

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: P954354

Luminaire Tested: **GALN-SB7C-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954354
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-SB7C-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA 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: 38880 lumens
Efficiency: N/A
Efficacy: 110.9 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

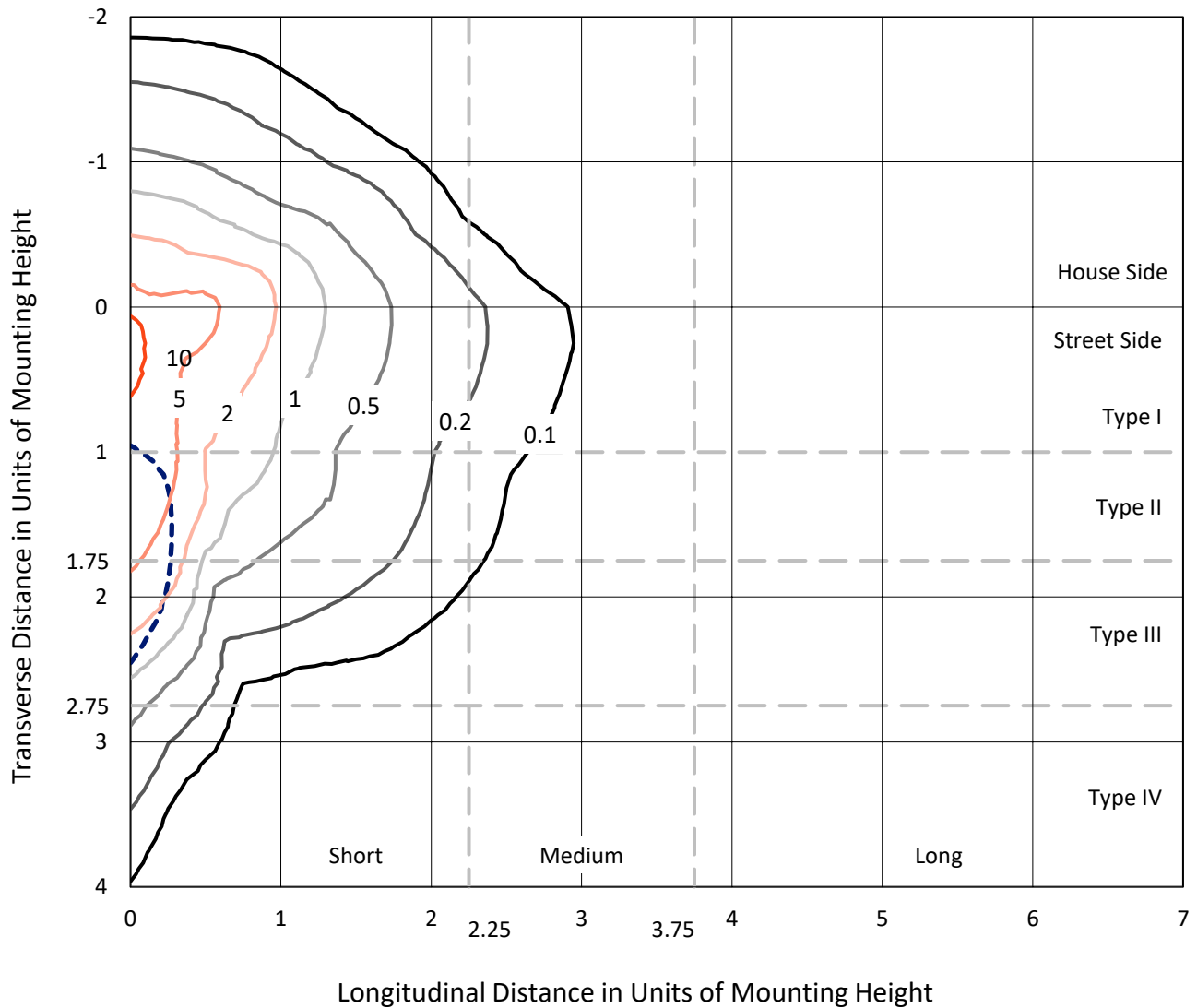
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954354
 CATALOG NUMBER: GALN-SB7C-850-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

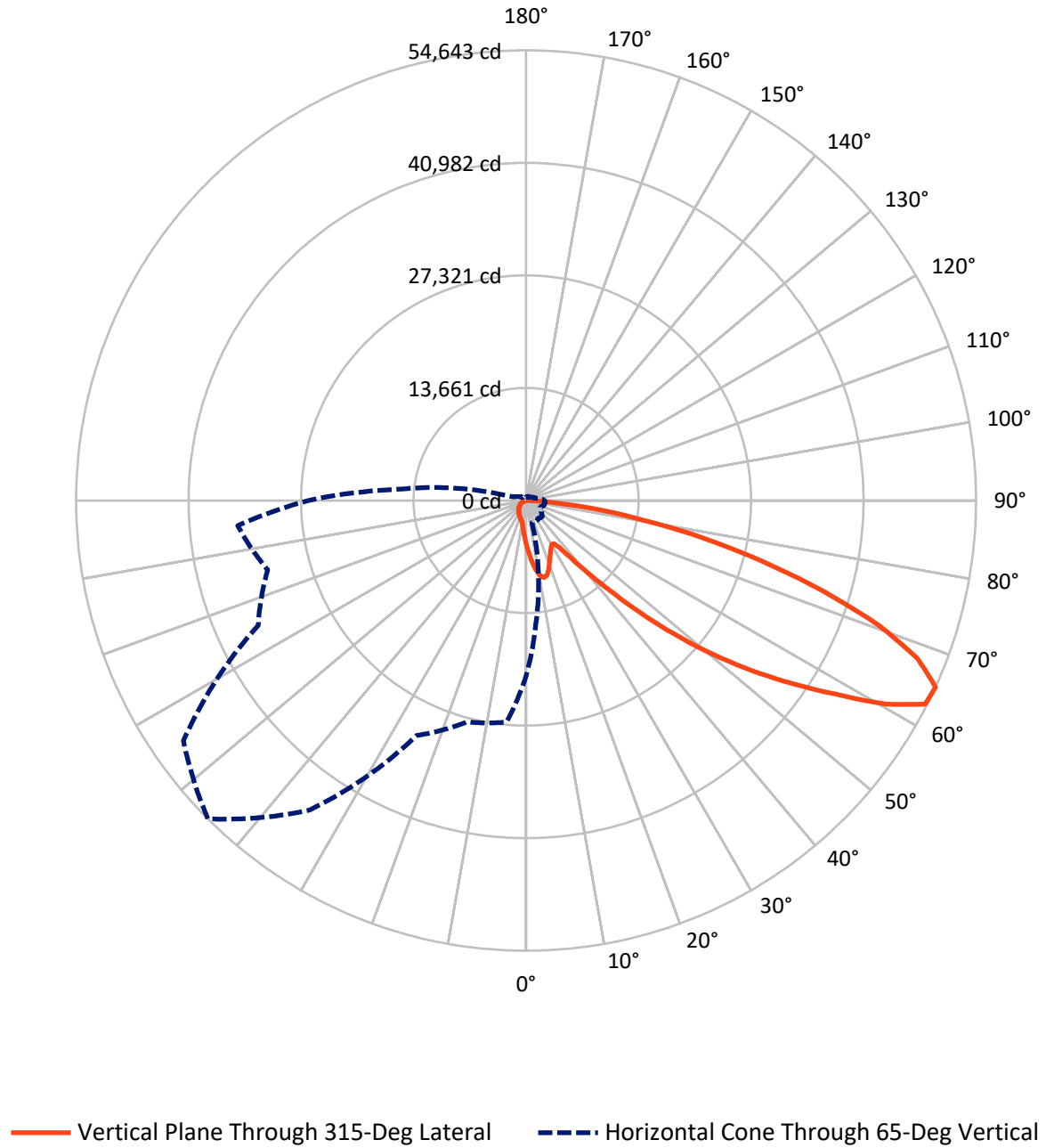
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

REPORT NUMBER: P954354
CATALOG NUMBER: GALN-SB7C-850-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P954354
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5444.9	0.0	5444.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	33435.1	0.0	33435.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	38880.0	0.0	38880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.0	1.4
10°-20°	1588.9	4.1
20°-30°	2340.8	6.0
30°-40°	3007.2	7.7
40°-50°	4863.6	12.5
50°-60°	8528.8	21.9
60°-70°	10671.9	27.4
70°-80°	6236.1	16.0
80°-90°	1112.6	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°	38880.0	100.0
0°-180°	38880.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954354

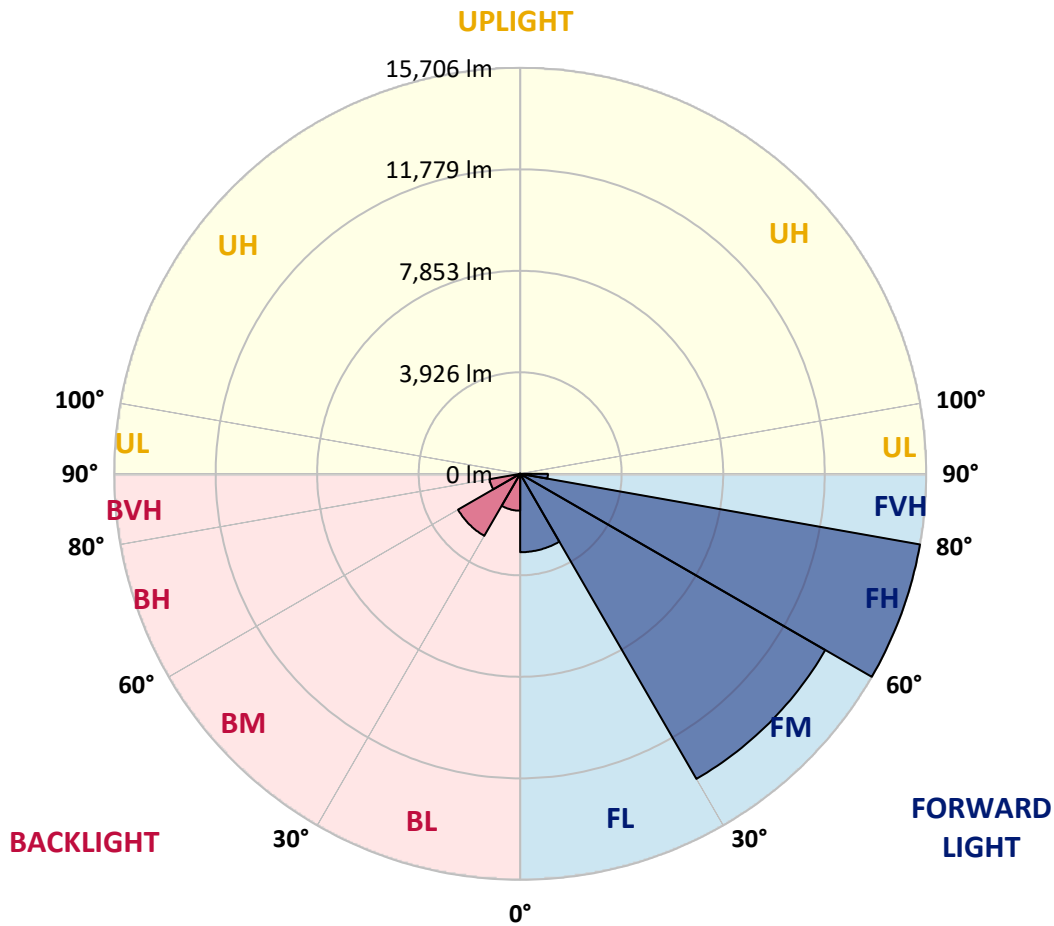
CATALOG NUMBER: GALN-SB7C-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3032.5	7.8			
FM (30°-60°)	13627.0	35.0			
FH (60°-80°)	15705.8	40.4			G5
FVH (80°-90°)	1069.9	2.8			G5
