

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: P954730

Luminaire Tested: **GALN-SB7D-927-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954730  
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-927-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

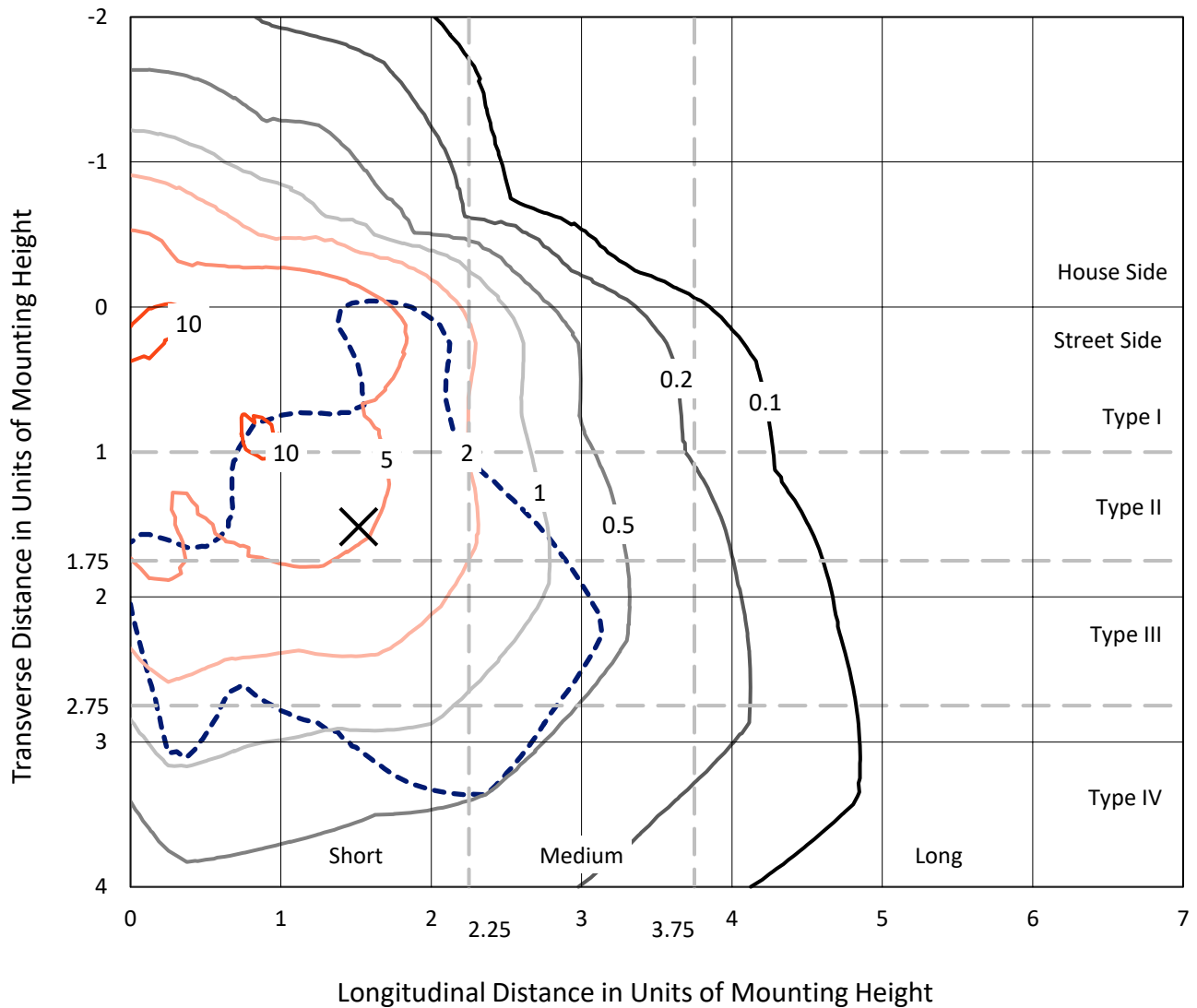
Lumens per Lamp: N/A  
Luminaire Lumens: 33619 lumens  
Efficiency: N/A  
Efficacy: 65.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P954730  
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### Iso-Footcandle Lines of Horizontal Illumination

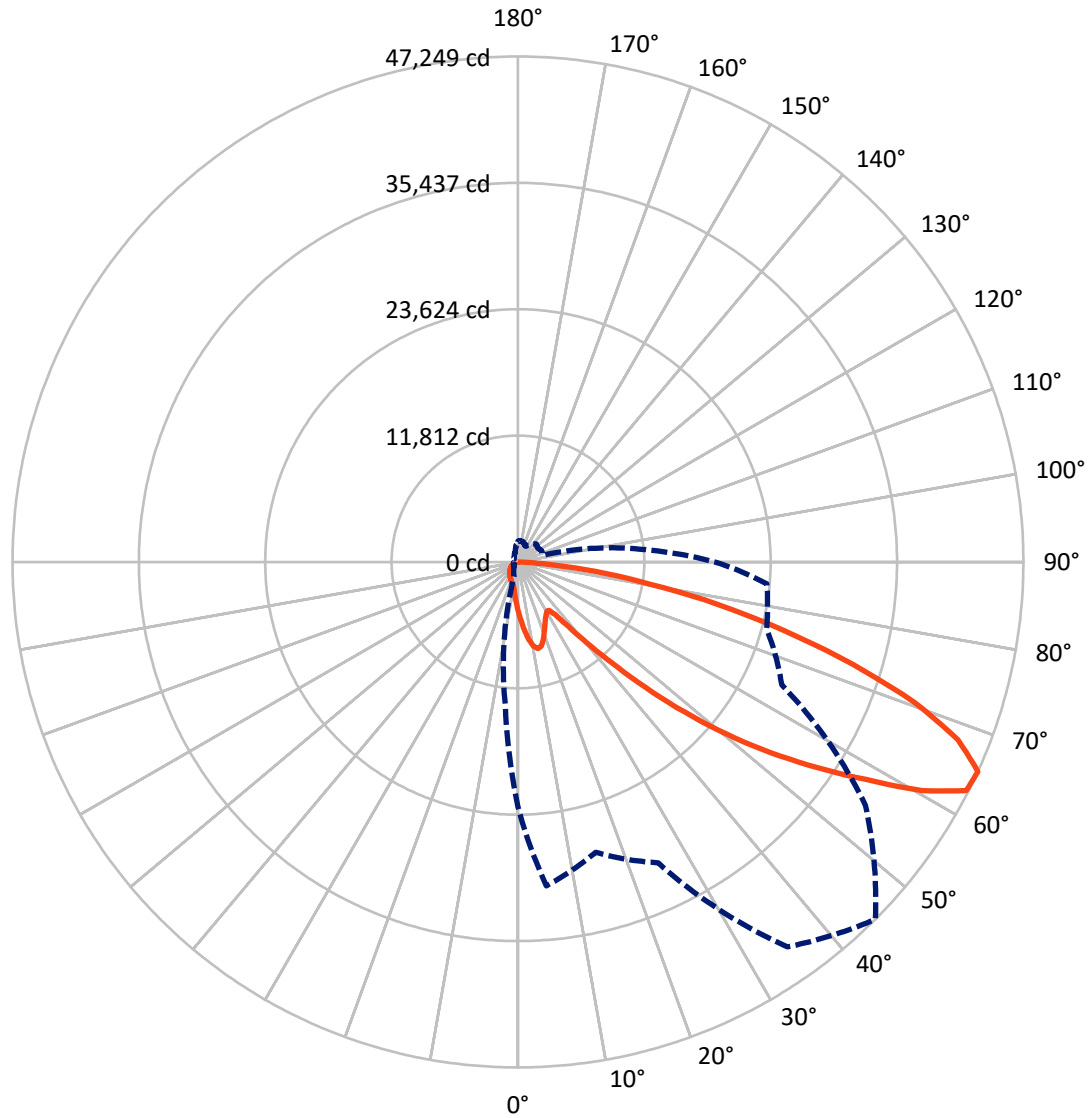
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P954730  
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### Luminous Intensity Polar Plot



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

REPORT NUMBER: P954730  
 CATALOG NUMBER: GALN-SB7D-927-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6682.4	0.0	6682.4
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	26936.6	0.0	26936.6
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	33619.0	0.0	33619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.3	1.4
10°-20°	1373.9	4.1
20°-30°	2024.0	6.0
30°-40°	2600.3	7.7
40°-50°	4205.5	12.5
50°-60°	7374.7	21.9
60°-70°	9227.8	27.4
70°-80°	5392.3	16.0
80°-90°	962.1	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°	33619.0	100.0
0°-180°	33619.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P954730

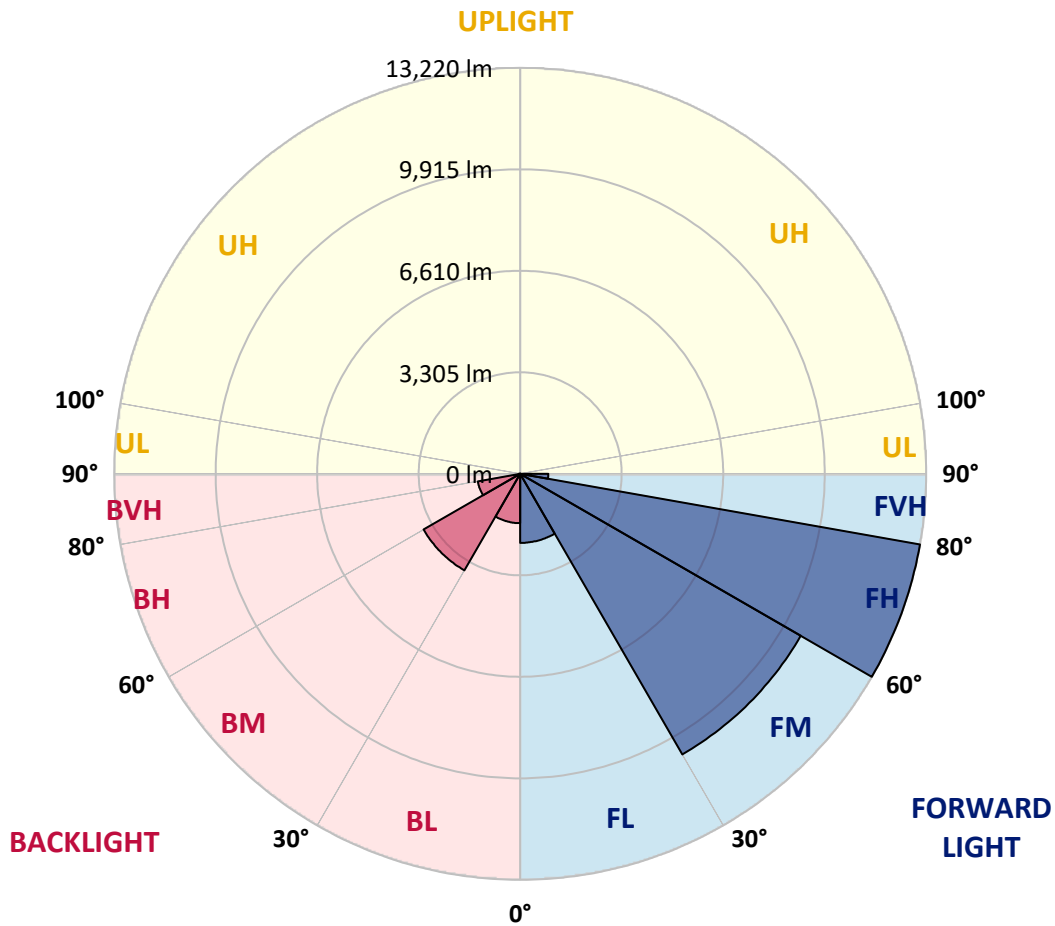
CATALOG NUMBER: GALN-SB7D-927-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.5	6.7			
FM (30°-60°)	10550.0	31.4			
FH (60°-80°)	13220.0	39.3			G5
