

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: P650744

Luminaire Tested: **GALN-SA2C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6573.3 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

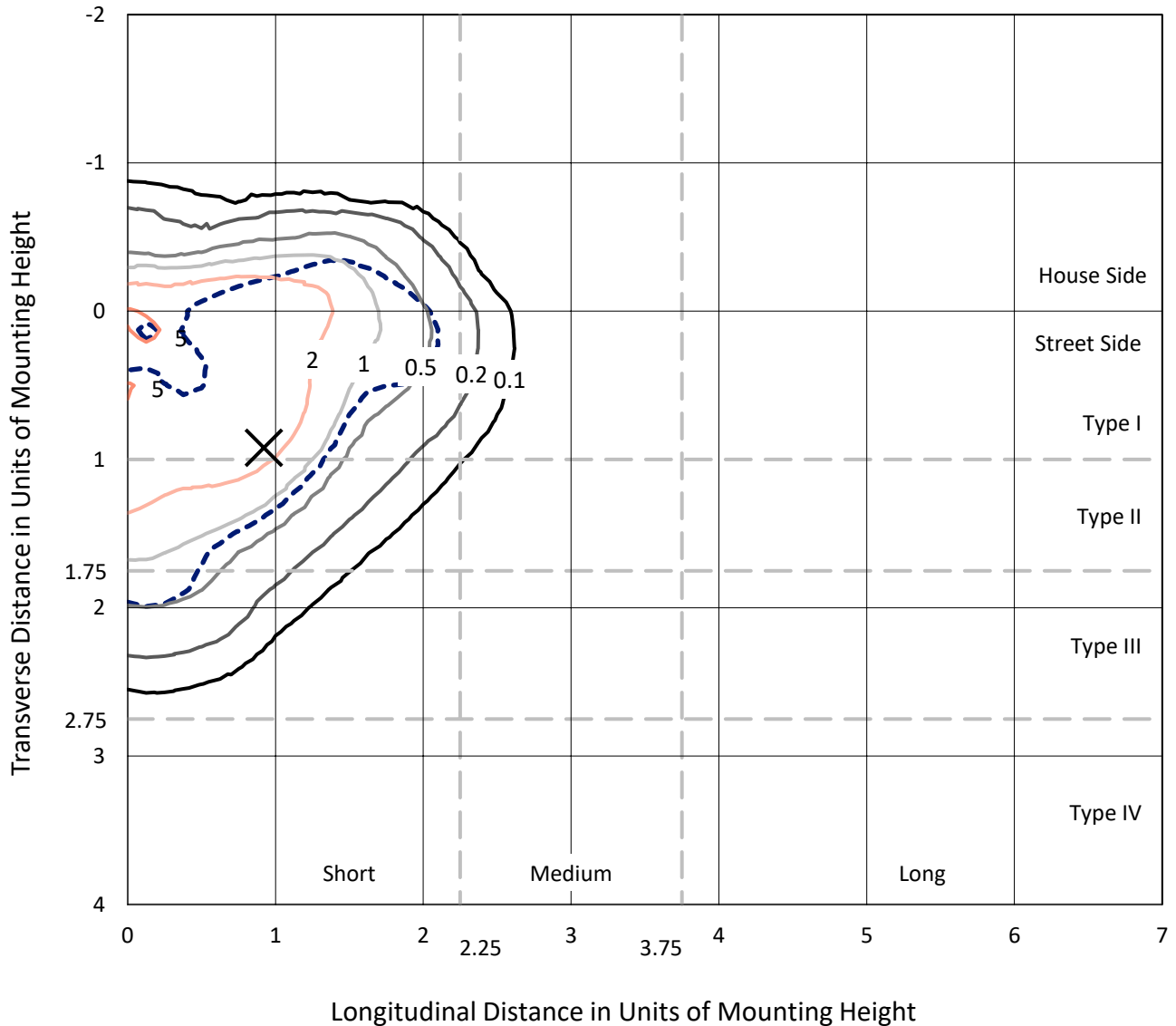
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650744
 CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

