

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: P650799

Luminaire Tested: **GALN-SA3C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650799  
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-SA3C-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 9758.1 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

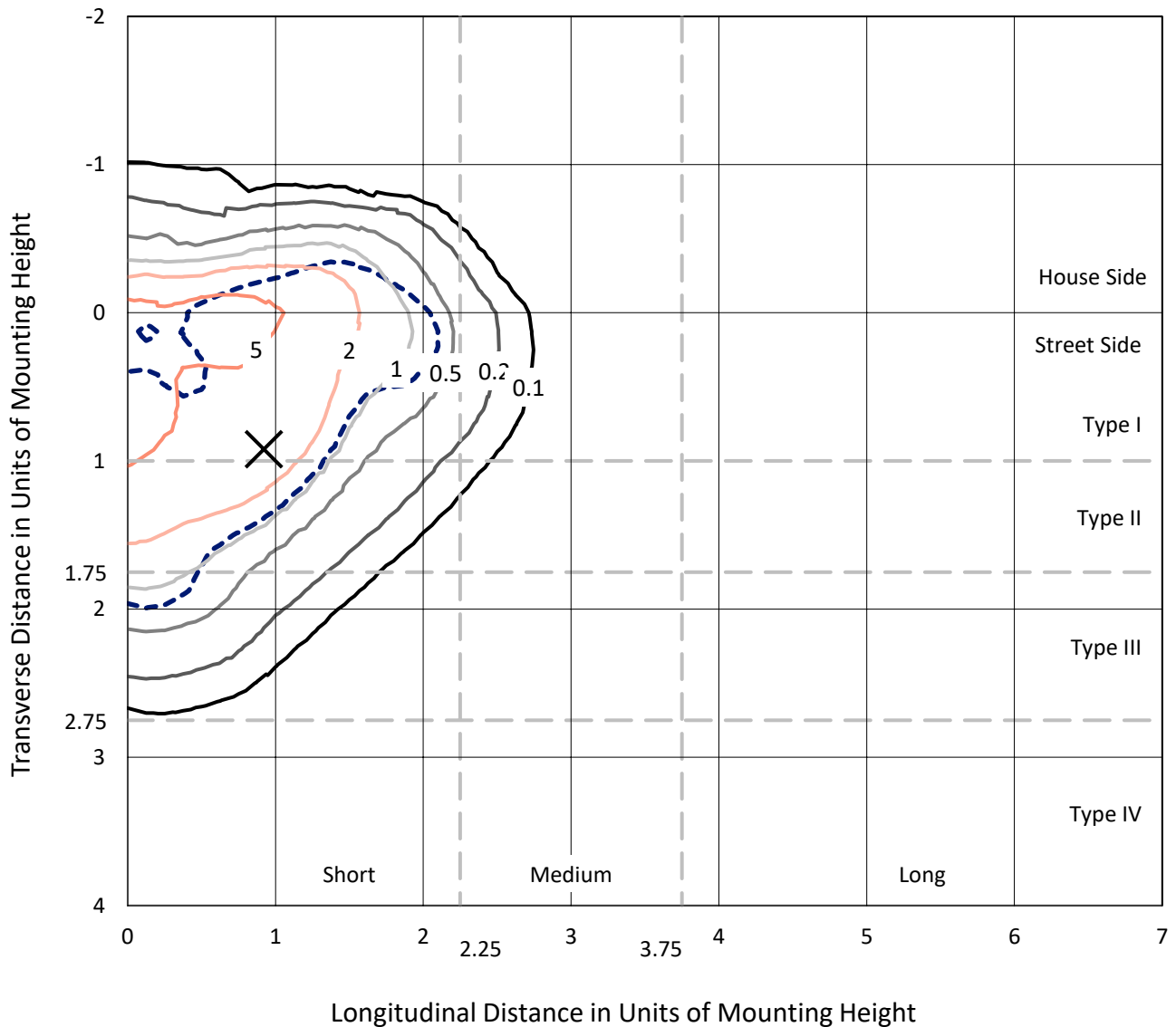
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

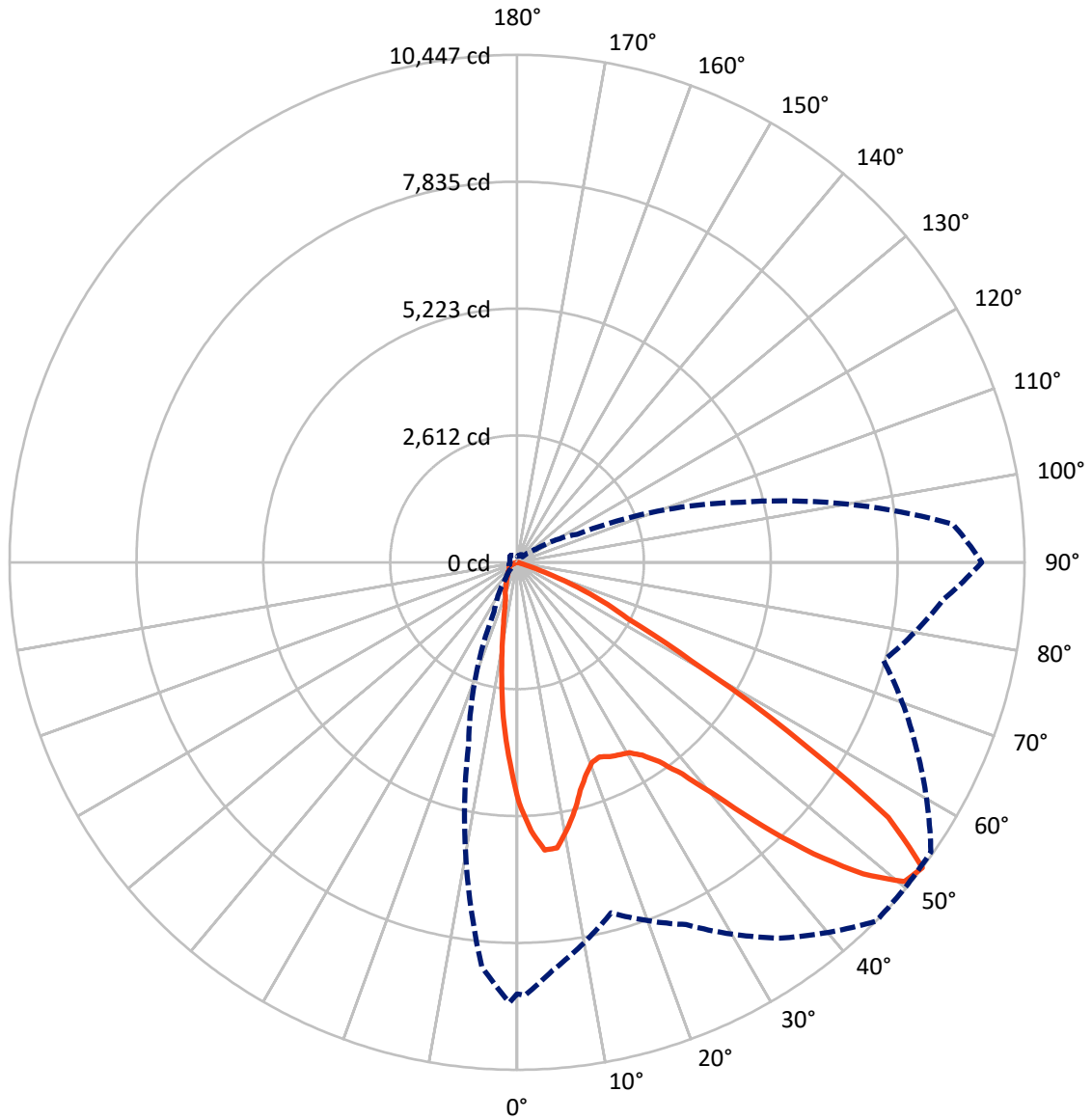
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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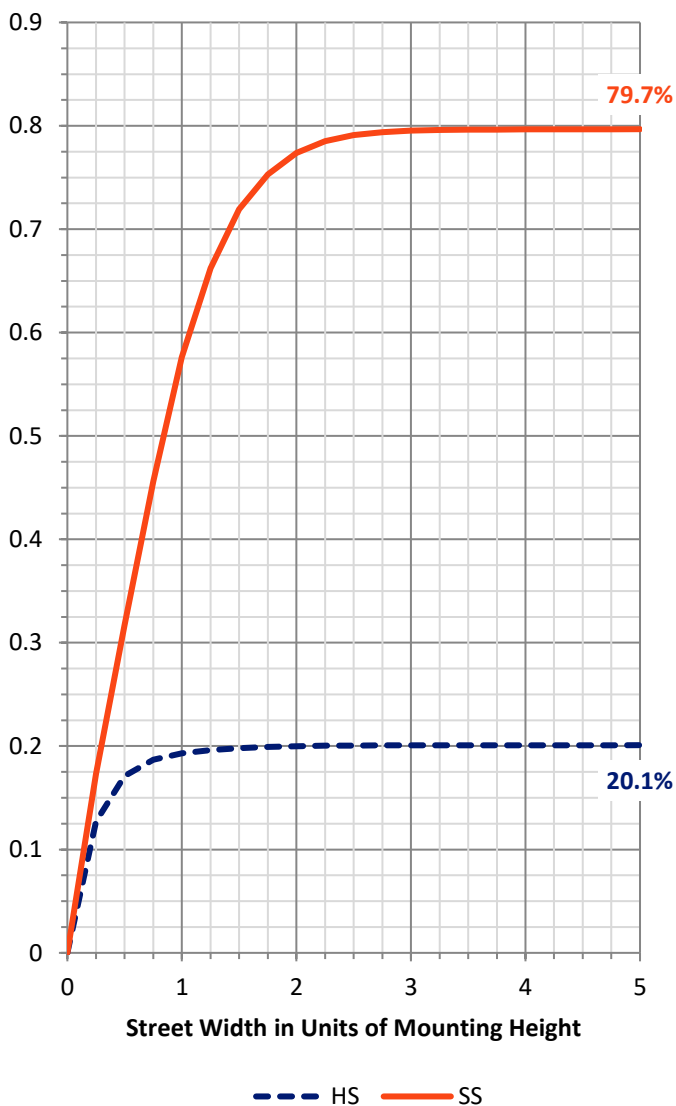
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1980.4	0.0	1980.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	7777.7	0.0	7777.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	9758.1	0.0	9758.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.8	3.7
10°-20°	711.9	7.3
20°-30°	1083.4	11.1
30°-40°	1619.3	16.6
40°-50°	2306.0	23.6
50°-60°	2478.9	25.4
60°-70°	1098.5	11.3
70°-80°	88.9	0.9
80°-90°	10.4	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°	9758.1	100.0
0°-180°	9758.1	100.0

**Coefficient of Utilization**



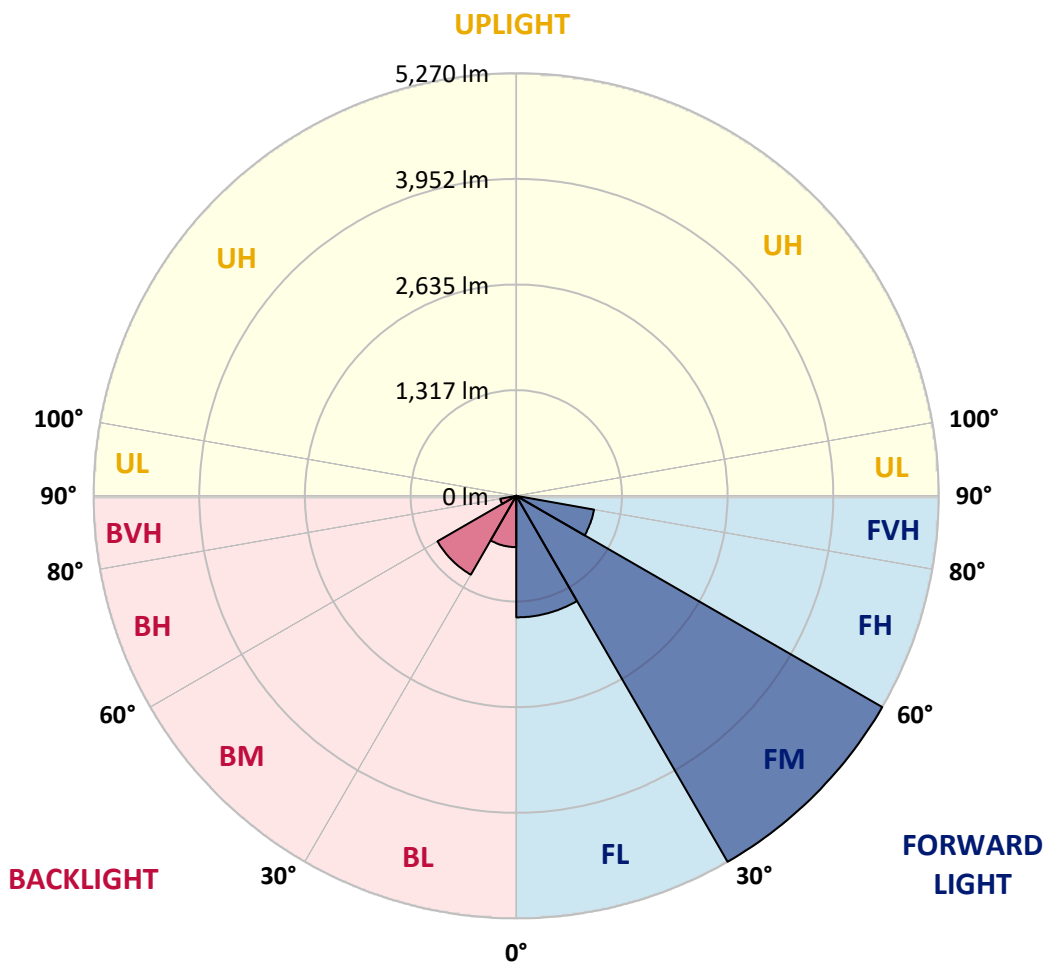
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.6	15.5			
FM (30°-60°)	5269.7	54.0			
FH (60°-80°)	984.7	10.1			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	640.5	6.6	B2/1000		
BM (30°-60°)	1134.6	11.6	B2/2500		
