

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: P954688

Luminaire Tested: **GALN-SB7D-840-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954688
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-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 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: 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: B4 - U0 - G5

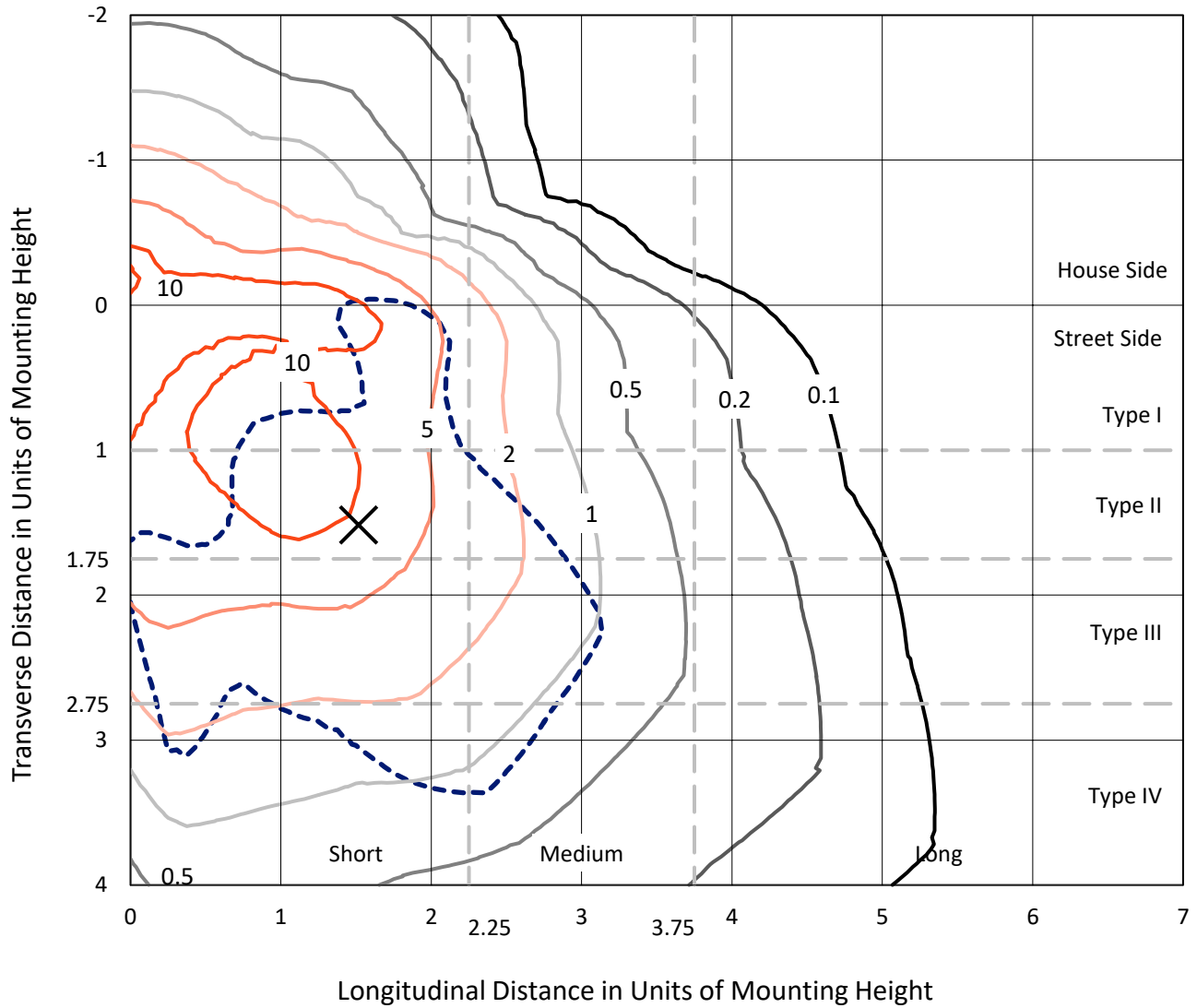
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954688
 CATALOG NUMBER: GALN-SB7D-840-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

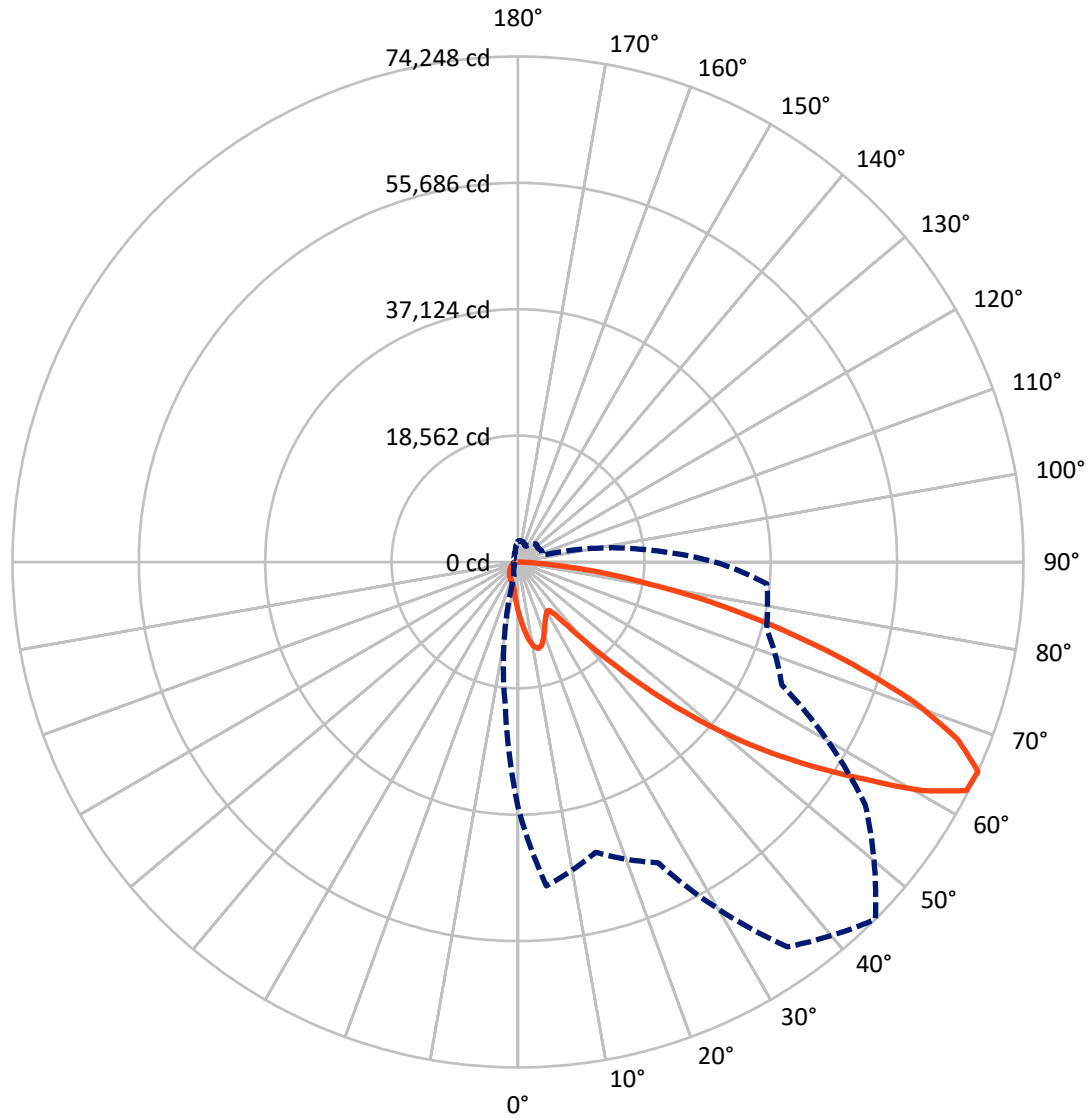
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P954688
CATALOG NUMBER: GALN-SB7D-840-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P954688

CATALOG NUMBER: GALN-SB7D-840-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10501.0	0.0	10501.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	42329.0	0.0	42329.0
	% Fixture	80.1	0.0	80.1
Total	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: P954688

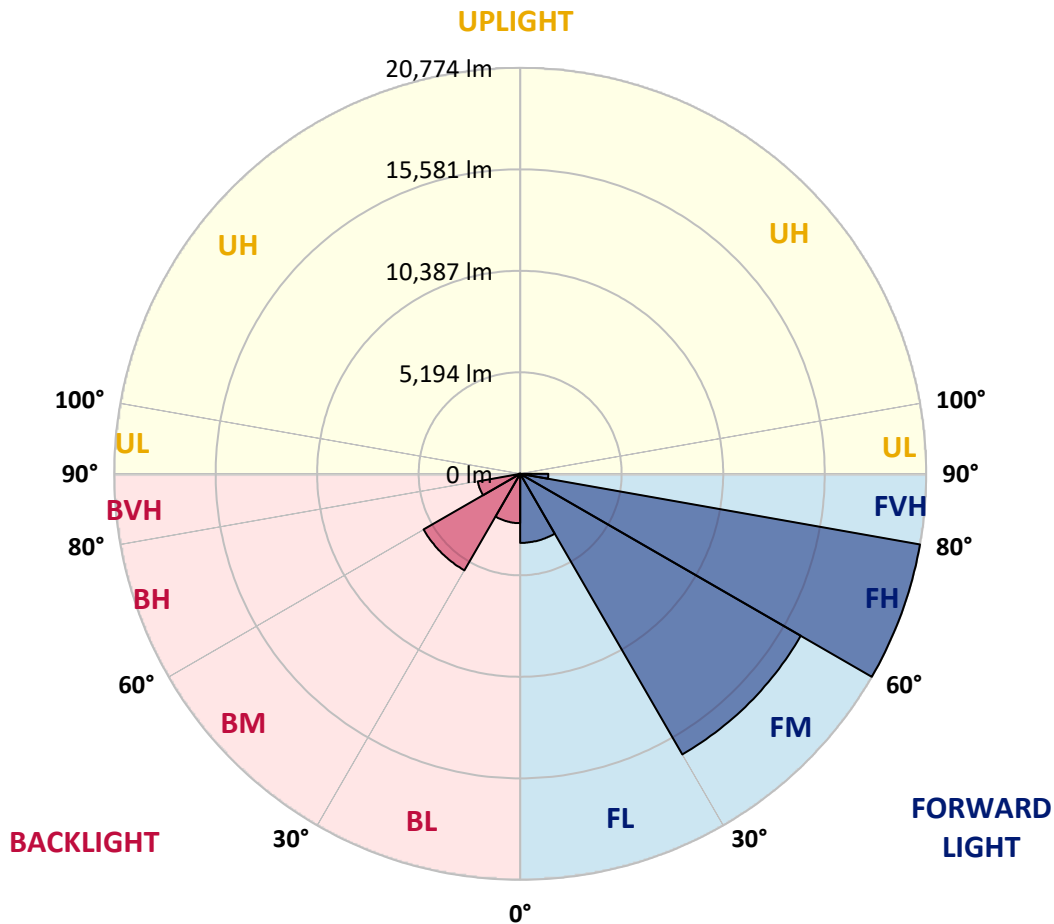
CATALOG NUMBER: GALN-SB7D-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3534.9	6.7			
FM (30°-60°)	16578.7	31.4			
FH (60°-80°)	20774.4	39.3			G5
FVH (80°-90°)	1441.0	2.7			G5
BL (0°-30°)	2524.9	4.8	B4/5000		
BM (30°-60°)	5705.1	10.8	B4/8500		
BH (60°-80°)	2200.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	70.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P954688
 CATALOG NUMBER: GALN-SB7D-840-U-SLL-HSS

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°	8196.0	8257.9	8396.2	8469.0	8581.8	8589.1	8589.1	8490.8	8487.2	8287.0
5°	9160.5	9306.0	9633.6	9972.1	10044.8	10063.0	10026.6	9830.1	9684.5	9295.1
7.5°	10117.6	10397.9	10896.5	11347.8	11493.3	11493.3	11406.0	11085.7	10787.3	10223.2
10°	10911.0	11264.1	11941.0	12446.9	12614.3	12577.9	12399.6	11995.6	11584.3	10900.1
