

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: P650750

Luminaire Tested: **GALN-SA2C-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8538.7 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108
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

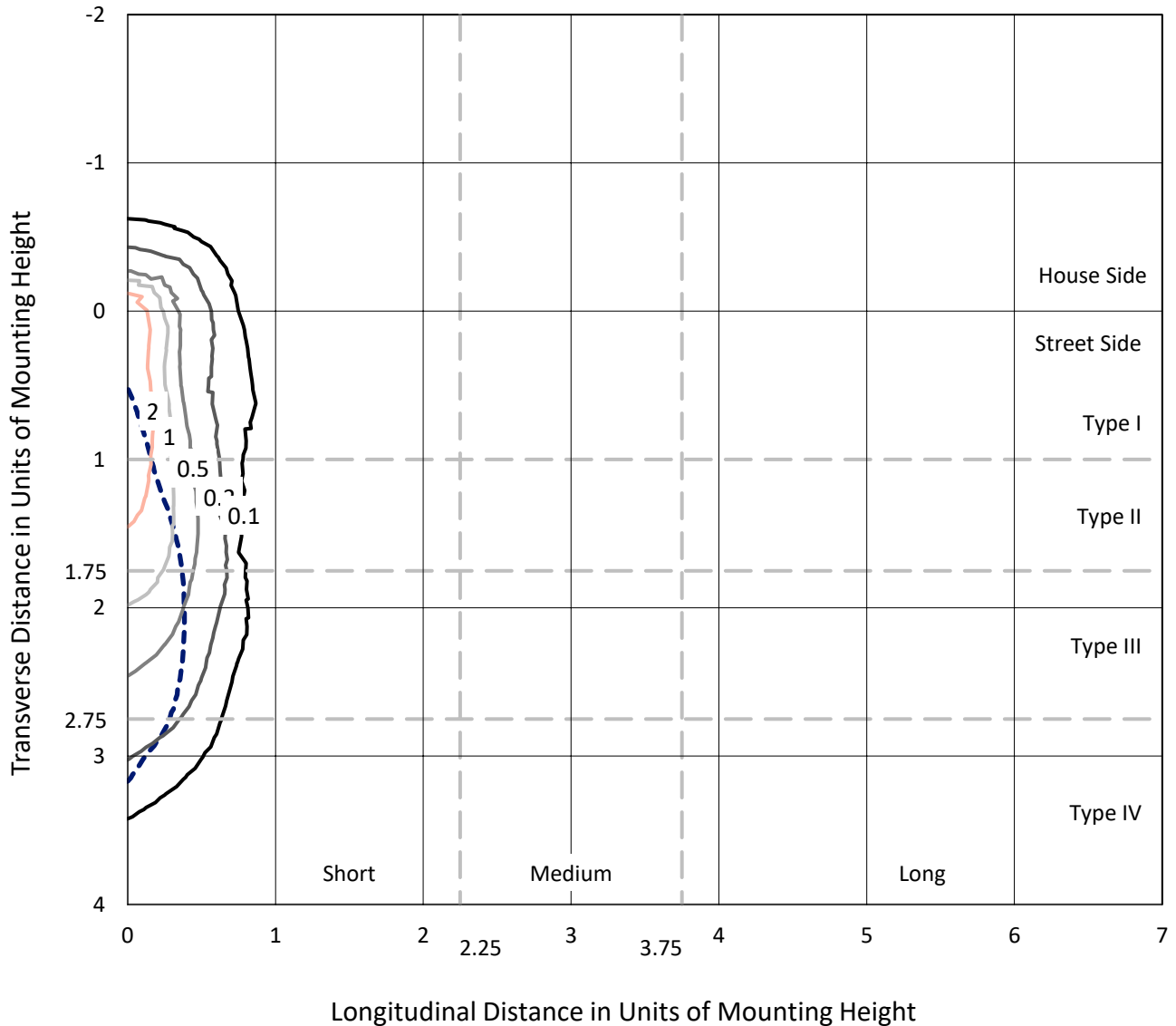




