

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: P530421

Luminaire Tested: **GALN-SA5C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530421  
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-SA5C-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 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: 14309 lumens  
Efficiency: N/A  
Efficacy: 53.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

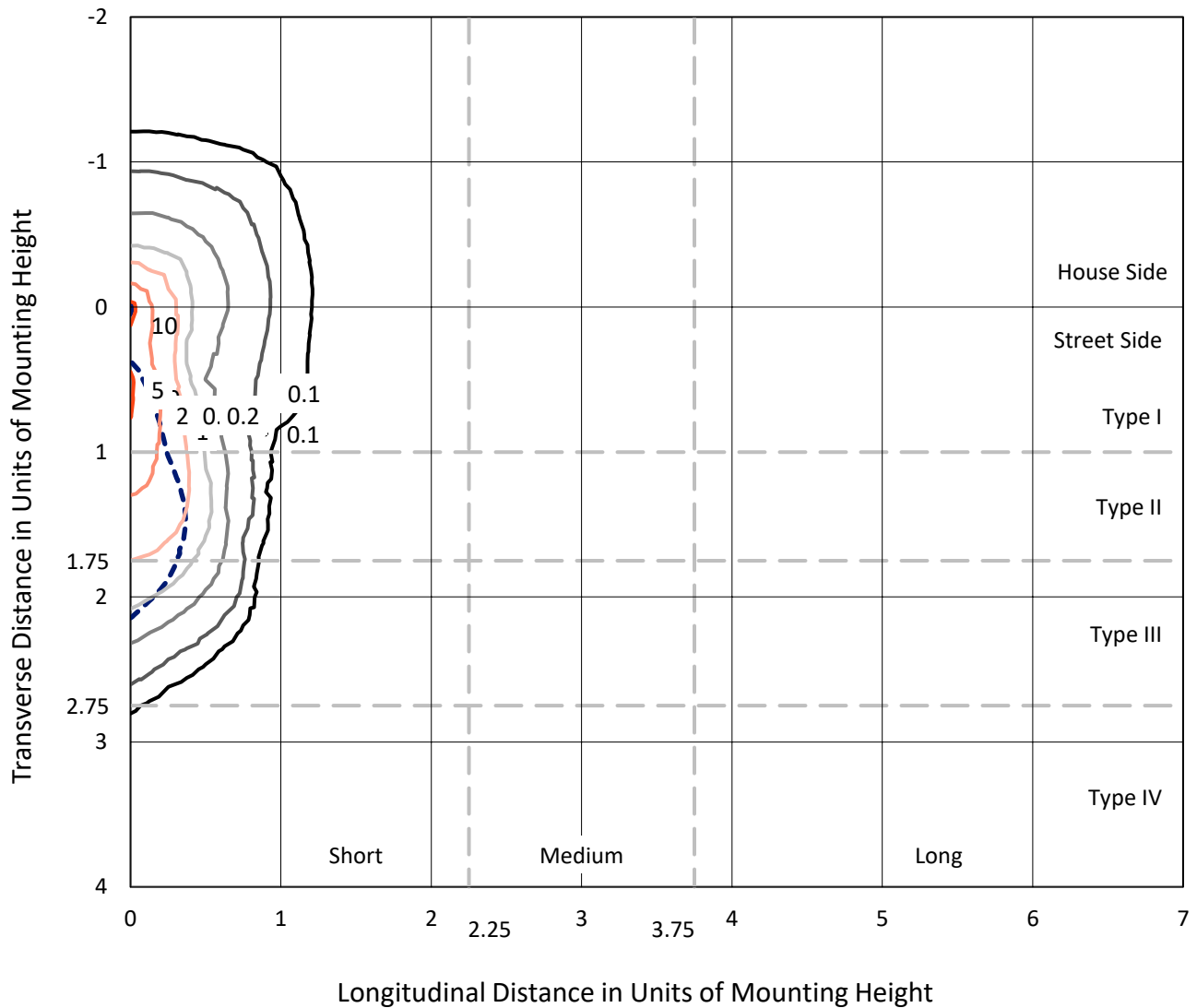
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

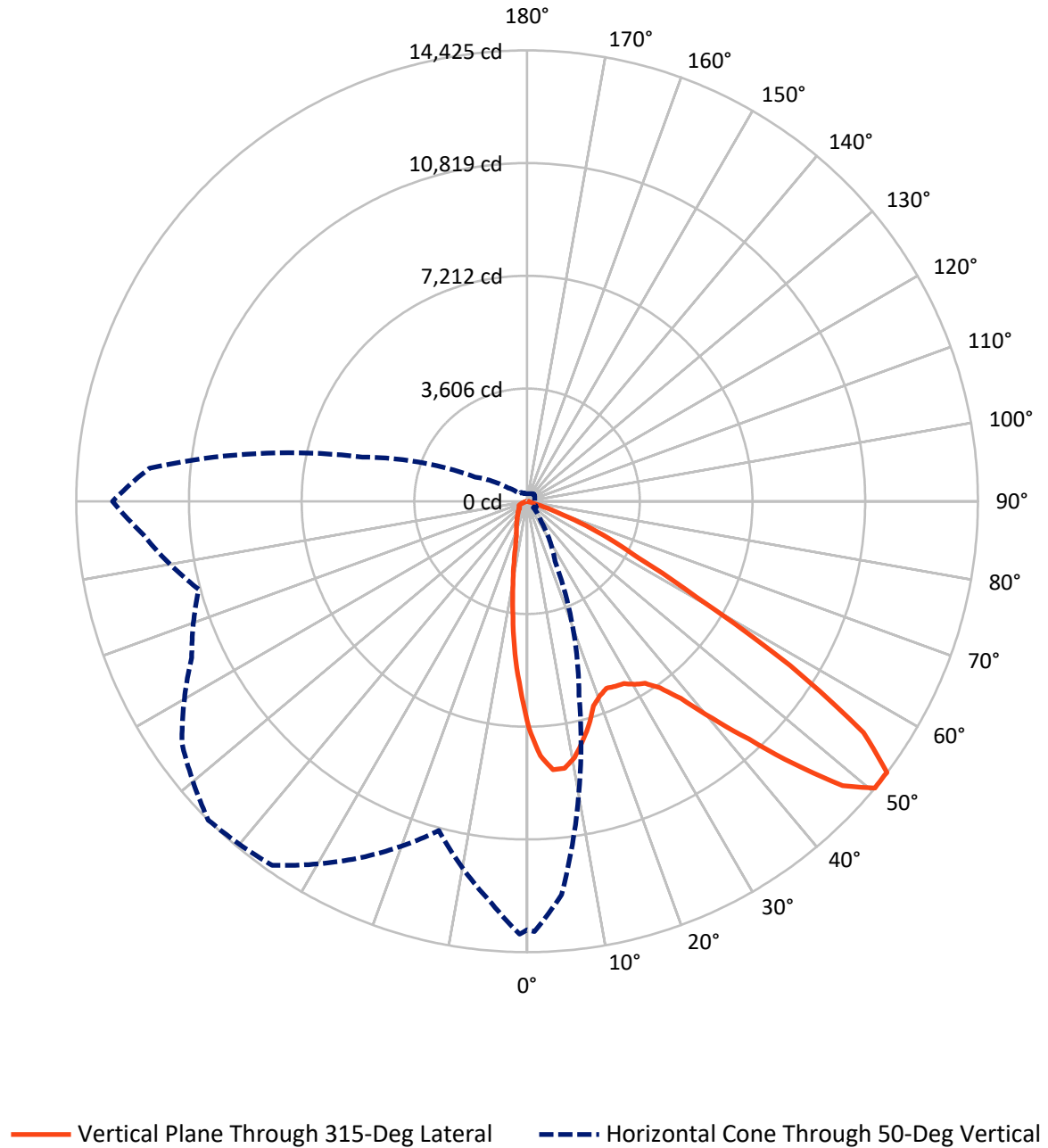
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2866.1	0.0	2866.1
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	11442.9	0.0	11442.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	14309.0	0.0	14309.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.9	3.7
10°-20°	1051.2	7.3
20°-30°	1579.2	11.0
30°-40°	2370.4	16.6
40°-50°	3331.4	23.3
50°-60°	3593.5	25.1
60°-70°	1668.5	11.7
70°-80°	157.0	1.1
80°-90°	28.9	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°	14309.0	100.0
0°-180°	14309.0	100.0

**Coefficient of Utilization**



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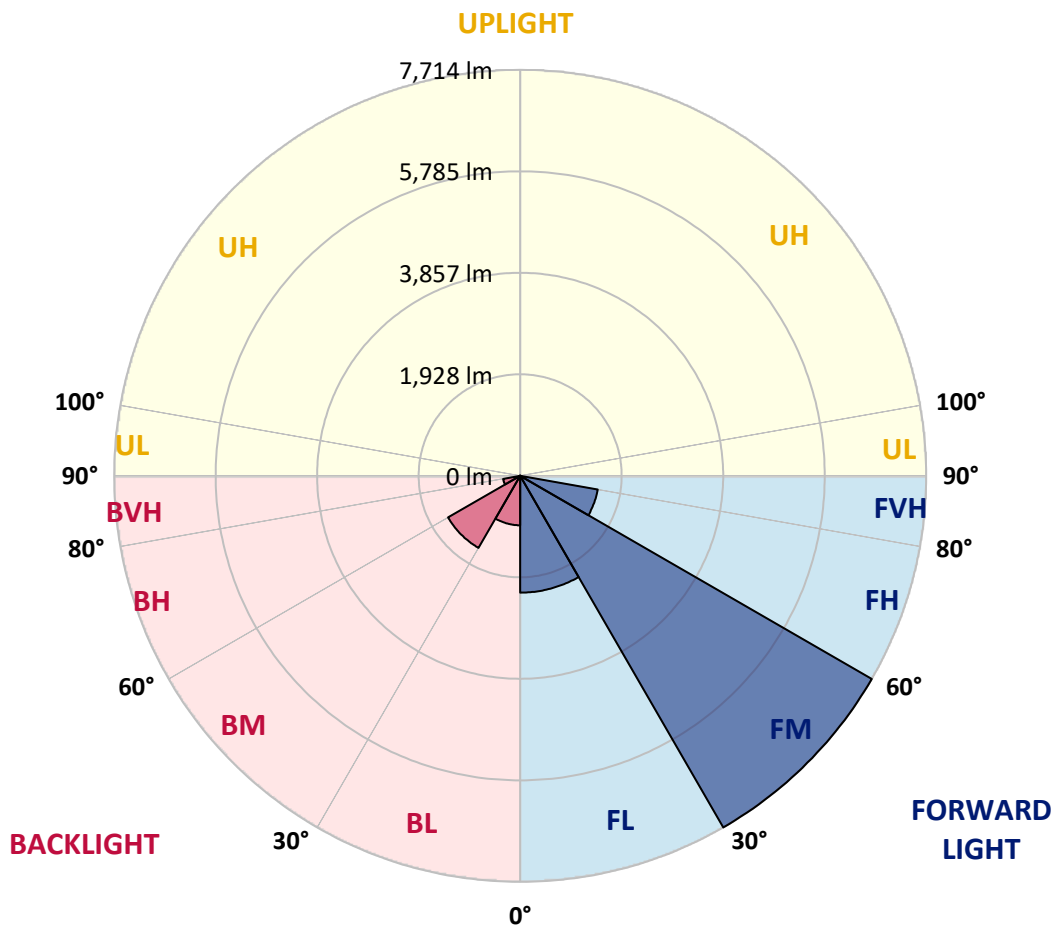
