

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: P650805

Luminaire Tested: **GALN-SA3C-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650805  
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-SA3C-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 12675.6 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

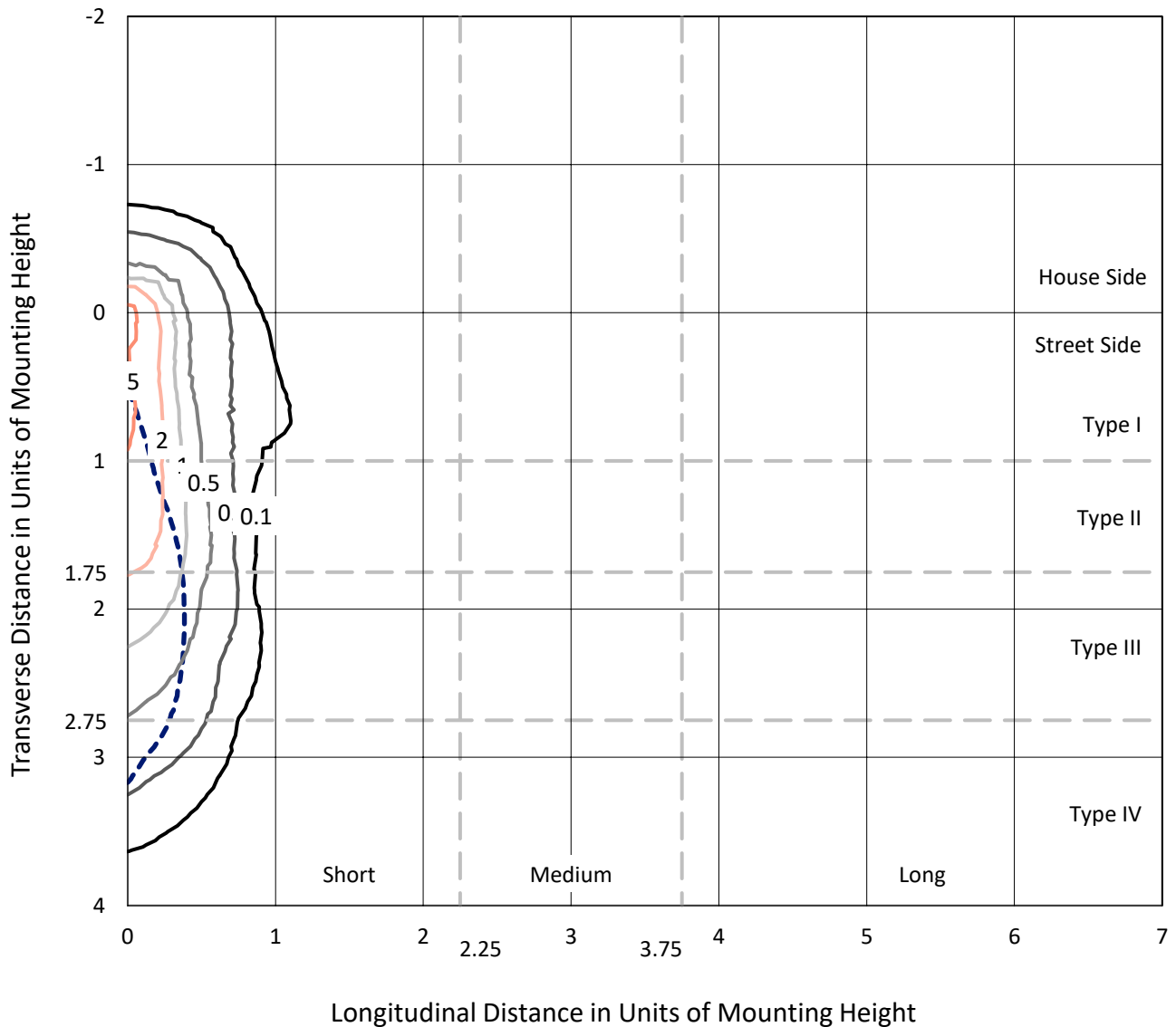
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

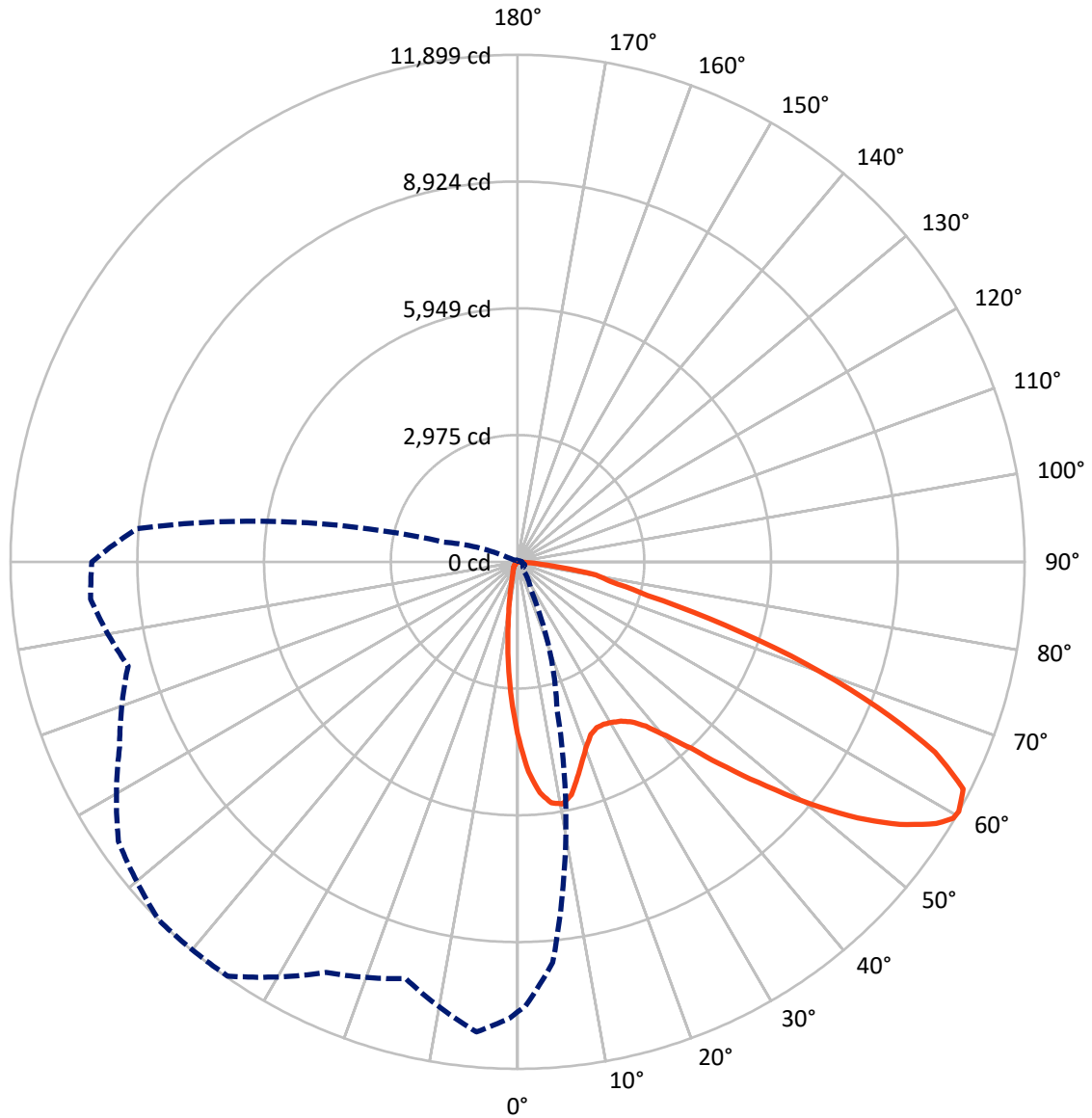
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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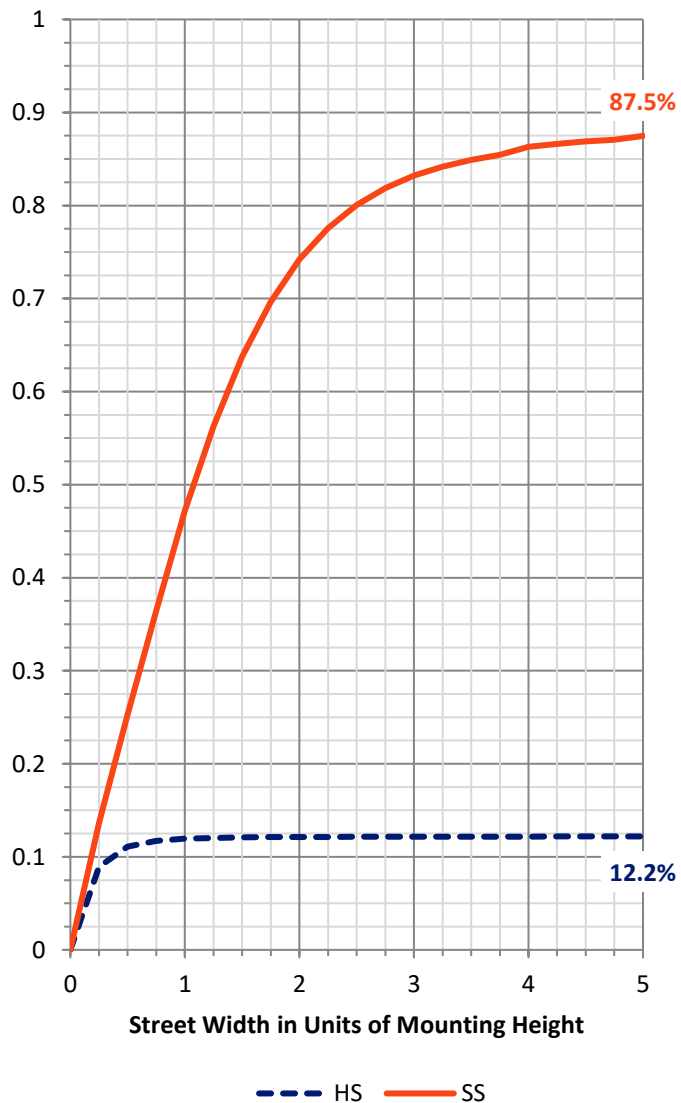
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1563.4	0.0	1563.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	11112.1	0.0	11112.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	12675.6	0.0	12675.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.6	2.5
10°-20°	618.8	4.9
20°-30°	907.4	7.2
30°-40°	1349.4	10.6
40°-50°	1963.8	15.5
50°-60°	2832.0	22.3
60°-70°	3114.9	24.6
70°-80°	1395.2	11.0
80°-90°	182.3	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°	12675.6	100.0
0°-180°	12675.6	100.0

**Coefficient of Utilization**



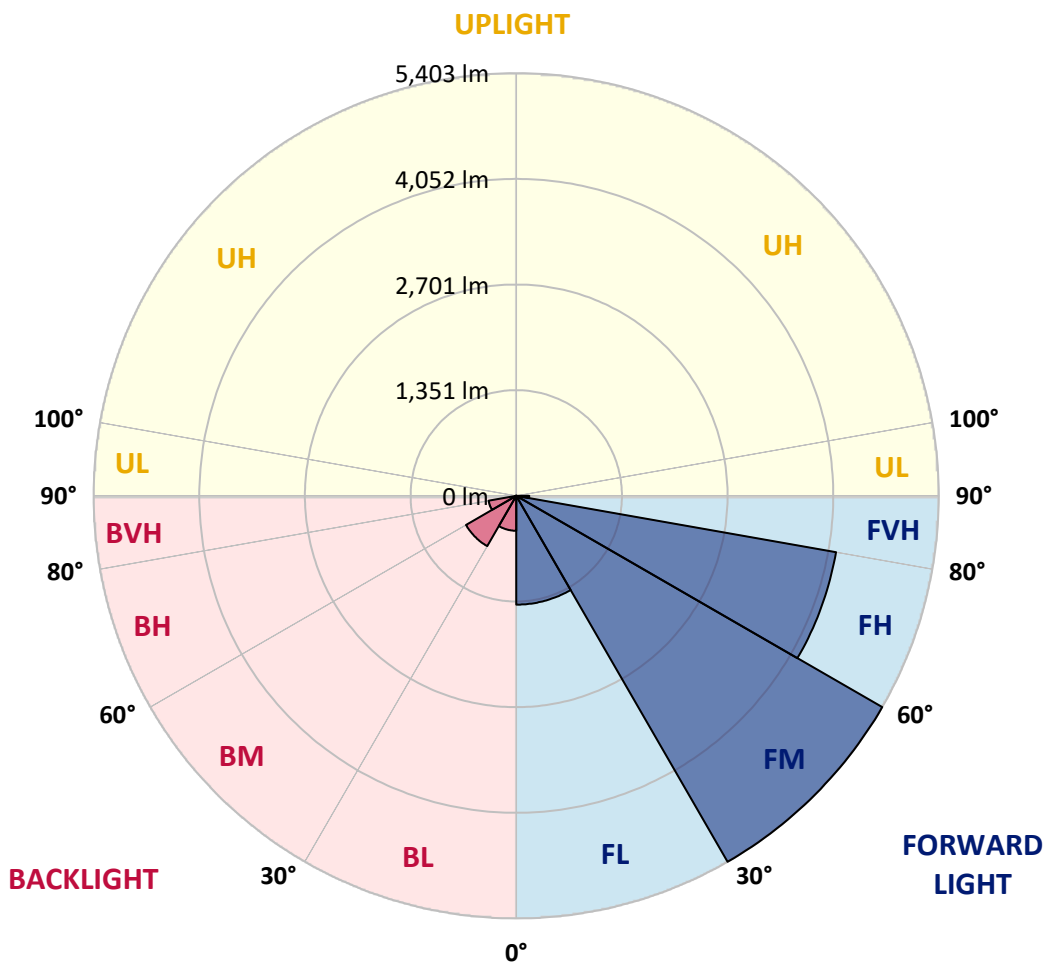
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.1	11.0			
FM (30°-60°)	5402.7	42.6			
FH (60°-80°)	4151.6	32.8			G2/5000
FVH (80°-90°)	166.7	1.3			G2/225
BL (0°-30°)	446.7	3.5	B1/500		
BM (30°-60°)	742.6	5.9	B1/1000		
BH (60°-80°)	358.5	2.8	B1/500		G1/500
BVH (80°-90°)	15.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4