REPORT NUMBER: P650750
 CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

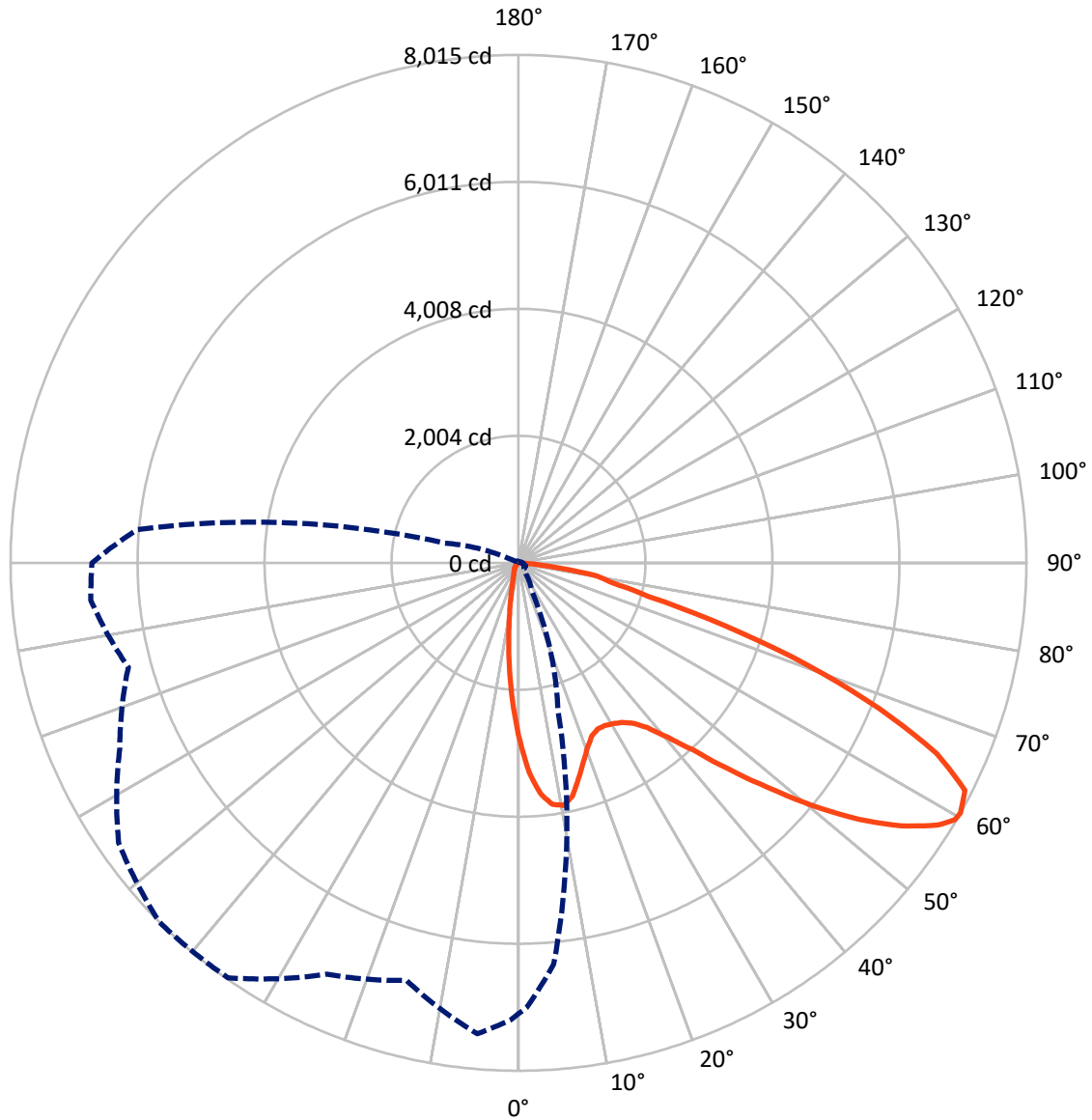
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P650750
CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P650750
 CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

