

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: P956139

Luminaire Tested: **GALN-SB8D-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956139
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-SB8D-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 60069 lumens
Efficiency: N/A
Efficacy: 102.7 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

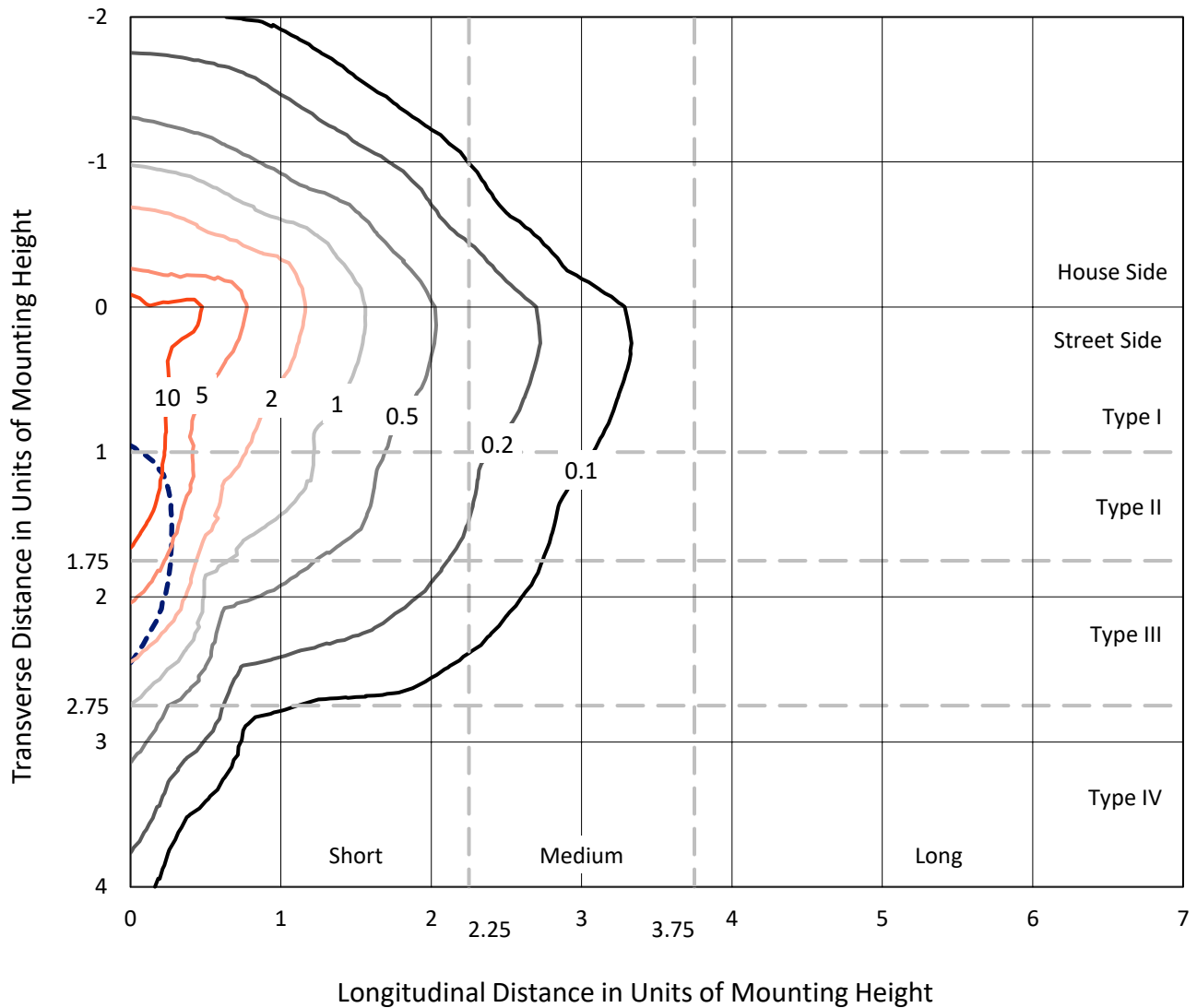
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956139
 CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

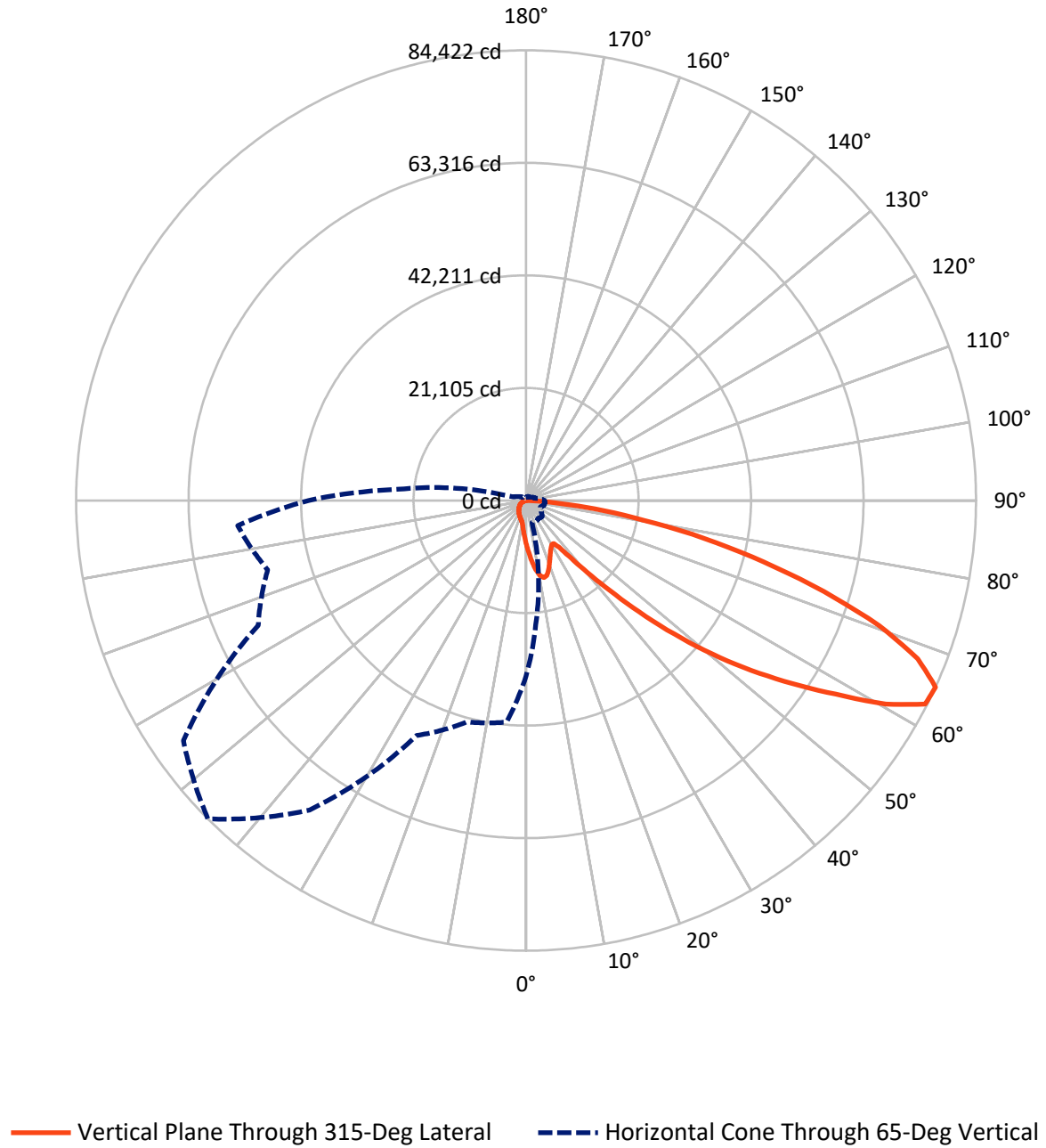
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P956139
CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P956139
 CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8412.2	0.0	8412.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	51656.8	0.0	51656.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	60069.0	0.0	60069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.9	1.4
10°-20°	2454.8	4.1
20°-30°	3616.4	6.0
30°-40°	4646.1	7.7
40°-50°	7514.2	12.5
50°-60°	13176.9	21.9
60°-70°	16487.9	27.4
70°-80°	9634.7	16.0
80°-90°	1719.0	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°	60069.0	100.0
0°-180°	60069.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956139

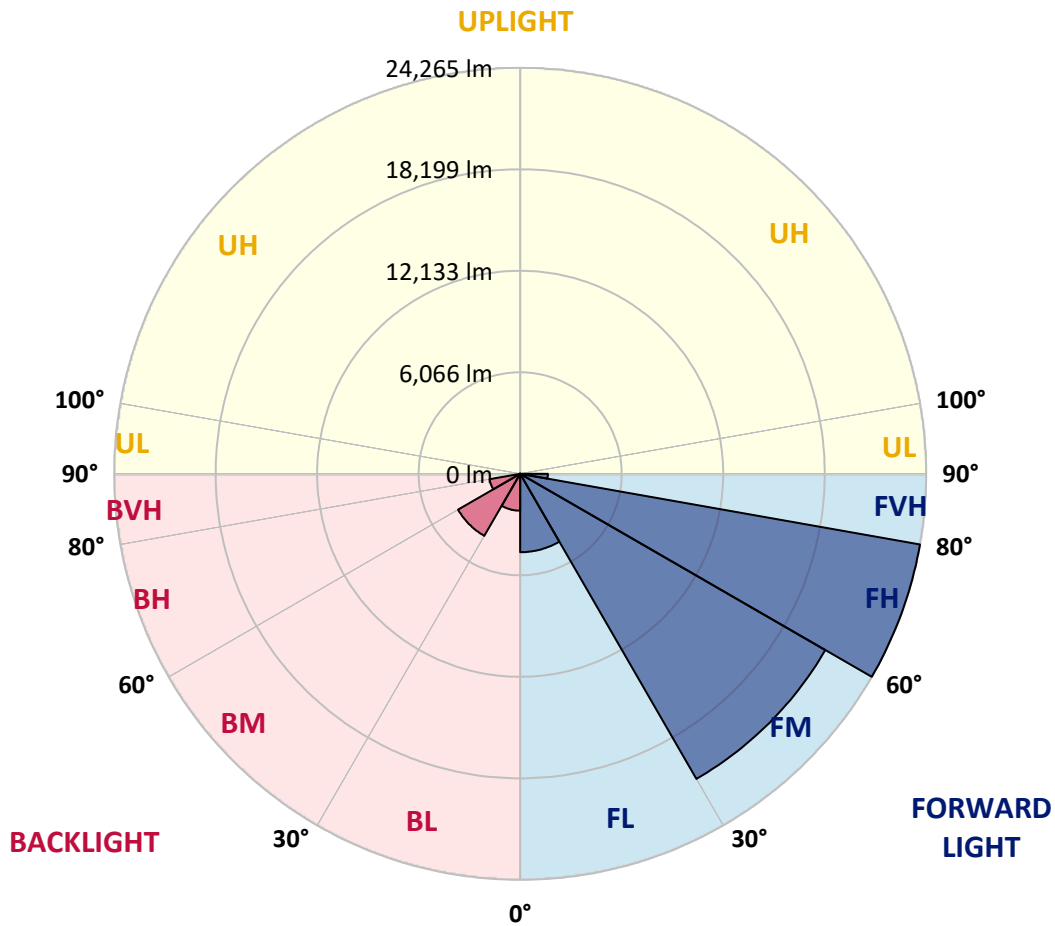
CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4685.2	7.8			
FM (30°-60°)	21053.5	35.0			
FH (60°-80°)	24265.1	40.4			G5
FVH (80°-90°)	1653.0	2.8			G5
BL (0°-30°)	2205.0	3.7	B3/2500		
BM (30°-60°)	4283.7	7.1	B3/5000		
BH (60°-80°)	1857.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	66.0	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: P956139
 CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
2.5°	9397.7	9236.3	9141.1	8905.2	8669.4	8479.0	8222.5	8052.8	7850.0	7655.5
5°	10473.6	10212.9	9898.4	9468.0	9074.9	8673.5	8284.5	7899.7	7494.1	7121.7
7.5°	11384.0	11007.4	10452.9	9881.8	9381.1	8897.0	8441.8	7932.8	7440.4	6856.9
10°	12079.2	11599.2	10870.9	10121.9	9546.7	9058.4	8615.6	8185.2	7688.6	6985.2
12.5°	12501.3	11988.2	11123.3	10246.0	9588.0	9041.8	8698.3	8508.0	8313.5	7614.2
15°	12811.6	12257.1	11301.2	10332.9	9492.9	8822.5	8570.1	8760.4	8983.9	8537.0
17.5°	13134.4	12550.9	11533.0	10370.1	9236.3	8396.3	8288.7	8781.1	9298.4	9277.7
20°	13440.6	12861.3	11735.7	10345.3	8822.5	7879.0	7974.2	8603.2	9203.2	9455.6
22.5°	13792.4	13179.9	11930.2	10250.1	8284.5	7394.8	7692.8	8321.8	8847.3	9145.3
25°	14222.7	13581.3	12203.3	10109.4	7705.2	6993.4	7407.2	7994.9	8421.1	8628.0
27.5°	14686.2	14061.4	12567.5	10035.0	7237.6	6707.9	7084.5	7605.9	7986.6	8131.4
30°	15261.4	14620.0	12997.9	9952.2	6931.4	6542.4	6749.3	7154.8	7527.3	7672.1
32.5°	15890.4	15240.7	13411.7	9753.6	6745.1	6418.2	6422.4	6678.9	7018.3	7192.1
35°	16676.7	15985.6	13854.4	9319.1	6596.2	6273.4	6103.7	6227.9	6509.3	6716.2
37.5°	17798.1	16962.2	14396.5	8698.3	6376.9	6049.9	5768.5	5797.5	6012.7	6240.3
40°	19345.7	18274.0	15033.8	8052.8	6062.4	5735.4	5400.3	5387.8	5545.1	5768.5
42.5°	21439.6	20007.8	15799.4	7436.2	5760.3	5354.7	5011.3	4990.6	5114.7	5309.2
45°	24203.9	22225.9	16738.7	6906.5	5524.4	4982.3	4643.0	4634.7	4738.2	4907.8
47.5°	27742.0	25308.8	17678.1	6546.5	5400.3	4688.5	4340.9	4357.4	4448.5	4601.6
50°	32322.9	29326.9	17963.6	6364.4	5400.3	4531.2	4071.9	4154.7	4229.2	4345.0
