

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: P650748

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
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-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT 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

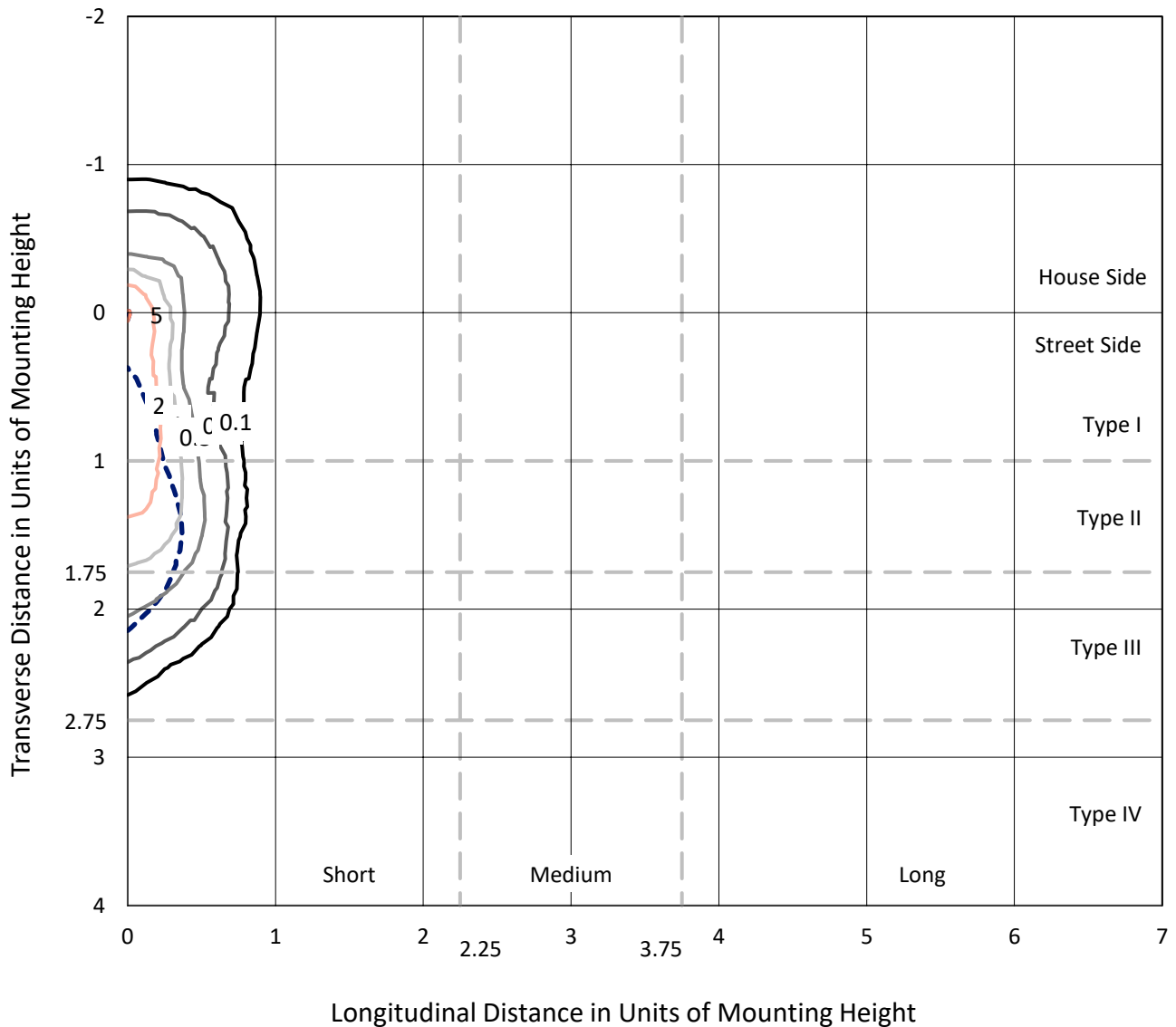
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

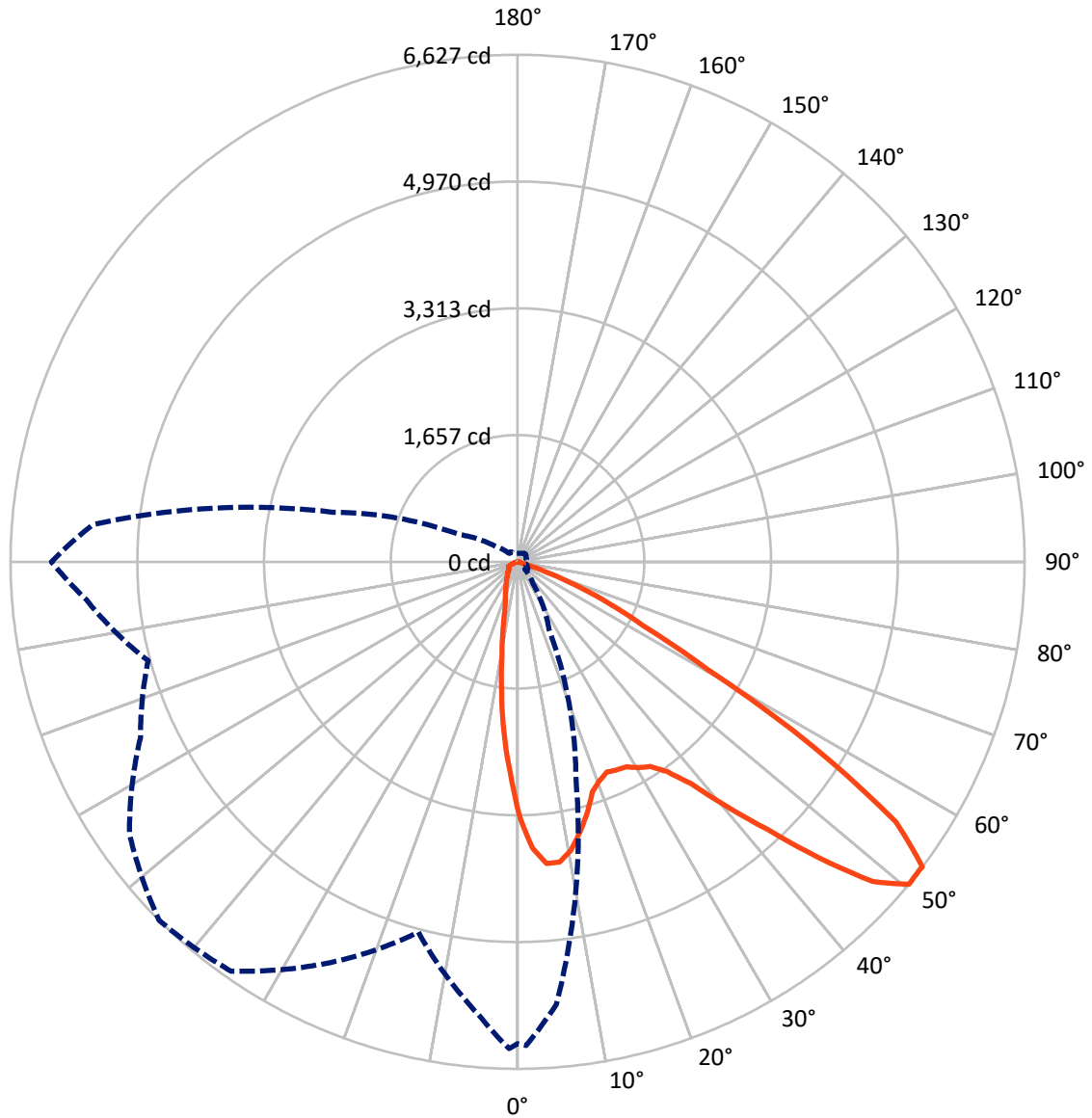
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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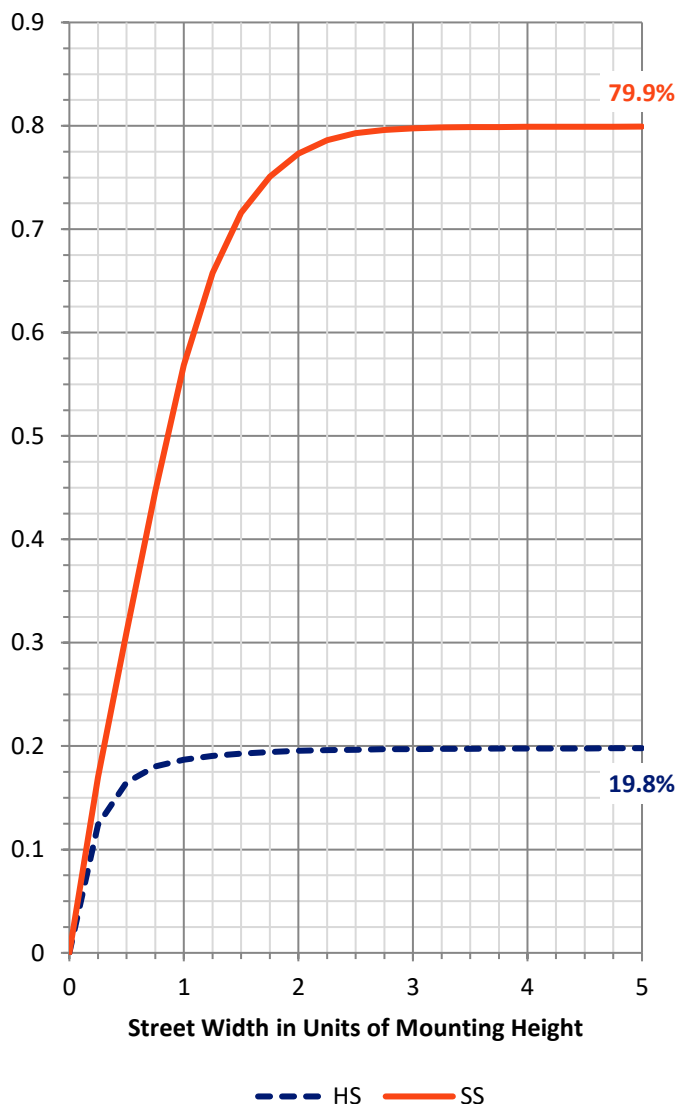
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1316.6	0.0	1316.6
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	5256.6	0.0	5256.6
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	6573.3	0.0	6573.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.0	3.7
10°-20°	482.9	7.3
20°-30°	725.5	11.0
30°-40°	1088.9	16.6
40°-50°	1530.4	23.3
50°-60°	1650.8	25.1
60°-70°	766.4	11.7
70°-80°	72.1	1.1
80°-90°	13.3	0.2
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**

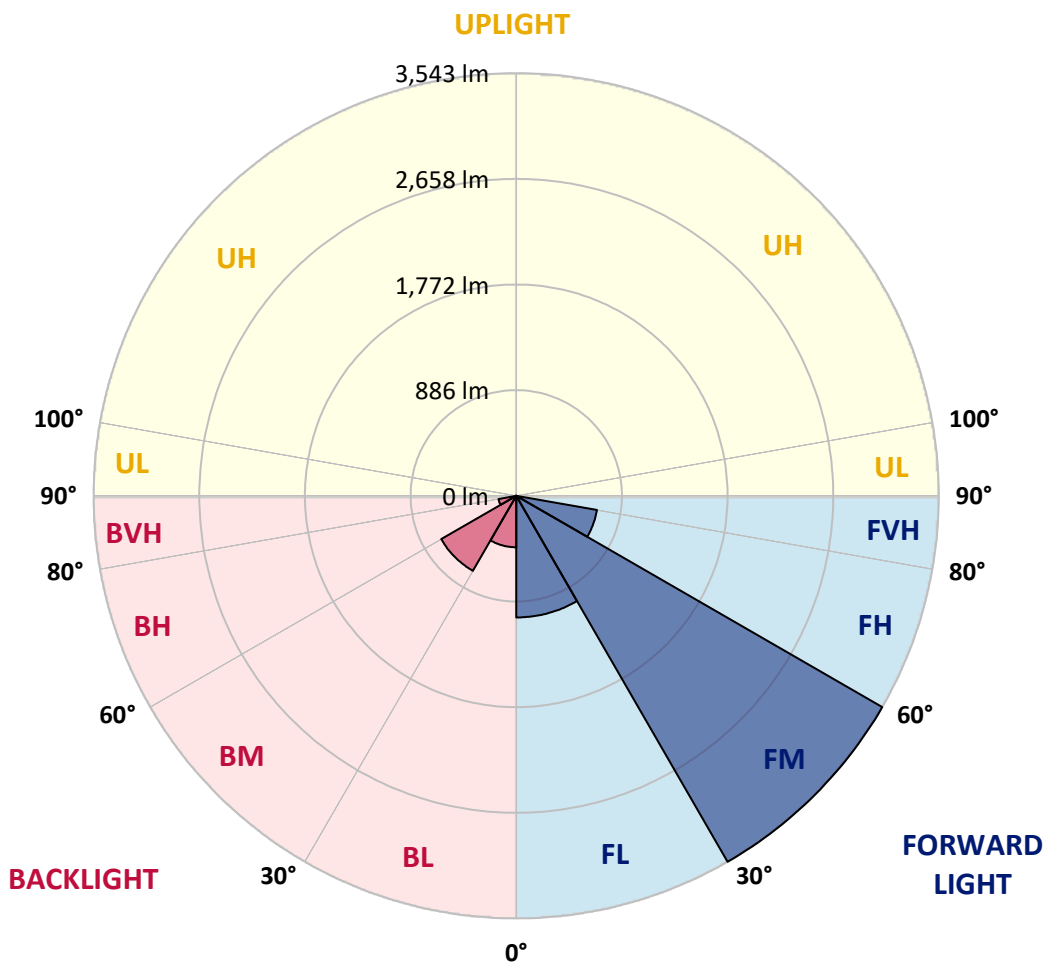


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.8	15.5			
FM (30°-60°)	3543.5	53.9			
FH (60°-80°)	687.4	10.5			G1/1800
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	431.6	6.6	B1/500		
BM (30°-60°)	726.6	11.1	B1/1000		
BH (60°-80°)	151.2	2.3	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5
2.5°	3465.2	3411.7	3343.9	3287.8	3204.4	3036.1	2990.5	2935.7	2890.0	2828.8	2742.7