2.5°	4605.7	4585.5	4539.2	4398.5	4276.1	4116.2	3954.4	3827.1	3749.1	3605.5	3540.0
5°	4462.1	4471.8	4337.8	4048.7	3727.0	3507.3	3267.4	3076.5	2866.5	2733.6	2593.8
7.5°	4087.3	4068.1	3922.6	3519.8	3128.6	2810.6	2507.1	2260.4	2105.4	1981.1	1876.9
10°	3766.4	3752.0	3566.0	3047.7	2627.5	2389.5	2184.3	1968.5	1801.8	1619.7	1474.2
12.5°	3565.1	3532.3	3318.4	2776.9	2434.9	2213.3	1989.7	1765.2	1534.9	1350.9	1174.5
15°	3497.6	3450.5	3212.5	2683.5	2311.5	2030.2	1749.8	1491.5	1226.6	1023.2	890.3
17.5°	3620.0	3542.0	3288.6	2667.1	2164.1	1791.2	1446.3	1110.0	834.4	679.3	597.4
20°	3900.4	3810.8	3481.2	2650.7	2000.3	1523.4	1099.4	784.3	577.2	492.4	447.1
22.5°	4316.6	4193.3	3766.4	2676.7	1849.0	1262.3	794.0	554.1	458.7	405.6	373.8
25°	4816.7	4713.6	4127.8	2769.2	1729.5	1057.0	613.8	452.9	386.4	353.6	329.5
27.5°	5365.0	5200.2	4595.1	2880.0	1620.7	898.0	538.6	404.7	344.0	314.1	301.6
30°	5755.2	5627.0	4986.3	2957.1	1484.8	778.5	492.4	398.9	345.0	309.3	286.2
32.5°	6140.6	5976.8	5313.9	2992.7	1385.5	695.7	425.9	347.8	302.6	284.3	261.1
35°	6553.0	6381.5	5640.5	2973.4	1311.4	640.8	386.4	310.2	259.2	228.3	205.2
37.5°	6970.2	6789.1	5965.2	2904.1	1265.1	618.6	355.6	294.9	244.7	212.9	187.9
40°	7465.5	7223.6	6269.7	2847.2	1216.9	607.0	335.3	285.2	234.1	200.4	175.3
42.5°	7870.2	7639.9	6557.8	2817.4	1184.2	580.0	335.3	277.5	227.4	189.8	163.8
45°	8253.7	8014.6	6869.0	2841.5	1170.7	546.3	339.2	276.5	222.6	182.1	156.1
47.5°	8574.5	8367.4	7189.0	2932.1	1153.3	509.7	318.9	290.1	219.7	175.3	148.4
