

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: P954711

Luminaire Tested: **GALN-SB7D-850-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954711  
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-SB7D-850-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

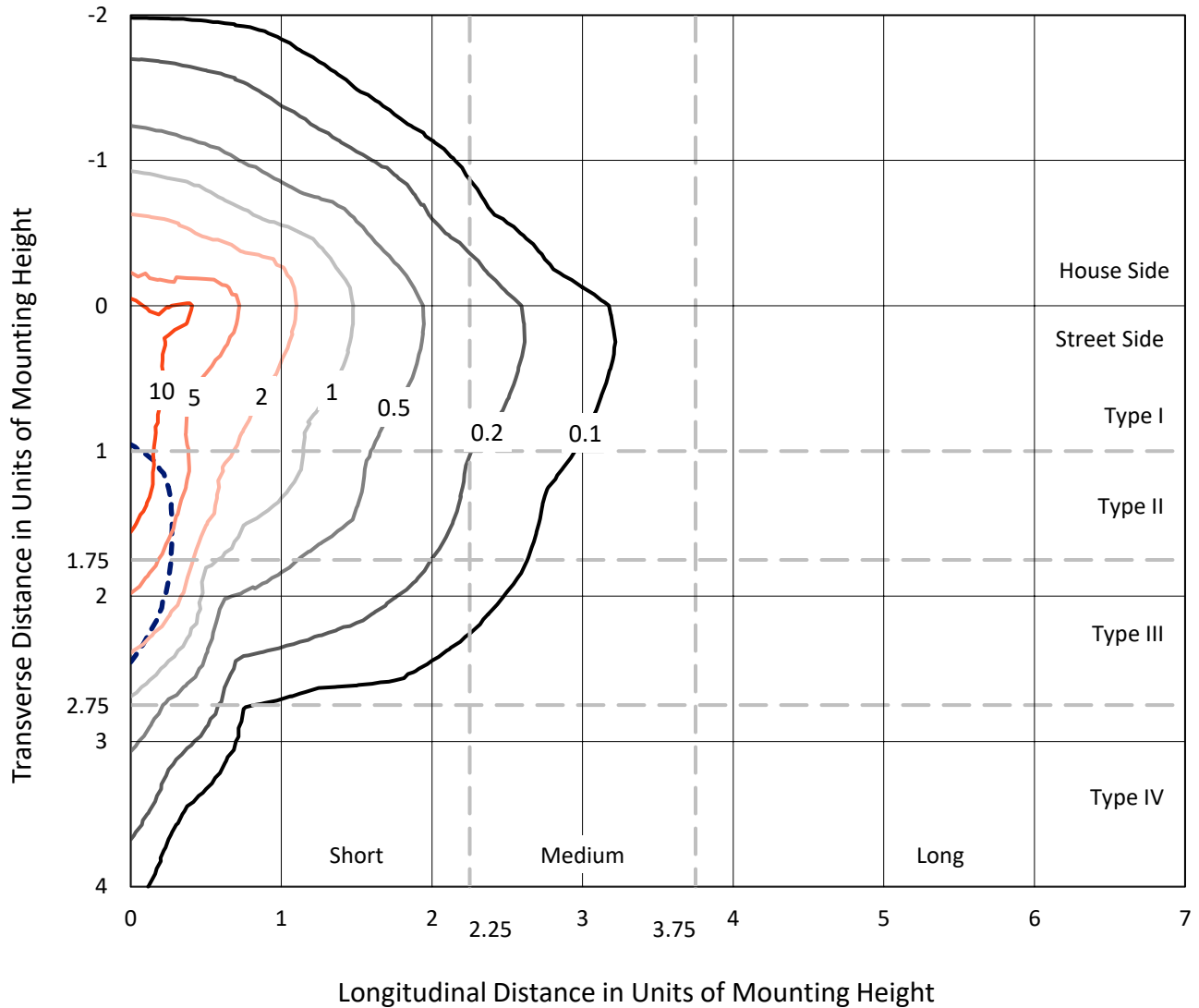
Lumens per Lamp: N/A  
Luminaire Lumens: 52830 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

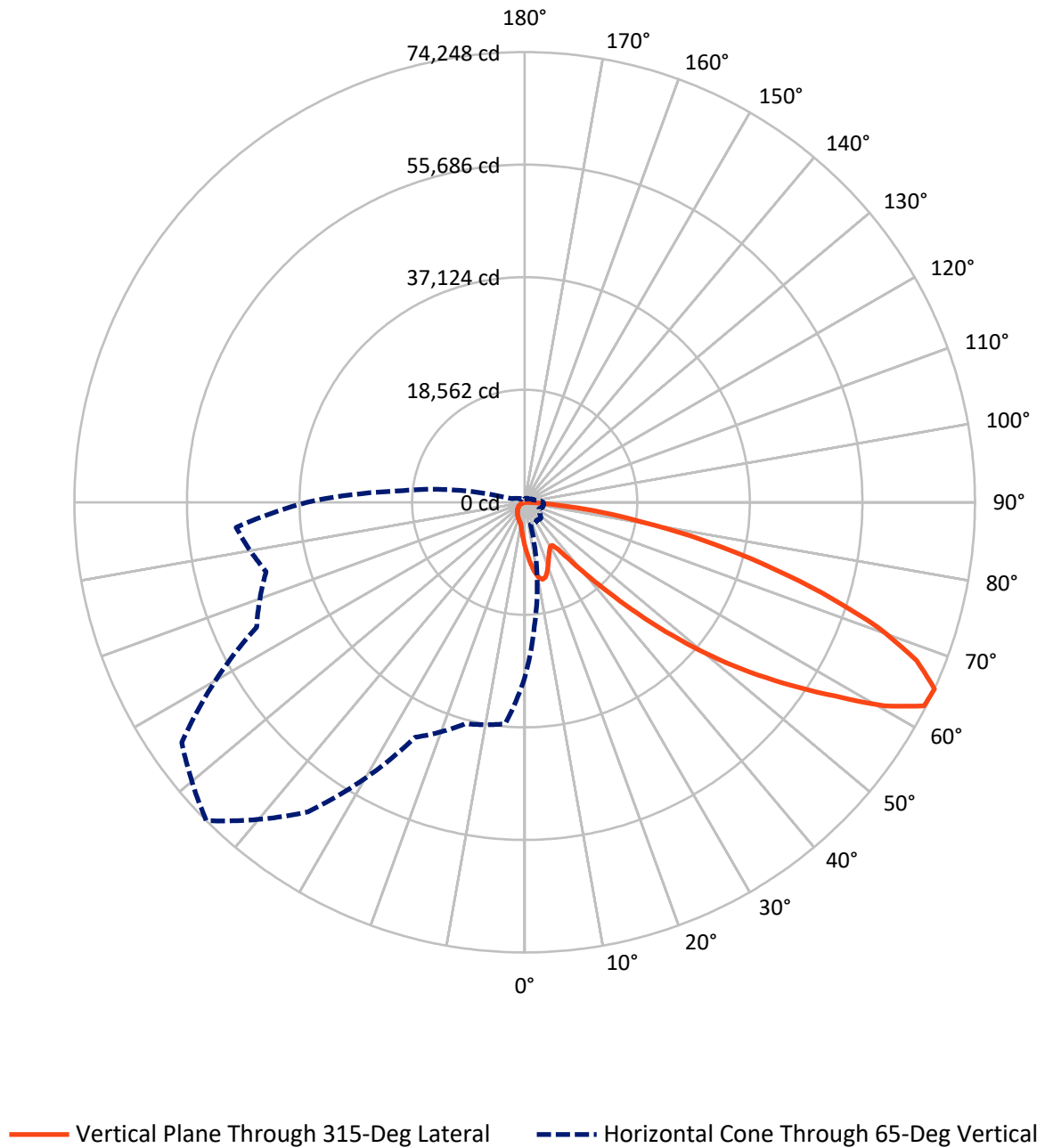
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	7398.4	0.0	7398.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	45431.5	0.0	45431.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	52830.0	0.0	52830.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	720.2	1.4
10°-20°	2159.0	4.1
20°-30°	3180.6	6.0
30°-40°	4086.2	7.7
40°-50°	6608.7	12.5
50°-60°	11588.9	21.9
60°-70°	14500.9	27.4
70°-80°	8473.6	16.0
80°-90°	1511.8	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°	52830.0	100.0
0°-180°	52830.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P954711

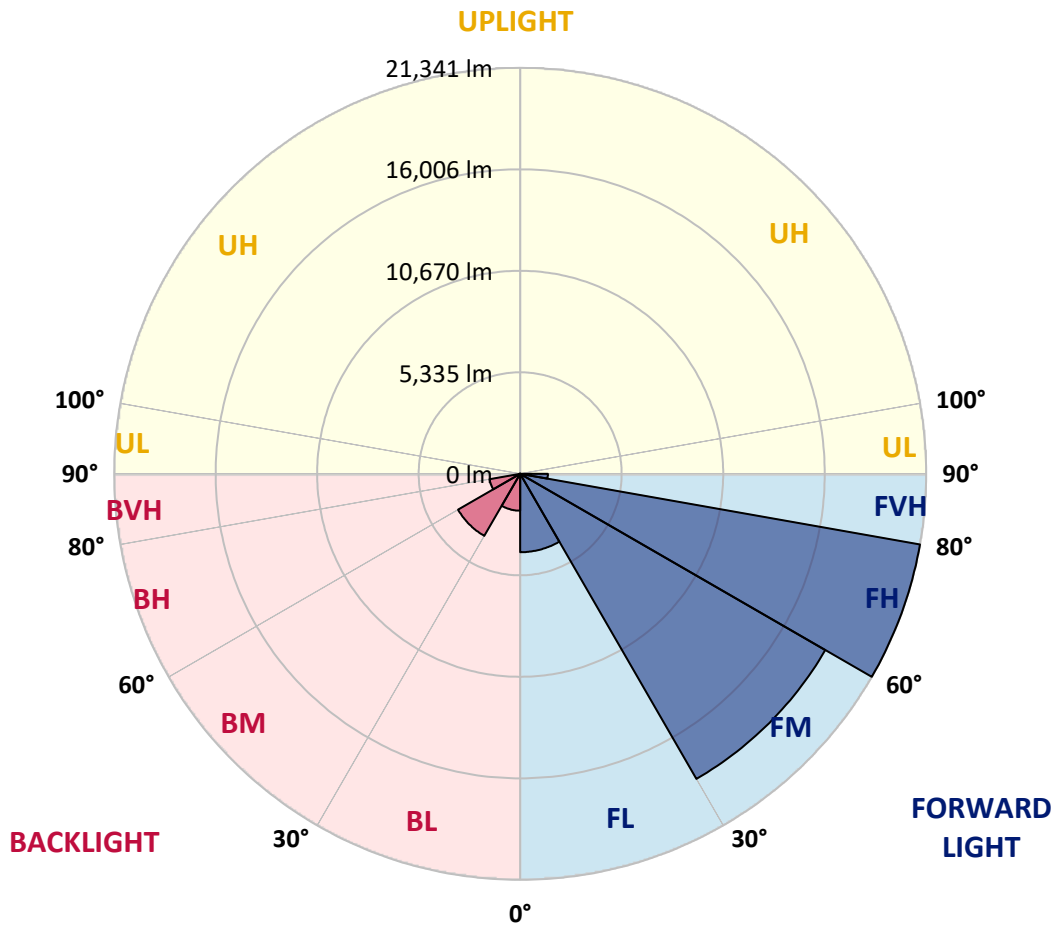
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4120.6	7.8			
FM (30°-60°)	18516.3	35.0			
FH (60°-80°)	21340.9	40.4			G5
FVH (80°-90°)	1453.8	2.8			G5
BL (0°-30°)	1939.3	3.7	B3/2500		
BM (30°-60°)	3767.5	7.1	B3/5000		
BH (60°-80°)	1633.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	58.1	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°	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3
2.5°	8265.2	8123.2	8039.5	7832.1	7624.6	7457.2	7231.6	7082.3	6904.0	6733.0