5°	3150.9	3133.9	3102.6	2891.4	2738.8	2535.3	2368.3	2297.9	2205.4	2129.7	2074.9
7.5°	2911.0	2843.1	2744.0	2531.4	2287.5	2069.7	1884.5	1776.3	1653.7	1611.9	1537.6
10°	2654.0	2669.7	2523.6	2224.9	1930.2	1754.1	1639.4	1535.0	1424.1	1351.2	1245.5
12.5°	2571.9	2521.0	2408.8	2039.8	1788.1	1623.7	1484.1	1355.0	1237.7	1120.3	1018.5
15°	2625.3	2547.1	2390.5	2000.6	1678.5	1473.7	1298.9	1124.2	1015.9	866.0	760.3
17.5°	2817.0	2754.4	2544.4	2042.4	1622.4	1330.3	1070.8	890.8	725.1	589.5	536.1
20°	3136.5	3047.9	2784.4	2095.8	1538.9	1156.8	868.6	646.9	490.4	432.9	403.0
22.5°	3449.5	3401.3	3068.7	2198.9	1464.6	1002.9	652.1	435.6	366.5	356.1	336.5
25°	4045.5	3900.8	3503.0	2385.3	1407.2	858.2	491.6	350.8	310.4	302.6	305.2
27.5°	4400.3	4279.0	3904.7	2509.2	1343.3	747.3	416.0	322.1	294.8	277.8	271.3
30°	4740.6	4599.8	4104.2	2582.3	1206.3	629.9	369.1	309.1	302.6	277.8	270.0
32.5°	5002.8	4864.6	4392.5	2691.8	1150.3	554.3	303.9	241.3	224.3	221.7	245.2
35°	5404.5	5257.1	4639.0	2751.8	1107.3	515.1	263.4	215.2	195.6	187.8	189.1
37.5°	5778.8	5678.3	4867.2	2775.3	1061.6	503.4	236.1	193.0	176.1	170.8	169.5
40°	6091.8	5867.5	5083.7	2800.0	1042.0	481.2	219.1	176.1	164.3	156.5	156.5
42.5°	6235.3	6007.0	5326.2	2785.7	1036.8	446.1	219.1	161.7	152.6	144.7	143.5
45°	6204.0	6111.4	5434.5	2779.2	1036.8	410.8	199.6	157.8	144.7	134.3	131.7
47.5°	6284.8	6163.5	5570.1	2806.6	1015.9	386.0	168.2	165.6	136.9	123.9	121.3
50°	6299.2	6322.6	5806.2	2948.7	970.3	354.7	131.7	163.0	131.7	112.2	109.6