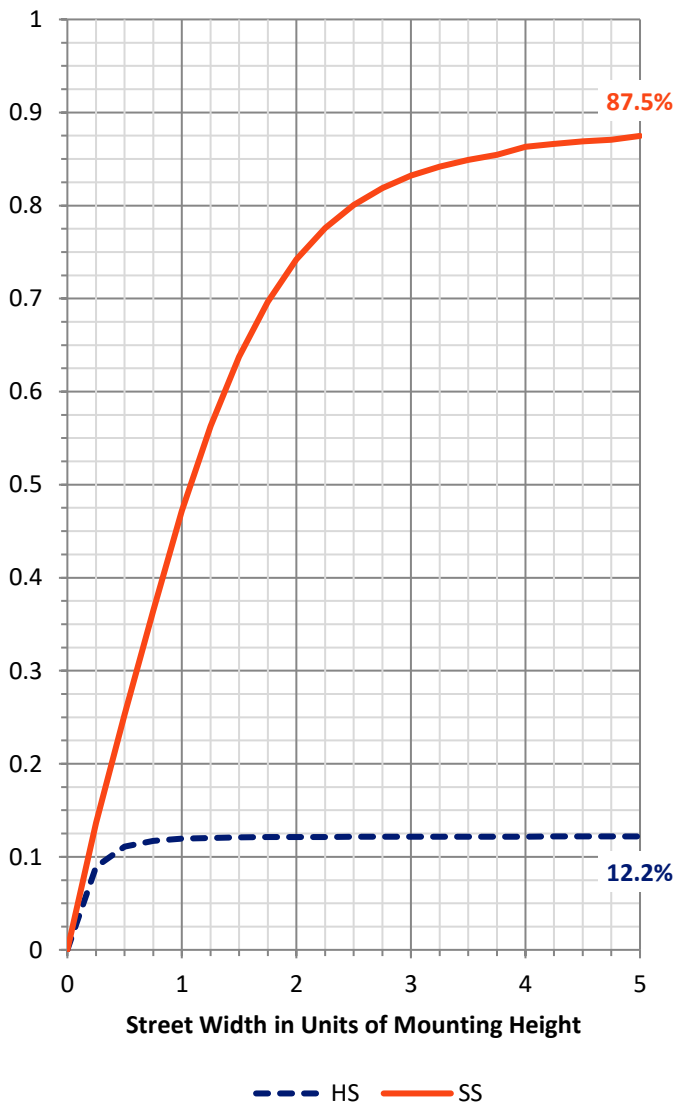
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1053.2	0.0	1053.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7485.5	0.0	7485.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	8538.7	0.0	8538.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	2.5
10°-20°	416.9	4.9
20°-30°	611.2	7.2
30°-40°	909.0	10.6
40°-50°	1322.9	15.5
50°-60°	1907.7	22.3
60°-70°	2098.3	24.6
70°-80°	939.9	11.0
80°-90°	122.8	1.4
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°	8538.7	100.0
0°-180°	8538.7	100.0