12.5°	11435.1	11831.8	12574.2	12981.9	13152.9	13058.3	12854.5	12461.4	12028.3	11307.7
15°	11697.1	12112.0	12756.2	12970.9	12923.6	12825.4	12799.9	12610.6	12283.1	11609.8
17.5°	11810.0	12195.7	12643.4	12508.7	12108.4	12032.0	12286.7	12526.9	12446.9	11871.8
20°	11915.5	12239.4	12374.1	11777.2	11078.4	11009.3	11497.0	12181.2	12530.6	12115.7
22.5°	12061.1	12261.3	11984.7	11005.7	10252.3	10092.2	10630.8	11660.8	12556.1	12425.0
25°	12261.3	12315.8	11555.2	10274.1	9517.1	9357.0	9859.2	11082.1	12512.4	12759.9
27.5°	12501.5	12388.6	11144.0	9662.7	8931.2	8782.0	9284.2	10525.2	12388.6	13094.7
30°	12814.5	12483.3	10736.3	9189.6	8512.6	8403.5	8887.5	10044.8	12235.8	13520.5
32.5°	13131.1	12523.3	10357.8	8913.0	8418.0	8458.0	8854.7	9786.4	12068.4	13928.1
35°	13473.2	12650.7	10172.2	9185.9	9207.8	9557.2	9720.9	10026.6	12042.9	14481.3
37.5°	13939.0	12934.6	10394.2	10543.4	11300.4	12024.7	11890.0	11202.2	12337.7	15307.5
40°	14608.7	13433.2	11362.3	12854.5	14408.5	15584.1	15070.9	13338.5	13240.3	16497.6
42.5°	15584.1	14226.6	13080.1	15678.7	18313.6	20249.8	18874.1	16093.6	14819.8	18197.2
45°	17025.3	15511.3	15158.2	18659.4	23128.6	26178.5	23317.9	19030.6	17032.6	20770.3
47.5°	19023.3	17400.1	17105.3	21800.2	28980.8	32926.0	28245.7	21752.9	19551.0	24278.7
50°	21676.5	19944.1	18950.5	25235.8	35397.1	39804.5	33169.8	24380.6	22437.1	28565.9
52.5°	25177.6	23492.6	21101.4	28507.7	41995.4	46537.5	38115.8	26688.0	26018.3	33541.0
55°	29952.6	28831.6	24042.1	31630.3	48590.1	53310.4	42868.9	28864.4	30749.6	39451.5
57.5°	35877.6	36678.2	28282.1	35251.6	54518.7	60290.9	47643.8	31906.9	36893.0	46060.7
60°	39699.0	47112.5	36401.6	40605.2	61255.3	68184.8	54187.5	37693.6	43349.3	48430.0
62.5°	38774.5	50431.7	46126.2	47440.0	67449.7	73924.2	60600.2	43505.8	44564.9	44939.7