52.5°	37814.2	33183.6	17020.1	6198.9	5433.4	4551.9	3844.3	4022.3	4076.1	4175.4
55°	42904.1	35074.8	14632.4	5971.3	5441.6	4680.2	3649.8	3914.7	4014.0	4051.2
57.5°	45858.7	34425.1	11830.9	5586.5	5408.5	4767.1	3525.7	3782.2	3972.6	3997.4
60°	45295.9	32145.0	8710.8	5292.7	5164.4	4734.0	3488.4	3579.5	3881.6	3918.8
62.5°	40959.2	28321.3	6045.8	5065.1	4626.4	4589.2	3476.0	3260.8	3682.9	3774.0
65°	32922.9	22296.2	4270.5	4361.6	4055.4	4274.7	3409.8	2929.8	3442.9	3567.1
67.5°	23885.3	15087.6	3082.9	3534.0	3674.7	3765.7	3260.8	2689.8	3169.8	3335.3
70°	15327.6	8148.0	2164.2	2333.9	3095.3	3198.8	3004.3	2474.6	2892.6	3082.9
72.5°	10895.7	4812.6	1555.9	1634.6	2487.0	2665.0	2644.3	2234.6	2569.8	2801.5
75°	7519.0	2652.5	1051.1	1167.0	1804.2	2164.2	2040.1	1920.1	2176.7	2412.5
77.5°	4713.3	1187.6	629.0	811.1	1183.5	1700.8	1398.7	1485.6	1696.6	1916.0
80°	2623.6	459.3	351.7	538.0	645.5	1237.3	773.8	955.9	1249.7	1407.0
82.5°	571.1	57.9	157.2	231.7	252.4	720.0	409.7	554.5	786.2	773.8
85°	0.0	0.0	29.0	33.1	16.6	310.4	149.0	182.1	256.6	240.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956139
 CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8317.6	0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
7481.7	2.5°	7448.6	7245.9	7096.9	7022.4	6960.3	7018.3	7051.4	7051.4	7192.1	7274.8
6894.1	5°	6749.3	6385.1	6107.9	5921.7	5809.9	5847.2	5888.6	5934.1	6112.0	6232.0
6546.5	7.5°	6265.1	5706.5	5284.4	5023.7	4887.1	4907.8	4936.8	4974.0	5147.8	5267.8
6596.2	10°	6174.1	5371.3	4775.4	4431.9	4266.4	4237.4	4220.9	4208.5	4311.9	4403.0
7159.0	12.5°	6546.5	5387.8	4556.1	4138.1	3935.4	3848.5	3749.1	3670.5	3687.1	3745.0