50°	8953.2	8752.8	7611.9	3115.1	1122.5	473.1	293.8	312.2	218.7	169.5	141.6
52.5°	9487.0	9270.2	8195.8	3323.2	1073.4	417.2	270.7	309.3	214.9	160.0	134.9
55°	10139.3	9963.9	8872.2	3572.8	1005.9	354.6	234.1	274.6	203.3	143.6	123.3
57.5°	10557.5	10408.1	9379.1	3680.7	902.8	290.1	206.2	230.3	185.9	128.2	109.8
59°	10606.6	10471.7	9485.1	3645.1	835.4	265.0	192.7	197.6	181.2	119.5	102.1
60°	10565.1	10425.5	9442.7	3575.7	772.8	247.6	181.2	175.3	182.1	114.6	96.4
62.5°	10299.2	10060.3	9031.2	3224.0	675.4	227.4	160.9	143.6	160.9	103.1	85.8
65°	9785.6	9427.2	8217.0	2728.7	636.9	215.8	136.8	120.4	122.4	90.6	74.2
67.5°	8888.6	8436.7	7133.0	2217.1	620.5	216.8	115.6	107.9	94.4	77.1	65.5
70°	7470.3	7019.3	5723.4	1824.0	612.8	216.8	98.3	92.5	79.0	64.6	56.9
72.5°	5293.7	4808.1	3860.9	1432.8	552.1	215.8	83.8	83.8	64.6	54.0	46.3
75°	2990.8	2994.6	2427.1	1013.7	458.7	178.3	67.4	66.5	47.2	41.5	34.6
77.5°	1743.1	1712.2	1636.1	435.6	212.9	80.9	47.2	40.5	32.8	29.9	25.1
80°	896.1	737.1	717.8	158.0	76.1	51.0	32.8	23.1	21.2	19.3	17.3
82.5°	265.0	265.9	237.0	63.6	42.4	33.7	16.4	12.5	11.5	10.6	10.6
85°	18.3	11.5	13.5	19.3	26.0	13.5	0.9	2.9	2.9	3.9	4.8
87.5°	1.9	0.9	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°	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4
2.5°	3467.8	3510.2	3431.1	3433.0	3367.5	3388.7	3311.7	3336.8	3291.4	3326.2	3428.3
5°	2609.3	2618.9	2555.3	2535.0	2544.7	2584.2	2599.6	2529.3	2559.2	2500.4	2496.5
7.5°	1838.4	1849.9	1813.4	1808.6	1878.0	1861.6	1891.4	1819.2	1750.7	1780.6	1725.7
10°	1427.9	1379.7	1304.6	1283.5	1269.9	1278.6	1278.6	1213.1	1203.5	1177.4	1216.9
