

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: P651899

Luminaire Tested: **GALN-SA5A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651899  
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-SA5A-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA 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: 10647.9 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

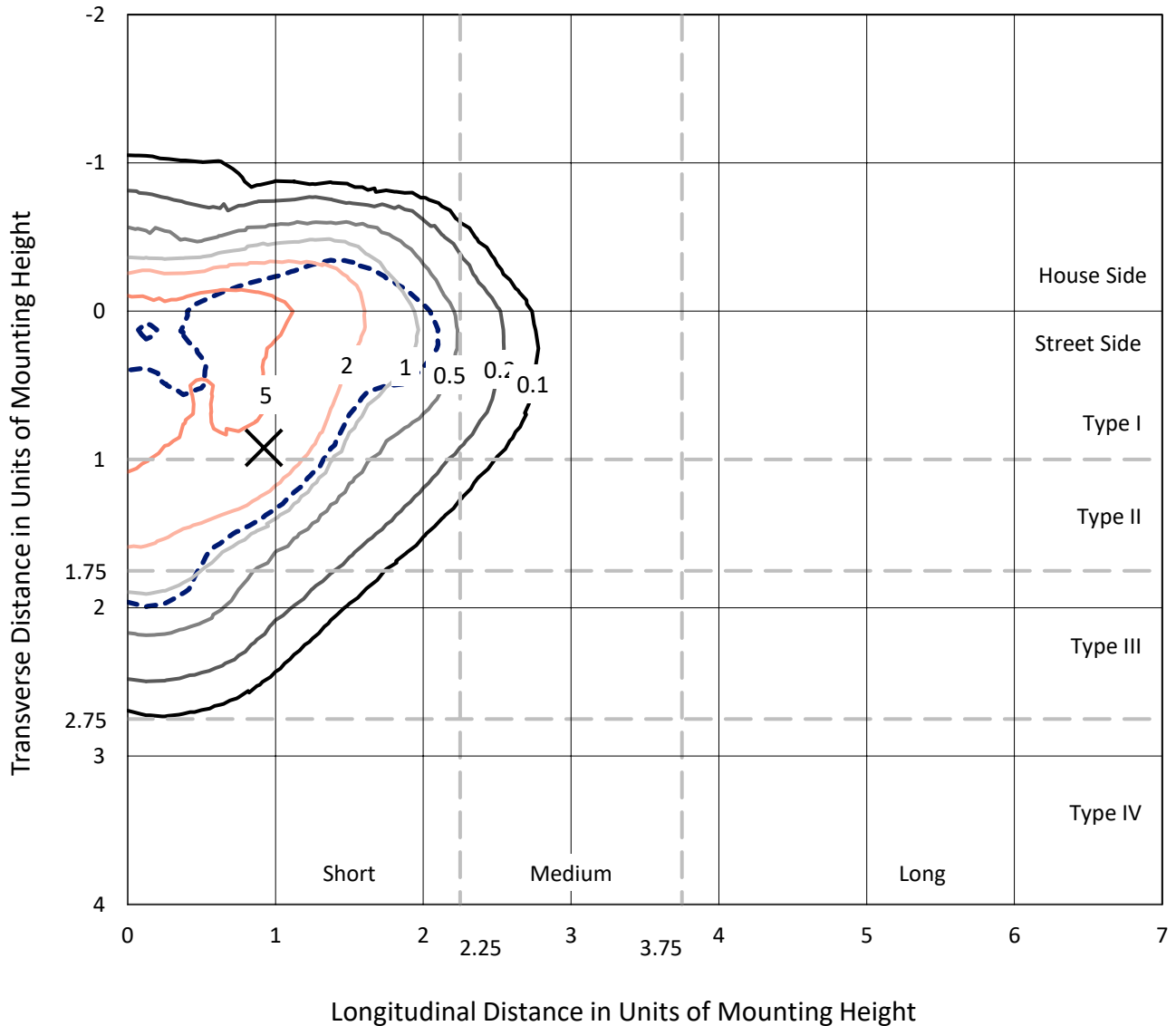
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

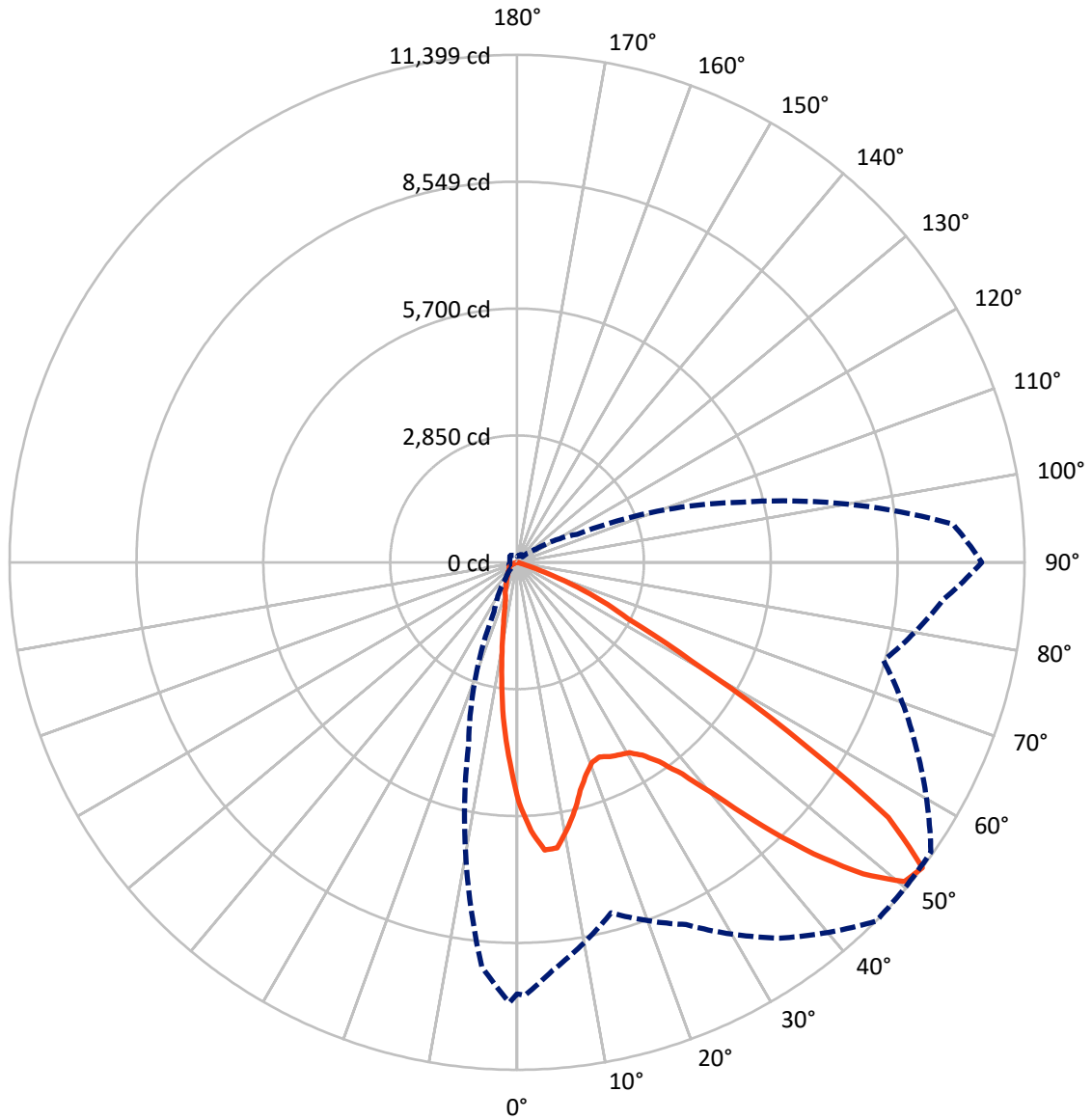
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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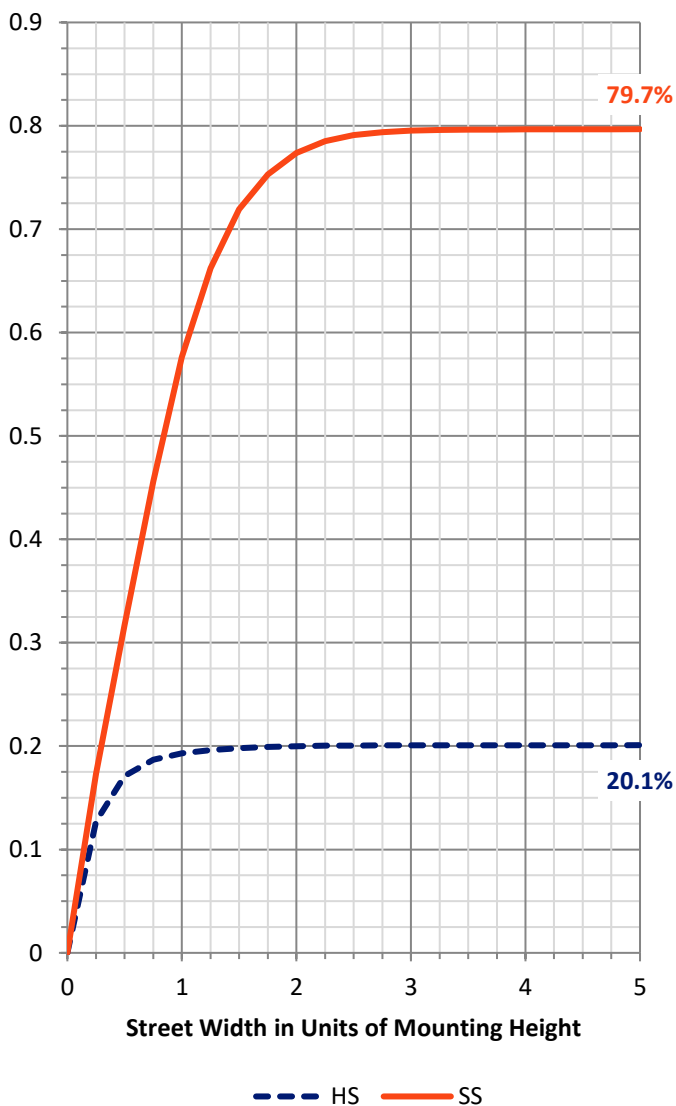
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2161.0	0.0	2161.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	8486.9	0.0	8486.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	10647.9	0.0	10647.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.7	3.7
10°-20°	776.8	7.3
20°-30°	1182.2	11.1
30°-40°	1767.0	16.6
40°-50°	2516.3	23.6
50°-60°	2704.9	25.4
60°-70°	1198.6	11.3
70°-80°	97.0	0.9
80°-90°	11.3	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°	10647.9	100.0
0°-180°	10647.9	100.0

**Coefficient of Utilization**

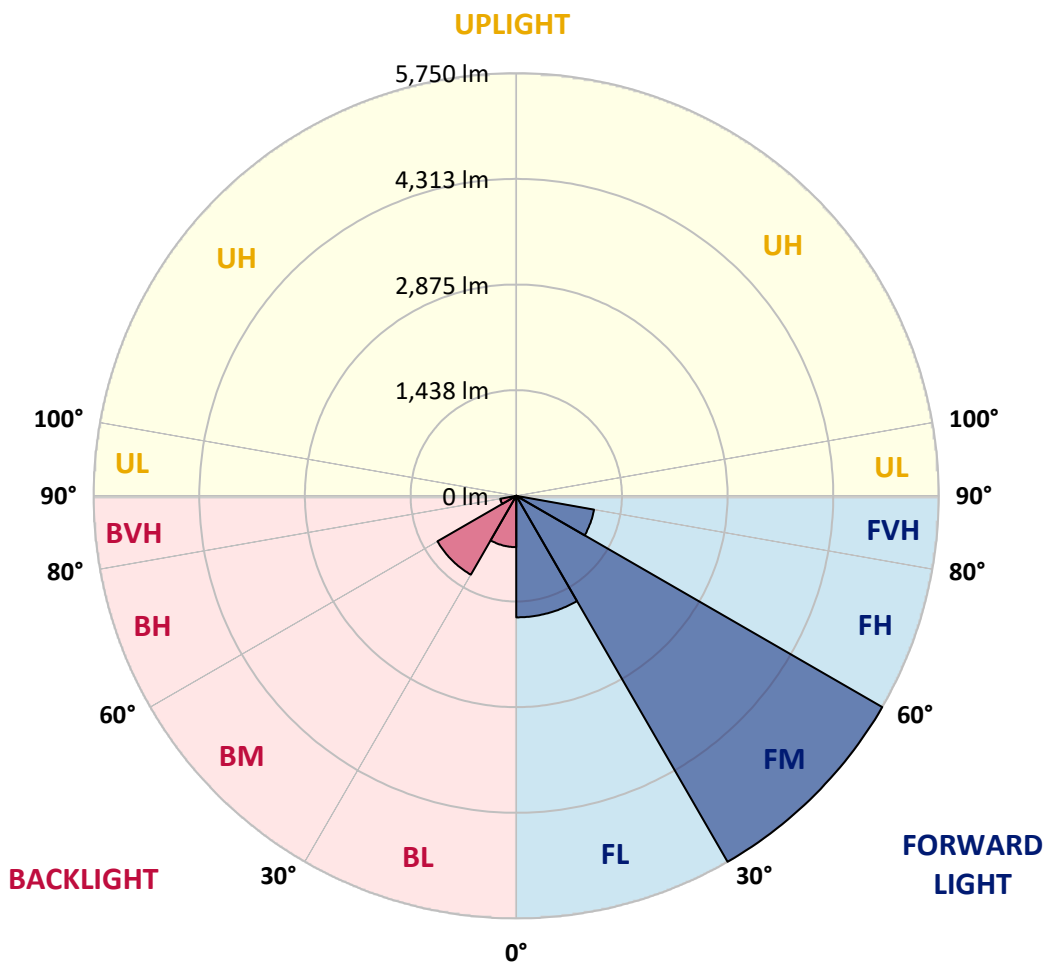


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.8	15.5			
FM (30°-60°)	5750.2	54.0			
FH (60°-80°)	1074.5	10.1			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	698.9	6.6	B2/1000		
BM (30°-60°)	1238.0	11.6	B2/2500		
