

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: P947569

Luminaire Tested: **GALN-SB2D-850-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947569  
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-SB2D-850-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

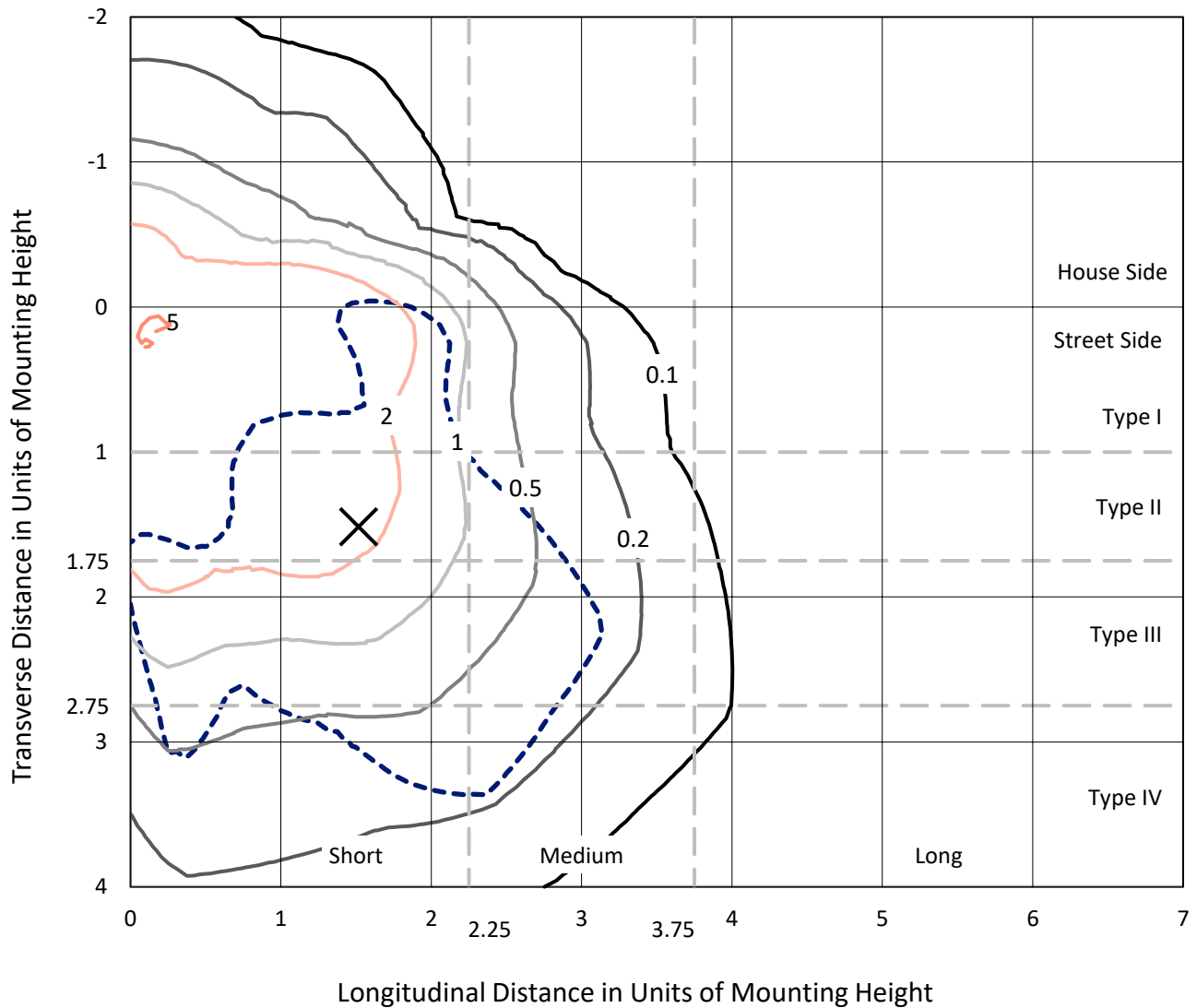
Lumens per Lamp: N/A  
Luminaire Lumens: 14856 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

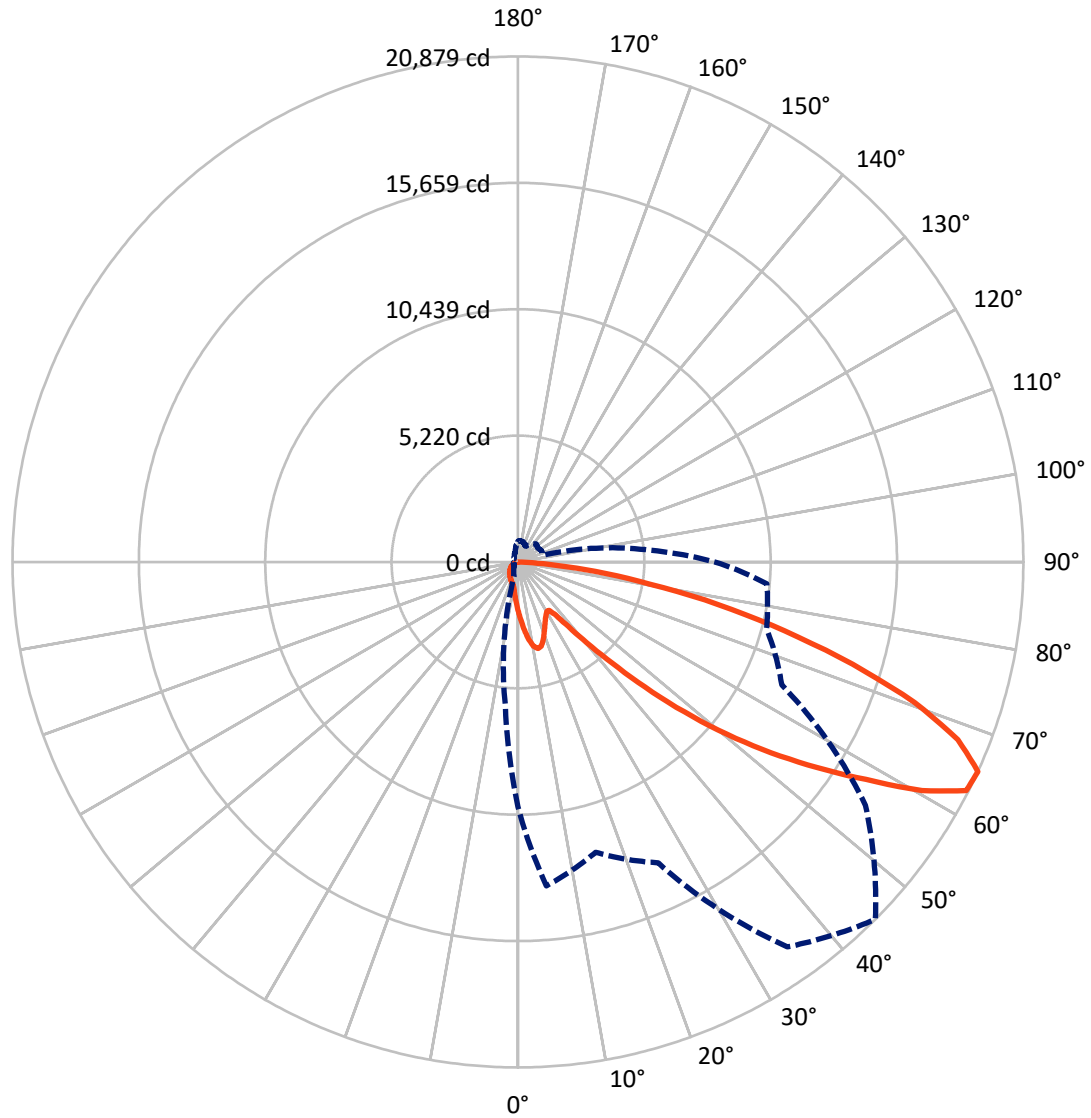
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2952.9	0.0	2952.9
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	11903.1	0.0	11903.1
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	14856.0	0.0	14856.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	1.4
10°-20°	607.1	4.1
20°-30°	894.4	6.0
30°-40°	1149.1	7.7
40°-50°	1858.4	12.5
50°-60°	3258.8	21.9
60°-70°	4077.7	27.4
70°-80°	2382.8	16.0
80°-90°	425.1	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°	14856.0	100.0
0°-180°	14856.0	100.0



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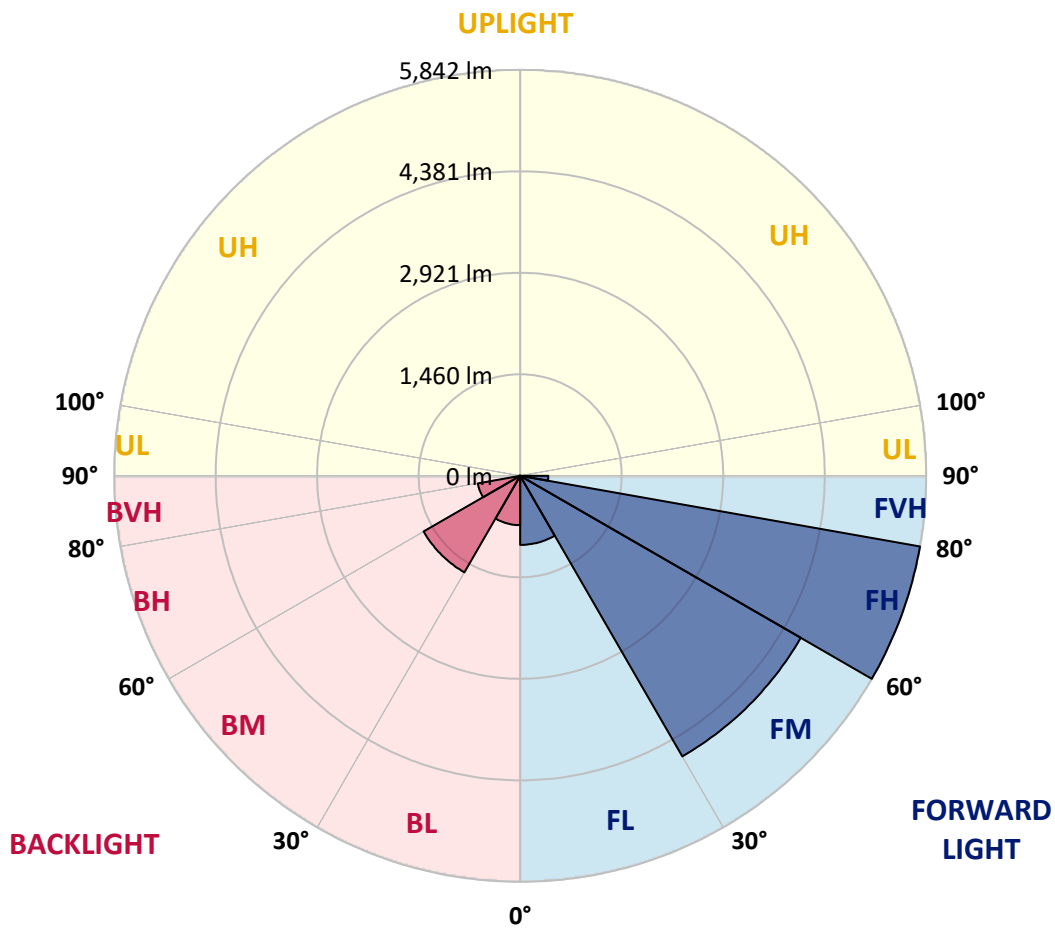
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.0	6.7			
FM (30°-60°)	4662.0	31.4			
FH (60°-80°)	5841.8	39.3			G3/7500
FVH (80°-90°)	405.2	2.7			G3/500
BL (0°-30°)	710.0	4.8	B2/1000		
BM (30°-60°)	1604.3	10.8	B2/2500		
BH (60°-80°)	618.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	19.9	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°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
2.5°	2304.7	2322.1	2361.0	2381.5	2413.2	2415.3	2415.3	2387.6	2386.6	2330.3
5°	2576.0	2616.9	2709.0	2804.2	2824.6	2829.8	2819.5	2764.3	2723.3	2613.8
7.5°	2845.1	2923.9	3064.1	3191.0	3232.0	3232.0	3207.4	3117.3	3033.4	2874.8