BL (0°-30°)	1427.2	3.7	B3/2500		
BM (30°-60°)	2772.7	7.1	B3/5000		
BH (60°-80°)	1202.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	42.7	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: P954354

CATALOG NUMBER: GALN-SB7C-850-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
2.5°	6082.7	5978.2	5916.6	5764.0	5611.3	5488.1	5322.0	5212.2	5081.0	4955.1
5°	6779.1	6610.4	6406.8	6128.2	5873.8	5614.0	5362.2	5113.1	4850.6	4609.6
7.5°	7368.3	7124.6	6765.7	6396.1	6072.0	5758.6	5464.0	5134.5	4815.8	4438.2
10°	7818.3	7507.6	7036.2	6551.4	6179.1	5863.1	5576.5	5297.9	4976.5	4521.2
12.5°	8091.5	7759.4	7199.6	6631.8	6205.9	5852.4	5630.1	5506.8	5381.0	4928.3
15°	8292.4	7933.5	7314.8	6688.0	6144.3	5710.4	5547.0	5670.2	5814.9	5525.6
17.5°	8501.3	8123.7	7464.8	6712.1	5978.2	5434.5	5364.9	5683.6	6018.4	6005.0
20°	8699.5	8324.5	7596.0	6696.1	5710.4	5099.7	5161.3	5568.4	5956.8	6120.2
22.5°	8927.2	8530.8	7721.9	6634.5	5362.2	4786.3	4979.2	5386.3	5726.5	5919.3
25°	9205.7	8790.6	7898.7	6543.4	4987.2	4526.5	4794.4	5174.7	5450.6	5584.5
27.5°	9505.7	9101.3	8134.4	6495.2	4684.6	4341.7	4585.5	4922.9	5169.4	5263.1
30°	9878.0	9462.9	8412.9	6441.6	4486.4	4234.6	4368.5	4631.0	4872.1	4965.8
32.5°	10285.2	9864.6	8680.8	6313.0	4365.8	4154.2	4156.9	4323.0	4542.6	4655.1
35°	10794.1	10346.8	8967.4	6031.8	4269.4	4060.5	3950.7	4031.0	4213.2	4347.1
37.5°	11519.9	10978.9	9318.2	5630.1	4127.5	3915.9	3733.7	3752.5	3891.8	4039.1
40°	12521.6	11827.9	9730.7	5212.2	3923.9	3712.3	3495.3	3487.3	3589.1	3733.7
42.5°	13876.9	12950.2	10226.2	4813.1	3728.4	3465.9	3243.6	3230.2	3310.5	3436.4
45°	15666.1	14385.8	10834.2	4470.3	3575.7	3224.8	3005.2	2999.8	3066.8	3176.6