FVH (80°-90°)	917.0	2.7			G5
BL (0°-30°)	1606.7	4.8	B3/2500		
BM (30°-60°)	3630.5	10.8	B3/5000		
BH (60°-80°)	1400.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	45.1	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



REPORT NUMBER: P954730

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2
2.5°	5215.6	5255.0	5343.0	5389.3	5461.1	5465.8	5465.8	5403.2	5400.9	5273.5
5°	5829.4	5922.0	6130.4	6345.8	6392.2	6403.7	6380.6	6255.5	6162.9	5915.1
7.5°	6438.5	6616.8	6934.1	7221.3	7313.9	7313.9	7258.3	7054.5	6864.6	6505.6
10°	6943.4	7168.0	7598.8	7920.7	8027.2	8004.1	7890.6	7633.5	7371.8	6936.4
12.5°	7276.9	7529.3	8001.8	8261.2	8370.0	8309.8	8180.1	7930.0	7654.4	7195.8
15°	7443.6	7707.6	8117.6	8254.2	8224.1	8161.6	8145.4	8024.9	7816.5	7388.0
17.5°	7515.4	7760.9	8045.8	7960.1	7705.3	7656.7	7818.8	7971.7	7920.7	7554.8
20°	7582.6	7788.7	7874.4	7494.6	7049.9	7005.9	7316.2	7751.6	7974.0	7710.0
22.5°	7675.2	7802.6	7626.6	7003.6	6524.2	6422.3	6765.0	7420.5	7990.2	7906.8
25°	7802.6	7837.3	7353.3	6538.1	6056.3	5954.4	6274.0	7052.2	7962.4	8119.9
27.5°	7955.5	7883.7	7091.6	6149.0	5683.5	5588.5	5908.1	6697.9	7883.7	8333.0
30°	8154.6	7943.9	6832.2	5847.9	5417.1	5347.6	5655.7	6392.2	7786.4	8603.9
32.5°	8356.1	7969.3	6591.3	5671.9	5356.9	5382.4	5634.8	6227.7	7679.8	8863.3
35°	8573.8	8050.4	6473.2	5845.6	5859.5	6081.8	6186.0	6380.6	7663.6	9215.4
37.5°	8870.3	8231.1	6614.5	6709.4	7191.2	7652.1	7566.4	7128.6	7851.2	9741.1
40°	9296.4	8548.3	7230.5	8180.1	9169.0	9917.1	9590.5	8488.1	8425.6	10498.4
42.5°	9917.1	9053.2	8323.7	9977.3	11654.1	12886.2	12010.8	10241.3	9430.7	11580.0
45°	10834.2	9870.8	9646.1	11874.1	14718.2	16659.0	14838.6	12110.4	10838.9	13217.4