CATALOG NUMBER: GALN-SA5C-827-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.9	15.5			
FM (30°-60°)	7713.6	53.9			
FH (60°-80°)	1496.3	10.5			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	939.4	6.6	B2/1000		
BM (30°-60°)	1581.7	11.1	B2/2500		
BH (60°-80°)	329.1	2.3	B1/500		G1/500
BVH (80°-90°)	15.9	0.1			G1/100
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°	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5
2.5°	7543.2	7426.8	7279.2	7157.1	6975.4	6609.2	6509.8	6390.6	6291.2	6157.8	5970.4
5°	6859.0	6822.1	6754.0	6294.0	5961.9	5519.0	5155.6	5002.3	4800.7	4636.1	4516.8
7.5°	6336.6	6189.0	5973.2	5510.5	4979.6	4505.5	4102.3	3866.7	3599.8	3509.0	3347.2
10°	5777.4	5811.4	5493.5	4843.3	4201.7	3818.4	3568.6	3341.5	3100.2	2941.2	2711.2
12.5°	5598.5	5487.8	5243.6	4440.2	3892.3	3534.5	3230.8	2949.7	2694.2	2438.7	2217.3
15°	5714.9	5544.6	5203.9	4355.0	3653.8	3208.1	2827.6	2447.2	2211.6	1885.1	1655.1
17.5°	6132.2	5996.0	5538.9	4445.9	3531.7	2895.8	2330.8	1939.0	1578.5	1283.2	1166.8
20°	6827.8	6634.7	6061.3	4562.3	3350.0	2518.2	1890.8	1408.1	1067.5	942.5	877.2