47.5°	17956.2	16381.3	11442.2	4237.3	3495.3	3034.7	2809.7	2820.4	2879.3	2978.4
50°	20921.2	18982.0	11627.0	4119.4	3495.3	2932.9	2635.6	2689.1	2737.4	2812.3
52.5°	24475.5	21478.3	11016.4	4012.3	3516.8	2946.3	2488.3	2603.4	2638.2	2702.5
55°	27769.9	22702.3	9470.9	3865.0	3522.1	3029.3	2362.4	2533.8	2598.1	2622.2
57.5°	29682.3	22281.8	7657.6	3615.9	3500.7	3085.5	2282.0	2448.1	2571.3	2587.4
60°	29318.0	20806.0	5638.1	3425.7	3342.7	3064.1	2257.9	2316.8	2512.4	2536.5
62.5°	26511.1	18331.1	3913.2	3278.4	2994.5	2970.4	2249.9	2110.6	2383.8	2442.7
65°	21309.6	14431.4	2764.1	2823.1	2624.9	2766.8	2207.0	1896.3	2228.5	2308.8
67.5°	15459.9	9765.5	1995.4	2287.4	2378.4	2437.4	2110.6	1741.0	2051.7	2158.8
70°	9920.9	5273.8	1400.8	1510.6	2003.5	2070.4	1944.5	1601.7	1872.2	1995.4
72.5°	7052.3	3115.0	1007.1	1058.0	1609.7	1724.9	1711.5	1446.3	1663.3	1813.3
75°	4866.7	1716.9	680.3	755.3	1167.8	1400.8	1320.5	1242.8	1408.9	1561.5
77.5°	3050.7	768.7	407.1	525.0	766.0	1100.8	905.3	961.6	1098.2	1240.1
80°	1698.1	297.3	227.7	348.2	417.8	800.8	500.9	618.7	808.9	910.7
82.5°	369.6	37.5	101.8	150.0	163.4	466.0	265.2	358.9	508.9	500.9
85°	0.0	0.0	18.7	21.4	10.7	200.9	96.4	117.9	166.1	155.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954354
 CATALOG NUMBER: GALN-SB7C-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5383.6	0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
4842.6	2.5°	4821.2	4689.9	4593.5	4545.3	4505.1	4542.6	4564.0	4564.0	4655.1	4708.7
4462.3	5°	4368.5	4132.8	3953.4	3832.8	3760.5	3784.6	3811.4	3840.9	3956.0	4033.7
4237.3	7.5°	4055.1	3693.5	3420.3	3251.6	3163.2	3176.6	3195.4	3219.5	3332.0	3409.6