10°	3068.2	3167.5	3357.9	3500.1	3547.2	3537.0	3486.8	3373.2	3257.6	3065.2
12.5°	3215.6	3327.1	3535.9	3650.6	3698.7	3672.0	3614.7	3504.2	3382.4	3179.8
15°	3289.3	3406.0	3587.1	3647.5	3634.2	3606.5	3599.4	3546.2	3454.1	3264.7
17.5°	3321.0	3429.5	3555.4	3517.5	3404.9	3383.4	3455.1	3522.6	3500.1	3338.4
20°	3350.7	3441.8	3479.6	3311.8	3115.3	3095.9	3233.0	3425.4	3523.6	3407.0
22.5°	3391.6	3447.9	3370.1	3094.8	2883.0	2838.0	2989.4	3279.0	3530.8	3494.0
25°	3447.9	3463.3	3249.4	2889.1	2676.3	2631.2	2772.5	3116.3	3518.5	3588.1
27.5°	3515.5	3483.7	3133.7	2717.2	2511.5	2469.5	2610.8	2959.7	3483.7	3682.3
30°	3603.5	3510.3	3019.1	2584.1	2393.8	2363.1	2499.2	2824.6	3440.7	3802.0
32.5°	3692.5	3521.6	2912.7	2506.4	2367.2	2378.4	2490.0	2752.0	3393.7	3916.6
35°	3788.7	3557.4	2860.5	2583.1	2589.3	2687.5	2733.6	2819.5	3386.5	4072.2
37.5°	3919.7	3637.2	2922.9	2964.9	3177.7	3381.4	3343.5	3150.1	3469.4	4304.5
40°	4108.0	3777.5	3195.1	3614.7	4051.7	4382.3	4238.0	3750.8	3723.2	4639.2
42.5°	4382.3	4000.6	3678.2	4408.9	5149.9	5694.3	5307.5	4525.6	4167.4	5117.1
45°	4787.6	4361.8	4262.6	5247.1	6503.9	7361.5	6557.1	5351.5	4789.6	5840.7
47.5°	5349.4	4893.0	4810.1	6130.3	8149.5	9258.9	7942.8	6117.0	5497.8	6827.3
50°	6095.5	5608.4	5329.0	7096.4	9953.8	11193.2	9327.5	6855.9	6309.4	8032.8
52.5°	7080.0	6606.2	5933.8	8016.5	11809.3	13086.5	10718.3	7504.8	7316.5	9431.9
55°	8422.8	8107.6	6760.7	8894.6	13663.7	14991.1	12054.9	8116.8	8646.9	11093.9
57.5°	10088.9	10314.1	7953.0	9912.9	15330.9	16954.0	13397.6	8972.4	10374.4	12952.4
60°	11163.5	13248.2	10236.3	11418.3	17225.2	19173.8	15237.7	10599.6	12190.0	13618.7
62.5°	10903.6	14181.6	12970.9	13340.3	18967.1	20787.8	17041.0	12234.0	12531.8	12637.2