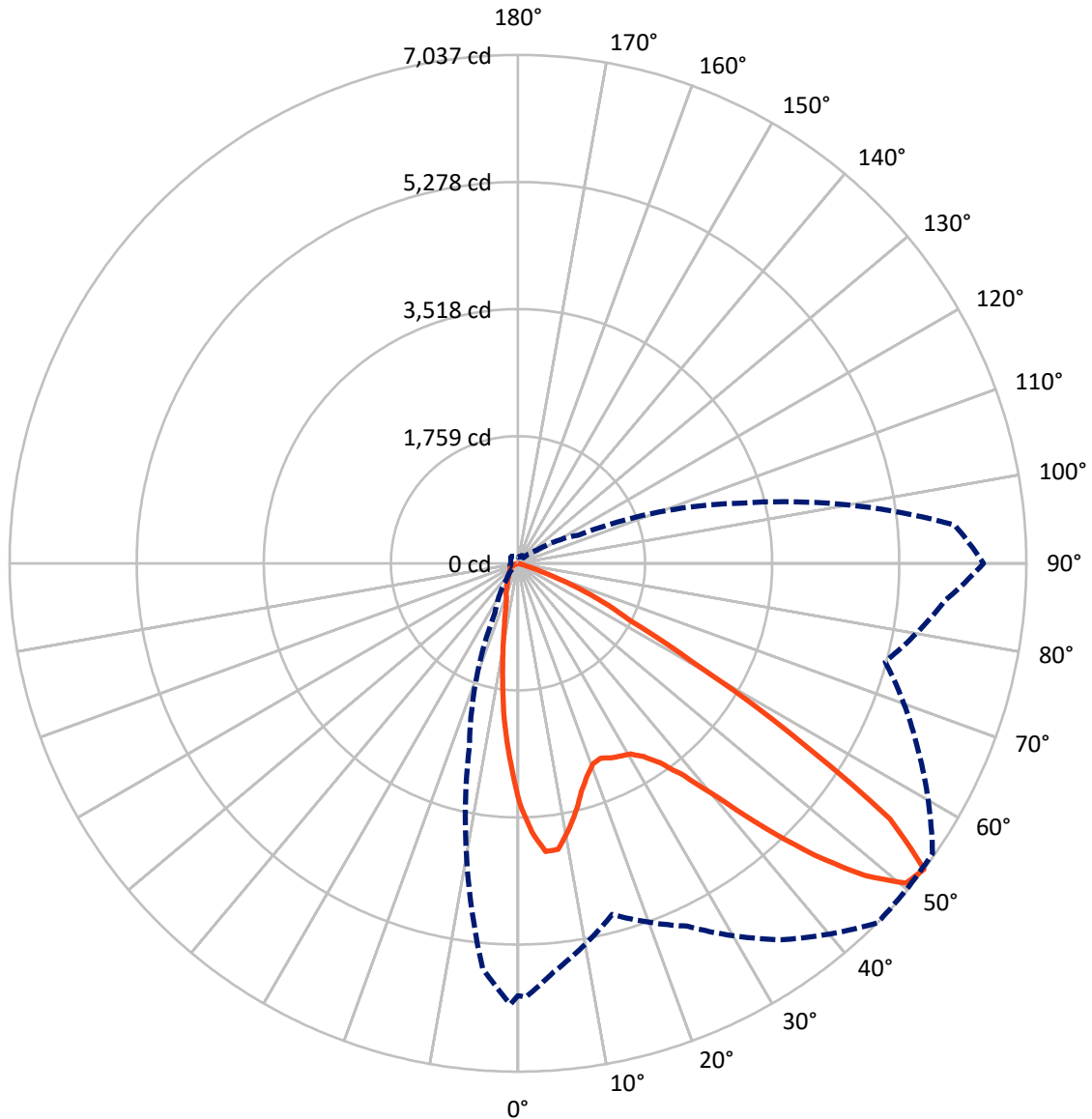
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

REPORT NUMBER: P650744
CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P650744
 CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