65°	35939.4	47753.0	44142.7	48768.4	69018.2	74248.1	62314.4	42756.1	37802.8	36689.1
67.5°	32037.9	44575.8	39429.6	45245.5	66183.1	69720.7	59122.6	37821.0	29213.7	27532.3
70°	27827.1	41060.1	36336.1	41293.0	60778.6	61830.4	53696.2	33264.4	21487.2	18593.9
72.5°	23831.0	37398.8	34218.0	37242.3	53568.8	51392.5	46632.1	29235.6	15645.9	13411.3
75°	19743.9	31997.9	31200.9	32431.0	44088.1	40481.4	38745.4	24205.9	12279.5	9702.7
77.5°	15234.7	25002.9	26837.2	25971.0	31033.5	30069.0	30032.6	18189.9	8971.2	6474.6
80°	10427.0	17425.6	20966.8	18320.9	20140.6	19649.3	22619.1	12203.0	6507.3	3897.8
82.5°	6128.8	10609.0	14594.1	8869.3	11136.7	11431.5	13469.5	5935.9	3828.7	898.9
85°	2485.7	4189.0	5706.6	3472.0	5371.8	4531.1	5113.4	1666.9	1066.4	21.8
87.5°	626.0	1339.3	939.0	389.4	622.3	571.4	451.3	203.8	43.7	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: P954688
 CATALOG NUMBER: GALN-SB7D-840-U-SLL-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
8265.2	2.5°	8123.2	8039.5	7832.1	7624.6	7457.2	7231.6	7082.3	6904.0	6733.0	6580.1
9211.4	5°	8982.1	8705.5	8327.0	7981.3	7628.3	7286.1	6947.7	6591.0	6263.5	6063.3
10012.1	7.5°	9680.9	9193.2	8691.0	8250.6	7824.8	7424.4	6976.8	6543.7	6030.5	5757.6
10623.5	10°	10201.3	9560.8	8902.1	8396.2	7966.7	7577.3	7198.8	6762.1	6143.4	5801.3
10994.7	12.5°	10543.4	9782.8	9011.2	8432.6	7952.2	7650.1	7482.7	7311.6	6696.6	6296.2
11267.7	15°	10780.0	9939.3	9087.7	8348.9	7759.3	7537.3	7704.7	7901.2	7508.2	7045.9
11551.6	17.5°	11038.4	10143.1	9120.4	8123.2	7384.4	7289.8	7722.9	8177.8	8159.6	7701.0
11820.9	20°	11311.4	10321.4	9098.6	7759.3	6929.5	7013.2	7566.4	8094.1	8316.1	8068.6
12130.2	22.5°	11591.6	10492.5	9014.9	7286.1	6503.7	6765.7	7318.9	7781.1	8043.2	7966.7
12508.7	25°	11944.6	10732.7	8891.1	6776.6	6150.6	6514.6	7031.4	7406.3	7588.2	7584.6
12916.4	27.5°	12366.8	11053.0	8825.6	6365.4	5899.5	6230.7	6689.3	7024.1	7151.5	7151.5