Coefficient of Utilization

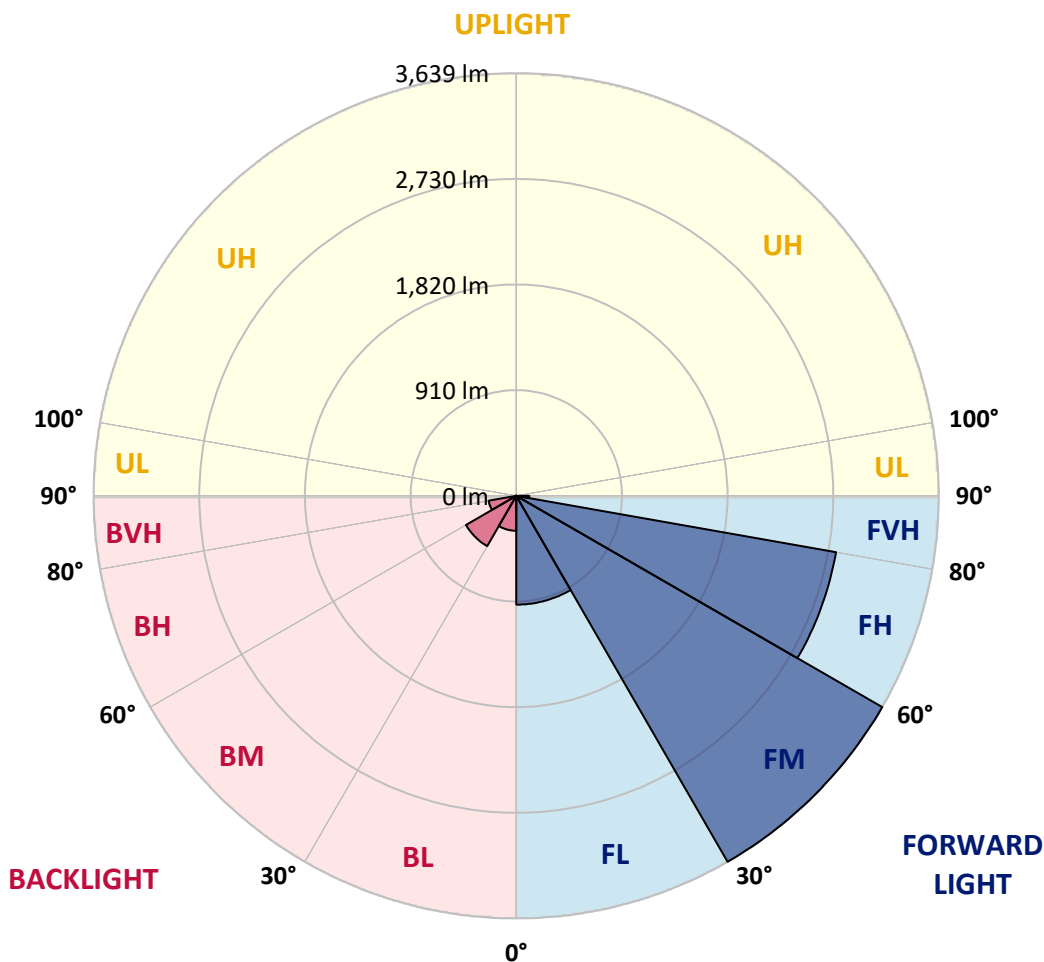


REPORT NUMBER: P650750
 CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.1	11.0			
FM (30°-60°)	3639.4	42.6			
FH (60°-80°)	2796.7	32.8			G2/5000
FVH (80°-90°)	112.3	1.3			G2/225
BL (0°-30°)	300.9	3.5	B1/500		
BM (30°-60°)	500.2	5.9	B1/1000		
BH (60°-80°)	241.5	2.8	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