8011.4	15°	7212.8	5598.9	4485.7	3985.0	3732.6	3587.8	3471.9	3376.7	3356.0	3376.7
8756.3	17.5°	7974.2	5884.4	4477.5	3852.6	3538.1	3389.1	3293.9	3207.0	3178.1	3182.2
9174.2	20°	8479.0	6112.0	4452.6	3703.6	3351.9	3219.5	3136.7	3049.8	3020.8	3029.1
9058.4	22.5°	8528.7	6232.0	4415.4	3538.1	3165.7	3053.9	2971.2	2892.6	2888.4	2888.4
8623.9	25°	8259.7	6232.0	4336.8	3389.1	2987.7	2888.4	2813.9	2718.7	2735.3	2743.6
8131.4	27.5°	7841.7	6083.0	4187.8	3269.1	2834.6	2731.2	2656.7	2569.8	2590.5	2602.9
7672.1	30°	7427.9	5892.7	4009.8	3132.6	2689.8	2569.8	2516.0	2441.5	2449.8	2466.3
7216.9	32.5°	7043.1	5689.9	3798.8	3020.8	2544.9	2424.9	2383.6	2300.8	2313.2	2329.8
6770.0	35°	6662.4	5466.5	3550.5	2888.4	2412.5	2292.5	2259.4	2164.2	2172.5	2197.3
6323.1	37.5°	6252.7	5230.6	3347.7	2756.0	2284.2	2160.1	2127.0	2027.7	2036.0	2064.9
5859.6	40°	5822.3	4998.9	3149.1	2615.3	2147.7	2023.5	1994.6	1887.0	1895.3	1928.4
5404.4	42.5°	5387.8	4746.4	2996.0	2433.2	2007.0	1874.6	1845.6	1746.3	1758.7	1795.9
5007.1	45°	4986.4	4444.3	2896.7	2230.5	1874.6	1725.6	1696.6	1605.6	1630.4	1671.8
4671.9	47.5°	4643.0	4134.0	2855.3	2060.8	1733.9	1572.5	1547.7	1473.2	1514.6	1560.1
4386.4	50°	4349.2	3836.0	2801.5	1887.0	1601.5	1440.1	1415.2	1365.6	1419.4	1464.9
4191.9	52.5°	4138.1	3496.7	2685.6	1729.7	1485.6	1328.3	1320.1	1295.2	1344.9	1386.3
4047.1	55°	3956.0	3145.0	2499.4	1593.2	1382.1	1233.2	1241.4	1229.0	1270.4	1303.5
3960.2	57.5°	3790.5	2838.8	2263.6	1485.6	1270.4	1150.4	1175.2	1158.7	1179.4	1200.1
3869.1	60°	3591.9	2528.4	1982.2	1365.6	1138.0	1067.6	1096.6	1051.1	1046.9	1055.2
3703.6	62.5°	3298.1	2110.4	1688.4	1216.6	1022.1	976.6	989.0	902.1	835.9	835.9