47.5°	12105.7	11072.8	10885.2	13872.8	18442.3	20952.8	17974.5	13842.7	12441.5	15450.0
50°	13794.1	12691.7	12059.4	16059.1	22525.4	25330.1	21108.0	15514.9	14278.1	18178.3
52.5°	16022.1	14949.8	13428.2	18141.2	26724.3	29614.7	24255.4	16983.2	16557.1	21344.2
55°	19060.7	18347.3	15299.5	20128.3	30920.9	33924.7	27280.1	18368.2	19567.9	25105.4
57.5°	22831.1	23340.6	17997.6	22432.8	34693.6	38366.8	30318.7	20304.4	23477.3	29311.3
60°	25262.9	29980.6	23164.6	25839.6	38980.6	43390.2	34482.9	23986.8	27585.9	30819.0
62.5°	24674.6	32092.8	29353.0	30189.0	42922.4	47042.5	38563.7	27685.4	28359.4	28597.9
65°	22870.5	30388.2	28090.7	31034.4	43920.6	47248.7	39654.5	27208.3	24056.3	23347.6
67.5°	20387.7	28366.3	25091.5	28792.5	42116.4	44367.6	37623.4	24067.9	18590.5	17520.5
70°	17708.1	26129.1	23122.9	26277.3	38677.2	39346.5	34170.2	21168.2	13673.7	11832.4
72.5°	15165.2	23799.2	21775.0	23699.6	34089.2	32704.2	29674.9	18604.4	9956.5	8534.5
75°	12564.3	20362.3	19855.0	20637.9	28056.0	25760.8	24656.1	15403.7	7814.2	6174.5
77.5°	9694.8	15910.9	17078.2	16527.0	19748.5	19134.8	19111.6	11575.4	5708.9	4120.2
80°	6635.3	11089.0	13342.5	11658.7	12816.7	12504.1	14393.9	7765.5	4141.0	2480.4
82.5°	3900.1	6751.1	9287.2	5644.1	7087.0	7274.5	8571.5	3777.4	2436.4	572.1
85°	1581.8	2665.7	3631.5	2209.5	3418.4	2883.4	3254.0	1060.7	678.6	13.9
87.5°	398.4	852.3	597.5	247.8	396.0	363.6	287.2	129.7	27.8	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: P954730  
 CATALOG NUMBER: GALN-SB7D-927-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4655.2	0°	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2