REPORT NUMBER: P650750

CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1
2.5°	3102.5	3088.9	3057.8	2963.0	2880.6	2772.9	2663.8	2578.1	2525.5	2428.8	2384.7
5°	3005.8	3012.3	2922.1	2727.4	2510.6	2362.6	2201.0	2072.5	1931.0	1841.4	1747.3
7.5°	2753.3	2740.4	2642.3	2371.0	2107.5	1893.3	1688.9	1522.7	1418.2	1334.5	1264.4
10°	2537.2	2527.5	2402.2	2053.0	1770.1	1609.7	1471.4	1326.1	1213.7	1091.1	993.1
12.5°	2401.6	2379.5	2235.4	1870.6	1640.2	1490.9	1340.3	1189.1	1034.0	910.0	791.2
15°	2356.1	2324.4	2164.0	1807.6	1557.1	1367.6	1178.7	1004.7	826.3	689.3	599.7
17.5°	2438.6	2386.0	2215.3	1796.6	1457.8	1206.6	974.2	747.7	562.1	457.6	402.4
20°	2627.5	2567.1	2345.1	1785.6	1347.5	1026.2	740.6	528.3	388.8	331.7	301.2
22.5°	2907.8	2824.8	2537.2	1803.1	1245.6	850.3	534.8	373.2	309.0	273.2	251.9
25°	3244.7	3175.3	2780.6	1865.4	1165.1	712.0	413.4	305.0	260.3	238.2	221.9
27.5°	3614.0	3503.0	3095.4	1940.1	1091.7	604.9	362.8	272.6	231.7	211.6	203.2
30°	3876.9	3790.6	3359.0	1992.0	1000.2	524.4	331.7	268.7	232.4	208.3	192.8
32.5°	4136.5	4026.2	3579.6	2016.0	933.3	468.6	286.9	234.3	203.8	191.5	175.9
35°	4414.3	4298.8	3799.6	2003.0	883.4	431.6	260.3	209.0	174.6	153.8	138.3
37.5°	4695.4	4573.4	4018.4	1956.3	852.3	416.7	239.5	198.6	164.8	143.5	126.6
40°	5029.0	4866.1	4223.5	1918.0	819.8	408.9	225.9	192.1	157.7	135.0	118.2
42.5°	5301.6	5146.5	4417.6	1897.9	797.7	390.7	225.9	187.0	153.1	127.8	110.3
45°	5559.9	5399.0	4627.2	1914.1	788.6	368.0	228.5	186.3	150.0	122.7	105.1
47.5°	5776.1	5636.6	4842.7	1975.1	776.9	343.4	214.9	195.4	148.0	118.2	100.0
50°	6031.1	5896.2	5127.7	2098.5	756.1	318.7	198.0	210.3	147.3	114.2	95.5
52.5°	6390.8	6244.7	5521.0	2238.7	723.1	281.1	182.4	208.3	144.7	107.7	90.8
55°	6830.2	6712.0	5976.7	2406.8	677.6	238.8	157.7	185.0	136.9	96.7	83.1
57.5°	7111.8	7011.2	6318.0	2479.4	608.2	195.4	138.9	155.2	125.3	86.3	74.0
59°	7145.0	7054.1	6389.4	2455.5	562.7	178.5	129.9	133.0	122.0	80.5	68.8
60°	7117.0	7022.9	6360.9	2408.7	520.6	166.8	122.0	118.2	122.7	77.2	64.9
62.5°	6937.9	6776.9	6083.7	2171.8	455.0	153.1	108.4	96.7	108.4	69.5	57.8
65°	6591.9	6350.5	5535.3	1838.2	429.0	145.4	92.2	81.2	82.4	61.0	50.0
67.5°	5987.7	5683.2	4805.1	1493.5	418.0	146.1	77.9	72.7	63.6	51.9	44.2
70°	5032.2	4728.4	3855.5	1228.7	412.8	146.1	66.2	62.3	53.2	43.5	38.3
72.5°	3566.0	3238.9	2600.8	965.1	371.9	145.4	56.4	56.4	43.5	36.3	31.1
75°	2014.7	2017.3	1635.0	682.8	309.0	120.1	45.4	44.8	31.8	27.9	23.4
77.5°	1174.2	1153.4	1102.1	293.3	143.5	54.5	31.8	27.2	22.0	20.1	16.9
80°	603.7	496.5	483.6	106.5	51.3	34.4	22.0	15.6	14.3	13.0	11.7
82.5°	178.5	179.1	159.7	42.8	28.6	22.7	11.0	8.4	7.8	7.1	7.1
85°	12.4	7.8	9.1	13.0	17.5	9.1	0.7	1.9	1.9	2.6	3.3
87.5°	1.3	0.7	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	0.0