4269.4	10°	3996.2	3476.6	3090.9	2868.6	2761.5	2742.7	2732.0	2724.0	2790.9	2849.8
4633.7	12.5°	4237.3	3487.3	2948.9	2678.4	2547.2	2490.9	2426.7	2375.8	2386.5	2424.0
5185.4	15°	4668.5	3623.9	2903.4	2579.3	2415.9	2322.2	2247.2	2185.6	2172.2	2185.6
5667.5	17.5°	5161.3	3808.7	2898.1	2493.6	2290.1	2193.6	2132.0	2075.8	2057.0	2059.7
5938.1	20°	5488.1	3956.0	2882.0	2397.2	2169.5	2083.8	2030.2	1974.0	1955.3	1960.6
5863.1	22.5°	5520.2	4033.7	2857.9	2290.1	2049.0	1976.7	1923.1	1872.2	1869.5	1869.5
5581.8	25°	5346.1	4033.7	2807.0	2193.6	1933.8	1869.5	1821.3	1759.7	1770.4	1775.8
5263.1	27.5°	5075.6	3937.3	2710.6	2116.0	1834.7	1767.8	1719.5	1663.3	1676.7	1684.7
4965.8	30°	4807.8	3814.1	2595.4	2027.6	1741.0	1663.3	1628.5	1580.3	1585.6	1596.3
4671.2	32.5°	4558.7	3682.8	2458.8	1955.3	1647.2	1569.6	1542.8	1489.2	1497.2	1508.0
4381.9	35°	4312.3	3538.2	2298.1	1869.5	1561.5	1483.8	1462.4	1400.8	1406.2	1422.2
4092.6	37.5°	4047.1	3385.5	2166.8	1783.8	1478.5	1398.1	1376.7	1312.4	1317.8	1336.5
3792.7	40°	3768.5	3235.5	2038.3	1692.8	1390.1	1309.8	1291.0	1221.4	1226.7	1248.1
3498.0	42.5°	3487.3	3072.2	1939.2	1574.9	1299.0	1213.3	1194.6	1130.3	1138.3	1162.4
3240.9	45°	3227.5	2876.6	1874.9	1443.7	1213.3	1116.9	1098.2	1039.2	1055.3	1082.1
3023.9	47.5°	3005.2	2675.7	1848.1	1333.9	1122.3	1017.8	1001.7	953.5	980.3	1009.8
2839.1	50°	2815.0	2482.9	1813.3	1221.4	1036.6	932.1	916.0	883.9	918.7	948.2
2713.2	52.5°	2678.4	2263.3	1738.3	1119.6	961.6	859.8	854.4	838.3	870.5	897.3
2619.5	55°	2560.6	2035.6	1617.8	1031.2	894.6	798.2	803.5	795.5	822.3	843.7
2563.3	57.5°	2453.4	1837.4	1465.1	961.6	822.3	744.6	760.7	750.0	763.4	776.7