5259.6	2.5°	5169.3	5116.0	4984.0	4852.0	4745.5	4601.9	4506.9	4393.4	4284.6	4187.3
5861.8	5°	5715.9	5539.9	5299.0	5079.0	4854.3	4636.6	4421.2	4194.3	3985.8	3858.5
6371.3	7.5°	6160.6	5850.2	5530.6	5250.4	4979.4	4724.6	4439.8	4164.2	3837.6	3663.9
6760.4	10°	6491.7	6084.1	5664.9	5343.0	5069.7	4821.9	4581.0	4303.1	3909.4	3691.7
6996.6	12.5°	6709.4	6225.4	5734.4	5366.2	5060.5	4868.2	4761.7	4652.8	4261.4	4006.7
7170.3	15°	6860.0	6325.0	5783.0	5312.9	4937.7	4796.4	4903.0	5028.0	4777.9	4483.8
7351.0	17.5°	7024.4	6454.7	5803.9	5169.3	4699.2	4638.9	4914.5	5204.0	5192.5	4900.7
7522.4	20°	7198.1	6568.2	5790.0	4937.7	4409.7	4462.9	4815.0	5150.8	5292.1	5134.6
7719.2	22.5°	7376.5	6677.0	5736.7	4636.6	4138.7	4305.4	4657.5	4951.6	5118.4	5069.7
7960.1	25°	7601.1	6829.9	5658.0	4312.4	3914.0	4145.6	4474.5	4713.1	4828.9	4826.5
8219.5	27.5°	7869.8	7033.7	5616.3	4050.7	3754.2	3965.0	4256.8	4469.9	4550.9	4550.9
8541.4	30°	8182.4	7274.5	5570.0	3879.3	3661.6	3777.4	4004.4	4212.8	4293.9	4293.9
8893.4	32.5°	8529.8	7506.1	5458.8	3775.1	3592.1	3594.4	3738.0	3927.9	4025.2	4039.1
9333.5	35°	8946.7	7754.0	5215.6	3691.7	3511.1	3416.1	3485.6	3643.1	3758.9	3789.0
9961.1	37.5°	9493.3	8057.4	4868.2	3569.0	3386.0	3228.5	3244.7	3365.1	3492.5	3538.8
10827.3	40°	10227.4	8414.0	4506.9	3392.9	3210.0	3022.4	3015.4	3103.4	3228.5	3279.5
11999.2	42.5°	11197.8	8842.5	4161.8	3223.9	2996.9	2804.7	2793.1	2862.6	2971.4	3024.7
13546.3	45°	12439.2	9368.2	3865.4	3091.9	2788.5	2598.5	2593.9	2651.8	2746.8	2802.4
15526.4	47.5°	14164.6	9893.9	3663.9	3022.4	2624.0	2429.5	2438.7	2489.7	2575.4	2614.8
18090.3	50°	16413.5	10053.7	3562.0	3022.4	2536.0	2278.9	2325.3	2366.9	2431.8	2455.0
