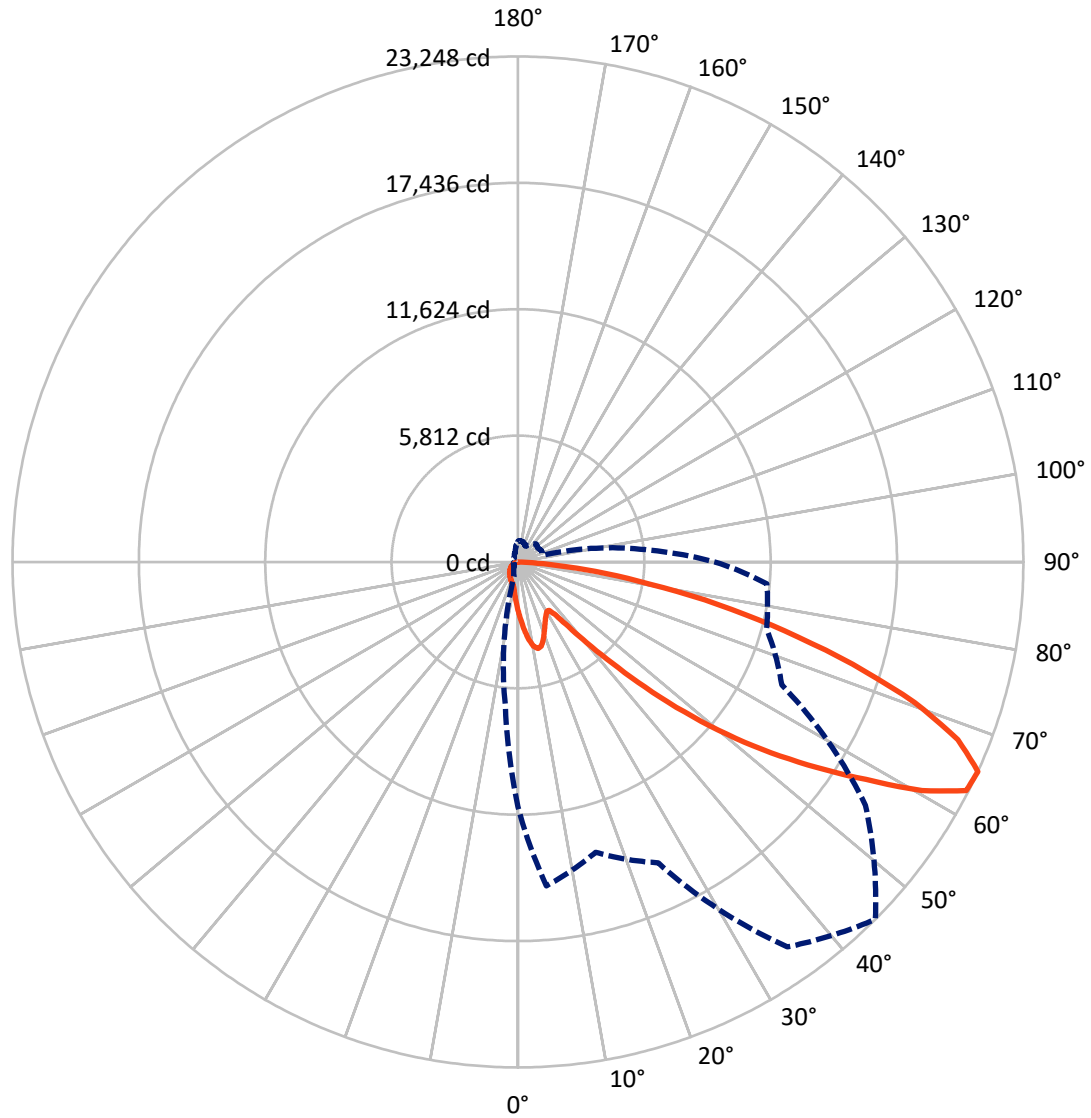
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3288.0	0.0	3288.0
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	13254.0	0.0	13254.0
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	16542.0	0.0	16542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.5	1.4
10°-20°	676.0	4.1
20°-30°	995.9	6.0
30°-40°	1279.5	7.7
40°-50°	2069.3	12.5
50°-60°	3628.7	21.9
60°-70°	4540.5	27.4
70°-80°	2653.2	16.0
80°-90°	473.4	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°	16542.0	100.0
0°-180°	16542.0	100.0

**Coefficient of Utilization**



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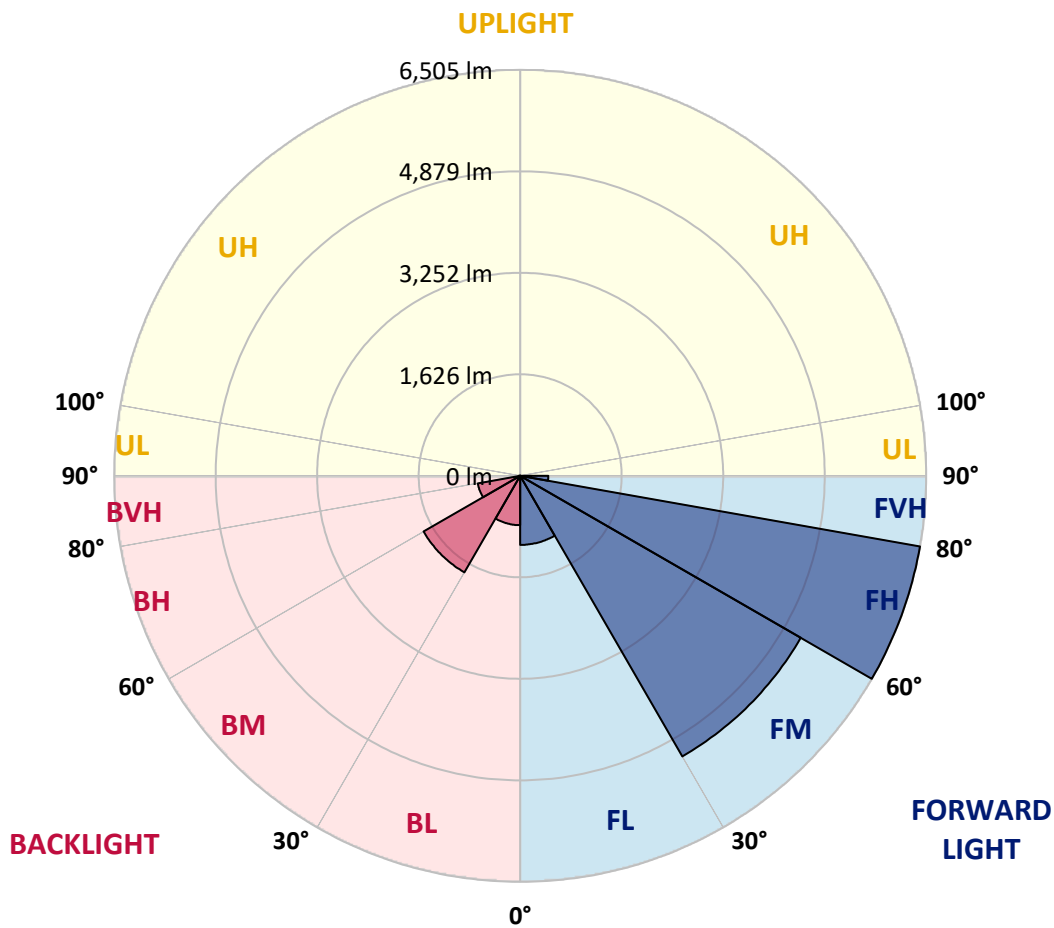
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.9	6.7			
FM (30°-60°)	5191.1	31.4			
FH (60°-80°)	6504.8	39.3			G3/7500
FVH (80°-90°)	451.2	2.7			G3/500
BL (0°-30°)	790.6	4.8	B2/1000		
BM (30°-60°)	1786.4	10.8	B2/2500		
BH (60°-80°)	688.9	4.2	B2/1000		G2/1000
BVH (80°-90°)	22.2	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2.5°	2566.3	2585.7	2629.0	2651.8	2687.1	2689.4	2689.4	2658.6	2657.5	2594.8
5°	2868.3	2913.9	3016.4	3122.4	3145.2	3150.9	3139.5	3078.0	3032.4	2910.5
7.5°	3168.0	3255.8	3411.9	3553.2	3598.8	3598.8	3571.4	3471.1	3377.7	3201.1
10°	3416.4	3527.0	3738.9	3897.3	3949.8	3938.4	3882.5	3756.0	3627.3	3413.0
12.5°	3580.5	3704.7	3937.2	4064.8	4118.4	4088.8	4025.0	3901.9	3766.3	3540.6
15°	3662.6	3792.5	3994.2	4061.4	4046.6	4015.8	4007.9	3948.6	3846.1	3635.2
17.5°	3697.9	3818.7	3958.9	3916.7	3791.4	3767.4	3847.2	3922.4	3897.3	3717.3
20°	3731.0	3832.4	3874.5	3687.7	3468.9	3447.2	3599.9	3814.1	3923.5	3793.6
22.5°	3776.5	3839.2	3752.6	3446.1	3210.2	3160.0	3328.7	3651.2	3931.5	3890.5
25°	3839.2	3856.3	3618.1	3217.0	2980.0	2929.8	3087.1	3470.0	3917.8	3995.3
27.5°	3914.4	3879.1	3489.4	3025.6	2796.5	2749.8	2907.0	3295.6	3879.1	4100.2
30°	4012.4	3908.7	3361.7	2877.4	2665.5	2631.3	2782.8	3145.2	3831.2	4233.5