BH (60°-80°)	221.1	2.1	B1/500		G1/500
BVH (80°-90°)	2.9	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°	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0
2.5°	5713.1	5729.9	5822.0	5937.2	5997.9	6136.2	6039.8	6065.0	6012.6	5828.3	5683.8
5°	5539.3	5537.2	5654.5	5939.3	6209.4	6483.8	6492.2	6345.6	6088.0	5805.3	5401.1
7.5°	5015.7	5097.4	5218.9	5673.3	6173.9	6379.1	6477.6	6305.8	5910.0	5505.8	5068.1
10°	4619.9	4661.8	4867.0	5415.7	5782.2	6056.5	6117.3	6018.9	5715.2	5210.5	4720.4
12.5°	4391.6	4412.6	4653.4	5114.1	5501.6	5704.8	5734.0	5780.1	5562.4	5089.1	4500.5
15°	4393.7	4410.5	4735.1	5120.4	5273.3	5218.9	5315.2	5313.1	5407.4	5066.0	4684.9
17.5°	4709.9	4728.9	5022.0	5212.6	5145.6	5017.8	5011.5	5107.9	5306.8	5352.9	4963.4
20°	5254.5	5298.5	5514.2	5503.7	5126.7	4869.1	4797.9	4871.2	5334.0	5595.8	5524.6
22.5°	5987.5	6048.2	6199.0	5910.0	5212.6	4768.6	4745.6	4888.0	5514.2	6138.3	6161.3
25°	6837.8	6940.4	7013.7	6643.0	5518.4	4942.5	4833.6	5078.5	5757.1	6726.7	6971.7
27.5°	7401.1	7507.9	7491.1	6961.3	5723.6	4988.5	4896.4	5124.6	5968.6	6867.0	7394.8
30°	7840.9	7905.8	8023.1	7133.0	5928.8	5118.3	4961.3	5319.4	6037.7	7110.0	7905.8
32.5°	8354.0	8398.0	8406.3	7436.7	6245.1	5281.7	5162.3	5562.4	6343.5	7342.4	8358.2
35°	8871.3	8936.2	8800.1	7811.5	6439.8	5585.3	5497.4	5983.3	6588.5	7583.3	8856.6
37.5°	9432.5	9466.0	9151.8	7966.5	6718.3	6079.6	6031.5	6437.8	7013.7	8018.9	9409.4
40°	9903.7	9935.2	9526.8	8157.1	7011.6	6770.7	6894.3	7304.8	7591.6	8301.6	9685.9