2504.3	60°	2324.9	1636.5	1283.0	883.9	736.6	691.0	709.8	680.3	677.6	683.0
2397.2	62.5°	2134.7	1366.0	1092.8	787.5	661.6	632.1	640.1	583.9	541.0	541.0
2239.2	65°	1869.5	1098.2	916.0	680.3	575.9	551.8	546.4	466.0	407.1	401.8
2067.7	67.5°	1561.5	902.6	760.7	573.2	479.4	463.4	468.7	409.8	350.9	345.5
1896.3	70°	1272.3	747.3	613.4	458.0	369.6	385.7	409.8	350.9	294.6	286.6
1695.4	72.5°	1033.9	594.6	479.4	350.9	273.2	318.7	348.2	286.6	233.0	227.7
1446.3	75°	798.2	436.6	342.8	238.4	198.2	246.4	273.2	208.9	166.1	158.0
1119.6	77.5°	533.0	270.5	192.8	150.0	117.9	168.7	182.1	109.8	96.4	93.7
814.2	80°	324.1	125.9	83.0	72.3	40.2	61.6	72.3	45.5	50.9	53.6
433.9	82.5°	163.4	34.8	13.4	2.7	0.0	0.0	21.4	10.7	21.4	26.8
117.9	85°	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.4
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: P954354
 CATALOG NUMBER: GALN-SB7C-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
5383.6	0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
4730.1	2.5°	4880.1	4992.6	5099.7	5271.1	5447.9	5622.0	5798.8	5970.2	6031.8	6077.3
4084.6	5°	4317.6	4529.2	4775.6	5115.8	5480.1	5855.0	6235.4	6583.6	6741.6	6848.7
3476.6	7.5°	3736.4	4012.3	4365.8	4877.4	5447.9	6045.2	6642.5	7191.6	7446.0	7652.3
2903.4	10°	3160.5	3460.5	3907.8	4491.7	5263.1	6120.2	6945.2	7700.5	8029.9	8289.7
2490.9	12.5°	2654.3	2935.6	3404.3	4049.8	4973.8	6061.3	7119.3	8027.2	8415.6	8707.6
2196.3	15°	2298.1	2496.3	2911.4	3607.8	4631.0	5871.1	7130.0	8182.6	8608.5	8913.8
2073.1	17.5°	2099.9	2166.8	2437.4	3157.9	4250.7	5622.0	7030.9	8236.2	8691.5	8975.4
1963.3	20°	1992.7	2003.5	2078.5	2574.0	3763.2	5389.0	6937.1	8289.7	8769.2	9007.5