32.5°	4111.6	3921.3	3243.2	2790.8	2635.8	2648.4	2772.6	3064.3	3778.8	4361.1
35°	4218.7	3961.1	3185.1	2876.3	2883.1	2992.5	3043.8	3139.5	3770.8	4534.4
37.5°	4364.6	4050.0	3254.6	3301.3	3538.4	3765.1	3723.0	3507.6	3863.1	4793.0
40°	4574.2	4206.2	3557.7	4025.0	4511.6	4879.6	4719.0	4176.5	4145.8	5165.7
42.5°	4879.6	4454.6	4095.6	4909.3	5734.3	6340.6	5909.8	5039.2	4640.3	5697.9
45°	5330.9	4856.9	4746.3	5842.6	7242.0	8196.9	7301.2	5958.8	5333.2	6503.5
47.5°	5956.5	5448.3	5356.0	6826.0	9074.4	10309.7	8844.2	6811.2	6121.8	7602.1
50°	6787.3	6244.8	5933.7	7901.8	11083.5	12463.5	10386.1	7634.0	7025.5	8944.5
52.5°	7883.6	7355.9	6607.2	8926.3	13149.5	14571.7	11934.7	8356.5	8146.8	10502.3
55°	9378.7	9027.7	7528.0	9904.0	15214.4	16692.4	13423.0	9037.9	9628.2	12352.9
57.5°	11233.9	11484.6	8855.6	11037.9	17070.8	18878.1	14918.1	9990.6	11551.8	14422.4
60°	12430.4	14751.7	11398.0	12714.2	19180.1	21349.9	16967.1	11802.5	13573.4	15164.3
62.5°	12141.0	15791.0	14442.9	14854.3	21119.7	23147.0	18975.0	13622.4	13954.0	14071.4
65°	11253.3	14952.3	13821.9	15270.3	21610.8	23248.4	19511.7	13387.7	11836.7	11488.0
67.5°	10031.6	13957.5	12346.1	14167.1	20723.1	21830.8	18512.3	11842.4	9147.3	8620.9
70°	8713.2	12856.6	11377.5	12929.6	19030.8	19360.2	16813.2	10415.7	6728.0	5822.1
72.5°	7461.9	11710.2	10714.2	11661.2	16773.3	16091.9	14601.3	9154.2	4899.0	4199.3
75°	6182.2	10019.1	9769.5	10154.7	13804.8	12675.4	12131.9	7579.3	3844.9	3038.1
77.5°	4770.2	7828.9	8403.2	8132.0	9717.1	9415.1	9403.7	5695.6	2809.0	2027.3
80°	3264.9	5456.3	6565.1	5736.6	6306.4	6152.5	7082.4	3821.0	2037.6	1220.5
82.5°	1919.0	3321.8	4569.7	2777.1	3487.1	3579.4	4217.6	1858.6	1198.8	281.5
85°	778.3	1311.6	1786.8	1087.2	1682.0	1418.8	1601.1	521.9	333.9	6.8
87.5°	196.0	419.4	294.0	121.9	194.9	178.9	141.3	63.8	13.7	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2290.5	0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2588.0	2.5°	2543.5	2517.3	2452.4	2387.4	2335.0	2264.3	2217.6	2161.8	2108.2	2060.3