5°	9211.4	8982.1	8705.5	8327.0	7981.3	7628.3	7286.1	6947.7	6591.0	6263.5
7.5°	10012.1	9680.9	9193.2	8691.0	8250.6	7824.8	7424.4	6976.8	6543.7	6030.5
10°	10623.5	10201.3	9560.8	8902.1	8396.2	7966.7	7577.3	7198.8	6762.1	6143.4
12.5°	10994.7	10543.4	9782.8	9011.2	8432.6	7952.2	7650.1	7482.7	7311.6	6696.6
15°	11267.7	10780.0	9939.3	9087.7	8348.9	7759.3	7537.3	7704.7	7901.2	7508.2
17.5°	11551.6	11038.4	10143.1	9120.4	8123.2	7384.4	7289.8	7722.9	8177.8	8159.6
20°	11820.9	11311.4	10321.4	9098.6	7759.3	6929.5	7013.2	7566.4	8094.1	8316.1
22.5°	12130.2	11591.6	10492.5	9014.9	7286.1	6503.7	6765.7	7318.9	7781.1	8043.2
25°	12508.7	11944.6	10732.7	8891.1	6776.6	6150.6	6514.6	7031.4	7406.3	7588.2
27.5°	12916.4	12366.8	11053.0	8825.6	6365.4	5899.5	6230.7	6689.3	7024.1	7151.5
30°	13422.2	12858.1	11431.5	8752.8	6096.1	5753.9	5935.9	6292.6	6620.1	6747.5
32.5°	13975.4	13404.0	11795.4	8578.1	5932.3	5644.8	5648.4	5874.0	6172.5	6325.3
35°	14666.9	14059.1	12184.8	8196.0	5801.3	5517.4	5368.2	5477.3	5724.8	5906.8
37.5°	15653.2	14918.0	12661.6	7650.1	5608.4	5320.9	5073.4	5098.8	5288.1	5488.3
40°	17014.4	16071.7	13222.1	7082.3	5331.8	5044.3	4749.5	4738.5	4876.8	5073.4
42.5°	18855.9	17596.7	13895.4	6540.1	5066.1	4709.4	4407.4	4389.2	4498.3	4669.4
45°	21287.1	19547.4	14721.5	6074.2	4858.6	4381.9	4083.4	4076.2	4167.2	4316.4
47.5°	24398.8	22258.8	15547.7	5757.6	4749.5	4123.5	3817.8	3832.3	3912.4	4047.1
50°	28427.6	25792.7	15798.8	5597.5	4749.5	3985.2	3581.2	3654.0	3719.5	3821.4
52.5°	33257.2	29184.6	14969.0	5451.9	4778.6	4003.4	3381.0	3537.5	3584.8	3672.2
55°	37733.7	30847.9	12869.0	5251.7	4785.9	4116.2	3210.0	3442.9	3530.3	3563.0