22.5°	7509.1	7404.1	6680.2	4786.5	3188.2	2183.2	1419.5	948.2	797.8	775.0	732.5
25°	8806.6	8491.4	7625.5	5192.5	3063.3	1868.1	1070.3	763.7	675.7	658.6	664.3
27.5°	9578.8	9314.7	8499.9	5462.2	2924.2	1626.7	905.6	701.2	641.6	604.7	590.5
30°	10319.7	10013.1	8934.3	5621.2	2626.1	1371.2	803.4	672.8	658.6	604.7	587.7
32.5°	10890.4	10589.4	9561.7	5859.7	2504.0	1206.6	661.5	525.2	488.3	482.6	533.7
35°	11764.8	11444.0	10098.3	5990.3	2410.3	1121.4	573.5	468.4	425.8	408.8	411.7
37.5°	12579.6	12361.0	10595.1	6041.4	2310.9	1095.9	513.9	420.2	383.3	371.9	369.1
40°	13260.9	12772.6	11066.4	6095.3	2268.4	1047.6	477.0	383.3	357.7	340.7	340.7
42.5°	13573.2	13076.4	11594.4	6064.1	2257.0	970.9	477.0	352.0	332.2	315.1	312.3
45°	13505.1	13303.5	11830.1	6049.9	2257.0	894.3	434.4	343.5	315.1	292.4	286.7
47.5°	13681.1	13417.1	12125.3	6109.5	2211.6	840.3	366.2	360.6	298.1	269.7	264.0
50°	13712.3	13763.4	12639.2	6419.0	2112.2	772.2	286.7	354.9	286.7	244.2	238.5
52°	13916.7	13598.8	12795.3	6583.6	2007.2	721.1	241.3	303.8	275.4	227.1	221.4
52.5°	13635.7	13842.9	12832.2	6643.2	2018.5	687.0	232.8	298.1	269.7	227.1	212.9
55°	13320.6	13519.3	12681.8	6771.0	1851.0	539.4	181.7	215.8	244.2	198.7	190.2