1885.6	22.5°	1907.0	1907.0	1925.8	2105.2	3133.8	5110.4	6907.7	8383.5	8876.3	9023.6
1797.2	25°	1829.4	1829.4	1834.7	1882.9	2482.9	4684.6	6888.9	8528.1	9023.6	9063.8
1708.8	27.5°	1749.0	1751.7	1751.7	1778.5	2000.8	4106.0	6808.6	8715.6	9200.4	9117.4
1623.1	30°	1668.7	1674.0	1674.0	1692.8	1770.4	3428.4	6650.5	8940.6	9430.7	9187.0
1537.4	32.5°	1588.3	1593.7	1593.7	1609.7	1666.0	2737.4	6452.3	9146.8	9663.8	9216.5
1454.4	35°	1505.3	1513.3	1508.0	1529.4	1588.3	2177.6	6200.6	9353.1	9915.5	9310.2
1374.0	37.5°	1422.2	1427.6	1424.9	1446.3	1513.3	1880.3	5908.6	9508.4	10258.4	9519.1
1288.3	40°	1339.2	1336.5	1336.5	1360.6	1433.0	1794.5	5541.7	9754.8	10751.2	9886.1
1202.6	42.5°	1253.5	1253.5	1248.1	1274.9	1363.3	1730.3	5190.8	10196.8	11469.0	10470.0
1122.3	45°	1175.8	1173.2	1162.4	1186.5	1296.4	1617.8	5067.6	11021.7	12529.7	11415.5
1041.9	47.5°	1100.8	1098.2	1071.4	1092.8	1216.0	1516.0	5528.3	12371.6	14000.1	12805.6
977.6	50°	1033.9	1036.6	985.7	1004.4	1135.7	1438.3	6527.3	14123.3	15952.7	14677.8
924.1	52.5°	972.3	972.3	905.3	916.0	1036.6	1368.7	7478.2	16022.3	18529.3	17289.2
867.8	55°	910.7	905.3	830.3	835.7	937.4	1269.6	7620.1	17875.8	22043.4	21218.5
806.2	57.5°	841.0	830.3	760.7	760.7	846.4	1197.3	6605.0	19300.7	26403.9	26993.2
691.0	60°	755.3	747.3	701.7	688.4	774.1	1261.5	4660.5	19466.8	29216.3	34672.2
549.1	62.5°	645.5	656.2	632.1	613.4	704.4	1309.8	2761.5	18130.3	28535.9	37114.9
425.9	65°	508.9	551.8	546.4	533.0	774.1	1103.5	1631.2	15564.3	26449.5	35143.6
372.3	67.5°	433.9	463.4	455.3	455.3	811.6	838.3	1025.8	12160.1	23578.2	32805.4
310.7	70°	369.6	399.1	369.6	369.6	613.4	508.9	709.8	8490.6	20479.2	30218.0