57.5°	40332.2	30276.5	10405.1	4913.2	4756.7	4192.6	3100.8	3326.4	3493.9	3515.7
60°	39837.3	28271.1	7661.0	4654.8	4542.0	4163.5	3068.0	3148.1	3413.8	3446.5
62.5°	36023.1	24908.3	5317.2	4454.7	4068.9	4036.1	3057.1	2867.9	3239.1	3319.2
65°	28955.3	19609.3	3755.9	3836.0	3566.6	3759.5	2998.9	2576.7	3028.0	3137.2
67.5°	21006.8	13269.4	2711.4	3108.1	3231.8	3311.9	2867.9	2365.6	2787.8	2933.4
70°	13480.5	7166.0	1903.4	2052.6	2722.3	2813.3	2642.2	2176.4	2544.0	2711.4
72.5°	9582.6	4232.7	1368.4	1437.6	2187.3	2343.8	2325.6	1965.3	2260.1	2463.9
75°	6612.9	2332.9	924.4	1026.3	1586.8	1903.4	1794.2	1688.7	1914.3	2121.8
77.5°	4145.3	1044.5	553.2	713.3	1040.9	1495.8	1230.1	1306.6	1492.2	1685.1
80°	2307.4	404.0	309.4	473.1	567.8	1088.2	680.6	840.7	1099.1	1237.4
82.5°	502.2	51.0	138.3	203.8	222.0	633.3	360.3	487.7	691.5	680.6
85°	0.0	0.0	25.5	29.1	14.6	273.0	131.0	160.1	225.6	211.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954711  
 CATALOG NUMBER: GALN-SB7D-850-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7315.3	0°	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3
6580.1	2.5°	6551.0	6372.7	6241.6	6176.1	6121.5	6172.5	6201.6	6201.6	6325.3	6398.1
6063.3	5°	5935.9	5615.6	5371.8	5208.0	5109.8	5142.5	5178.9	5218.9	5375.4	5481.0
5757.6	7.5°	5510.1	5018.8	4647.6	4418.3	4298.2	4316.4	4341.8	4374.6	4527.5	4633.0
5801.3	10°	5430.0	4724.0	4199.9	3897.8	3752.3	3726.8	3712.2	3701.3	3792.3	3872.4
6296.2	12.5°	5757.6	4738.5	4007.0	3639.4	3461.1	3384.7	3297.3	3228.2	3242.7	3293.7
7045.9	15°	6343.5	4924.2	3945.1	3504.8	3282.8	3155.4	3053.5	2969.8	2951.6	2969.8