3459.5	65°	2888.4	1696.6	1415.2	1051.1	889.7	852.5	844.2	720.0	629.0	620.7
3194.6	67.5°	2412.5	1394.5	1175.2	885.6	740.7	715.9	724.2	633.1	542.1	533.8
2929.8	70°	1965.6	1154.5	947.6	707.6	571.1	595.9	633.1	542.1	455.2	442.8
2619.4	72.5°	1597.3	918.7	740.7	542.1	422.1	492.4	538.0	442.8	360.0	351.7
2234.6	75°	1233.2	674.5	529.7	368.3	306.2	380.7	422.1	322.8	256.6	244.1
1729.7	77.5°	823.5	418.0	297.9	231.7	182.1	260.7	281.4	169.7	149.0	144.8
1258.0	80°	500.7	194.5	128.3	111.7	62.1	95.2	111.7	70.3	78.6	82.8
670.4	82.5°	252.4	53.8	20.7	4.1	0.0	0.0	33.1	16.6	33.1	41.4
182.1	85°	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	20.7
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

REPORT NUMBER: P956139
 CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
8317.6	0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
7307.9	2.5°	7539.7	7713.5	7879.0	8143.8	8416.9	8685.9	8959.0	9223.9	9319.1	9389.4
6310.6	5°	6670.7	6997.6	7378.3	7903.8	8466.6	9045.9	9633.6	10171.5	10415.7	10581.2
5371.3	7.5°	5772.7	6198.9	6745.1	7535.5	8416.9	9339.8	10262.6	11110.9	11504.0	11822.6
4485.7	10°	4883.0	5346.5	6037.5	6939.6	8131.4	9455.6	10730.2	11897.1	12406.1	12807.5
3848.5	12.5°	4100.9	4535.4	5259.6	6256.8	7684.5	9364.6	10999.1	12402.0	13002.0	13453.0
3393.3	15°	3550.5	3856.7	4498.1	5574.1	7154.8	9070.8	11015.7	12642.0	13299.9	13771.7
3202.9	17.5°	3244.3	3347.7	3765.7	4878.9	6567.2	8685.9	10862.6	12724.7	13428.2	13866.9
3033.2	20°	3078.8	3095.3	3211.2	3976.7	5814.1	8325.9	10717.7	12807.5	13548.2	13916.5
2913.2	22.5°	2946.3	2946.3	2975.3	3252.6	4841.6	7895.5	10672.2	12952.3	13713.8	13941.3
2776.7	25°	2826.3	2826.3	2834.6	2909.1	3836.0	7237.6	10643.3	13175.8	13941.3	14003.4