13422.2	30°	12858.1	11431.5	8752.8	6096.1	5753.9	5935.9	6292.6	6620.1	6747.5	6747.5
13975.4	32.5°	13404.0	11795.4	8578.1	5932.3	5644.8	5648.4	5874.0	6172.5	6325.3	6347.2
14666.9	35°	14059.1	12184.8	8196.0	5801.3	5517.4	5368.2	5477.3	5724.8	5906.8	5954.1
15653.2	37.5°	14918.0	12661.6	7650.1	5608.4	5320.9	5073.4	5098.8	5288.1	5488.3	5561.1
17014.4	40°	16071.7	13222.1	7082.3	5331.8	5044.3	4749.5	4738.5	4876.8	5073.4	5153.4
18855.9	42.5°	17596.7	13895.4	6540.1	5066.1	4709.4	4407.4	4389.2	4498.3	4669.4	4753.1
21287.1	45°	19547.4	14721.5	6074.2	4858.6	4381.9	4083.4	4076.2	4167.2	4316.4	4403.7
24398.8	47.5°	22258.8	15547.7	5757.6	4749.5	4123.5	3817.8	3832.3	3912.4	4047.1	4108.9
28427.6	50°	25792.7	15798.8	5597.5	4749.5	3985.2	3581.2	3654.0	3719.5	3821.4	3857.8
33257.2	52.5°	29184.6	14969.0	5451.9	4778.6	4003.4	3381.0	3537.5	3584.8	3672.2	3686.7
37733.7	55°	30847.9	12869.0	5251.7	4785.9	4116.2	3210.0	3442.9	3530.3	3563.0	3559.4
40332.2	57.5°	30276.5	10405.1	4913.2	4756.7	4192.6	3100.8	3326.4	3493.9	3515.7	3482.9
39837.3	60°	28271.1	7661.0	4654.8	4542.0	4163.5	3068.0	3148.1	3413.8	3446.5	3402.9
36023.1	62.5°	24908.3	5317.2	4454.7	4068.9	4036.1	3057.1	2867.9	3239.1	3319.2	3257.3
28955.3	65°	19609.3	3755.9	3836.0	3566.6	3759.5	2998.9	2576.7	3028.0	3137.2	3042.6
21006.8	67.5°	13269.4	2711.4	3108.1	3231.8	3311.9	2867.9	2365.6	2787.8	2933.4	2809.6
13480.5	70°	7166.0	1903.4	2052.6	2722.3	2813.3	2642.2	2176.4	2544.0	2711.4	2576.7
9582.6	72.5°	4232.7	1368.4	1437.6	2187.3	2343.8	2325.6	1965.3	2260.1	2463.9	2303.8
6612.9	75°	2332.9	924.4	1026.3	1586.8	1903.4	1794.2	1688.7	1914.3	2121.8	1965.3
4145.3	77.5°	1044.5	553.2	713.3	1040.9	1495.8	1230.1	1306.6	1492.2	1685.1	1521.3
2307.4	80°	404.0	309.4	473.1	567.8	1088.2	680.6	840.7	1099.1	1237.4	1106.4
502.2	82.5°	51.0	138.3	203.8	222.0	633.3	360.3	487.7	691.5	680.6	589.6