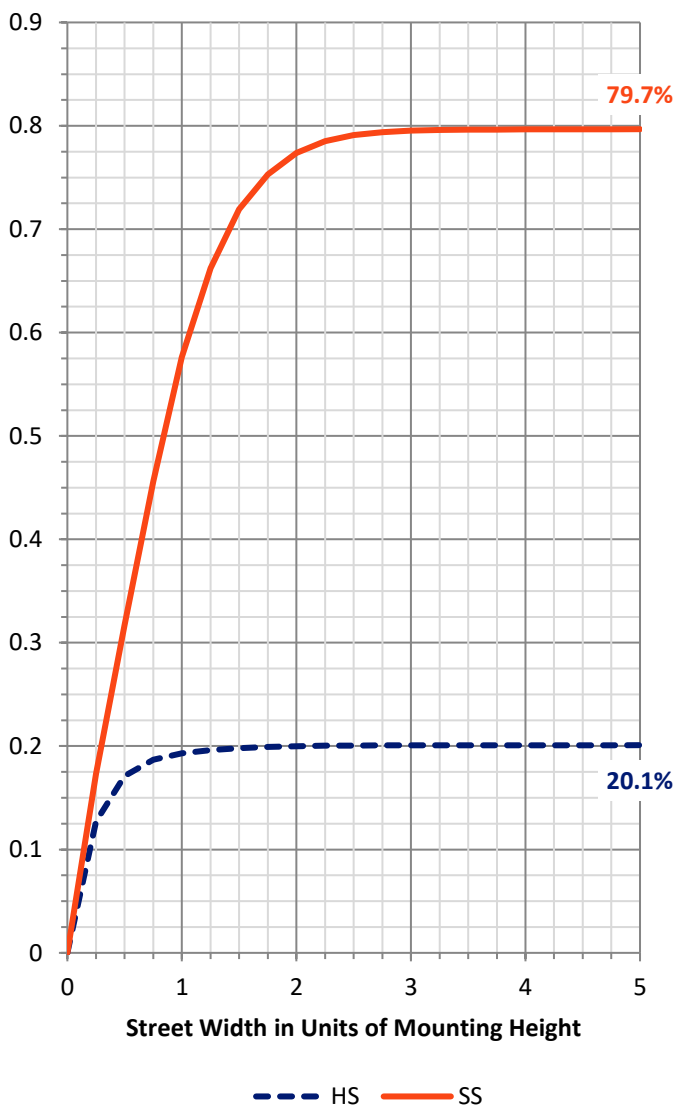
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.0	0.0	1334.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5239.2	0.0	5239.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	6573.3	0.0	6573.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	3.7
10°-20°	479.6	7.3
20°-30°	729.8	11.1
30°-40°	1090.8	16.6
40°-50°	1553.4	23.6
50°-60°	1669.8	25.4
60°-70°	739.9	11.3
70°-80°	59.9	0.9
80°-90°	7.0	0.1
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°	6573.3	100.0
0°-180°	6573.3	100.0