52°	6393.0	6247.0	5877.9	3024.4	922.1	331.3	110.8	139.5	126.5	104.4	101.8
52.5°	6263.9	6359.1	5894.9	3051.7	927.3	315.6	107.0	136.9	123.9	104.4	97.8
55°	6119.2	6210.4	5825.8	3110.4	850.3	247.8	83.4	99.2	112.2	91.3	87.4
57.5°	5318.4	5411.0	5062.8	2848.3	692.5	174.8	69.1	74.3	99.2	84.8	80.8
60°	4727.6	4661.2	4249.0	2376.2	491.6	97.8	54.7	57.4	108.2	78.2	77.0
62.5°	4320.7	4178.6	3551.3	1835.0	300.0	65.2	43.1	44.3	83.4	73.0	73.0
65°	3196.6	3037.4	2359.3	1109.9	147.3	45.7	32.6	35.2	52.1	62.6	62.6
67.5°	1824.5	1763.2	1139.8	500.8	61.3	28.7	24.8	27.4	40.5	50.9	48.3
70°	838.6	752.5	438.2	105.6	28.7	19.6	19.6	22.2	32.6	37.8	35.2
72.5°	245.2	232.1	107.0	17.0	11.8	11.8	13.0	17.0	24.8	28.7	26.1
75°	18.2	11.8	7.8	5.2	5.2	7.8	10.4	17.0	24.8	27.4	22.2
77.5°	1.3	2.6	1.3	1.3	4.0	7.8	11.8	20.9	32.6	33.9	24.8
80°	1.3	1.3	0.0	1.3	4.0	7.8	13.0	23.5	36.5	39.1	20.9
82.5°	0.0	0.0	0.0	1.3	5.2	10.4	15.6	24.8	33.9	41.7	22.2
85°	0.0	0.0	0.0	1.3	7.8	14.4	18.2	6.6	4.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5
2.5°	2804.0	2770.1	2757.1	2768.7	2764.9	2760.9	2832.7	2817.0	2814.4	2837.9	2832.7
5°	2104.9	2045.0	2209.3	2142.8	2211.9	2253.6	2261.4	2265.3	2313.6	2262.7	2329.2
7.5°	1499.8	1515.5	1514.1	1558.5	1638.0	1708.5	1750.2	1717.6	1715.0	1708.5	1679.8
10°	1198.5	1171.2	1166.0	1155.5	1180.3	1240.3	1291.1	1250.7	1222.0	1261.2	1249.4
12.5°	979.4	941.6	920.7	879.0	880.4	920.7	920.7	920.7	949.4	971.6	988.6
15°	751.2	719.9	719.9	678.2	669.0	670.4	691.2	693.8	739.5	752.5	759.0