BH (60°-80°)	202.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9
2.5°	5235.7	5251.0	5335.5	5441.1	5496.7	5623.4	5535.1	5558.2	5510.1	5341.3	5208.8
5°	5076.4	5074.5	5182.0	5443.0	5690.5	5942.0	5949.7	5815.3	5579.3	5320.2	4949.7
7.5°	4596.6	4671.4	4782.8	5199.2	5657.9	5846.0	5936.2	5778.8	5416.1	5045.7	4644.6
10°	4233.8	4272.3	4460.3	4963.2	5299.1	5550.4	5606.1	5516.0	5237.7	4775.1	4326.0
12.5°	4024.7	4043.9	4264.5	4686.8	5041.9	5228.0	5254.9	5297.1	5097.6	4663.8	4124.4
15°	4026.6	4041.9	4339.4	4692.5	4832.6	4782.8	4871.1	4869.1	4955.5	4642.7	4293.4
17.5°	4316.3	4333.7	4602.4	4777.0	4715.6	4598.5	4592.8	4681.0	4863.3	4905.6	4548.6
20°	4815.4	4855.7	5053.4	5043.8	4698.3	4462.3	4397.0	4464.2	4888.3	5128.2	5063.0
22.5°	5487.1	5542.8	5681.0	5416.1	4777.0	4370.1	4349.0	4479.5	5053.4	5625.3	5646.4
25°	6266.4	6360.4	6427.6	6087.8	5057.2	4529.5	4429.6	4654.2	5276.0	6164.6	6389.2
27.5°	6782.7	6880.5	6865.2	6379.6	5245.3	4571.7	4487.2	4696.4	5469.9	6293.2	6776.9
30°	7185.7	7245.1	7352.6	6536.9	5433.4	4690.7	4546.7	4874.9	5533.2	6515.8	7245.1
32.5°	7655.9	7696.2	7703.9	6815.2	5723.2	4840.4	4731.0	5097.6	5813.4	6728.9	7659.7
35°	8129.9	8189.4	8064.7	7158.8	5901.7	5118.7	5038.0	5483.3	6038.0	6949.6	8116.5
37.5°	8644.3	8675.0	8387.1	7300.8	6157.0	5571.5	5527.5	5899.8	6427.6	7348.8	8623.2
40°	9076.2	9104.9	8730.7	7475.5	6425.7	6204.9	6318.2	6694.4	6957.3	7607.9	8876.5
42.5°	9316.0	9383.2	8845.8	7379.5	6965.0	6922.7	7425.6	7558.0	7571.4	7680.9	9103.0