Coefficient of Utilization

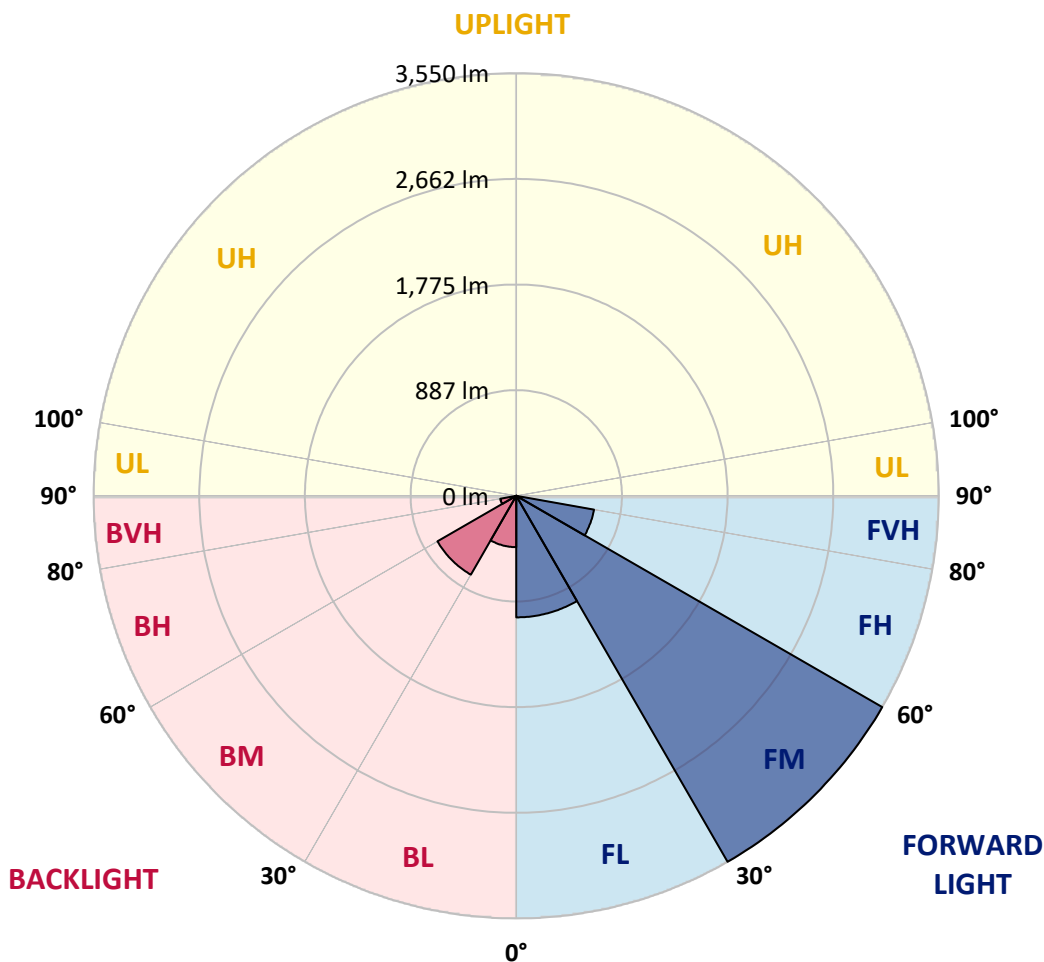


REPORT NUMBER: P650744
 CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.0	15.5			
FM (30°-60°)	3549.8	54.0			
FH (60°-80°)	663.3	10.1			G1/1800
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	431.5	6.6	B1/500		
BM (30°-60°)	764.3	11.6	B1/1000		
BH (60°-80°)	136.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