42.5°	10165.5	10238.8	9652.4	8052.4	7600.0	7553.9	8102.7	8247.2	8261.8	8381.2	9933.1
45°	10236.7	10203.2	9445.1	8138.3	8115.2	8841.9	9340.4	9531.0	8927.8	8527.8	9995.9
47.5°	9907.9	9951.9	9139.3	8062.8	8791.6	9817.8	10462.9	10816.8	9424.2	8400.1	9840.9
50°	9641.9	9585.4	9040.9	8008.4	8973.9	10278.6	11273.4	11352.9	9880.7	8557.1	9671.2
52.5°	9694.3	9729.9	9197.9	8152.9	8978.1	10305.8	11399.0	11344.6	9895.4	8521.5	9610.5
55°	9805.3	9648.2	9130.9	7834.6	8377.0	9545.6	10117.3	10033.6	9133.0	8142.5	9461.8
57.5°	8460.8	8703.7	8395.9	6994.8	6875.4	7191.6	7181.2	7438.8	6812.6	7007.4	8613.7
60°	6867.0	6908.9	7024.1	5983.3	4758.1	4649.2	4498.4	4335.1	4584.3	5991.6	7834.6
62.5°	6039.8	5989.5	6400.0	5443.0	3359.2	2812.6	2787.4	2888.0	3537.2	5715.2	7348.7
65°	4389.5	4452.3	4749.8	4224.1	2521.5	2146.6	2108.9	2406.3	2862.8	4580.2	5608.4
67.5°	2680.6	2802.1	2829.3	2605.2	1711.0	1359.1	1304.7	1574.9	2067.0	2963.3	3288.0
70°	1237.7	1384.3	1522.5	1422.0	990.6	559.2	527.7	661.8	1042.9	1704.7	1744.5
72.5°	374.8	376.9	527.7	550.8	320.4	125.6	111.0	146.6	353.9	563.4	592.7
75°	27.2	29.4	71.2	81.7	60.7	31.5	33.5	39.8	75.4	125.6	94.3
77.5°	2.1	2.1	2.1	10.5	18.8	20.9	27.2	31.5	39.8	46.1	41.9
80°	2.1	0.0	2.1	8.4	14.6	20.9	25.1	29.4	31.5	35.6	31.5
82.5°	0.0	0.0	0.0	6.3	14.6	20.9	23.0	31.5	35.6	41.9	35.6
85°	0.0	0.0	0.0	6.3	14.6	23.0	20.9	10.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0
2.5°	5709.0	5627.2	5440.8	5346.7	5124.6	5093.2	4875.4	4839.8	4766.5	4726.8	4630.4