7701.0	17.5°	7013.2	5175.3	3937.9	3388.3	3111.7	2980.7	2897.0	2820.6	2795.1	2798.7
8068.6	20°	7457.2	5375.4	3916.0	3257.3	2947.9	2831.5	2758.7	2682.3	2656.8	2664.1
7966.7	22.5°	7500.9	5481.0	3883.3	3111.7	2784.2	2685.9	2613.1	2544.0	2540.3	2540.3
7584.6	25°	7264.3	5481.0	3814.1	2980.7	2627.7	2540.3	2474.8	2391.1	2405.7	2412.9
7151.5	27.5°	6896.7	5350.0	3683.1	2875.2	2493.0	2402.0	2336.5	2260.1	2278.3	2289.2
6747.5	30°	6532.8	5182.6	3526.6	2755.1	2365.6	2260.1	2212.8	2147.3	2154.5	2169.1
6347.2	32.5°	6194.3	5004.2	3341.0	2656.8	2238.3	2132.7	2096.3	2023.5	2034.4	2049.0
5954.1	35°	5859.5	4807.7	3122.6	2540.3	2121.8	2016.2	1987.1	1903.4	1910.7	1932.5
5561.1	37.5°	5499.2	4600.2	2944.3	2423.9	2009.0	1899.8	1870.7	1783.3	1790.6	1816.1
5153.4	40°	5120.7	4396.4	2769.6	2300.1	1888.9	1779.7	1754.2	1659.6	1666.9	1696.0
4753.1	42.5°	4738.5	4174.4	2635.0	2140.0	1765.1	1648.7	1623.2	1535.8	1546.8	1579.5
4403.7	45°	4385.5	3908.8	2547.6	1961.7	1648.7	1517.6	1492.2	1412.1	1433.9	1470.3
4108.9	47.5°	4083.4	3635.8	2511.2	1812.4	1524.9	1383.0	1361.1	1295.6	1332.0	1372.1
3857.8	50°	3825.0	3373.8	2463.9	1659.6	1408.5	1266.5	1244.7	1201.0	1248.3	1288.4
3686.7	52.5°	3639.4	3075.3	2362.0	1521.3	1306.6	1168.3	1161.0	1139.1	1182.8	1219.2
3559.4	55°	3479.3	2766.0	2198.2	1401.2	1215.6	1084.6	1091.8	1080.9	1117.3	1146.4
3482.9	57.5°	3333.7	2496.7	1990.8	1306.6	1117.3	1011.8	1033.6	1019.0	1037.2	1055.4
3402.9	60°	3159.0	2223.7	1743.3	1201.0	1000.8	939.0	964.5	924.4	920.8	928.1
3257.3	62.5°	2900.6	1856.1	1484.9	1070.0	898.9	858.9	869.8	793.4	735.2	735.2
3042.6	65°	2540.3	1492.2	1244.7	924.4	782.5	749.7	742.4	633.3	553.2	545.9