45°	9381.3	9350.6	8655.8	7458.2	7437.0	8103.0	8559.9	8734.5	8181.8	7815.2	9160.6
47.5°	9079.9	9120.3	8375.6	7389.1	8057.0	8997.4	9588.6	9913.0	8636.6	7698.1	9018.5
50°	8836.2	8784.4	8285.4	7339.2	8224.0	9419.7	10331.3	10404.3	9055.0	7842.1	8863.0
52.5°	8884.2	8916.8	8429.3	7471.6	8227.8	9444.6	10446.5	10396.5	9068.4	7809.4	8807.5
55°	8985.9	8841.9	8367.9	7179.9	7677.0	8747.9	9271.9	9195.2	8369.8	7462.0	8671.1
57.5°	7753.8	7976.4	7694.2	6410.3	6300.9	6590.7	6581.1	6817.1	6243.3	6421.8	7893.9
60°	6293.2	6331.6	6437.2	5483.3	4360.5	4260.8	4122.6	3972.9	4201.2	5491.0	7179.9
62.5°	5535.1	5489.0	5865.2	4988.1	3078.5	2577.6	2554.5	2646.6	3241.6	5237.7	6734.6
65°	4022.8	4080.3	4352.8	3871.1	2310.8	1967.3	1932.7	2205.2	2623.6	4197.4	5139.8
67.5°	2456.6	2568.0	2592.9	2387.5	1568.0	1245.6	1195.6	1443.2	1894.3	2715.8	3013.2
70°	1134.3	1268.6	1395.3	1303.1	907.8	512.4	483.7	606.4	955.8	1562.2	1598.7
72.5°	343.5	345.5	483.7	504.8	293.7	115.1	101.8	134.3	324.4	516.3	543.1
75°	25.0	26.8	65.3	74.8	55.7	28.8	30.7	36.5	69.1	115.1	86.4
77.5°	1.9	1.9	1.9	9.6	17.2	19.2	25.0	28.8	36.5	42.2	38.3
80°	1.9	0.0	1.9	7.7	13.5	19.2	23.0	26.8	28.8	32.6	28.8
82.5°	0.0	0.0	0.0	5.7	13.5	19.2	21.1	28.8	32.6	38.3	32.6
85°	0.0	0.0	0.0	5.7	13.5	21.1	19.2	9.6	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9
2.5°	5231.9	5157.0	4986.2	4899.8	4696.4	4667.6	4468.0	4435.3	4368.2	4331.7	4243.4
5°	4786.6	4696.4	4418.1	4184.0	3911.4	3721.4	3575.6	3443.1	3366.4	3295.4	3328.0