249.1	72.5°	305.3	334.8	302.7	281.2	490.2	380.3	519.6	5306.0	17538.3	27523.5
176.8	75°	233.0	267.8	243.7	217.0	324.1	283.9	393.7	3082.9	14530.5	23548.7
107.1	77.5°	147.3	192.8	182.1	152.7	238.4	206.2	283.9	1834.7	11211.9	18400.8
64.3	80°	91.1	99.1	101.8	96.4	136.6	139.3	192.8	1044.6	7673.7	12824.3
40.2	82.5°	58.9	58.9	45.5	50.9	67.0	80.4	109.8	393.7	4510.5	7807.6
24.1	85°	42.9	37.5	24.1	24.1	32.1	40.2	42.9	120.5	1829.4	3082.9
10.7	87.5°	21.4	18.7	8.0	10.7	16.1	13.4	10.7	5.4	460.7	985.7
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: P954354
 CATALOG NUMBER: GALN-SB7C-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
5383.6	0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
6179.1	2.5°	6232.7	6315.7	6321.1	6321.1	6248.8	6246.1	6098.8	6082.7
7089.8	5°	7338.9	7392.5	7405.8	7379.1	7234.4	7127.3	6840.7	6779.1
8019.2	7.5°	8351.3	8458.5	8458.5	8394.2	8158.5	7938.9	7523.7	7368.3
8787.9	10°	9160.2	9283.4	9256.6	9125.4	8828.1	8525.4	8021.9	7818.3
9254.0	12.5°	9553.9	9679.8	9610.2	9460.2	9170.9	8852.2	8321.9	8091.5
9387.9	15°	9545.9	9511.1	9438.8	9420.0	9280.7	9039.7	8544.2	8292.4
9304.9	17.5°	9205.7	8911.1	8854.9	9042.4	9219.1	9160.2	8737.0	8501.3
9106.6	20°	8667.4	8153.1	8102.2	8461.1	8964.7	9221.8	8916.5	8699.5
8820.1	22.5°	8099.6	7545.1	7427.3	7823.7	8581.7	9240.6	9144.1	8927.2
8504.0	25°	7561.2	7004.1	6886.2	7255.9	8155.8	9208.4	9390.6	9205.7
8201.3	27.5°	7111.2	6572.9	6463.0	6832.7	7746.0	9117.4	9637.0	9505.7
7901.4	30°	6763.0	6264.8	6184.5	6540.7	7392.5	9004.9	9950.4	9878.0
7622.8	32.5°	6559.5	6195.2	6224.7	6516.6	7202.3	8881.7	10250.3	10285.2
7486.2	35°	6760.3	6776.4	7033.5	7154.1	7379.1	8862.9	10657.5	10794.1