12.5°	1127.4	1068.6	997.3	900.9	876.8	874.9	839.2	781.5	763.1	740.9	773.7
15°	819.0	794.9	735.2	681.2	626.3	615.7	557.9	510.7	448.1	439.3	436.5
17.5°	576.2	540.5	539.6	508.7	476.9	455.7	401.8	347.8	323.8	320.8	320.8
20°	431.7	419.2	398.9	395.0	385.4	361.3	313.2	284.3	272.7	273.7	277.5
22.5°	363.2	354.6	336.2	327.6	323.8	302.6	266.9	247.6	241.9	241.9	242.8
25°	324.7	317.0	296.8	283.2	278.5	263.1	235.1	220.7	215.8	215.8	215.8
27.5°	295.8	286.2	265.0	253.4	244.7	227.4	210.1	195.6	190.7	190.7	191.7
30°	275.6	265.0	245.7	230.3	216.8	201.4	187.0	174.4	168.6	167.7	168.6
32.5°	248.6	238.9	219.7	210.1	194.6	176.4	164.8	153.2	147.4	148.4	147.4
35°	193.7	190.7	177.3	180.1	171.5	156.1	145.5	133.0	126.2	125.2	127.2
37.5°	176.4	164.8	149.4	150.3	147.4	141.6	124.3	110.8	106.0	106.0	107.0
40°	162.8	151.3	134.0	125.2	126.2	126.2	107.9	93.4	88.6	87.7	89.7
42.5°	151.3	139.7	120.4	106.0	102.1	107.0	91.5	77.1	72.2	70.3	72.2
45°	143.6	131.0	108.9	92.5	80.9	86.7	75.2	63.6	57.8	57.8	56.9
47.5°	135.8	124.3	100.2	80.0	67.4	64.6	61.6	51.0	45.2	44.3	45.2
50°	129.1	117.6	90.6	69.4	56.9	50.1	50.1	40.5	36.6	34.6	35.7
52.5°	122.4	109.8	81.9	61.6	49.1	40.5	35.7	32.8	29.9	28.9	29.9
55°	112.7	100.2	73.3	53.0	42.4	33.7	27.9	27.0	25.1	23.1	25.1
57.5°	101.2	89.7	64.6	45.2	33.7	26.0	23.1	22.2	20.3	19.3	19.3
59°	94.4	83.8	59.7	39.5	29.9	23.1	21.2	20.3	18.3	16.4	17.3
60°	90.6	81.9	56.9	36.6	27.0	21.2	19.3	18.3	16.4	15.4	16.4
62.5°	80.0	73.3	50.1	29.9	21.2	15.4	13.5	14.5	13.5	12.5	13.5
65°	70.3	64.6	42.4	23.1	16.4	10.6	9.7	12.5	11.5	10.6	11.5