5°	5223.0	5124.6	4820.9	4565.5	4268.1	4060.8	3901.6	3757.1	3673.3	3595.9	3631.4
7.5°	4827.3	4540.3	4203.1	3775.9	3432.5	3210.5	2967.6	2768.6	2651.3	2571.8	2590.6
10°	4412.6	4226.2	3757.1	3277.5	2862.8	2705.7	2515.2	2362.3	2196.9	2054.5	1987.5
12.5°	4282.7	4006.3	3417.8	2929.9	2615.8	2462.9	2245.0	2069.1	1857.6	1683.8	1623.0
15°	4305.8	4039.8	3325.7	2804.2	2433.5	2169.6	1910.0	1692.2	1459.7	1338.2	1275.4
17.5°	4680.7	4219.9	3386.4	2672.3	2180.1	1813.6	1493.2	1216.8	1042.9	917.3	890.0
20°	5141.4	4609.4	3516.2	2575.9	1972.8	1442.9	1091.1	852.4	707.9	686.9	680.6
22.5°	5815.8	5246.1	3794.8	2511.0	1719.3	1124.6	747.6	619.9	580.1	575.9	578.0
25°	6758.2	6044.0	4098.4	2456.6	1528.8	867.0	611.5	525.6	513.1	506.8	517.3
27.5°	7166.5	6525.7	4259.7	2339.2	1355.0	781.1	603.2	521.5	485.8	475.4	481.6
30°	7671.3	6846.1	4513.1	2138.2	1099.5	642.9	563.4	567.5	550.8	498.5	481.6
32.5°	8341.4	7246.1	4640.9	1995.9	982.2	531.9	412.6	379.0	423.0	431.4	446.1
35°	8770.7	7652.4	4705.8	1912.0	921.5	454.5	349.8	318.3	307.9	309.9	318.3
37.5°	9568.6	8201.1	4787.5	1824.1	875.4	395.8	316.2	286.9	272.2	272.2	280.6
40°	10046.2	8636.7	4898.5	1775.9	829.3	360.2	286.9	261.8	249.2	249.2	253.4
42.5°	10165.5	8852.4	4860.7	1759.2	777.0	351.9	261.8	243.0	228.2	226.1	224.1
45°	10379.1	9181.2	4867.0	1740.3	722.5	320.4	247.1	226.1	205.2	203.1	201.1
47.5°	10613.7	9417.9	4879.6	1667.0	670.2	268.0	257.6	209.4	184.3	180.1	180.1
50°	10412.6	9606.3	4988.5	1593.7	603.2	217.8	253.4	196.9	163.3	157.1	159.2