57.5°	11577.4	11779.0	11021.0	6200.4	1507.5	380.4	150.5	161.8	215.8	184.5	176.0
60°	10291.4	10146.6	9249.4	5172.6	1070.3	212.9	119.2	124.9	235.6	170.3	167.5
62.5°	9405.6	9096.1	7730.6	3994.5	653.0	141.9	93.7	96.5	181.7	159.0	159.0
65°	6958.4	6612.0	5135.7	2416.0	320.8	99.4	71.0	76.7	113.6	136.3	136.3
67.5°	3971.8	3838.3	2481.3	1090.2	133.4	62.5	53.9	59.6	88.0	110.7	105.0
70°	1825.5	1638.1	953.9	230.0	62.5	42.6	42.6	48.3	71.0	82.3	76.7
72.5°	533.7	505.3	232.8	36.9	25.6	25.6	28.4	36.9	53.9	62.5	56.8
75°	39.7	25.6	17.0	11.4	11.4	17.0	22.7	36.9	53.9	59.6	48.3
77.5°	2.8	5.7	2.8	2.8	8.5	17.0	25.6	45.4	71.0	73.8	53.9
80°	2.8	2.8	0.0	2.8	8.5	17.0	28.4	51.1	79.5	85.2	45.4
82.5°	0.0	0.0	0.0	2.8	11.4	22.7	34.1	53.9	73.8	90.8	48.3
85°	0.0	0.0	0.0	2.8	17.0	31.2	39.7	14.2	8.5	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°	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5
2.5°	6103.8	6030.0	6001.6	6027.2	6018.7	6010.1	6166.3	6132.2	6126.5	6177.6	6166.3
5°	4582.1	4451.5	4809.3	4664.5	4814.9	4905.8	4922.8	4931.3	5036.4	4925.7	5070.4
7.5°	3264.8	3298.9	3296.1	3392.6	3565.8	3719.1	3809.9	3739.0	3733.3	3719.1	3656.6