2884.3	5°	2812.5	2725.9	2607.3	2499.1	2388.5	2281.4	2175.4	2063.8	1961.2	1898.5
3135.0	7.5°	3031.3	2878.6	2721.3	2583.4	2450.1	2324.7	2184.6	2048.9	1888.3	1802.8
3326.4	10°	3194.2	2993.7	2787.4	2629.0	2494.5	2372.6	2254.1	2117.3	1923.6	1816.5
3442.6	12.5°	3301.3	3063.2	2821.6	2640.4	2490.0	2395.4	2343.0	2289.4	2096.8	1971.5
3528.1	15°	3375.4	3112.2	2845.5	2614.2	2429.6	2360.1	2412.5	2474.0	2350.9	2206.2
3617.0	17.5°	3456.3	3176.0	2855.8	2543.5	2312.2	2282.6	2418.2	2560.6	2554.9	2411.3
3701.3	20°	3541.8	3231.8	2848.9	2429.6	2169.7	2196.0	2369.2	2534.4	2603.9	2526.4
3798.2	22.5°	3629.5	3285.4	2822.7	2281.4	2036.4	2118.5	2291.7	2436.4	2518.5	2494.5
3916.7	25°	3740.1	3360.6	2784.0	2121.9	1925.9	2039.8	2201.7	2319.0	2376.0	2374.9
4044.3	27.5°	3872.3	3460.9	2763.5	1993.1	1847.2	1950.9	2094.5	2199.4	2239.3	2239.3
4202.7	30°	4026.1	3579.4	2740.7	1908.8	1801.7	1858.6	1970.3	2072.9	2112.8	2112.8
4376.0	32.5°	4197.0	3693.3	2686.0	1857.5	1767.5	1768.6	1839.3	1932.7	1980.6	1987.4
4592.5	35°	4402.2	3815.3	2566.3	1816.5	1727.6	1680.9	1715.1	1792.5	1849.5	1864.3
4901.3	37.5°	4671.1	3964.6	2395.4	1756.1	1666.1	1588.6	1596.5	1655.8	1718.5	1741.3
5327.5	40°	5032.3	4140.1	2217.6	1669.5	1579.4	1487.1	1483.7	1527.0	1588.6	1613.6
5904.1	42.5°	5509.8	4350.9	2047.8	1586.3	1474.6	1380.0	1374.3	1408.5	1462.1	1488.3
6665.4	45°	6120.6	4609.6	1901.9	1521.3	1372.0	1278.6	1276.3	1304.8	1351.5	1378.9
7639.7	47.5°	6969.6	4868.2	1802.8	1487.1	1291.1	1195.4	1200.0	1225.0	1267.2	1286.6
8901.2	50°	8076.1	4946.9	1752.7	1487.1	1247.8	1121.3	1144.1	1164.6	1196.5	1207.9
10413.4	52.5°	9138.2	4687.1	1707.1	1496.3	1253.5	1058.7	1107.7	1122.5	1149.8	1154.4
11815.1	55°	9659.0	4029.5	1644.4	1498.5	1288.9	1005.1	1078.0	1105.4	1115.6	1114.5
12628.7	57.5°	9480.1	3258.0	1538.4	1489.4	1312.8	970.9	1041.6	1094.0	1100.8	1090.6
12473.7	60°	8852.2	2398.8	1457.5	1422.2	1303.7	960.7	985.7	1068.9	1079.2	1065.5