52.5°	10437.7	9828.3	5218.9	1491.1	519.4	173.8	205.2	186.4	148.7	138.3	140.3
55°	10035.7	9593.8	5250.3	1382.2	406.3	134.1	157.1	163.3	125.6	121.4	121.4
57.5°	8638.8	8123.6	4632.5	1120.5	268.0	111.0	113.1	142.4	108.9	104.7	106.8
60°	7392.7	6521.5	3727.7	739.2	167.5	88.0	81.7	144.5	96.3	94.3	100.5
62.5°	6739.3	5359.2	2827.3	458.7	115.2	67.0	56.5	117.3	83.8	83.8	92.2
65°	4869.1	3600.0	1644.0	240.9	81.7	52.4	41.9	67.0	69.1	71.2	75.4
67.5°	3015.7	1817.8	693.2	117.3	54.4	35.6	27.2	41.9	46.1	46.1	50.3
70°	1489.0	724.6	230.3	67.0	41.9	29.4	18.8	23.0	23.0	20.9	23.0
72.5°	460.7	217.8	58.6	41.9	29.4	18.8	10.5	8.4	4.2	0.0	2.1
75°	52.4	41.9	37.7	29.4	18.8	8.4	2.1	0.0	0.0	0.0	0.0
77.5°	31.5	35.6	35.6	29.4	18.8	6.3	0.0	0.0	0.0	0.0	0.0
80°	25.1	27.2	29.4	27.2	16.7	8.4	0.0	0.0	0.0	0.0	0.0
82.5°	31.5	35.6	39.8	35.6	23.0	10.5	4.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.3	2.1	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°	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0
2.5°	4590.6	4544.5	4609.4	4513.1	4511.0	4513.1	4485.9	4460.7	4500.5	4607.3	4617.8
5°	3503.7	3602.1	3633.5	3736.1	3679.6	3595.9	3612.6	3556.0	3694.3	3755.0	3706.8
7.5°	2550.8	2544.5	2756.0	2768.6	2795.8	2797.9	2793.7	2682.7	2569.7	2594.7	2670.2
10°	1979.0	1872.2	1974.9	1964.4	2031.4	2012.6	2039.8	1920.4	1960.2	1960.2	2008.4
12.5°	1612.5	1499.5	1480.7	1453.4	1480.7	1491.1	1501.6	1478.6	1545.6	1577.0	1610.5
15°	1231.4	1168.6	1151.8	1099.5	1107.8	1137.2	1162.3	1172.8	1151.8	1200.0	1204.2