2640.1	27.5°	2702.2	2706.3	2706.3	2747.7	3091.2	6343.7	10519.1	13465.5	14214.5	14086.2
2507.7	30°	2578.1	2586.3	2586.3	2615.3	2735.3	5296.8	10275.0	13813.1	14570.3	14193.8
2375.3	32.5°	2453.9	2462.2	2462.2	2487.0	2573.9	4229.2	9968.7	14131.7	14930.4	14239.3
2247.0	35°	2325.6	2338.0	2329.8	2362.9	2453.9	3364.3	9579.8	14450.3	15319.3	14384.1
2122.9	37.5°	2197.3	2205.6	2201.5	2234.6	2338.0	2905.0	9128.7	14690.3	15849.0	14706.9
1990.4	40°	2069.1	2064.9	2064.9	2102.2	2213.9	2772.5	8561.8	15071.1	16610.4	15273.8
1858.0	42.5°	1936.6	1936.6	1928.4	1969.7	2106.3	2673.2	8019.7	15753.8	17719.5	16175.9
1733.9	45°	1816.6	1812.5	1795.9	1833.2	2002.9	2499.4	7829.3	17028.4	19358.2	17636.7
1609.7	47.5°	1700.8	1696.6	1655.3	1688.4	1878.7	2342.2	8541.1	19114.0	21630.0	19784.4
1510.4	50°	1597.3	1601.5	1522.8	1551.8	1754.6	2222.2	10084.6	21820.3	24646.7	22676.9
1427.7	52.5°	1502.1	1502.1	1398.7	1415.2	1601.5	2114.6	11553.6	24754.3	28627.6	26711.6
1340.8	55°	1407.0	1398.7	1282.8	1291.1	1448.3	1961.5	11773.0	27617.9	34056.8	32782.2
1245.6	57.5°	1299.4	1282.8	1175.2	1175.2	1307.6	1849.7	10204.6	29819.3	40793.7	41704.0
1067.6	60°	1167.0	1154.5	1084.2	1063.5	1195.9	1949.1	7200.3	30075.9	45138.7	53568.0
848.3	62.5°	997.3	1013.8	976.6	947.6	1088.3	2023.5	4266.4	28011.0	44087.6	57342.0
658.0	65°	786.2	852.5	844.2	823.5	1195.9	1704.9	2520.1	24046.7	40864.0	54296.4
575.2	67.5°	670.4	715.9	703.5	703.5	1253.9	1295.2	1584.9	18787.1	36427.9	50683.8
480.0	70°	571.1	616.6	571.1	571.1	947.6	786.2	1096.6	13117.9	31640.1	46686.3
384.8	72.5°	471.7	517.3	467.6	434.5	757.3	587.6	802.8	8197.6	27096.5	42523.4