11279.5	62.5°	7799.2	1664.9	1394.8	1274.0	1263.8	957.2	898.0	1014.2	1039.3	1019.9
9066.4	65°	6140.0	1176.0	1201.1	1116.8	1177.2	939.0	806.8	948.1	982.3	952.7
6577.6	67.5°	4154.9	849.0	973.2	1011.9	1037.0	898.0	740.7	872.9	918.5	879.7
4221.0	70°	2243.8	596.0	642.7	852.4	880.9	827.3	681.5	796.6	849.0	806.8
3000.5	72.5°	1325.3	428.5	450.1	684.9	733.9	728.2	615.4	707.7	771.5	721.3
2070.6	75°	730.5	289.5	321.4	496.9	596.0	561.8	528.8	599.4	664.4	615.4
1298.0	77.5°	327.1	173.2	223.4	325.9	468.4	385.2	409.1	467.2	527.6	476.3
722.5	80°	126.5	96.9	148.1	177.8	340.7	213.1	263.2	344.2	387.5	346.4
157.3	82.5°	16.0	43.3	63.8	69.5	198.3	112.8	152.7	216.5	213.1	184.6
0.0	85°	0.0	8.0	9.1	4.6	85.5	41.0	50.1	70.7	66.1	50.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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°
2290.5	0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2051.2	2.5°	1995.4	1954.4	1933.9	1916.8	1932.7	1941.8	1941.8	1980.6	2003.4	2012.5
1858.6	5°	1758.4	1682.0	1630.7	1600.0	1610.2	1621.6	1634.1	1683.1	1716.2	1737.8
1725.3	7.5°	1571.5	1455.2	1383.4	1345.8	1351.5	1359.5	1369.8	1417.6	1450.7	1479.2
1700.2	10°	1479.2	1315.1	1220.5	1174.9	1166.9	1162.4	1158.9	1187.4	1212.5	1235.3
1802.8	12.5°	1483.7	1254.7	1139.6	1083.7	1059.8	1032.5	1010.8	1015.4	1031.3	1059.8
1986.3	15°	1541.8	1235.3	1097.4	1027.9	988.0	956.1	929.9	924.2	929.9	934.4
2196.0	17.5°	1620.5	1233.0	1060.9	974.3	933.3	907.1	883.2	875.2	876.3	882.0
2335.0	20°	1683.1	1226.2	1019.9	923.1	886.6	863.8	839.9	831.9	834.2	835.3
2348.7	22.5°	1716.2	1215.9	974.3	871.8	841.0	818.2	796.6	795.4	795.4	802.3
2274.6	25°	1716.2	1194.3	933.3	822.8	795.4	774.9	748.7	753.3	755.5	764.7
2159.5	27.5°	1675.2	1153.2	900.3	780.6	752.1	731.6	707.7	713.4	716.8	727.0
2045.5	30°	1622.7	1104.2	862.7	740.7	707.7	692.9	672.3	674.6	679.2	690.6
1939.5	32.5°	1566.9	1046.1	831.9	700.8	667.8	656.4	633.6	637.0	641.6	654.1
1834.7	35°	1505.4	977.8	795.4	664.4	631.3	622.2	596.0	598.3	605.1	618.8