17.5°	525.5	508.6	528.2	545.1	534.7	537.3	545.1	547.7	554.3	549.1	562.1
20°	404.3	401.7	406.9	436.9	459.1	472.1	463.0	449.9	442.1	423.9	423.9
22.5°	343.0	348.2	357.3	382.2	410.8	418.6	408.2	378.2	354.7	352.1	353.5
25°	305.2	310.4	324.7	340.4	356.1	369.1	358.7	336.5	323.4	311.7	311.7
27.5°	281.7	284.3	292.2	303.9	316.9	327.3	323.4	311.7	297.4	292.2	280.4
30°	263.4	267.4	276.5	279.1	290.8	296.0	289.6	286.9	277.8	271.3	267.4
32.5°	254.3	253.0	259.5	262.1	263.4	267.4	259.5	263.4	262.1	251.7	247.8
35°	191.7	202.2	219.1	233.5	237.3	242.5	241.3	236.1	221.7	210.0	195.6
37.5°	172.2	178.7	187.8	199.6	215.2	221.7	219.1	206.0	189.1	181.3	178.7
40°	159.1	163.0	170.8	178.7	194.4	206.0	197.0	185.2	172.2	165.6	161.7
42.5°	147.3	148.7	152.6	160.4	172.2	190.4	174.8	159.1	153.9	150.0	147.3
45°	134.3	134.3	139.5	143.5	156.5	173.4	157.8	143.5	140.9	138.3	136.9
47.5°	123.9	125.2	127.8	133.0	143.5	155.2	144.7	133.0	126.5	125.2	122.6
50°	110.8	112.2	117.4	122.6	135.7	142.1	135.7	122.6	116.1	112.2	112.2
52°	100.4	104.4	109.6	120.0	129.1	139.5	131.7	117.4	109.6	105.6	103.0
52.5°	99.2	101.8	107.0	118.7	129.1	138.3	130.4	116.1	107.0	104.4	101.8
55°	88.7	92.6	101.8	116.1	127.8	138.3	127.8	114.8	101.8	95.2	92.6
57.5°	84.8	87.4	99.2	117.4	126.5	138.3	127.8	114.8	101.8	90.0	87.4
60°	80.8	86.0	99.2	113.5	125.2	139.5	129.1	113.5	99.2	84.8	84.8
62.5°	77.0	80.8	97.8	110.8	120.0	134.3	123.9	110.8	95.2	80.8	79.6
65°	66.5	73.0	86.0	92.6	103.0	116.1	105.6	96.5	83.4	71.7	70.4