REPORT NUMBER: P650744

CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0
2.5°	3526.9	3537.2	3594.1	3665.2	3702.7	3788.0	3728.6	3744.0	3711.8	3598.0	3508.7
5°	3419.6	3418.2	3490.7	3666.5	3833.3	4002.7	4007.8	3917.3	3758.3	3583.8	3334.2
7.5°	3096.4	3146.8	3221.8	3502.3	3811.3	3938.0	3998.8	3892.7	3648.4	3398.9	3128.7
10°	2852.0	2877.9	3004.6	3343.3	3569.5	3738.9	3776.4	3715.6	3528.2	3216.6	2914.1
12.5°	2711.0	2724.0	2872.7	3157.1	3396.3	3521.7	3539.8	3568.3	3433.8	3141.6	2778.3
15°	2712.4	2722.7	2923.1	3161.0	3255.3	3221.8	3281.2	3279.9	3338.1	3127.3	2892.1
17.5°	2907.6	2919.2	3100.3	3217.9	3176.5	3097.7	3093.8	3153.2	3276.0	3304.5	3064.0
20°	3243.7	3270.9	3404.0	3397.6	3164.9	3005.8	2961.9	3007.2	3292.9	3454.5	3410.5
22.5°	3696.2	3733.7	3826.8	3648.4	3217.9	2943.8	2929.5	3017.5	3404.0	3789.3	3803.5
25°	4221.1	4284.5	4329.7	4100.9	3406.6	3051.1	2983.9	3135.2	3554.0	4152.6	4303.9
27.5°	4568.9	4634.8	4624.5	4297.4	3533.4	3079.6	3022.6	3163.6	3684.6	4239.2	4565.0
30°	4840.4	4880.5	4952.9	4403.4	3660.0	3159.7	3062.8	3283.9	3727.2	4389.2	4880.5
32.5°	5157.2	5184.3	5189.5	4590.9	3855.2	3260.6	3186.9	3433.8	3916.0	4532.7	5159.7
35°	5476.5	5516.5	5432.5	4822.3	3975.5	3448.0	3393.7	3693.7	4067.2	4681.3	5467.4
37.5°	5823.0	5843.6	5649.8	4918.0	4147.5	3753.1	3723.4	3974.2	4329.7	4950.3	5808.7
40°	6113.8	6133.2	5881.1	5035.7	4328.5	4179.8	4256.0	4509.4	4686.6	5124.8	5979.4
42.5°	6275.5	6320.7	5958.7	4971.0	4691.7	4663.3	5002.0	5091.2	5100.2	5173.9	6132.0
45°	6319.4	6298.8	5830.7	5024.0	5009.8	5458.3	5766.1	5883.7	5511.4	5264.5	6170.8
47.5°	6116.4	6143.6	5641.9	4977.5	5427.3	6060.8	6459.0	6677.5	5817.8	5185.6	6075.0
50°	5952.3	5917.4	5581.2	4943.8	5539.8	6345.3	6959.4	7008.5	6099.6	5282.6	5970.3
52.5°	5984.6	6006.5	5678.2	5033.0	5542.4	6362.1	7036.9	7003.3	6108.7	5260.5	5932.8
55°	6053.1	5956.1	5636.8	4836.5	5171.4	5892.8	6245.7	6194.0	5638.1	5026.6	5841.1
57.5°	5223.1	5373.1	5183.0	4318.1	4244.4	4439.6	4433.2	4592.2	4205.6	4325.9	5317.5
60°	4239.2	4265.0	4336.2	3693.7	2937.4	2870.1	2777.1	2676.1	2830.0	3698.8	4836.5
62.5°	3728.6	3697.5	3950.9	3360.1	2073.7	1736.3	1720.8	1782.8	2183.6	3528.2	4536.6
65°	2709.8	2748.6	2932.1	2607.7	1556.6	1325.2	1301.9	1485.5	1767.3	2827.4	3462.2
67.5°	1654.8	1729.9	1746.6	1608.3	1056.2	839.1	805.4	972.2	1276.0	1829.3	2029.8
70°	764.0	854.5	939.9	877.8	611.5	345.2	325.8	408.6	643.9	1052.3	1076.9
72.5°	231.4	232.7	325.8	340.0	197.8	77.5	68.5	90.5	218.5	347.8	365.8
75°	16.8	18.1	44.0	50.5	37.5	19.4	20.7	24.6	46.5	77.5	58.2
77.5°	1.3	1.3	1.3	6.5	11.6	13.0	16.8	19.4	24.6	28.4	25.8
80°	1.3	0.0	1.3	5.1	9.1	13.0	15.5	18.1	19.4	22.0	19.4
82.5°	0.0	0.0	0.0	3.9	9.1	13.0	14.2	19.4	22.0	25.8	22.0
85°	0.0	0.0	0.0	3.9	9.1	14.2	13.0	6.5	0.0	0.0	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	0.0