1721.9	37.5°	1440.4	921.9	759.0	629.0	594.9	585.7	558.4	560.7	568.6	584.6
1603.4	40°	1376.6	867.2	720.2	591.4	557.3	549.3	519.6	521.9	531.0	548.1
1483.7	42.5°	1307.1	825.0	670.1	552.7	516.2	508.2	480.9	484.3	494.6	511.7
1373.2	45°	1223.9	797.7	614.2	516.2	475.2	467.2	442.2	449.0	460.4	477.5
1278.6	47.5°	1138.4	786.3	567.5	477.5	433.0	426.2	405.7	417.1	429.6	443.3
1197.7	50°	1056.4	771.5	519.6	441.0	396.6	389.7	376.1	390.9	403.4	415.9
1139.6	52.5°	962.9	739.6	476.3	409.1	365.8	363.5	356.7	370.4	381.8	393.2
1089.4	55°	866.1	688.3	438.7	380.6	339.6	341.9	338.5	349.8	359.0	369.2
1043.8	57.5°	781.7	623.3	409.1	349.8	316.8	323.6	319.1	324.8	330.5	343.0
989.1	60°	696.3	545.9	376.1	313.4	294.0	302.0	289.5	288.3	290.6	294.0
908.2	62.5°	581.2	464.9	335.0	281.5	268.9	272.4	248.4	230.2	230.2	233.6
795.4	65°	467.2	389.7	289.5	245.0	234.8	232.5	198.3	173.2	170.9	181.2
664.4	67.5°	384.0	323.6	243.9	204.0	197.1	199.4	174.4	149.3	147.0	158.4
541.3	70°	317.9	261.0	194.9	157.3	164.1	174.4	149.3	125.4	121.9	132.2
439.9	72.5°	253.0	204.0	149.3	116.2	135.6	148.1	121.9	99.1	96.9	106.0
339.6	75°	185.8	145.9	101.4	84.3	104.8	116.2	88.9	70.7	67.2	75.2
226.8	77.5°	115.1	82.0	63.8	50.1	71.8	77.5	46.7	41.0	39.9	45.6
137.9	80°	53.6	35.3	30.8	17.1	26.2	30.8	19.4	21.7	22.8	27.3
69.5	82.5°	14.8	5.7	1.1	0.0	0.0	9.1	4.6	9.1	11.4	17.1
5.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	10.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
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-SB5A-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2290.5	0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2076.3	2.5°	2124.2	2169.7	2242.7	2317.9	2392.0	2467.2	2540.1	2566.3
1837.0	5°	1927.0	2031.9	2176.6	2331.6	2491.1	2652.9	2801.1	2868.3
1589.7	7.5°	1707.1	1857.5	2075.2	2317.9	2572.0	2826.1	3059.7	3168.0
1344.7	10°	1472.3	1662.6	1911.1	2239.3	2603.9	2954.9	3276.3	3416.4