67.5°	50.9	53.5	63.9	71.7	78.2	90.0	84.8	73.0	63.9	54.7	54.7
70°	35.2	37.8	45.7	49.5	56.1	62.6	58.7	49.5	43.1	37.8	36.5
72.5°	24.8	26.1	28.7	31.3	33.9	36.5	35.2	28.7	24.8	23.5	22.2
75°	19.6	22.2	23.5	22.2	20.9	19.6	19.6	17.0	14.4	13.0	13.0
77.5°	19.6	20.9	19.6	17.0	14.4	13.0	11.8	10.4	7.8	6.6	7.8
80°	17.0	17.0	17.0	14.4	13.0	11.8	10.4	9.2	7.8	6.6	6.6
82.5°	18.2	18.2	17.0	14.4	14.4	11.8	11.8	10.4	9.2	6.6	6.6
85°	0.0	0.0	0.0	2.6	6.6	11.8	11.8	10.4	9.2	7.8	7.8
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.2	6.6	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5
2.5°	2879.6	2929.2	3023.1	3117.0	3174.4	3242.1	3364.8	3430.0	3514.8	3556.5	3638.7
5°	2320.2	2437.5	2479.3	2586.2	2701.0	2815.8	2998.3	3199.2	3366.1	3480.8	3629.5
7.5°	1692.8	1720.2	1881.9	1953.6	2141.4	2350.1	2599.2	2852.3	3063.5	3251.3	3364.8
10°	1269.0	1369.4	1471.1	1608.1	1759.4	1974.5	2213.2	2492.3	2766.1	2953.9	3097.4
12.5°	1019.9	1099.4	1235.1	1382.4	1568.9	1711.1	1951.0	2227.6	2582.3	2766.1	2955.3
15°	772.0	873.8	1027.7	1180.3	1377.2	1527.2	1769.8	2118.0	2574.5	2827.4	2990.5
17.5°	572.6	641.7	779.9	950.8	1151.6	1362.8	1690.2	2106.2	2661.8	2963.1	3131.3
20°	438.2	461.7	549.1	701.6	919.5	1195.9	1561.1	2157.1	2920.0	3293.0	3463.9
22.5°	354.7	365.2	399.1	504.7	716.0	1049.8	1499.8	2192.3	3210.9	3688.2	3916.5
25°	309.1	306.5	328.7	374.3	559.5	912.9	1421.5	2325.4	3566.9	4152.5	4357.2
27.5°	281.7	281.7	292.2	324.7	464.3	824.3	1372.0	2420.6	3925.5	4560.7	4671.6