65°	10106.3	13428.3	12413.1	13713.9	19408.2	20878.9	17523.1	12023.2	10630.3	10317.1
67.5°	9009.2	12534.9	11087.8	12723.2	18611.0	19605.7	16625.5	10635.4	8215.0	7742.2
70°	7825.1	11546.3	10217.9	11611.8	17091.2	17386.9	15099.6	9354.1	6042.3	5228.7
72.5°	6701.4	10516.7	9622.2	10472.7	15063.8	14451.8	13113.1	8221.2	4399.7	3771.3
75°	5552.1	8997.9	8773.8	9119.7	12397.7	11383.5	10895.4	6806.8	3453.0	2728.4
77.5°	4284.0	7030.9	7546.7	7303.1	8726.7	8455.5	8445.3	5115.1	2522.7	1820.7
80°	2932.1	4900.2	5895.9	5151.9	5663.6	5525.5	6360.6	3431.5	1829.9	1096.1
82.5°	1723.4	2983.3	4103.9	2494.1	3131.7	3214.6	3787.7	1669.2	1076.6	252.8
85°	699.0	1178.0	1604.7	976.3	1510.6	1274.2	1437.9	468.7	299.9	6.1
87.5°	176.0	376.6	264.0	109.5	175.0	160.7	126.9	57.3	12.3	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°
2057.1	0°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
2324.2	2.5°	2284.3	2260.7	2202.4	2144.1	2097.0	2033.5	1991.6	1941.4	1893.3	1850.3
2590.3	5°	2525.8	2448.0	2341.6	2244.4	2145.1	2048.9	1953.7	1853.4	1761.3	1705.0
2815.4	7.5°	2722.3	2585.2	2443.9	2320.1	2200.4	2087.8	1961.9	1840.1	1695.8	1619.1
2987.4	10°	2868.7	2688.5	2503.3	2361.0	2240.3	2130.8	2024.3	1901.5	1727.5	1631.3
3091.8	12.5°	2964.9	2751.0	2534.0	2371.3	2236.2	2151.2	2104.2	2056.1	1883.1	1770.5
3168.5	15°	3031.4	2795.0	2555.5	2347.7	2181.9	2119.5	2166.6	2221.9	2111.3	1981.3
3248.3	17.5°	3104.0	2852.3	2564.7	2284.3	2076.5	2049.9	2171.7	2299.6	2294.5	2165.6
3324.1	20°	3180.8	2902.4	2558.6	2181.9	1948.6	1972.1	2127.7	2276.1	2338.5	2268.9
3411.1	22.5°	3259.6	2950.5	2535.0	2048.9	1828.9	1902.5	2058.1	2188.1	2261.8	2240.3
3517.5	25°	3358.9	3018.1	2500.2	1905.6	1729.6	1831.9	1977.3	2082.7	2133.8	2132.8
3632.1	27.5°	3477.6	3108.1	2481.8	1790.0	1659.0	1752.1	1881.1	1975.2	2011.0	2011.0