21163.6	52.5°	18572.0	9525.7	3469.4	3040.9	2547.6	2151.6	2251.1	2281.3	2336.8	2346.1
24012.3	55°	19630.4	8189.4	3342.0	3045.5	2619.4	2042.7	2190.9	2246.5	2267.4	2265.0
25665.9	57.5°	19266.8	6621.4	3126.6	3027.0	2668.0	1973.2	2116.8	2223.4	2237.3	2216.4
25350.9	60°	17990.7	4875.2	2962.2	2890.4	2649.5	1952.4	2003.3	2172.4	2193.3	2165.5
22923.7	62.5°	15850.7	3383.7	2834.8	2589.3	2568.4	1945.4	1825.0	2061.2	2112.2	2072.8
18426.1	65°	12478.6	2390.1	2441.1	2269.7	2392.4	1908.4	1639.7	1926.9	1996.4	1936.2
13367.9	67.5°	8444.1	1725.4	1977.9	2056.6	2107.6	1825.0	1505.4	1774.1	1866.7	1788.0
8578.5	70°	4560.2	1211.3	1306.2	1732.4	1790.3	1681.4	1385.0	1618.9	1725.4	1639.7
6098.0	72.5°	2693.5	870.8	914.8	1391.9	1491.5	1479.9	1250.6	1438.2	1567.9	1466.0
4208.2	75°	1484.6	588.3	653.1	1009.8	1211.3	1141.8	1074.6	1218.2	1350.2	1250.6
2637.9	77.5°	664.7	352.0	453.9	662.4	951.9	782.8	831.4	949.6	1072.3	968.1
1468.3	80°	257.1	196.9	301.1	361.3	692.5	433.1	535.0	699.4	787.4	704.1
319.6	82.5°	32.4	88.0	129.7	141.3	403.0	229.3	310.3	440.0	433.1	375.2
0.0	85°	0.0	16.2	18.5	9.3	173.7	83.4	101.9	143.6	134.3	101.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	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

REPORT NUMBER: P954730  
 CATALOG NUMBER: GALN-SB7D-927-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4655.2	0°	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2
4168.8	2.5°	4055.3	3971.9	3930.2	3895.5	3927.9	3946.5	3946.5	4025.2	4071.5	4090.1
3777.4	5°	3573.6	3418.4	3314.2	3251.7	3272.5	3295.7	3321.1	3420.7	3487.9	3531.9
3506.4	7.5°	3193.8	2957.5	2811.6	2735.2	2746.8	2763.0	2783.8	2881.1	2948.3	3006.2