30°	267.4	270.0	300.0	310.4	386.0	718.6	1289.8	2517.0	4268.6	4821.5	4974.1
32.5°	247.8	237.3	230.9	256.9	324.7	623.4	1207.7	2557.5	4546.4	5141.0	5271.5
35°	190.4	185.2	193.0	212.6	279.1	542.5	1116.3	2603.1	4865.9	5511.4	5537.6
37.5°	172.2	170.8	176.1	193.0	234.7	472.1	1051.2	2591.4	5109.7	5818.0	5747.5
40°	159.1	159.1	163.0	177.4	210.0	422.5	983.4	2580.9	5345.8	6162.3	5956.1
42.5°	148.7	148.7	155.2	164.3	199.6	390.0	932.5	2566.6	5544.0	6373.5	6078.7
45°	134.3	138.3	148.7	157.8	202.2	367.8	894.7	2511.8	5611.8	6370.9	6020.0
47.5°	123.9	129.1	139.5	152.6	182.6	361.3	868.6	2463.6	5588.4	6214.4	5836.2
50°	112.2	118.7	133.0	155.2	155.2	348.2	841.2	2506.6	5571.5	6093.1	5660.1
52°	104.4	109.6	127.8	151.3	135.7	320.8	824.3	2590.1	5640.6	6077.5	5581.9
52.5°	103.0	107.0	123.9	148.7	129.1	315.6	812.5	2609.6	5662.7	6038.3	5635.4
55°	91.3	96.5	113.5	116.1	105.6	259.5	774.6	2654.0	5553.2	5961.3	5584.5
57.5°	86.0	88.7	100.4	95.2	91.3	195.6	666.4	2584.9	4932.4	5294.9	5195.9
60°	79.6	82.2	93.9	74.3	77.0	136.9	500.8	2244.5	3960.8	4412.1	4590.7
62.5°	77.0	75.6	88.7	60.0	65.2	99.2	353.5	1824.5	3051.7	3632.1	3941.2
65°	67.8	66.5	63.9	50.9	56.1	77.0	211.3	1190.7	2150.6	2747.9	2917.4
67.5°	52.1	54.7	46.9	40.5	46.9	60.0	117.4	533.4	1128.1	1648.4	1785.4
70°	36.5	39.1	37.8	35.2	41.7	49.5	67.8	182.6	466.9	866.0	954.6
72.5°	22.2	27.4	28.7	30.0	36.5	43.1	48.3	58.7	123.9	306.5	380.8
75°	13.0	18.2	22.2	26.1	30.0	36.5	40.5	41.7	43.1	57.4	92.6
77.5°	9.2	13.0	19.6	24.8	30.0	36.5	43.1	45.7	43.1	40.5	43.1