7.5°	4423.8	4160.9	3851.9	3460.4	3145.7	2942.2	2719.5	2537.2	2429.7	2356.8	2374.1
10°	4043.9	3873.1	3443.1	3003.6	2623.6	2479.7	2305.0	2164.9	2013.3	1882.7	1821.4
12.5°	3924.9	3671.6	3132.2	2685.1	2397.1	2257.1	2057.4	1896.2	1702.4	1543.1	1487.4
15°	3946.0	3702.3	3047.8	2569.8	2230.2	1988.4	1750.4	1550.7	1337.7	1226.4	1168.8
17.5°	4289.5	3867.3	3103.5	2449.0	1998.0	1662.1	1368.4	1115.1	955.8	840.7	815.7
20°	4711.8	4224.3	3222.5	2360.7	1807.9	1322.4	999.9	781.1	648.7	629.5	623.8
22.5°	5329.8	4807.7	3477.7	2301.1	1575.7	1030.6	685.2	568.1	531.6	527.8	529.7
25°	6193.4	5538.9	3756.0	2251.3	1401.0	794.6	560.4	481.7	470.2	464.5	474.1
27.5°	6567.7	5980.4	3903.8	2143.8	1241.7	715.9	552.7	477.9	445.2	435.6	441.4
30°	7030.2	6274.0	4136.0	1959.5	1007.6	589.2	516.3	520.1	504.8	456.7	441.4
32.5°	7644.4	6640.6	4253.0	1829.0	900.1	487.5	378.1	347.4	387.7	395.4	408.8
35°	8037.8	7012.9	4312.6	1752.3	844.4	416.5	320.5	291.7	282.2	284.1	291.7
37.5°	8769.0	7515.8	4387.4	1671.7	802.2	362.7	289.8	262.9	249.5	249.5	257.2
40°	9206.6	7915.0	4489.1	1627.5	760.0	330.1	262.9	239.9	228.4	228.4	232.2
42.5°	9316.0	8112.6	4454.6	1612.2	712.1	322.4	239.9	222.6	209.2	207.3	205.4
45°	9511.8	8414.0	4460.3	1594.9	662.1	293.7	226.5	207.3	188.0	186.2	184.3
47.5°	9726.8	8630.8	4471.8	1527.8	614.2	245.7	236.1	191.9	168.9	165.1	165.1
50°	9542.5	8803.6	4571.7	1460.6	552.7	199.6	232.2	180.4	149.7	144.0	145.8
52.5°	9565.5	9007.0	4782.8	1366.5	476.0	159.3	188.0	170.8	136.2	126.7	128.6