2809.6	67.5°	2121.8	1226.5	1033.6	778.8	651.5	629.6	636.9	556.8	476.8	469.5
2576.7	70°	1728.7	1015.4	833.4	622.3	502.2	524.1	556.8	476.8	400.3	389.4
2303.8	72.5°	1404.8	808.0	651.5	476.8	371.2	433.1	473.1	389.4	316.6	309.4
1965.3	75°	1084.6	593.2	465.8	323.9	269.3	334.8	371.2	283.9	225.6	214.7
1521.3	77.5°	724.2	367.6	262.0	203.8	160.1	229.3	247.5	149.2	131.0	127.4
1106.4	80°	440.4	171.1	112.8	98.3	54.6	83.7	98.3	61.9	69.1	72.8
589.6	82.5°	222.0	47.3	18.2	3.6	0.0	0.0	29.1	14.6	29.1	36.4
160.1	85°	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.2
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°
7315.3	0°	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3
6427.2	2.5°	6631.1	6783.9	6929.5	7162.4	7402.6	7639.2	7879.4	8112.3	8196.0	8257.9
5550.1	5°	5866.8	6154.3	6489.1	6951.3	7446.3	7955.8	8472.6	8945.7	9160.5	9306.0
4724.0	7.5°	5077.0	5451.9	5932.3	6627.4	7402.6	8214.2	9025.8	9771.9	10117.6	10397.9
3945.1	10°	4294.5	4702.2	5309.9	6103.3	7151.5	8316.1	9437.1	10463.4	10911.0	11264.1
3384.7	12.5°	3606.7	3988.8	4625.7	5502.8	6758.4	8236.0	9673.6	10907.4	11435.1	11831.8
2984.3	15°	3122.6	3392.0	3956.1	4902.3	6292.6	7977.6	9688.2	11118.5	11697.1	12112.0
2816.9	17.5°	2853.3	2944.3	3311.9	4290.9	5775.8	7639.2	9553.5	11191.3	11810.0	12195.7
2667.7	20°	2707.7	2722.3	2824.2	3497.5	5113.4	7322.5	9426.1	11264.1	11915.5	12239.4
2562.2	22.5°	2591.3	2591.3	2616.8	2860.6	4258.1	6944.0	9386.1	11391.4	12061.1	12261.3
2442.1	25°	2485.7	2485.7	2493.0	2558.5	3373.8	6365.4	9360.6	11588.0	12261.3	12315.8
2322.0	27.5°	2376.6	2380.2	2380.2	2416.6	2718.7	5579.3	9251.4	11842.7	12501.5	12388.6