17.5°	894.2	892.1	902.6	900.5	892.1	885.9	883.8	856.6	848.1	852.4	869.1
20°	678.5	695.3	730.9	766.5	785.3	762.3	730.9	684.8	666.0	670.2	672.3
22.5°	580.1	605.3	653.4	693.2	712.1	670.2	613.6	573.8	565.5	563.4	561.3
25°	525.6	555.0	590.6	603.2	601.1	575.9	534.0	517.3	513.1	508.9	490.1
27.5°	496.4	506.8	513.1	527.7	534.0	517.3	506.8	481.6	477.5	477.5	464.9
30°	479.6	473.3	481.6	471.2	479.6	467.0	469.1	469.1	458.7	462.8	462.8
32.5°	446.1	448.2	448.2	427.2	433.5	418.8	433.5	446.1	448.2	450.3	467.0
35°	326.7	364.4	383.2	383.2	389.6	379.0	376.9	362.3	343.5	324.6	316.2
37.5°	286.9	301.6	326.7	341.4	351.9	343.5	324.6	301.6	291.1	282.7	274.3
40°	255.5	268.0	284.8	301.6	322.5	312.0	282.7	272.2	259.7	259.7	251.3
42.5°	230.3	236.7	247.1	272.2	295.3	274.3	253.4	245.1	238.8	236.7	234.6
45°	207.3	209.4	219.9	240.9	268.0	247.1	226.1	215.7	217.8	219.9	217.8
47.5°	186.4	190.6	196.9	222.0	238.8	228.2	205.2	199.0	199.0	199.0	201.1
50°	161.2	171.7	184.3	205.2	217.8	211.5	192.7	184.3	180.1	180.1	182.2
52.5°	144.5	152.9	169.6	194.8	211.5	201.1	182.2	169.6	161.2	159.2	163.3
55°	125.6	140.3	167.5	186.4	209.4	199.0	178.0	163.3	148.7	146.6	146.6
57.5°	113.1	136.2	161.2	184.3	203.1	194.8	178.0	159.2	140.3	138.3	138.3
60°	106.8	132.0	157.1	178.0	203.1	190.6	175.9	155.0	134.1	134.1	132.0
62.5°	100.5	123.5	148.7	169.6	194.8	184.3	169.6	148.7	127.7	127.7	123.5
65°	83.8	106.8	123.5	142.4	169.6	159.2	144.5	129.9	113.1	108.9	111.0
67.5°	58.6	73.3	90.1	108.9	125.6	121.4	115.2	104.7	90.1	88.0	85.9