55°	9197.0	8792.1	4811.5	1266.7	372.3	122.9	144.0	149.7	115.1	111.3	111.3
57.5°	7916.9	7444.8	4245.4	1026.8	245.7	101.8	103.6	130.5	99.8	96.0	97.9
60°	6774.9	5976.6	3416.2	677.5	153.6	80.6	74.8	132.5	88.3	86.4	92.1
62.5°	6176.1	4911.4	2591.0	420.3	105.5	61.4	51.8	107.5	76.8	76.8	84.4
65°	4462.3	3299.2	1506.7	220.7	74.8	48.0	38.3	61.4	63.3	65.3	69.1
67.5°	2763.7	1665.9	635.3	107.5	49.9	32.6	25.0	38.3	42.2	42.2	46.1
70°	1364.6	664.1	211.1	61.4	38.3	26.8	17.2	21.1	21.1	19.2	21.1
72.5°	422.3	199.6	53.7	38.3	26.8	17.2	9.6	7.7	3.9	0.0	1.9
75°	48.0	38.3	34.6	26.8	17.2	7.7	1.9	0.0	0.0	0.0	0.0
77.5°	28.8	32.6	32.6	26.8	17.2	5.7	0.0	0.0	0.0	0.0	0.0
80°	23.0	25.0	26.8	25.0	15.4	7.7	0.0	0.0	0.0	0.0	0.0
82.5°	28.8	32.6	36.5	32.6	21.1	9.6	3.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.7	1.9	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9
2.5°	4207.0	4164.8	4224.3	4136.0	4134.0	4136.0	4111.1	4088.0	4124.4	4222.3	4231.9
5°	3210.9	3301.1	3329.9	3424.0	3372.2	3295.4	3310.7	3258.9	3385.5	3441.2	3397.1
7.5°	2337.6	2331.9	2525.7	2537.2	2562.2	2564.1	2560.3	2458.6	2354.9	2377.9	2447.1
10°	1813.7	1715.8	1809.8	1800.2	1861.6	1844.4	1869.4	1760.0	1796.4	1796.4	1840.5
12.5°	1477.8	1374.2	1356.9	1332.0	1356.9	1366.5	1376.1	1355.0	1416.4	1445.2	1475.9
15°	1128.5	1070.9	1055.6	1007.6	1015.3	1042.2	1065.2	1074.8	1055.6	1099.7	1103.6
17.5°	819.6	817.6	827.2	825.3	817.6	811.8	809.9	785.0	777.3	781.1	796.5