80°	7.8	13.0	18.2	23.5	31.3	37.8	43.1	43.1	41.7	36.5	39.1
82.5°	7.8	13.0	19.6	24.8	30.0	36.5	41.7	43.1	39.1	36.5	37.8
85°	9.2	14.4	20.9	26.1	32.6	30.0	27.4	22.2	20.9	17.0	18.2
87.5°	9.2	13.0	13.0	14.4	15.6	15.6	15.6	14.4	11.8	10.4	10.4
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: P650748

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5	3333.5
2.5°	3642.5	3746.9	3743.0	3745.6	3729.9	3624.3	3573.4	3444.3	3480.8	3465.2
5°	3782.1	3885.2	3973.8	3963.4	3843.4	3700.0	3487.4	3286.5	3231.7	3150.9
7.5°	3642.5	3890.4	3972.5	3960.8	3783.4	3599.5	3260.5	3059.6	2964.4	2911.0
10°	3420.9	3707.8	3809.5	3830.3	3710.4	3431.3	3119.6	2797.4	2746.6	2654.0
12.5°	3294.4	3503.0	3565.6	3621.7	3580.0	3371.3	3012.6	2703.6	2633.1	2571.9
15°	3191.3	3315.2	3341.3	3405.2	3430.0	3317.8	3068.7	2805.2	2631.8	2625.3
17.5°	3286.5	3235.7	3140.5	3160.0	3238.3	3319.1	3213.5	3006.2	2837.9	2817.0
20°	3444.3	3220.0	3004.8	3053.1	3118.3	3366.1	3432.6	3286.5	3190.0	3136.5
22.5°	3625.6	3247.4	2961.7	2985.2	3109.2	3471.7	3787.4	3706.5	3526.5	3449.5
25°	3960.8	3323.0	2995.7	3011.4	3180.9	3619.1	4108.1	4168.2	4061.2	4045.5
27.5°	4288.1	3518.7	3070.0	3034.8	3217.4	3762.5	4302.5	4624.6	4436.8	4400.3
30°	4455.0	3677.8	3180.9	3120.9	3368.7	3849.9	4419.9	4922.0	4757.6	4740.6
32.5°	4710.7	3822.5	3266.9	3190.0	3453.5	3958.2	4639.0	5246.7	5087.5	5002.8
35°	4817.6	3980.4	3456.1	3366.1	3696.0	4109.5	4751.1	5536.2	5486.7	5404.5
37.5°	5023.7	4149.9	3679.0	3673.8	3989.5	4306.4	4953.2	5930.1	5921.0	5778.8