3455.5	10°	3006.2	2672.7	2480.4	2387.8	2371.6	2362.3	2355.4	2413.3	2464.2	2510.5
3663.9	12.5°	3015.4	2549.9	2316.0	2202.5	2153.9	2098.3	2054.3	2063.6	2096.0	2153.9
4036.8	15°	3133.5	2510.5	2230.3	2089.0	2008.0	1943.1	1889.9	1878.3	1889.9	1899.1
4462.9	17.5°	3293.3	2505.9	2156.2	1980.2	1896.8	1843.5	1794.9	1778.7	1781.0	1792.6
4745.5	20°	3420.7	2492.0	2072.8	1876.0	1801.8	1755.5	1706.9	1690.7	1695.3	1697.6
4773.3	22.5°	3487.9	2471.2	1980.2	1771.7	1709.2	1662.9	1618.9	1616.6	1616.6	1630.5
4622.7	25°	3487.9	2427.2	1896.8	1672.2	1616.6	1574.9	1521.6	1530.9	1535.5	1554.0
4388.8	27.5°	3404.5	2343.8	1829.6	1586.5	1528.6	1486.9	1438.2	1449.8	1456.8	1477.6
4157.2	30°	3298.0	2244.2	1753.2	1505.4	1438.2	1408.1	1366.4	1371.1	1380.3	1403.5
3941.8	32.5°	3184.5	2126.1	1690.7	1424.3	1357.2	1334.0	1287.7	1294.6	1303.9	1329.4
3728.8	35°	3059.4	1987.1	1616.6	1350.2	1283.1	1264.5	1211.3	1215.9	1229.8	1257.6
3499.5	37.5°	2927.4	1873.6	1542.5	1278.4	1209.0	1190.4	1134.8	1139.5	1155.7	1188.1
3258.6	40°	2797.7	1762.5	1463.7	1202.0	1132.5	1116.3	1056.1	1060.7	1079.3	1114.0
3015.4	42.5°	2656.4	1676.8	1361.8	1123.3	1049.1	1032.9	977.4	984.3	1005.1	1039.9
2790.8	45°	2487.4	1621.2	1248.3	1049.1	965.8	949.6	898.6	912.5	935.7	970.4
2598.5	47.5°	2313.7	1598.0	1153.4	970.4	880.1	866.2	824.5	847.7	873.1	900.9
2434.1	50°	2146.9	1567.9	1056.1	896.3	806.0	792.1	764.3	794.4	819.9	845.3
2316.0	52.5°	1957.0	1503.1	968.1	831.4	743.4	738.8	724.9	752.7	775.9	799.0
2214.1	55°	1760.2	1398.9	891.7	773.5	690.2	694.8	687.9	711.0	729.5	750.4
2121.5	57.5°	1588.8	1266.9	831.4	711.0	643.8	657.7	648.5	660.1	671.6	697.1
2010.3	60°	1415.1	1109.4	764.3	636.9	597.5	613.7	588.3	585.9	590.6	597.5