20°	621.8	637.2	669.9	702.4	719.7	698.6	669.9	627.6	610.3	614.2	616.1
22.5°	531.6	554.6	598.8	635.3	652.5	614.2	562.4	525.9	518.2	516.3	514.4
25°	481.7	508.6	541.3	552.7	550.9	527.8	489.4	474.1	470.2	466.4	449.1
27.5°	454.9	464.5	470.2	483.7	489.4	474.1	464.5	441.4	437.6	437.6	426.1
30°	439.5	433.8	441.4	431.9	439.5	428.0	429.9	429.9	420.3	424.1	424.1
32.5°	408.8	410.7	410.7	391.5	397.3	383.8	397.3	408.8	410.7	412.7	428.0
35°	299.4	334.0	351.2	351.2	357.0	347.4	345.5	332.0	314.8	297.5	289.8
37.5°	262.9	276.4	299.4	312.9	322.4	314.8	297.5	276.4	266.8	259.1	251.5
40°	234.1	245.7	261.0	276.4	295.5	285.9	259.1	249.5	238.0	238.0	230.3
42.5°	211.1	216.9	226.5	249.5	270.6	251.5	232.2	224.5	218.8	216.9	215.0
45°	190.0	191.9	201.5	220.7	245.7	226.5	207.3	197.7	199.6	201.5	199.6
47.5°	170.8	174.7	180.4	203.4	218.8	209.2	188.0	182.3	182.3	182.3	184.3
50°	147.8	157.4	168.9	188.0	199.6	193.9	176.6	168.9	165.1	165.1	166.9
52.5°	132.5	140.1	155.5	178.5	193.9	184.3	166.9	155.5	147.8	145.8	149.7
55°	115.1	128.6	153.6	170.8	191.9	182.3	163.2	149.7	136.2	134.3	134.3
57.5°	103.6	124.7	147.8	168.9	186.2	178.5	163.2	145.8	128.6	126.7	126.7
60°	97.9	120.9	144.0	163.2	186.2	174.7	161.2	142.0	122.9	122.9	120.9
62.5°	92.1	113.2	136.2	155.5	178.5	168.9	155.5	136.2	117.1	117.1	113.2
65°	76.8	97.9	113.2	130.5	155.5	145.8	132.5	119.0	103.6	99.8	101.8
67.5°	53.7	67.2	82.5	99.8	115.1	111.3	105.5	96.0	82.5	80.6	78.7