273.1	75°	360.0	413.8	376.6	335.2	500.7	438.6	608.3	4763.0	22449.3	36382.4
165.5	77.5°	227.6	297.9	281.4	235.9	368.3	318.6	438.6	2834.6	17322.2	28428.9
99.3	80°	140.7	153.1	157.2	149.0	211.0	215.2	297.9	1613.9	11855.7	19813.4
62.1	82.5°	91.0	91.0	70.3	78.6	103.5	124.1	169.7	608.3	6968.6	12062.6
37.2	85°	66.2	57.9	37.2	37.2	49.7	62.1	66.2	186.2	2826.3	4763.0
16.6	87.5°	33.1	29.0	12.4	16.6	24.8	20.7	16.6	8.3	711.8	1522.8
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: P956139
 CATALOG NUMBER: GALN-SB8D-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
8317.6	0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
9546.7	2.5°	9629.4	9757.7	9766.0	9766.0	9654.2	9650.1	9422.5	9397.7
10953.6	5°	11338.5	11421.2	11441.9	11400.5	11177.1	11011.6	10568.8	10473.6
12389.6	7.5°	12902.7	13068.2	13068.2	12968.9	12604.7	12265.4	11624.0	11384.0
13577.2	10°	14152.4	14342.7	14301.4	14098.6	13639.3	13171.7	12393.7	12079.2
14297.2	12.5°	14760.7	14955.2	14847.6	14615.9	14168.9	13676.5	12857.2	12501.3
14504.1	15°	14748.3	14694.5	14582.8	14553.8	14338.6	13966.2	13200.6	12811.6
14375.9	17.5°	14222.7	13767.5	13680.6	13970.3	14243.4	14152.4	13498.6	13134.4
14069.6	20°	13391.0	12596.5	12517.8	13072.3	13850.3	14247.6	13775.8	13440.6
13626.9	22.5°	12513.7	11657.1	11475.0	12087.5	13258.6	14276.5	14127.6	13792.4
13138.6	25°	11681.9	10821.2	10639.1	11210.2	12600.6	14226.9	14508.3	14222.7
12670.9	27.5°	10986.7	10155.0	9985.3	10556.4	11967.5	14086.2	14889.0	14686.2
12207.5	30°	10448.8	9679.1	9554.9	10105.3	11421.2	13912.4	15373.1	15261.4
11777.1	32.5°	10134.3	9571.5	9617.0	10068.1	11127.4	13722.0	15836.6	15890.4
11566.1	35°	10444.6	10469.5	10866.7	11052.9	11400.5	13693.1	16465.6	16676.7