67.5°	62.7	55.9	35.7	17.3	11.5	5.8	6.7	10.6	10.6	9.7	10.6
70°	54.0	48.2	28.9	12.5	5.8	2.9	4.8	7.7	9.7	8.7	9.7
72.5°	44.3	37.6	22.2	8.7	2.9	0.0	2.9	6.7	9.7	8.7	9.7
75°	34.6	27.9	16.4	4.8	0.0	0.0	0.9	5.8	9.7	8.7	9.7
77.5°	25.1	20.3	9.7	0.9	0.0	0.0	0.9	5.8	9.7	8.7	9.7
80°	16.4	14.5	3.9	0.0	0.0	0.0	0.9	5.8	9.7	9.7	10.6
82.5°	10.6	7.7	0.0	0.0	0.0	0.0	1.9	7.7	10.6	11.5	11.5
85°	4.8	0.0	0.0	0.0	0.0	0.0	3.9	9.7	12.5	12.5	12.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	6.7	11.5	14.5	14.5	14.5
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°	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4
2.5°	3445.6	3506.3	3592.1	3724.0	3831.0	3999.6	4128.7	4305.1	4483.4	4537.3	4621.1
5°	2536.0	2614.1	2808.7	2986.0	3097.7	3454.2	3679.7	4035.3	4354.2	4507.4	4674.1
7.5°	1761.3	1853.8	2002.3	2249.8	2485.0	2775.0	3139.2	3545.8	4013.1	4231.8	4467.0
10°	1236.2	1351.8	1560.9	1764.2	2060.0	2335.6	2695.0	3144.0	3659.5	3917.7	4212.6
12.5°	780.4	883.6	1160.1	1388.5	1757.5	2077.4	2408.9	2815.4	3412.9	3677.8	3987.1
15°	446.2	532.9	662.0	954.9	1364.4	1787.4	2200.7	2672.9	3286.6	3613.3	3947.6
17.5°	332.4	355.6	413.4	579.1	952.0	1446.3	2009.0	2629.5	3372.4	3755.8	4137.4
20°	279.5	294.9	321.9	387.4	607.0	1113.8	1822.0	2637.2	3649.9	4131.7	4494.0
22.5°	250.5	260.1	282.3	324.7	414.4	811.3	1603.3	2682.5	3986.2	4593.2	5011.4
25°	219.7	232.2	251.5	288.1	345.0	562.7	1387.5	2783.6	4457.3	5179.0	5572.1
27.5°	195.6	207.1	226.4	260.1	302.6	429.8	1136.0	2870.3	4954.5	5768.7	6090.5
30°	171.5	183.1	202.3	229.3	267.9	347.8	865.2	2921.5	5437.2	6211.0	6458.5