70°	26.8	36.5	49.9	67.2	80.6	76.8	72.9	65.3	57.6	55.7	55.7
72.5°	3.9	11.5	21.1	30.7	42.2	44.2	42.2	40.3	38.3	36.5	38.3
75°	0.0	0.0	0.0	7.7	17.2	21.1	25.0	28.8	28.8	25.0	30.7
77.5°	0.0	0.0	0.0	0.0	1.9	9.6	19.2	25.0	30.7	26.8	36.5
80°	0.0	0.0	0.0	0.0	1.9	11.5	19.2	26.8	30.7	26.8	38.3
82.5°	0.0	0.0	0.0	0.0	1.9	13.5	19.2	25.0	28.8	26.8	34.6
85°	0.0	0.0	0.0	0.0	5.7	11.5	7.7	3.9	1.9	1.9	5.7
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: P650799

CATALOG NUMBER: GALN-SA3C-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9	4947.9
2.5°	4285.7	4422.0	4567.8	4623.5	4796.2	4926.7	5015.0	5205.0	5233.8	5235.7
5°	3443.1	3512.2	3761.7	3878.8	4136.0	4335.6	4548.6	4855.7	5061.1	5076.4
7.5°	2447.1	2639.0	2744.5	3049.7	3366.4	3679.2	3995.8	4352.8	4590.9	4596.6
10°	1969.1	2093.9	2282.0	2510.4	2777.2	3095.7	3518.0	3932.5	4174.4	4233.8
12.5°	1585.3	1804.1	2019.1	2255.1	2458.6	2698.4	3153.3	3706.0	3905.7	4024.7
15°	1220.6	1420.3	1673.6	1949.9	2180.3	2500.8	3018.9	3650.4	3986.3	4026.6
17.5°	900.1	1078.6	1312.8	1573.8	1919.2	2374.1	3042.0	3932.5	4249.2	4316.3
20°	646.8	750.4	934.7	1238.0	1677.5	2226.3	3065.0	4218.5	4700.3	4815.4
22.5°	512.4	554.6	675.6	944.3	1406.8	2070.9	3228.2	4765.5	5320.2	5487.1
25°	445.2	468.3	525.9	744.7	1236.0	2055.5	3489.2	5421.8	6145.4	6266.4
27.5°	429.9	433.8	483.7	683.2	1143.8	1953.8	3589.0	5888.3	6659.8	6782.7
30°	453.0	514.4	518.2	577.7	973.0	1752.3	3640.8	6339.3	7095.4	7185.7
32.5°	391.5	372.3	385.8	447.2	856.0	1635.2	3738.7	6732.7	7592.5	7655.9