11818.5	37.5°	11988.2	12848.9	13672.4	13519.3	12737.2	14028.2	17405.0	17798.1
12919.2	40°	14615.9	16382.8	17719.5	17136.0	15166.2	15054.5	18758.1	19345.7
14872.4	42.5°	17827.0	20823.1	23024.5	21460.3	18298.8	16850.5	20690.6	21439.6
17235.3	45°	21216.2	26297.8	29765.5	26513.0	21638.3	19366.4	23616.3	24203.9
19449.2	47.5°	24787.4	32951.9	37437.6	32116.0	24733.6	22230.0	27605.4	27742.0
21547.2	50°	28693.8	40247.4	45258.7	37714.9	27721.3	25511.6	32480.2	32322.9
23992.9	52.5°	32413.9	47749.8	52914.2	43338.6	30344.9	29583.5	38137.0	37814.2
27336.5	55°	35964.5	55248.1	60615.3	48743.0	32819.5	34963.0	44857.3	42904.1
32157.4	57.5°	40081.9	61989.1	68552.2	54172.2	36279.0	41948.2	52372.1	45858.7
41389.5	60°	46169.1	69648.8	77527.8	61612.6	42858.6	49289.2	55066.1	45295.9
52446.6	62.5°	53940.5	76691.9	84053.6	68903.9	49467.2	50671.4	51097.6	40959.2
50191.3	65°	55450.9	78475.4	84421.9	70853.0	48614.7	42982.7	41716.5	32922.9
44832.5	67.5°	51445.2	75251.8	79274.1	67223.9	43003.4	33216.7	31304.9	23885.3
41315.1	70°	46951.2	69106.7	70302.6	61053.9	37822.5	24431.5	21141.7	15327.6
38906.7	72.5°	42345.4	60909.1	58434.5	53021.8	33241.6	17789.8	15249.0	10895.7
35476.2	75°	36874.8	50129.3	46028.4	44054.5	27522.7	13962.0	11032.2	7519.0
30514.5	77.5°	29529.7	35285.8	34189.2	34147.8	20682.4	10200.5	7361.7	4713.3
23839.7	80°	20831.3	22900.4	22341.7	25718.5	13875.1	7399.0	4431.9	2623.6
16593.9	82.5°	10084.6	12662.7	12997.9	15315.2	6749.3	4353.3	1022.1	571.1
6488.6	85°	3947.8	6107.9	5152.0	5814.1	1895.3	1212.5	24.8	0.0
1067.6	87.5°	442.8	707.6	649.7	513.1	231.7	49.7	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)