REPORT NUMBER: P650744

CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0
2.5°	3524.3	3473.8	3358.8	3300.6	3163.6	3144.2	3009.8	2987.7	2942.5	2917.9	2858.5
5°	3224.3	3163.6	2976.1	2818.4	2634.9	2506.9	2408.5	2319.4	2267.7	2219.8	2241.8
7.5°	2980.0	2802.9	2594.7	2331.0	2119.0	1981.9	1832.0	1709.2	1636.8	1587.6	1599.2
10°	2724.0	2609.0	2319.4	2023.3	1767.3	1670.3	1552.7	1458.3	1356.2	1268.3	1226.9
12.5°	2643.9	2473.2	2109.9	1808.7	1614.7	1520.4	1386.0	1277.3	1146.8	1039.5	1002.0
15°	2658.1	2493.9	2053.0	1731.1	1502.3	1339.4	1179.1	1044.6	901.1	826.1	787.3
17.5°	2889.5	2605.1	2090.6	1649.7	1345.9	1119.6	921.8	751.2	643.9	566.2	549.4
20°	3173.9	2845.5	2170.7	1590.2	1217.9	890.8	673.6	526.2	437.0	424.0	420.2
22.5°	3590.2	3238.6	2342.6	1550.1	1061.4	694.2	461.5	382.7	358.1	355.5	356.8
25°	4172.0	3731.2	2530.1	1516.5	943.8	535.2	377.5	324.5	316.7	312.9	319.3
27.5°	4424.1	4028.5	2629.6	1444.1	836.5	482.2	372.3	321.9	299.9	293.5	297.4
30°	4735.7	4226.3	2786.1	1319.9	678.8	396.9	347.8	350.4	340.0	307.7	297.4
32.5°	5149.4	4473.2	2865.0	1232.1	606.4	328.4	254.7	234.0	261.1	266.3	275.3
35°	5414.4	4724.1	2905.0	1180.3	568.9	280.6	215.9	196.5	190.1	191.3	196.5
37.5°	5907.0	5062.7	2955.4	1126.1	540.4	244.3	195.2	177.1	168.0	168.0	173.2
40°	6201.8	5331.7	3024.0	1096.3	512.0	222.4	177.1	161.6	153.8	153.8	156.4
42.5°	6275.5	5464.8	3000.7	1086.0	479.6	217.2	161.6	150.0	141.0	139.6	138.3
45°	6407.3	5667.8	3004.6	1074.4	446.1	197.8	152.6	139.6	126.7	125.4	124.1
47.5°	6552.1	5813.9	3012.3	1029.1	413.7	165.5	159.0	129.3	113.8	111.2	111.2
50°	6428.0	5930.2	3079.6	983.9	372.3	134.5	156.4	121.5	100.8	97.0	98.2
52.5°	6443.5	6067.3	3221.8	920.5	320.6	107.3	126.7	115.0	91.8	85.4	86.6
55°	6195.3	5922.5	3241.1	853.3	250.8	82.8	97.0	100.8	77.5	75.0	75.0
57.5°	5332.9	5015.0	2859.7	691.6	165.5	68.5	69.8	87.9	67.2	64.7	65.9
60°	4563.8	4026.0	2301.2	456.4	103.4	54.3	50.5	89.2	59.5	58.2	62.1
62.5°	4160.3	3308.4	1745.3	283.2	71.1	41.4	34.9	72.4	51.7	51.7	56.9
65°	3005.8	2222.4	1014.9	148.7	50.5	32.3	25.8	41.4	42.6	44.0	46.5
67.5°	1861.7	1122.1	427.9	72.4	33.6	22.0	16.8	25.8	28.4	28.4	31.0
70°	919.2	447.3	142.2	41.4	25.8	18.1	11.6	14.2	14.2	13.0	14.2
72.5°	284.4	134.5	36.2	25.8	18.1	11.6	6.5	5.1	2.6	0.0	1.3
75°	32.3	25.8	23.3	18.1	11.6	5.1	1.3	0.0	0.0	0.0	0.0
77.5°	19.4	22.0	22.0	18.1	11.6	3.9	0.0	0.0	0.0	0.0	0.0
80°	15.5	16.8	18.1	16.8	10.3	5.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.4	22.0	24.6	22.0	14.2	6.5	2.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.9	1.3	0.0	0.0	0.0	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	0.0