70°	29.4	39.8	54.4	73.3	88.0	83.8	79.6	71.2	62.8	60.7	60.7
72.5°	4.2	12.5	23.0	33.5	46.1	48.2	46.1	44.0	41.9	39.8	41.9
75°	0.0	0.0	0.0	8.4	18.8	23.0	27.2	31.5	31.5	27.2	33.5
77.5°	0.0	0.0	0.0	0.0	2.1	10.5	20.9	27.2	33.5	29.4	39.8
80°	0.0	0.0	0.0	0.0	2.1	12.5	20.9	29.4	33.5	29.4	41.9
82.5°	0.0	0.0	0.0	0.0	2.1	14.6	20.9	27.2	31.5	29.4	37.7
85°	0.0	0.0	0.0	0.0	6.3	12.5	8.4	4.2	2.1	2.1	6.3
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: P651899  
 CATALOG NUMBER: GALN-SA5A-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0	5399.0
2.5°	4676.5	4825.2	4984.4	5045.1	5233.5	5375.9	5472.3	5679.6	5711.1	5713.1
5°	3757.1	3832.5	4104.8	4232.5	4513.1	4730.9	4963.4	5298.5	5522.5	5539.3
7.5°	2670.2	2879.6	2994.8	3327.8	3673.3	4014.7	4360.2	4749.8	5009.4	5015.7
10°	2148.7	2284.8	2490.0	2739.3	3030.4	3378.0	3838.7	4291.1	4555.0	4619.9
12.5°	1729.9	1968.6	2203.2	2460.8	2682.7	2944.5	3440.9	4044.0	4261.8	4391.6
15°	1332.0	1549.7	1826.1	2127.7	2379.1	2728.8	3294.3	3983.2	4349.7	4393.7
17.5°	982.2	1177.0	1432.5	1717.3	2094.3	2590.6	3319.4	4291.1	4636.7	4709.9
20°	705.8	818.9	1019.9	1350.8	1830.4	2429.3	3344.5	4603.1	5128.8	5254.5
22.5°	559.2	605.3	737.1	1030.4	1535.1	2259.7	3522.5	5200.0	5805.3	5987.5
25°	485.8	511.0	573.8	812.6	1348.7	2242.9	3807.4	5916.3	6705.8	6837.8
27.5°	469.1	473.3	527.7	745.5	1248.2	2131.9	3916.3	6425.2	7267.1	7401.1
30°	494.3	561.3	565.5	630.3	1061.8	1912.0	3972.8	6917.3	7742.4	7840.9