35°	272.6	285.9	316.6	387.7	748.5	1512.4	3763.6	7166.5	8064.7	8129.9
37.5°	251.5	259.1	284.1	330.1	658.3	1443.2	3729.1	7483.1	8554.1	8644.3
40°	234.1	243.7	257.2	299.4	591.1	1366.5	3681.1	7769.2	8853.5	9076.2
42.5°	220.7	228.4	239.9	285.9	533.5	1289.8	3613.9	8172.2	9122.2	9316.0
45°	205.4	216.9	230.3	278.3	500.9	1238.0	3564.1	8147.2	9277.7	9381.3
47.5°	190.0	209.2	224.5	259.1	491.3	1213.0	3585.2	8053.2	9151.0	9079.9
50°	174.7	199.6	226.5	215.0	468.3	1163.1	3610.1	8181.8	8849.7	8836.2
52.5°	161.2	190.0	211.1	176.6	416.5	1115.1	3851.9	8350.6	9062.7	8884.2
55°	142.0	170.8	168.9	142.0	337.8	1078.6	4041.9	8354.5	8918.7	8985.9
57.5°	128.6	151.6	132.5	119.0	249.5	902.1	3732.9	7005.3	7634.8	7753.8
60°	119.0	147.8	99.8	94.0	163.2	650.6	3258.9	5425.7	6068.7	6293.2
62.5°	109.4	140.1	78.7	76.8	113.2	462.6	2679.3	4541.0	5229.9	5535.1
65°	96.0	99.8	63.3	59.5	80.6	249.5	1631.4	3126.4	3909.5	4022.8
67.5°	78.7	76.8	51.8	48.0	53.7	120.9	719.7	1566.1	2266.7	2456.6
70°	63.3	63.3	44.2	38.3	38.3	55.7	188.0	623.8	1024.8	1134.3
72.5°	46.1	48.0	34.6	30.7	28.8	26.8	30.7	124.7	268.7	343.5
75°	40.3	42.2	34.6	26.8	21.1	17.2	13.5	11.5	15.4	25.0
77.5°	44.2	44.2	36.5	25.0	19.2	13.5	7.7	3.9	3.9	1.9
80°	55.7	57.6	48.0	32.6	23.0	15.4	9.6	3.9	1.9	1.9
82.5°	59.5	65.3	53.7	40.3	28.8	17.2	9.6	1.9	0.0	0.0
85°	15.4	25.0	42.2	36.5	28.8	17.2	9.6	1.9	0.0	0.0
87.5°	0.0	1.9	5.7	5.7	7.7	7.7	5.7	1.9	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)