0.0	85°	0.0	25.5	29.1	14.6	273.0	131.0	160.1	225.6	211.1	160.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	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

REPORT NUMBER: P954688
 CATALOG NUMBER: GALN-SB7D-840-U-SLL-HSS

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
6551.0	2.5°	6372.7	6241.6	6176.1	6121.5	6172.5	6201.6	6201.6	6325.3	6398.1	6427.2
5935.9	5°	5615.6	5371.8	5208.0	5109.8	5142.5	5178.9	5218.9	5375.4	5481.0	5550.1
5510.1	7.5°	5018.8	4647.6	4418.3	4298.2	4316.4	4341.8	4374.6	4527.5	4633.0	4724.0
5430.0	10°	4724.0	4199.9	3897.8	3752.3	3726.8	3712.2	3701.3	3792.3	3872.4	3945.1
5757.6	12.5°	4738.5	4007.0	3639.4	3461.1	3384.7	3297.3	3228.2	3242.7	3293.7	3384.7
6343.5	15°	4924.2	3945.1	3504.8	3282.8	3155.4	3053.5	2969.8	2951.6	2969.8	2984.3
7013.2	17.5°	5175.3	3937.9	3388.3	3111.7	2980.7	2897.0	2820.6	2795.1	2798.7	2816.9
7457.2	20°	5375.4	3916.0	3257.3	2947.9	2831.5	2758.7	2682.3	2656.8	2664.1	2667.7
7500.9	22.5°	5481.0	3883.3	3111.7	2784.2	2685.9	2613.1	2544.0	2540.3	2540.3	2562.2
7264.3	25°	5481.0	3814.1	2980.7	2627.7	2540.3	2474.8	2391.1	2405.7	2412.9	2442.1
6896.7	27.5°	5350.0	3683.1	2875.2	2493.0	2402.0	2336.5	2260.1	2278.3	2289.2	2322.0
6532.8	30°	5182.6	3526.6	2755.1	2365.6	2260.1	2212.8	2147.3	2154.5	2169.1	2205.5
6194.3	32.5°	5004.2	3341.0	2656.8	2238.3	2132.7	2096.3	2023.5	2034.4	2049.0	2089.0
5859.5	35°	4807.7	3122.6	2540.3	2121.8	2016.2	1987.1	1903.4	1910.7	1932.5	1976.2
5499.2	37.5°	4600.2	2944.3	2423.9	2009.0	1899.8	1870.7	1783.3	1790.6	1816.1	1867.0
5120.7	40°	4396.4	2769.6	2300.1	1888.9	1779.7	1754.2	1659.6	1666.9	1696.0	1750.6
4738.5	42.5°	4174.4	2635.0	2140.0	1765.1	1648.7	1623.2	1535.8	1546.8	1579.5	1634.1
4385.5	45°	3908.8	2547.6	1961.7	1648.7	1517.6	1492.2	1412.1	1433.9	1470.3	1524.9
4083.4	47.5°	3635.8	2511.2	1812.4	1524.9	1383.0	1361.1	1295.6	1332.0	1372.1	1415.7