32.5°	151.3	160.9	179.2	203.3	235.1	294.9	682.2	2868.5	5806.3	6612.8	6778.5
35°	131.0	142.6	158.0	180.1	208.1	251.5	567.5	2685.4	6123.2	7026.1	7085.8
37.5°	109.8	123.3	139.7	160.0	182.1	231.3	455.7	2483.1	6462.4	7541.6	7443.3
40°	92.5	105.0	120.4	142.6	162.8	212.0	350.7	2267.2	6828.6	8025.3	7833.6
42.5°	75.2	88.6	107.0	127.2	160.9	185.0	271.7	2043.6	7157.2	8446.3	8186.2
45°	59.7	71.3	90.6	116.6	160.0	158.9	210.1	1823.0	7404.8	8747.0	8449.3
47.5°	47.2	56.9	76.1	113.7	147.4	134.9	168.6	1686.2	7665.0	9017.7	8650.6
50°	37.6	47.2	65.5	118.5	129.1	115.6	141.6	1708.3	7916.4	9155.5	8733.4
52.5°	31.8	41.5	56.9	93.4	99.2	101.2	124.3	1810.5	8241.1	9303.0	8898.3
55°	27.9	36.6	48.2	65.5	77.1	90.6	113.7	1884.7	8675.7	9618.9	9261.5
57.5°	22.2	31.8	43.4	55.9	63.6	79.0	105.0	1890.5	9068.8	10024.6	9744.2
59°	20.3	28.9	40.5	53.0	56.9	71.3	99.2	1841.3	9083.2	10085.4	9965.8
60°	18.3	27.9	38.5	49.1	54.0	67.4	94.4	1784.4	8952.2	9989.0	10057.4
62.5°	15.4	24.1	33.7	39.5	46.3	55.9	81.9	1578.3	8317.2	9552.5	9887.8
65°	13.5	21.2	28.9	32.8	38.5	48.2	72.2	1263.2	7615.8	8960.9	9402.2
67.5°	12.5	19.3	25.1	27.9	33.7	44.3	64.6	892.2	6707.1	8210.3	8672.8
70°	11.5	18.3	22.2	26.0	29.9	37.6	54.9	520.3	5166.5	6894.1	7382.6
72.5°	11.5	17.3	19.3	22.2	26.0	33.7	51.0	281.3	3532.3	5258.9	5890.1
75°	11.5	16.4	17.3	19.3	23.1	30.9	45.2	147.4	2283.6	3653.7	4509.4
77.5°	11.5	15.4	17.3	18.3	22.2	27.0	39.5	92.5	1521.5	2559.2	3047.7
80°	12.5	15.4	16.4	18.3	21.2	25.1	32.8	61.6	894.2	1539.7	1854.8