REPORT NUMBER: P650744

CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0
2.5°	2833.9	2805.5	2845.5	2786.1	2784.8	2786.1	2769.2	2753.8	2778.3	2844.3	2850.7
5°	2162.9	2223.7	2243.1	2306.4	2271.5	2219.8	2230.2	2195.3	2280.5	2318.0	2288.4
7.5°	1574.7	1570.8	1701.3	1709.2	1726.0	1727.2	1724.6	1656.1	1586.3	1601.9	1648.4
10°	1221.7	1155.8	1219.1	1212.7	1254.0	1242.4	1259.2	1185.6	1210.1	1210.1	1239.8
12.5°	995.5	925.7	914.0	897.3	914.0	920.5	927.0	912.7	954.1	973.5	994.2
15°	760.2	721.4	711.1	678.8	683.9	702.0	717.5	724.0	711.1	740.8	743.4
17.5°	552.0	550.8	557.2	555.9	550.8	546.9	545.6	528.7	523.6	526.2	536.6
20°	418.9	429.2	451.2	473.1	484.8	470.6	451.2	422.8	411.2	413.7	415.0
22.5°	358.1	373.7	403.3	427.9	439.6	413.7	378.8	354.2	349.1	347.8	346.5
25°	324.5	342.6	364.6	372.3	371.0	355.5	329.7	319.3	316.7	314.2	302.5
27.5°	306.4	312.9	316.7	325.8	329.7	319.3	312.9	297.4	294.8	294.8	287.0
30°	296.0	292.2	297.4	290.9	296.0	288.3	289.6	289.6	283.2	285.7	285.7
32.5°	275.3	276.7	276.7	263.7	267.6	258.6	267.6	275.3	276.7	278.0	288.3
35°	201.7	225.0	236.6	236.6	240.4	234.0	232.7	223.6	212.0	200.4	195.2
37.5°	177.1	186.2	201.7	210.8	217.2	212.0	200.4	186.2	179.7	174.5	169.4
40°	157.7	165.5	175.9	186.2	199.1	192.7	174.5	168.0	160.3	160.3	155.2
42.5°	142.2	146.1	152.6	168.0	182.3	169.4	156.4	151.3	147.3	146.1	144.8
45°	128.0	129.3	135.7	148.7	165.5	152.6	139.6	133.1	134.5	135.7	134.5
47.5°	115.0	117.7	121.5	137.1	147.3	141.0	126.7	122.8	122.8	122.8	124.1
50°	99.6	106.1	113.8	126.7	134.5	130.6	118.9	113.8	111.2	111.2	112.4
52.5°	89.2	94.4	104.7	120.3	130.6	124.1	112.4	104.7	99.6	98.2	100.8
55°	77.5	86.6	103.4	115.0	129.3	122.8	109.9	100.8	91.8	90.5	90.5
57.5°	69.8	84.0	99.6	113.8	125.4	120.3	109.9	98.2	86.6	85.4	85.4
60°	65.9	81.4	97.0	109.9	125.4	117.7	108.6	95.7	82.8	82.8	81.4
62.5°	62.1	76.3	91.8	104.7	120.3	113.8	104.7	91.8	78.9	78.9	76.3
65°	51.7	65.9	76.3	87.9	104.7	98.2	89.2	80.1	69.8	67.2	68.5
67.5°	36.2	45.2	55.6	67.2	77.5	75.0	71.1	64.7	55.6	54.3	53.0
70°	18.1	24.6	33.6	45.2	54.3	51.7	49.1	44.0	38.8	37.5	37.5
72.5°	2.6	7.7	14.2	20.7	28.4	29.8	28.4	27.2	25.8	24.6	25.8
75°	0.0	0.0	0.0	5.1	11.6	14.2	16.8	19.4	19.4	16.8	20.7
77.5°	0.0	0.0	0.0	0.0	1.3	6.5	13.0	16.8	20.7	18.1	24.6
80°	0.0	0.0	0.0	0.0	1.3	7.7	13.0	18.1	20.7	18.1	25.8
82.5°	0.0	0.0	0.0	0.0	1.3	9.1	13.0	16.8	19.4	18.1	23.3
85°	0.0	0.0	0.0	0.0	3.9	7.7	5.1	2.6	1.3	1.3	3.9
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	0.0