3825.0	50°	3373.8	2463.9	1659.6	1408.5	1266.5	1244.7	1201.0	1248.3	1288.4	1328.4
3639.4	52.5°	3075.3	2362.0	1521.3	1306.6	1168.3	1161.0	1139.1	1182.8	1219.2	1255.6
3479.3	55°	2766.0	2198.2	1401.2	1215.6	1084.6	1091.8	1080.9	1117.3	1146.4	1179.2
3333.7	57.5°	2496.7	1990.8	1306.6	1117.3	1011.8	1033.6	1019.0	1037.2	1055.4	1095.5
3159.0	60°	2223.7	1743.3	1201.0	1000.8	939.0	964.5	924.4	920.8	928.1	939.0
2900.6	62.5°	1856.1	1484.9	1070.0	898.9	858.9	869.8	793.4	735.2	735.2	746.1
2540.3	65°	1492.2	1244.7	924.4	782.5	749.7	742.4	633.3	553.2	545.9	578.7
2121.8	67.5°	1226.5	1033.6	778.8	651.5	629.6	636.9	556.8	476.8	469.5	505.9
1728.7	70°	1015.4	833.4	622.3	502.2	524.1	556.8	476.8	400.3	389.4	422.2
1404.8	72.5°	808.0	651.5	476.8	371.2	433.1	473.1	389.4	316.6	309.4	338.5
1084.6	75°	593.2	465.8	323.9	269.3	334.8	371.2	283.9	225.6	214.7	240.2
724.2	77.5°	367.6	262.0	203.8	160.1	229.3	247.5	149.2	131.0	127.4	145.6
440.4	80°	171.1	112.8	98.3	54.6	83.7	98.3	61.9	69.1	72.8	87.3
222.0	82.5°	47.3	18.2	3.6	0.0	0.0	29.1	14.6	29.1	36.4	54.6
18.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.2	32.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6
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: P954688
 CATALOG NUMBER: GALN-SB7D-840-U-SLL-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
6631.1	2.5°	6783.9	6929.5	7162.4	7402.6	7639.2	7879.4	8112.3	8196.0
5866.8	5°	6154.3	6489.1	6951.3	7446.3	7955.8	8472.6	8945.7	9160.5
5077.0	7.5°	5451.9	5932.3	6627.4	7402.6	8214.2	9025.8	9771.9	10117.6
4294.5	10°	4702.2	5309.9	6103.3	7151.5	8316.1	9437.1	10463.4	10911.0
3606.7	12.5°	3988.8	4625.7	5502.8	6758.4	8236.0	9673.6	10907.4	11435.1
3122.6	15°	3392.0	3956.1	4902.3	6292.6	7977.6	9688.2	11118.5	11697.1
2853.3	17.5°	2944.3	3311.9	4290.9	5775.8	7639.2	9553.5	11191.3	11810.0
2707.7	20°	2722.3	2824.2	3497.5	5113.4	7322.5	9426.1	11264.1	11915.5