82.5°	13.5	15.4	17.3	19.3	22.2	24.1	28.9	38.5	412.4	1018.5	1152.4
85°	14.5	16.4	18.3	20.3	23.1	24.1	27.0	27.9	67.4	459.6	621.5
87.5°	15.4	17.3	19.3	21.2	25.1	25.1	25.1	25.1	23.1	49.1	125.2
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: P650805

CATALOG NUMBER: GALN-SA3C-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4	4189.4
2.5°	4727.1	4836.0	4912.1	4931.4	4876.5	4851.4	4782.0	4674.1	4608.6	4605.7
5°	4981.5	5236.8	5414.1	5444.0	5338.0	5158.8	4945.8	4671.3	4510.3	4462.1
7.5°	4938.1	5385.2	5670.4	5711.8	5533.6	5191.5	4779.2	4336.9	4161.5	4087.3
10°	4759.9	5305.2	5712.8	5778.3	5540.3	5058.5	4534.4	4041.1	3823.3	3766.4
12.5°	4607.6	5158.8	5521.1	5611.7	5431.4	4950.6	4387.9	3851.3	3618.1	3565.1
15°	4541.1	4985.4	5207.0	5253.2	5223.3	4883.2	4372.5	3822.3	3555.4	3497.6
17.5°	4607.6	4837.9	4865.9	4913.0	4979.6	4876.5	4520.9	3979.4	3691.3	3620.0
20°	4782.0	4709.8	4594.1	4614.4	4766.6	4904.4	4785.0	4327.2	3976.5	3900.4
22.5°	5078.8	4678.0	4415.9	4398.5	4591.3	4997.9	5172.2	4798.4	4391.8	4316.6
25°	5443.0	4758.0	4350.3	4312.8	4522.8	5134.6	5593.3	5375.6	4931.4	4816.7
27.5°	5840.0	4923.6	4350.3	4313.7	4517.1	5256.1	5953.7	5886.2	5490.2	5365.0
30°	6057.7	5060.5	4413.0	4371.5	4588.3	5326.4	6146.4	6340.0	5910.3	5755.2
32.5°	6252.4	5250.3	4535.3	4457.3	4737.7	5430.5	6318.9	6725.5	6244.7	6140.6
35°	6431.6	5453.6	4704.0	4613.4	4934.2	5573.1	6509.7	7130.2	6710.1	6553.0
37.5°	6629.1	5689.7	4967.0	4889.9	5262.8	5850.6	6736.1	7662.0	7167.8	6970.2
40°	6844.0	5963.3	5399.6	5366.9	5785.1	6164.7	7022.3	8229.5	7689.9	7465.5