2205.5	30°	2267.4	2274.6	2274.6	2300.1	2405.7	4658.5	9036.7	12148.4	12814.5	12483.3
2089.0	32.5°	2158.2	2165.5	2165.5	2187.3	2263.7	3719.5	8767.4	12428.7	13131.1	12523.3
1976.2	35°	2045.4	2056.3	2049.0	2078.1	2158.2	2958.9	8425.3	12708.9	13473.2	12650.7
1867.0	37.5°	1932.5	1939.8	1936.2	1965.3	2056.3	2554.9	8028.6	12920.0	13939.0	12934.6
1750.6	40°	1819.7	1816.1	1816.1	1848.8	1947.1	2438.4	7530.0	13254.8	14608.7	13433.2
1634.1	42.5°	1703.3	1703.3	1696.0	1732.4	1852.5	2351.1	7053.2	13855.3	15584.1	14226.6
1524.9	45°	1597.7	1594.1	1579.5	1612.3	1761.5	2198.2	6885.8	14976.3	17025.3	15511.3
1415.7	47.5°	1495.8	1492.2	1455.8	1484.9	1652.3	2059.9	7511.8	16810.6	19023.3	17400.1
1328.4	50°	1404.8	1408.5	1339.3	1364.8	1543.1	1954.4	8869.3	19190.7	21676.5	19944.1
1255.6	52.5°	1321.1	1321.1	1230.1	1244.7	1408.5	1859.8	10161.3	21771.1	25177.6	23492.6
1179.2	55°	1237.4	1230.1	1128.2	1135.5	1273.8	1725.1	10354.2	24289.6	29952.6	28831.6
1095.5	57.5°	1142.8	1128.2	1033.6	1033.6	1150.1	1626.8	8974.8	26225.8	35877.6	36678.2
939.0	60°	1026.3	1015.4	953.5	935.3	1051.8	1714.2	6332.6	26451.4	39699.0	47112.5
746.1	62.5°	877.1	891.7	858.9	833.4	957.2	1779.7	3752.3	24635.3	38774.5	50431.7
578.7	65°	691.5	749.7	742.4	724.2	1051.8	1499.4	2216.4	21148.8	35939.4	47753.0
505.9	67.5°	589.6	629.6	618.7	618.7	1102.7	1139.1	1393.9	16523.0	32037.9	44575.8
422.2	70°	502.2	542.3	502.2	502.2	833.4	691.5	964.5	11537.0	27827.1	41060.1
338.5	72.5°	414.9	454.9	411.3	382.1	666.0	516.8	706.1	7209.7	23831.0	37398.8
240.2	75°	316.6	363.9	331.2	294.8	440.4	385.8	535.0	4189.0	19743.9	31997.9