2591.3	22.5°	2591.3	2616.8	2860.6	4258.1	6944.0	9386.1	11391.4	12061.1
2485.7	25°	2485.7	2493.0	2558.5	3373.8	6365.4	9360.6	11588.0	12261.3
2376.6	27.5°	2380.2	2380.2	2416.6	2718.7	5579.3	9251.4	11842.7	12501.5
2267.4	30°	2274.6	2274.6	2300.1	2405.7	4658.5	9036.7	12148.4	12814.5
2158.2	32.5°	2165.5	2165.5	2187.3	2263.7	3719.5	8767.4	12428.7	13131.1
2045.4	35°	2056.3	2049.0	2078.1	2158.2	2958.9	8425.3	12708.9	13473.2
1932.5	37.5°	1939.8	1936.2	1965.3	2056.3	2554.9	8028.6	12920.0	13939.0
1819.7	40°	1816.1	1816.1	1848.8	1947.1	2438.4	7530.0	13254.8	14608.7
1703.3	42.5°	1703.3	1696.0	1732.4	1852.5	2351.1	7053.2	13855.3	15584.1
1597.7	45°	1594.1	1579.5	1612.3	1761.5	2198.2	6885.8	14976.3	17025.3
1495.8	47.5°	1492.2	1455.8	1484.9	1652.3	2059.9	7511.8	16810.6	19023.3
1404.8	50°	1408.5	1339.3	1364.8	1543.1	1954.4	8869.3	19190.7	21676.5
1321.1	52.5°	1321.1	1230.1	1244.7	1408.5	1859.8	10161.3	21771.1	25177.6
1237.4	55°	1230.1	1128.2	1135.5	1273.8	1725.1	10354.2	24289.6	29952.6
1142.8	57.5°	1128.2	1033.6	1033.6	1150.1	1626.8	8974.8	26225.8	35877.6
1026.3	60°	1015.4	953.5	935.3	1051.8	1714.2	6332.6	26451.4	39699.0
877.1	62.5°	891.7	858.9	833.4	957.2	1779.7	3752.3	24635.3	38774.5
691.5	65°	749.7	742.4	724.2	1051.8	1499.4	2216.4	21148.8	35939.4
589.6	67.5°	629.6	618.7	618.7	1102.7	1139.1	1393.9	16523.0	32037.9
502.2	70°	542.3	502.2	502.2	833.4	691.5	964.5	11537.0	27827.1
414.9	72.5°	454.9	411.3	382.1	666.0	516.8	706.1	7209.7	23831.0
316.6	75°	363.9	331.2	294.8	440.4	385.8	535.0	4189.0	19743.9
200.2	77.5°	262.0	247.5	207.4	323.9	280.2	385.8	2493.0	15234.7
123.7	80°	134.7	138.3	131.0	185.6	189.3	262.0	1419.4	10427.0
80.1	82.5°	80.1	61.9	69.1	91.0	109.2	149.2	535.0	6128.8
58.2	85°	51.0	32.8	32.8	43.7	54.6	58.2	163.8	2485.7
29.1	87.5°	25.5	10.9	14.6	21.8	18.2	14.6	7.3	626.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)