42.5°	7062.7	6278.4	5929.6	5983.5	6376.7	6605.0	7316.1	8666.0	8117.8	7870.2
45°	7261.2	6681.2	6618.5	6885.4	7066.6	7034.8	7533.8	8973.4	8490.7	8253.7
47.5°	7511.7	7267.9	7452.0	7863.4	7868.2	7502.1	7698.7	9224.8	8811.5	8574.5
50°	7792.1	7960.7	8528.2	8947.4	8834.6	7961.7	7891.4	9522.6	9143.0	8953.2
52.5°	8116.8	8736.4	9522.6	9988.0	9725.0	8462.7	8212.2	9844.4	9669.1	9487.0
55°	8494.5	9265.4	10514.1	10885.1	10620.1	9085.2	8699.7	10280.9	10263.6	10139.3
57.5°	8921.4	9824.2	11088.3	11590.3	11354.3	9815.6	9381.0	10692.4	10626.8	10557.5
59°	9258.6	10111.3	11341.8	11862.1	11719.5	10327.1	9838.7	10948.6	10710.6	10606.6
60°	9462.8	10306.0	11435.2	11898.7	11865.9	10631.7	10128.7	11074.0	10709.7	10565.1
62.5°	10069.0	10646.1	11399.6	11735.8	11864.0	11215.6	10979.5	11211.7	10511.2	10299.2
65°	10284.8	10533.4	10809.0	10767.5	10877.3	11185.7	11522.9	11060.4	10087.3	9785.6
67.5°	9864.7	9297.2	9394.5	9118.0	9064.0	9944.7	11302.3	10320.4	9257.6	8888.6
70°	8315.3	7122.4	7073.3	7200.5	6851.7	8051.3	10148.9	8895.3	7888.5	7470.3
72.5°	6545.3	5033.5	4619.2	5087.5	5076.9	6142.5	8430.9	6312.1	5329.3	5293.7
75°	5147.2	3504.4	3075.6	3151.7	3298.1	4446.7	6714.9	4008.3	3281.8	2990.8
77.5°	3455.2	2483.1	2316.4	2222.8	2380.9	2854.9	4248.2	2173.7	1840.4	1743.1
80°	1991.7	1803.8	2048.5	1859.6	1944.4	1798.9	2113.0	997.3	827.7	896.1
82.5°	1296.0	1027.1	1094.6	813.2	1111.9	1121.6	678.4	294.9	249.5	265.0
85°	810.3	481.8	270.7	192.7	383.5	705.3	212.0	18.3	21.2	18.3
87.5°	210.1	80.0	33.7	50.1	61.6	54.9	49.1	2.9	0.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)