7649.6	37.5°	7759.4	8316.5	8849.5	8750.4	8244.2	9079.9	11265.5	11519.9
8362.0	40°	9460.2	10603.9	11469.0	11091.4	9816.4	9744.1	12141.3	12521.6
9626.3	42.5°	11538.7	13477.8	14902.8	13890.3	11844.0	10906.6	13392.1	13876.9
11155.6	45°	13732.3	17021.4	19265.9	17160.7	14005.5	12535.0	15285.8	15666.1
12588.6	47.5°	16043.8	21328.3	24231.7	20787.3	16009.0	14388.5	17867.8	17956.2
13946.6	50°	18572.2	26050.4	29293.9	24411.2	17942.8	16512.5	21023.0	20921.2
15529.5	52.5°	20980.1	30906.4	34249.0	28051.2	19640.9	19148.1	24684.4	24475.5
17693.7	55°	23278.2	35759.7	39233.6	31549.2	21242.6	22630.0	29034.1	27769.9
20814.0	57.5°	25943.2	40122.8	44370.8	35063.3	23481.8	27151.2	33898.2	29682.3
26789.6	60°	29883.2	45080.6	50180.3	39879.1	27740.5	31902.7	35641.8	29318.0
33946.4	62.5°	34913.3	49639.3	54404.2	44598.5	32017.9	32797.3	33073.2	26511.1
32486.6	65°	35890.9	50793.7	54642.6	45860.0	31466.1	27820.8	27001.2	21309.6
29018.1	67.5°	33298.2	48707.2	51310.6	43511.0	27834.2	21499.7	20262.3	15459.9
26741.4	70°	30389.4	44729.7	45503.8	39517.5	24480.8	15813.4	13684.1	9920.9
25182.6	72.5°	27408.3	39423.7	37822.1	34318.7	21515.8	11514.6	9870.0	7052.3
22962.1	75°	23867.5	32446.5	29792.1	28514.5	17814.2	9037.0	7140.7	4866.7
19750.7	77.5°	19113.2	22838.9	22129.2	22102.4	13386.8	6602.3	4764.9	3050.7
15430.4	80°	13483.2	14822.4	14460.8	16646.4	8980.8	4789.0	2868.6	1698.1
10740.5	82.5°	6527.3	8196.0	8412.9	9912.9	4368.5	2817.7	661.6	369.6
4199.8	85°	2555.2	3953.4	3334.6	3763.2	1226.7	784.8	16.1	0.0
691.0	87.5°	286.6	458.0	420.5	332.1	150.0	32.1	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)