1845.9	62.5°	1181.2	944.9	680.9	572.1	546.6	553.5	504.9	467.8	467.8	474.8
1616.6	65°	949.6	792.1	588.3	497.9	477.1	472.5	403.0	352.0	347.4	368.2
1350.2	67.5°	780.5	657.7	495.6	414.6	400.7	405.3	354.3	303.4	298.8	321.9
1100.1	70°	646.2	530.4	396.0	319.6	333.5	354.3	303.4	254.8	247.8	268.7
894.0	72.5°	514.2	414.6	303.4	236.2	275.6	301.1	247.8	201.5	196.9	215.4
690.2	75°	377.5	296.4	206.1	171.4	213.1	236.2	180.6	143.6	136.6	152.9
460.9	77.5°	233.9	166.8	129.7	101.9	145.9	157.5	95.0	83.4	81.1	92.6
280.2	80°	108.9	71.8	62.5	34.7	53.3	62.5	39.4	44.0	46.3	55.6
141.3	82.5°	30.1	11.6	2.3	0.0	0.0	18.5	9.3	18.5	23.2	34.7
11.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.6	20.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
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: P954730  
 CATALOG NUMBER: GALN-SB7D-927-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
4655.2	0°	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2	4655.2
4219.7	2.5°	4317.0	4409.7	4557.9	4710.7	4861.3	5014.1	5162.4	5215.6
3733.4	5°	3916.4	4129.4	4423.6	4738.5	5062.8	5391.6	5692.7	5829.4
3230.8	7.5°	3469.4	3775.1	4217.4	4710.7	5227.2	5743.7	6218.5	6438.5
2732.9	10°	2992.3	3379.0	3883.9	4550.9	5292.1	6005.4	6658.5	6943.4
2295.2	12.5°	2538.3	2943.6	3501.8	4300.8	5241.1	6155.9	6941.0	7276.9
1987.1	15°	2158.5	2517.5	3119.6	4004.4	5076.7	6165.2	7075.4	7443.6
1815.7	17.5°	1873.6	2107.6	2730.6	3675.5	4861.3	6079.5	7121.7	7515.4
1723.1	20°	1732.4	1797.2	2225.7	3254.0	4659.8	5998.4	7168.0	7582.6
1649.0	22.5°	1649.0	1665.2	1820.4	2709.7	4418.9	5973.0	7249.1	7675.2
1581.8	25°	1581.8	1586.5	1628.1	2146.9	4050.7	5956.7	7374.1	7802.6