145.6	77.5°	200.2	262.0	247.5	207.4	323.9	280.2	385.8	2493.0	15234.7	25002.9
87.3	80°	123.7	134.7	138.3	131.0	185.6	189.3	262.0	1419.4	10427.0	17425.6
54.6	82.5°	80.1	80.1	61.9	69.1	91.0	109.2	149.2	535.0	6128.8	10609.0
32.8	85°	58.2	51.0	32.8	32.8	43.7	54.6	58.2	163.8	2485.7	4189.0
14.6	87.5°	29.1	25.5	10.9	14.6	21.8	18.2	14.6	7.3	626.0	1339.3
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: P954711  
 CATALOG NUMBER: GALN-SB7D-850-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
7315.3	0°	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3	7315.3
8396.2	2.5°	8469.0	8581.8	8589.1	8589.1	8490.8	8487.2	8287.0	8265.2
9633.6	5°	9972.1	10044.8	10063.0	10026.6	9830.1	9684.5	9295.1	9211.4
10896.5	7.5°	11347.8	11493.3	11493.3	11406.0	11085.7	10787.3	10223.2	10012.1
11941.0	10°	12446.9	12614.3	12577.9	12399.6	11995.6	11584.3	10900.1	10623.5
12574.2	12.5°	12981.9	13152.9	13058.3	12854.5	12461.4	12028.3	11307.7	10994.7
12756.2	15°	12970.9	12923.6	12825.4	12799.9	12610.6	12283.1	11609.8	11267.7
12643.4	17.5°	12508.7	12108.4	12032.0	12286.7	12526.9	12446.9	11871.8	11551.6
12374.1	20°	11777.2	11078.4	11009.3	11497.0	12181.2	12530.6	12115.7	11820.9
11984.7	22.5°	11005.7	10252.3	10092.2	10630.8	11660.8	12556.1	12425.0	12130.2
11555.2	25°	10274.1	9517.1	9357.0	9859.2	11082.1	12512.4	12759.9	12508.7
11144.0	27.5°	9662.7	8931.2	8782.0	9284.2	10525.2	12388.6	13094.7	12916.4
10736.3	30°	9189.6	8512.6	8403.5	8887.5	10044.8	12235.8	13520.5	13422.2
10357.8	32.5°	8913.0	8418.0	8458.0	8854.7	9786.4	12068.4	13928.1	13975.4
10172.2	35°	9185.9	9207.8	9557.2	9720.9	10026.6	12042.9	14481.3	14666.9