REPORT NUMBER: P650750

CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1
2.5°	2336.0	2364.6	2311.3	2312.7	2268.5	2282.8	2230.8	2247.7	2217.2	2240.6	2309.4
5°	1757.7	1764.2	1721.4	1707.7	1714.2	1740.8	1751.2	1703.8	1724.0	1684.4	1681.7
7.5°	1238.5	1246.2	1221.6	1218.3	1265.0	1254.0	1274.1	1225.4	1179.3	1199.5	1162.5
10°	961.9	929.5	878.8	864.5	855.5	861.4	861.4	817.2	810.7	793.1	819.8
12.5°	759.4	719.8	671.8	606.9	590.6	589.4	565.3	526.4	514.1	499.1	521.2
15°	551.7	535.5	495.3	458.9	421.9	414.8	375.8	344.0	301.8	295.9	294.0
17.5°	388.1	364.2	363.5	342.7	321.3	307.0	270.6	234.3	218.1	216.1	216.1
20°	290.8	282.3	268.7	266.1	259.6	243.4	210.9	191.5	183.7	184.3	187.0
22.5°	244.7	238.8	226.6	220.7	218.1	203.8	179.8	166.8	162.9	162.9	163.6
25°	218.7	213.5	199.9	190.8	187.5	177.2	158.4	148.6	145.4	145.4	145.4
27.5°	199.2	192.8	178.5	170.7	164.8	153.1	141.5	131.8	128.5	128.5	129.2
30°	185.6	178.5	165.5	155.2	146.1	135.7	125.9	117.5	113.6	112.9	113.6
32.5°	167.4	161.0	148.0	141.5	131.1	118.7	111.0	103.2	99.3	100.0	99.3
35°	130.4	128.5	119.4	121.4	115.6	105.1	98.0	89.6	85.0	84.4	85.7
37.5°	118.7	111.0	100.6	101.3	99.3	95.5	83.8	74.7	71.4	71.4	72.1
40°	109.7	101.9	90.2	84.4	85.0	85.0	72.7	63.0	59.7	59.0	60.4
42.5°	101.9	94.1	81.2	71.4	68.8	72.1	61.6	51.9	48.7	47.3	48.7
45°	96.7	88.3	73.3	62.3	54.5	58.4	50.6	42.8	38.9	38.9	38.3
47.5°	91.5	83.8	67.5	53.9	45.4	43.5	41.5	34.4	30.5	29.9	30.5
50°	87.0	79.2	61.0	46.8	38.3	33.7	33.7	27.2	24.6	23.4	24.1
52.5°	82.4	74.0	55.2	41.5	33.1	27.2	24.1	22.0	20.1	19.5	20.1
55°	75.9	67.5	49.4	35.7	28.6	22.7	18.8	18.2	16.9	15.6	16.9
57.5°	68.1	60.4	43.5	30.5	22.7	17.5	15.6	15.0	13.6	13.0	13.0
59°	63.6	56.4	40.3	26.6	20.1	15.6	14.3	13.6	12.4	11.0	11.7
60°	61.0	55.2	38.3	24.6	18.2	14.3	13.0	12.4	11.0	10.3	11.0
62.5°	53.9	49.4	33.7	20.1	14.3	10.3	9.1	9.8	9.1	8.4	9.1
65°	47.3	43.5	28.6	15.6	11.0	7.1	6.5	8.4	7.8	7.1	7.8
67.5°	42.2	37.7	24.1	11.7	7.8	3.9	4.5	7.1	7.1	6.5	7.1
70°	36.3	32.5	19.5	8.4	3.9	1.9	3.3	5.2	6.5	5.8	6.5
72.5°	29.9	25.3	15.0	5.8	1.9	0.0	1.9	4.5	6.5	5.8	6.5
75°	23.4	18.8	11.0	3.3	0.0	0.0	0.7	3.9	6.5	5.8	6.5
77.5°	16.9	13.6	6.5	0.7	0.0	0.0	0.7	3.9	6.5	5.8	6.5
80°	11.0	9.8	2.6	0.0	0.0	0.0	0.7	3.9	6.5	6.5	7.1
82.5°	7.1	5.2	0.0	0.0	0.0	0.0	1.3	5.2	7.1	7.8	7.8
85°	3.3	0.0	0.0	0.0	0.0	0.0	2.6	6.5	8.4	8.4	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	4.5	7.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650750

CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1
2.5°	2321.1	2361.9	2419.7	2508.6	2580.7	2694.3	2781.3	2900.0	3020.1	3056.4	3113.0
5°	1708.3	1760.9	1892.0	2011.5	2086.8	2326.9	2478.8	2718.3	2933.2	3036.3	3148.6
7.5°	1186.5	1248.8	1348.8	1515.6	1673.9	1869.3	2114.7	2388.6	2703.4	2850.7	3009.1
10°	832.8	910.6	1051.5	1188.4	1387.7	1573.3	1815.5	2117.9	2465.1	2639.1	2837.7
12.5°	525.7	595.2	781.5	935.3	1183.9	1399.4	1622.7	1896.5	2299.0	2477.5	2685.8
15°	300.5	358.9	445.9	643.2	919.0	1204.1	1482.5	1800.5	2214.0	2434.0	2659.2
17.5°	224.0	239.5	278.5	390.1	641.3	974.2	1353.3	1771.3	2271.7	2530.1	2787.1
20°	188.2	198.6	216.8	261.0	408.9	750.3	1227.4	1776.5	2458.7	2783.2	3027.3
22.5°	168.8	175.3	190.2	218.7	279.1	546.5	1080.0	1807.0	2685.2	3094.1	3375.8
25°	148.0	156.4	169.4	194.1	232.4	379.0	934.7	1875.2	3002.6	3488.7	3753.6
27.5°	131.8	139.5	152.6	175.3	203.8	289.5	765.2	1933.5	3337.5	3886.0	4102.7
30°	115.6	123.3	136.3	154.5	180.5	234.3	582.9	1967.9	3662.7	4183.9	4350.7
32.5°	101.9	108.4	120.8	136.9	158.4	198.6	459.5	1932.3	3911.3	4454.5	4566.2
35°	88.3	96.0	106.5	121.4	140.2	169.4	382.3	1809.0	4124.9	4733.0	4773.3
37.5°	74.0	83.1	94.1	107.7	122.7	155.8	307.0	1672.7	4353.3	5080.2	5014.0
40°	62.3	70.7	81.2	96.0	109.7	142.8	236.2	1527.3	4599.9	5406.1	5276.9
42.5°	50.6	59.7	72.1	85.7	108.4	124.6	183.0	1376.7	4821.3	5689.7	5514.5
45°	40.3	48.0	61.0	78.5	107.7	107.1	141.5	1228.0	4988.1	5892.2	5691.7
47.5°	31.8	38.3	51.3	76.6	99.3	90.8	113.6	1135.9	5163.3	6074.6	5827.4
50°	25.3	31.8	44.2	79.8	87.0	77.9	95.5	1150.8	5332.8	6167.5	5883.1
52.5°	21.4	27.9	38.3	63.0	66.9	68.1	83.8	1219.6	5551.5	6266.8	5994.1
55°	18.8	24.6	32.5	44.2	51.9	61.0	76.6	1269.6	5844.2	6479.7	6238.9
57.5°	15.0	21.4	29.2	37.7	42.8	53.2	70.7	1273.4	6109.0	6752.9	6564.0
59°	13.6	19.5	27.2	35.7	38.3	48.0	66.9	1240.4	6118.8	6793.9	6713.3
60°	12.4	18.8	26.0	33.1	36.3	45.4	63.6	1202.0	6030.5	6728.9	6775.0
62.5°	10.3	16.2	22.7	26.6	31.1	37.7	55.2	1063.2	5602.7	6434.9	6660.7
65°	9.1	14.3	19.5	22.0	26.0	32.5	48.7	850.9	5130.3	6036.4	6333.7
67.5°	8.4	13.0	16.9	18.8	22.7	29.9	43.5	601.1	4518.2	5530.8	5842.3
70°	7.8	12.4	15.0	17.5	20.1	25.3	37.0	350.5	3480.3	4644.1	4973.2
72.5°	7.8	11.7	13.0	15.0	17.5	22.7	34.4	189.6	2379.5	3542.6	3967.8
75°	7.8	11.0	11.7	13.0	15.6	20.8	30.5	99.3	1538.3	2461.3	3037.6
77.5°	7.8	10.3	11.7	12.4	15.0	18.2	26.6	62.3	1024.8	1724.0	2053.0
80°	8.4	10.3	11.0	12.4	14.3	16.9	22.0	41.5	602.3	1037.2	1249.5
82.5°	9.1	10.3	11.7	13.0	15.0	16.2	19.5	26.0	277.8	686.1	776.3
85°	9.8	11.0	12.4	13.6	15.6	16.2	18.2	18.8	45.4	309.6	418.6
87.5°	10.3	11.7	13.0	14.3	16.9	16.9	16.9	16.9	15.6	33.1	84.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650750