40°	5040.6	4335.1	4031.2	4195.5	4443.3	4649.4	5130.6	6039.6	6188.3	6091.8
42.5°	5066.7	4659.8	4640.2	4775.9	4988.5	4944.2	5137.2	6065.7	6292.6	6235.3
45°	5078.5	4984.5	5259.7	5510.1	5598.8	5330.2	5075.9	6016.2	6347.4	6204.0
47.5°	4984.5	5263.7	5760.5	6244.4	6270.5	5567.5	5049.8	5965.3	6380.0	6284.8
50°	4997.6	5438.4	6193.5	6626.5	6531.3	5777.5	5009.3	5934.0	6363.1	6299.2
52°	4966.3	5442.3	6254.9	6618.7	6552.1	5661.4	4940.2	5814.0	6347.4	6393.0
52.5°	5001.5	5418.8	6190.9	6623.9	6537.8	5718.8	4931.1	5880.5	6356.5	6263.9
55°	4880.2	5139.8	5816.6	6000.5	5987.5	5190.7	4650.6	5660.1	6117.9	6119.2
57.5°	4410.7	4455.0	4562.0	4558.1	4498.1	4080.8	3977.8	5204.9	5454.1	5318.4
60°	3886.4	3261.7	2973.5	2856.1	2789.6	2721.8	3518.7	4761.6	4785.0	4727.6
62.5°	3358.3	2261.4	1878.0	1845.4	1861.0	2108.9	3401.3	4585.5	4444.6	4320.7
65°	2710.0	1648.4	1364.2	1321.1	1473.7	1741.0	2753.1	3516.1	3299.6	3196.6
67.5°	1701.9	1202.5	922.1	841.2	1025.1	1198.5	1808.9	2209.3	1966.7	1824.5
70°	1009.5	671.6	417.3	374.3	421.3	639.1	1013.3	1102.0	911.6	838.6
72.5°	397.8	246.5	116.1	99.2	103.0	224.3	373.0	363.9	275.2	245.2
75°	107.0	74.3	40.5	32.6	27.4	41.7	60.0	39.1	14.4	18.2
77.5°	49.5	44.3	35.2	27.4	20.9	15.6	7.8	2.6	2.6	1.3
80°	43.1	37.8	32.6	27.4	20.9	13.0	6.6	1.3	1.3	1.3
82.5°	40.5	35.2	30.0	24.8	19.6	13.0	6.6	1.3	0.0	0.0
85°	17.0	22.2	24.8	23.5	20.9	13.0	6.6	1.3	0.0	0.0
87.5°	9.2	7.8	6.6	5.2	4.0	2.6	2.6	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

(END OF REPORT)