REPORT NUMBER: P650744

CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0	3333.0
2.5°	2886.9	2978.7	3077.0	3114.5	3230.8	3318.8	3378.2	3506.2	3525.6	3526.9
5°	2319.4	2365.9	2533.9	2612.8	2786.1	2920.5	3064.0	3270.9	3409.2	3419.6
7.5°	1648.4	1777.6	1848.8	2054.3	2267.7	2478.3	2691.7	2932.1	3092.4	3096.4
10°	1326.4	1410.5	1537.2	1691.0	1870.7	2085.3	2369.8	2649.1	2812.0	2852.0
12.5°	1067.9	1215.2	1360.1	1519.1	1656.1	1817.7	2124.1	2496.5	2630.9	2711.0
15°	822.2	956.7	1127.4	1313.6	1468.6	1684.6	2033.6	2459.0	2685.2	2712.4
17.5°	606.4	726.5	884.3	1060.2	1292.9	1599.2	2049.2	2649.1	2862.3	2907.6
20°	435.7	505.5	629.6	833.9	1130.0	1499.7	2064.7	2841.7	3166.2	3243.7
22.5°	345.2	373.7	455.1	636.0	947.6	1395.0	2174.6	3210.1	3583.8	3696.2
25°	299.9	315.5	354.2	501.7	832.6	1384.6	2350.4	3652.3	4139.7	4221.1
27.5°	289.6	292.2	325.8	460.3	770.5	1316.1	2417.6	3966.4	4486.1	4568.9
30°	305.1	346.5	349.1	389.1	655.5	1180.3	2452.5	4270.3	4779.7	4840.4
32.5°	263.7	250.8	259.9	301.2	576.6	1101.5	2518.5	4535.3	5114.5	5157.2
35°	183.6	192.7	213.3	261.1	504.2	1018.8	2535.3	4827.5	5432.5	5476.5
37.5°	169.4	174.5	191.3	222.4	443.5	972.2	2512.0	5040.8	5762.2	5823.0
40°	157.7	164.2	173.2	201.7	398.2	920.5	2479.7	5233.5	5963.9	6113.8
42.5°	148.7	153.8	161.6	192.7	359.4	868.8	2434.4	5504.9	6144.9	6275.5
45°	138.3	146.1	155.2	187.5	337.4	833.9	2400.8	5488.1	6249.6	6319.4
47.5°	128.0	141.0	151.3	174.5	330.9	817.1	2415.0	5424.8	6164.3	6116.4
50°	117.7	134.5	152.6	144.8	315.5	783.5	2431.8	5511.4	5961.3	5952.3
52.5°	108.6	128.0	142.2	118.9	280.6	751.2	2594.7	5625.2	6104.8	5984.6
55°	95.7	115.0	113.8	95.7	227.6	726.5	2722.7	5627.7	6007.9	6053.1
57.5°	86.6	102.1	89.2	80.1	168.0	607.6	2514.6	4718.9	5142.9	5223.1
60°	80.1	99.6	67.2	63.3	109.9	438.2	2195.3	3654.9	4087.9	4239.2
62.5°	73.7	94.4	53.0	51.7	76.3	311.6	1804.8	3058.9	3523.0	3728.6
65°	64.7	67.2	42.6	40.1	54.3	168.0	1098.9	2106.0	2633.5	2709.8
67.5°	53.0	51.7	34.9	32.3	36.2	81.4	484.8	1055.0	1526.8	1654.8
70°	42.6	42.6	29.8	25.8	25.8	37.5	126.7	420.2	690.4	764.0
72.5°	31.0	32.3	23.3	20.7	19.4	18.1	20.7	84.0	181.0	231.4
75°	27.2	28.4	23.3	18.1	14.2	11.6	9.1	7.7	10.3	16.8
77.5°	29.8	29.8	24.6	16.8	13.0	9.1	5.1	2.6	2.6	1.3
80°	37.5	38.8	32.3	22.0	15.5	10.3	6.5	2.6	1.3	1.3
82.5°	40.1	44.0	36.2	27.2	19.4	11.6	6.5	1.3	0.0	0.0
85°	10.3	16.8	28.4	24.6	19.4	11.6	6.5	1.3	0.0	0.0
87.5°	0.0	1.3	3.9	3.9	5.1	5.1	3.9	1.3	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

(END OF REPORT)