1129.3	12.5°	1249.0	1448.4	1723.0	2116.2	2578.8	3029.0	3415.3	3580.5
977.8	15°	1062.1	1238.7	1535.0	1970.3	2497.9	3033.5	3481.4	3662.6
893.4	17.5°	921.9	1037.0	1343.6	1808.5	2392.0	2991.4	3504.2	3697.9
847.8	20°	852.4	884.3	1095.1	1601.1	2292.8	2951.5	3527.0	3731.0
811.4	22.5°	811.4	819.4	895.7	1333.3	2174.3	2939.0	3566.9	3776.5
778.3	25°	778.3	780.6	801.1	1056.4	1993.1	2931.0	3628.4	3839.2
744.1	27.5°	745.3	745.3	756.7	851.3	1747.0	2896.8	3708.2	3914.4
710.0	30°	712.2	712.2	720.2	753.3	1458.7	2829.6	3803.9	4012.4
675.8	32.5°	678.0	678.0	684.9	708.8	1164.6	2745.2	3891.6	4111.6
640.4	35°	643.9	641.6	650.7	675.8	926.5	2638.1	3979.4	4218.7
605.1	37.5°	607.4	606.3	615.4	643.9	800.0	2513.9	4045.5	4364.6
569.8	40°	568.6	568.6	578.9	609.7	763.5	2357.8	4150.3	4574.2
533.3	42.5°	533.3	531.0	542.4	580.0	736.2	2208.5	4338.3	4879.6
500.3	45°	499.1	494.6	504.8	551.6	688.3	2156.1	4689.3	5330.9
468.4	47.5°	467.2	455.8	464.9	517.4	645.0	2352.1	5263.7	5956.5
439.9	50°	441.0	419.4	427.3	483.2	611.9	2777.1	6009.0	6787.3
413.7	52.5°	413.7	385.2	389.7	441.0	582.3	3181.7	6816.9	7883.6
387.5	55°	385.2	353.3	355.5	398.8	540.2	3242.1	7605.5	9378.7
357.8	57.5°	353.3	323.6	323.6	360.1	509.4	2810.2	8211.7	11233.9
321.4	60°	317.9	298.6	292.9	329.3	536.7	1982.9	8282.4	12430.4
274.6	62.5°	279.2	268.9	261.0	299.7	557.3	1174.9	7713.8	12141.0
216.5	65°	234.8	232.5	226.8	329.3	469.5	694.0	6622.0	11253.3
184.6	67.5°	197.1	193.7	193.7	345.3	356.7	436.5	5173.7	10031.6
157.3	70°	169.8	157.3	157.3	261.0	216.5	302.0	3612.4	8713.2
129.9	72.5°	142.4	128.8	119.7	208.5	161.8	221.1	2257.5	7461.9
99.1	75°	114.0	103.7	92.3	137.9	120.8	167.5	1311.6	6182.2
62.7	77.5°	82.0	77.5	65.0	101.4	87.7	120.8	780.6	4770.2
38.7	80°	42.2	43.3	41.0	58.1	59.3	82.0	444.4	3264.9
25.1	82.5°	25.1	19.4	21.7	28.5	34.2	46.7	167.5	1919.0
18.2	85°	16.0	10.3	10.3	13.7	17.1	18.2	51.3	778.3
9.1	87.5°	8.0	3.4	4.6	6.8	5.7	4.6	2.3	196.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)