3774.4	30°	3615.8	3214.6	2461.3	1714.2	1618.0	1669.2	1769.5	1861.6	1897.4	1897.4
3929.9	32.5°	3769.3	3316.9	2412.2	1668.2	1587.3	1588.4	1651.8	1735.7	1778.7	1784.9
4124.4	35°	3953.5	3426.4	2304.7	1631.3	1551.5	1509.5	1540.3	1609.8	1661.0	1674.3
4401.7	37.5°	4195.0	3560.5	2151.2	1577.1	1496.2	1426.7	1433.8	1487.0	1543.3	1563.8
4784.5	40°	4519.4	3718.1	1991.6	1499.3	1418.5	1335.6	1332.5	1371.4	1426.7	1449.2
5302.4	42.5°	4948.3	3907.4	1839.1	1424.6	1324.3	1239.4	1234.2	1265.0	1313.1	1336.6
5986.0	45°	5496.8	4139.7	1708.1	1366.3	1232.2	1148.3	1146.2	1171.8	1213.8	1238.3
6861.0	47.5°	6259.3	4372.1	1619.1	1335.6	1159.5	1073.6	1077.7	1100.2	1138.0	1155.4
7994.0	50°	7253.0	4442.7	1574.0	1335.6	1120.6	1007.0	1027.5	1045.9	1074.6	1084.8
9352.0	52.5°	8206.8	4209.3	1533.1	1343.8	1125.8	950.8	994.8	1008.1	1032.6	1036.7
10610.9	55°	8674.5	3618.8	1476.8	1345.8	1157.5	902.7	968.2	992.7	1001.9	1000.9
11341.6	57.5°	8513.9	2926.0	1381.6	1337.6	1179.0	872.0	935.4	982.5	988.6	979.4
11202.4	60°	7950.0	2154.3	1309.0	1277.2	1170.8	862.7	885.3	960.0	969.2	956.9
10129.8	62.5°	7004.3	1495.2	1252.7	1144.2	1135.0	859.7	806.5	910.8	933.4	916.0
8142.4	65°	5514.2	1056.2	1078.7	1003.0	1057.2	843.3	724.6	851.5	882.2	855.6
5907.2	67.5°	3731.4	762.5	874.0	908.8	931.3	806.5	665.2	783.9	824.9	790.1
3790.8	70°	2015.1	535.3	577.2	765.5	791.1	743.0	612.0	715.4	762.5	724.6
2694.7	72.5°	1190.2	384.8	404.3	615.1	659.1	654.0	552.6	635.5	692.9	647.8
1859.6	75°	656.0	259.9	288.6	446.2	535.3	504.5	474.9	538.3	596.7	552.6
1165.7	77.5°	293.7	155.6	200.6	292.7	420.6	345.9	367.4	419.6	473.8	427.8
648.9	80°	113.6	87.0	133.0	159.7	306.0	191.4	236.4	309.1	348.0	311.1
141.2	82.5°	14.3	38.9	57.3	62.4	178.1	101.3	137.1	194.5	191.4	165.8