CATALOG NUMBER: GALN-SA2C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1	2822.1
2.5°	3184.4	3257.7	3308.9	3322.0	3284.9	3268.0	3221.4	3148.6	3104.5	3102.5
5°	3355.7	3527.7	3647.1	3667.3	3595.9	3475.1	3331.7	3146.7	3038.3	3005.8
7.5°	3326.5	3627.7	3819.7	3847.7	3727.6	3497.2	3219.3	2921.5	2803.3	2753.3
10°	3206.4	3573.7	3848.3	3892.5	3732.2	3407.6	3054.5	2722.2	2575.5	2537.2
12.5°	3103.9	3475.1	3719.2	3780.2	3658.8	3334.9	2955.9	2594.3	2437.2	2401.6
15°	3059.1	3358.3	3507.6	3538.8	3518.6	3289.5	2945.5	2574.9	2395.1	2356.1
17.5°	3103.9	3259.0	3277.8	3309.6	3354.4	3284.9	3045.4	2680.7	2486.6	2438.6
20°	3221.4	3172.7	3094.8	3108.4	3210.9	3303.8	3223.3	2915.0	2678.7	2627.5
22.5°	3421.3	3151.2	2974.7	2963.0	3092.8	3366.7	3484.2	3232.4	2958.5	2907.8
25°	3666.6	3205.1	2930.5	2905.2	3046.7	3458.9	3767.8	3621.2	3322.0	3244.7
27.5°	3934.0	3316.7	2930.5	2905.9	3042.8	3540.7	4010.6	3965.1	3698.4	3614.0
30°	4080.7	3408.9	2972.8	2944.8	3090.8	3588.0	4140.4	4270.9	3981.4	3876.9
32.5°	4211.8	3536.7	3055.2	3002.6	3191.5	3658.2	4256.6	4530.5	4206.6	4136.5
35°	4332.6	3673.7	3168.7	3107.7	3323.9	3754.2	4385.1	4803.1	4520.1	4414.3
37.5°	4465.6	3832.8	3345.9	3294.0	3545.2	3941.2	4537.6	5161.4	4828.4	4695.4
40°	4610.4	4017.1	3637.4	3615.3	3897.0	4152.8	4730.5	5543.7	5180.2	5029.0
42.5°	4757.7	4229.3	3994.4	4030.7	4295.6	4449.4	4928.3	5837.7	5468.4	5301.6
45°	4891.4	4500.6	4458.5	4638.3	4760.3	4738.9	5075.1	6044.8	5719.6	5559.9
47.5°	5060.1	4896.0	5019.9	5297.0	5300.3	5053.7	5186.0	6214.1	5935.8	5776.1
50°	5249.0	5362.6	5744.9	6027.3	5951.3	5363.2	5315.9	6414.7	6159.0	6031.1
52.5°	5467.8	5885.1	6414.7	6728.3	6551.1	5700.8	5532.0	6631.5	6513.4	6390.8
55°	5722.2	6241.5	7082.6	7332.5	7154.1	6120.0	5860.4	6925.6	6913.9	6830.2
57.5°	6009.7	6617.9	7469.5	7807.7	7648.6	6612.1	6319.4	7202.7	7158.6	7111.8
59°	6236.9	6811.3	7640.2	7990.7	7894.6	6956.8	6627.7	7375.4	7215.0	7145.0
60°	6374.5	6942.5	7703.1	8015.3	7993.3	7161.9	6823.0	7459.8	7214.4	7117.0
62.5°	6782.7	7171.5	7679.2	7905.7	7992.0	7555.2	7396.2	7552.6	7080.7	6937.9
65°	6928.2	7095.6	7281.3	7253.4	7327.4	7535.0	7762.3	7450.7	6795.1	6591.9
67.5°	6645.2	6262.8	6328.4	6142.2	6105.8	6699.1	7613.6	6952.2	6236.3	5987.7
70°	5601.5	4797.9	4764.9	4850.5	4615.5	5423.6	6836.7	5992.2	5313.9	5032.2
72.5°	4409.1	3390.7	3111.6	3427.1	3419.9	4137.8	5679.4	4252.0	3590.0	3566.0
75°	3467.4	2360.7	2071.8	2123.1	2221.8	2995.5	4523.4	2700.1	2210.7	2014.7
77.5°	2327.6	1672.7	1560.4	1497.4	1603.9	1923.2	2861.8	1464.3	1239.7	1174.2
80°	1341.6	1215.1	1379.9	1252.7	1309.9	1211.8	1423.4	671.8	557.6	603.7
82.5°	873.0	691.9	737.3	547.8	749.0	755.6	456.9	198.6	168.1	178.5
85°	545.9	324.5	182.4	129.9	258.4	475.1	142.8	12.4	14.3	12.4
87.5°	141.5	53.9	22.7	33.7	41.5	37.0	33.1	1.9	0.7	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)