32.5°	427.2	406.3	420.9	487.9	934.0	1784.3	4079.6	7346.6	8284.9	8354.0
35°	297.4	312.0	345.6	423.0	816.8	1650.3	4106.9	7820.0	8800.1	8871.3
37.5°	274.3	282.7	309.9	360.2	718.3	1574.9	4069.1	8165.5	9334.1	9432.5
40°	255.5	266.0	280.6	326.7	645.0	1491.1	4016.8	8477.5	9660.8	9903.7
42.5°	240.9	249.2	261.8	312.0	582.2	1407.3	3943.4	8917.3	9954.0	10165.5
45°	224.1	236.7	251.3	303.7	546.6	1350.8	3889.0	8890.1	10123.6	10236.7
47.5°	207.3	228.2	245.1	282.7	536.1	1323.6	3912.1	8787.4	9985.4	9907.9
50°	190.6	217.8	247.1	234.6	511.0	1269.2	3939.3	8927.8	9656.6	9641.9
52.5°	175.9	207.3	230.3	192.7	454.5	1216.8	4203.1	9112.1	9889.1	9694.3
55°	155.0	186.4	184.3	155.0	368.6	1177.0	4410.5	9116.3	9732.0	9805.3
57.5°	140.3	165.4	144.5	129.9	272.2	984.3	4073.3	7644.0	8330.9	8460.8
60°	129.9	161.2	108.9	102.6	178.0	710.0	3556.0	5920.5	6622.0	6867.0
62.5°	119.3	152.9	85.9	83.8	123.5	504.7	2923.6	4955.0	5706.9	6039.8
65°	104.7	108.9	69.1	64.9	88.0	272.2	1780.1	3411.5	4266.0	4389.5
67.5°	85.9	83.8	56.5	52.4	58.6	132.0	785.3	1708.9	2473.3	2680.6
70°	69.1	69.1	48.2	41.9	41.9	60.7	205.2	680.6	1118.4	1237.7
72.5°	50.3	52.4	37.7	33.5	31.5	29.4	33.5	136.2	293.2	374.8
75°	44.0	46.1	37.7	29.4	23.0	18.8	14.6	12.5	16.7	27.2
77.5°	48.2	48.2	39.8	27.2	20.9	14.6	8.4	4.2	4.2	2.1
80°	60.7	62.8	52.4	35.6	25.1	16.7	10.5	4.2	2.1	2.1
82.5°	64.9	71.2	58.6	44.0	31.5	18.8	10.5	2.1	0.0	0.0
85°	16.7	27.2	46.1	39.8	31.5	18.8	10.5	2.1	0.0	0.0
87.5°	0.0	2.1	6.3	6.3	8.4	8.4	6.3	2.1	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)