0.0	85°	0.0	7.2	8.2	4.1	76.8	36.8	45.0	63.5	59.4	45.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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°
2057.1	0°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
1842.2	2.5°	1792.0	1755.2	1736.7	1721.4	1735.7	1743.9	1743.9	1778.7	1799.2	1807.4
1669.2	5°	1579.1	1510.6	1464.5	1436.9	1446.1	1456.3	1467.6	1511.6	1541.3	1560.7
1549.5	7.5°	1411.3	1306.9	1242.4	1208.7	1213.8	1220.9	1230.2	1273.1	1302.8	1328.4
1526.9	10°	1328.4	1181.0	1096.1	1055.1	1048.0	1043.9	1040.8	1066.4	1088.9	1109.4
1619.1	12.5°	1332.5	1126.8	1023.4	973.3	951.8	927.2	907.8	911.9	926.2	951.8
1783.8	15°	1384.7	1109.4	985.6	923.1	887.3	858.7	835.1	830.0	835.1	839.2
1972.1	17.5°	1455.3	1107.3	952.8	875.0	838.2	814.6	793.2	786.0	787.0	792.1
2097.0	20°	1511.6	1101.2	916.0	829.0	796.2	775.8	754.3	747.1	749.1	750.2
2109.3	22.5°	1541.3	1092.0	875.0	782.9	755.3	734.8	715.4	714.3	714.3	720.5
2042.8	25°	1541.3	1072.5	838.2	738.9	714.3	695.9	672.4	676.5	678.5	686.7
1939.4	27.5°	1504.4	1035.7	808.5	701.0	675.5	657.0	635.5	640.7	643.7	652.9
1837.0	30°	1457.4	991.7	774.7	665.2	635.5	622.2	603.8	605.9	610.0	620.2
1741.9	32.5°	1407.2	939.5	747.1	629.4	599.7	589.5	569.0	572.1	576.2	587.4
1647.7	35°	1351.9	878.1	714.3	596.7	567.0	558.8	535.3	537.3	543.4	555.7
1546.4	37.5°	1293.6	827.9	681.6	564.9	534.2	526.0	501.5	503.5	510.7	525.0
1440.0	40°	1236.3	778.8	646.8	531.2	500.5	493.3	466.7	468.7	476.9	492.3
1332.5	42.5°	1173.9	741.0	601.8	496.4	463.6	456.4	431.9	435.0	444.2	459.5
1233.2	45°	1099.2	716.4	551.6	463.6	426.8	419.6	397.1	403.2	413.5	428.8
1148.3	47.5°	1022.4	706.2	509.7	428.8	388.9	382.8	364.3	374.6	385.8	398.1
1075.6	50°	948.7	692.9	466.7	396.1	356.2	350.0	337.7	351.0	362.3	373.5