1512.3	27.5°	1514.7	1514.7	1537.8	1730.1	3550.4	5887.3	7536.3	7955.5
1442.9	30°	1447.5	1447.5	1463.7	1530.9	2964.5	5750.6	7730.8	8154.6
1373.4	32.5°	1378.0	1378.0	1391.9	1440.6	2366.9	5579.2	7909.1	8356.1
1301.6	35°	1308.5	1303.9	1322.4	1373.4	1882.9	5361.5	8087.5	8573.8
1229.8	37.5°	1234.4	1232.1	1250.6	1308.5	1625.8	5109.1	8221.8	8870.3
1158.0	40°	1155.7	1155.7	1176.5	1239.1	1551.7	4791.8	8434.9	9296.4
1083.9	42.5°	1083.9	1079.3	1102.4	1178.8	1496.1	4488.4	8817.0	9917.1
1016.7	45°	1014.4	1005.1	1026.0	1120.9	1398.9	4381.9	9530.3	10834.2
951.9	47.5°	949.6	926.4	944.9	1051.5	1310.9	4780.2	10697.6	12105.7
894.0	50°	896.3	852.3	868.5	982.0	1243.7	5644.1	12212.3	13794.1
840.7	52.5°	840.7	782.8	792.1	896.3	1183.5	6466.3	13854.3	16022.1
787.4	55°	782.8	718.0	722.6	810.6	1097.8	6589.0	15457.0	19060.7
727.2	57.5°	718.0	657.7	657.7	731.9	1035.3	5711.3	16689.1	22831.1
653.1	60°	646.2	606.8	595.2	669.3	1090.8	4029.8	16832.7	25262.9
558.2	62.5°	567.4	546.6	530.4	609.1	1132.5	2387.8	15677.0	24674.6
440.0	65°	477.1	472.5	460.9	669.3	954.2	1410.4	13458.3	22870.5
375.2	67.5°	400.7	393.7	393.7	701.7	724.9	887.0	10514.6	20387.7
319.6	70°	345.1	319.6	319.6	530.4	440.0	613.7	7341.7	17708.1
264.0	72.5°	289.5	261.7	243.2	423.8	328.9	449.3	4588.0	15165.2
201.5	75°	231.6	210.8	187.6	280.2	245.5	340.5	2665.7	12564.3
127.4	77.5°	166.8	157.5	132.0	206.1	178.3	245.5	1586.5	9694.8
78.7	80°	85.7	88.0	83.4	118.1	120.4	166.8	903.2	6635.3
51.0	82.5°	51.0	39.4	44.0	57.9	69.5	95.0	340.5	3900.1
37.1	85°	32.4	20.8	20.8	27.8	34.7	37.1	104.2	1581.8
18.5	87.5°	16.2	6.9	9.3	13.9	11.6	9.3	4.6	398.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)