10394.2	37.5°	10543.4	11300.4	12024.7	11890.0	11202.2	12337.7	15307.5	15653.2
11362.3	40°	12854.5	14408.5	15584.1	15070.9	13338.5	13240.3	16497.6	17014.4
13080.1	42.5°	15678.7	18313.6	20249.8	18874.1	16093.6	14819.8	18197.2	18855.9
15158.2	45°	18659.4	23128.6	26178.5	23317.9	19030.6	17032.6	20770.3	21287.1
17105.3	47.5°	21800.2	28980.8	32926.0	28245.7	21752.9	19551.0	24278.7	24398.8
18950.5	50°	25235.8	35397.1	39804.5	33169.8	24380.6	22437.1	28565.9	28427.6
21101.4	52.5°	28507.7	41995.4	46537.5	38115.8	26688.0	26018.3	33541.0	33257.2
24042.1	55°	31630.3	48590.1	53310.4	42868.9	28864.4	30749.6	39451.5	37733.7
28282.1	57.5°	35251.6	54518.7	60290.9	47643.8	31906.9	36893.0	46060.7	40332.2
36401.6	60°	40605.2	61255.3	68184.8	54187.5	37693.6	43349.3	48430.0	39837.3
46126.2	62.5°	47440.0	67449.7	73924.2	60600.2	43505.8	44564.9	44939.7	36023.1
44142.7	65°	48768.4	69018.2	74248.1	62314.4	42756.1	37802.8	36689.1	28955.3
39429.6	67.5°	45245.5	66183.1	69720.7	59122.6	37821.0	29213.7	27532.3	21006.8
36336.1	70°	41293.0	60778.6	61830.4	53696.2	33264.4	21487.2	18593.9	13480.5
34218.0	72.5°	37242.3	53568.8	51392.5	46632.1	29235.6	15645.9	13411.3	9582.6
31200.9	75°	32431.0	44088.1	40481.4	38745.4	24205.9	12279.5	9702.7	6612.9
26837.2	77.5°	25971.0	31033.5	30069.0	30032.6	18189.9	8971.2	6474.6	4145.3
20966.8	80°	18320.9	20140.6	19649.3	22619.1	12203.0	6507.3	3897.8	2307.4
14594.1	82.5°	8869.3	11136.7	11431.5	13469.5	5935.9	3828.7	898.9	502.2
5706.6	85°	3472.0	5371.8	4531.1	5113.4	1666.9	1066.4	21.8	0.0
939.0	87.5°	389.4	622.3	571.4	451.3	203.8	43.7	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)