1023.4	52.5°	864.8	664.2	427.8	367.4	328.5	326.5	320.3	332.6	342.8	353.1
978.4	55°	777.8	618.1	394.0	341.8	305.0	307.0	304.0	314.2	322.4	331.6
937.5	57.5°	702.1	559.8	367.4	314.2	284.5	290.7	286.6	291.7	296.8	308.1
888.3	60°	625.3	490.2	337.7	281.4	264.0	271.2	259.9	258.9	261.0	264.0
815.7	62.5°	521.9	417.6	300.9	252.8	241.5	244.6	223.1	206.7	206.7	209.8
714.3	65°	419.6	350.0	259.9	220.0	210.8	208.8	178.1	155.6	153.5	162.7
596.7	67.5°	344.9	290.7	219.0	183.2	177.1	179.1	156.6	134.1	132.0	142.3
486.1	70°	285.5	234.4	175.0	141.2	147.4	156.6	134.1	112.6	109.5	118.7
395.0	72.5°	227.2	183.2	134.1	104.4	121.8	133.0	109.5	89.0	87.0	95.2
305.0	75°	166.8	131.0	91.1	75.7	94.2	104.4	79.8	63.5	60.4	67.5
203.7	77.5°	103.4	73.7	57.3	45.0	64.5	69.6	42.0	36.8	35.8	40.9
123.8	80°	48.1	31.7	27.6	15.4	23.5	27.6	17.4	19.4	20.5	24.6
62.4	82.5°	13.3	5.1	1.0	0.0	0.0	8.2	4.1	8.2	10.2	15.4
5.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.1	9.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
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: P947569  
 CATALOG NUMBER: GALN-SB2D-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2057.1	0°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
1864.7	2.5°	1907.7	1948.6	2014.1	2081.6	2148.2	2215.7	2281.2	2304.7
1649.8	5°	1730.6	1824.8	1954.7	2093.9	2237.2	2382.5	2515.6	2576.0
1427.7	7.5°	1533.1	1668.2	1863.7	2081.6	2309.9	2538.1	2747.9	2845.1
1207.6	10°	1322.3	1493.2	1716.3	2011.0	2338.5	2653.7	2942.3	3068.2
1014.2	12.5°	1121.7	1300.8	1547.4	1900.5	2316.0	2720.3	3067.2	3215.6
878.1	15°	953.8	1112.5	1378.6	1769.5	2243.3	2724.4	3126.6	3289.3
802.4	17.5°	827.9	931.3	1206.6	1624.2	2148.2	2686.5	3147.0	3321.0
761.4	20°	765.5	794.2	983.5	1437.9	2059.1	2650.7	3167.5	3350.7
728.7	22.5°	728.7	735.8	804.4	1197.4	1952.7	2639.4	3203.3	3391.6
699.0	25°	699.0	701.0	719.5	948.7	1790.0	2632.2	3258.6	3447.9
668.3	27.5°	669.3	669.3	679.6	764.5	1568.9	2601.5	3330.2	3515.5
637.6	30°	639.6	639.6	646.8	676.5	1310.0	2541.2	3416.2	3603.5
606.9	32.5°	608.9	608.9	615.1	636.6	1045.9	2465.4	3495.0	3692.5
575.2	35°	578.2	576.2	584.4	606.9	832.0	2369.2	3573.8	3788.7
543.4	37.5°	545.5	544.5	552.6	578.2	718.4	2257.7	3633.2	3919.7
511.7	40°	510.7	510.7	519.9	547.5	685.7	2117.5	3727.3	4108.0
479.0	42.5°	479.0	476.9	487.1	520.9	661.1	1983.4	3896.2	4382.3
449.3	45°	448.3	444.2	453.4	495.3	618.1	1936.3	4211.4	4787.6
420.6	47.5°	419.6	409.4	417.6	464.6	579.3	2112.3	4727.2	5349.4
395.0	50°	396.1	376.6	383.8	433.9	549.6	2494.1	5396.5	6095.5
371.5	52.5°	371.5	345.9	350.0	396.1	523.0	2857.4	6122.1	7080.0
348.0	55°	345.9	317.3	319.3	358.2	485.1	2911.6	6830.3	8422.8
321.4	57.5°	317.3	290.7	290.7	323.4	457.5	2523.8	7374.8	10088.9
288.6	60°	285.5	268.1	263.0	295.8	482.0	1780.8	7438.2	11163.5
246.6	62.5°	250.7	241.5	234.4	269.2	500.5	1055.1	6927.6	10903.6
194.5	65°	210.8	208.8	203.7	295.8	421.7	623.3	5947.1	10106.3
165.8	67.5°	177.1	174.0	174.0	310.1	320.3	392.0	4646.3	9009.2
141.2	70°	152.5	141.2	141.2	234.4	194.5	271.2	3244.3	7825.1
116.7	72.5°	127.9	115.6	107.5	187.3	145.3	198.5	2027.4	6701.4
89.0	75°	102.3	93.1	82.9	123.8	108.5	150.4	1178.0	5552.1
56.3	77.5°	73.7	69.6	58.3	91.1	78.8	108.5	701.0	4284.0
34.8	80°	37.9	38.9	36.8	52.2	53.2	73.7	399.1	2932.1
22.5	82.5°	22.5	17.4	19.4	25.6	30.7	42.0	150.4	1723.4
16.4	85°	14.3	9.2	9.2	12.3	15.4	16.4	46.1	699.0
8.2	87.5°	7.2	3.1	4.1	6.1	5.1	4.1	2.0	176.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)