10°	2609.0	2549.4	2538.1	2515.3	2569.3	2699.9	2810.6	2722.6	2660.1	2745.3	2719.8
12.5°	2132.1	2049.8	2004.3	1913.5	1916.3	2004.3	2004.3	2004.3	2066.8	2115.0	2152.0
15°	1635.3	1567.1	1567.1	1476.3	1456.4	1459.2	1504.7	1510.3	1609.7	1638.1	1652.3
17.5°	1144.1	1107.2	1149.8	1186.7	1164.0	1169.7	1186.7	1192.4	1206.6	1195.2	1223.6
20°	880.1	874.4	885.8	951.1	999.3	1027.7	1007.8	979.5	962.4	922.7	922.7
22.5°	746.7	758.0	777.9	831.8	894.3	911.3	888.6	823.3	772.2	766.5	769.4
25°	664.3	675.7	706.9	741.0	775.0	803.4	780.7	732.5	704.1	678.5	678.5
27.5°	613.2	618.9	635.9	661.5	689.9	712.6	704.1	678.5	647.3	635.9	610.4
30°	573.5	582.0	601.9	607.5	633.1	644.5	630.3	624.6	604.7	590.5	582.0
32.5°	553.6	550.8	565.0	570.6	573.5	582.0	565.0	573.5	570.6	547.9	539.4
35°	417.3	440.0	477.0	508.2	516.7	528.1	525.2	513.9	482.6	457.1	425.8
37.5°	374.7	388.9	408.8	434.4	468.4	482.6	477.0	448.6	411.7	394.6	388.9
40°	346.4	354.9	371.9	388.9	423.0	448.6	428.7	403.1	374.7	360.6	352.0
42.5°	320.8	323.6	332.2	349.2	374.7	414.5	380.4	346.4	335.0	326.5	320.8
45°	292.4	292.4	303.8	312.3	340.7	377.6	343.5	312.3	306.6	300.9	298.1
47.5°	269.7	272.5	278.2	289.6	312.3	337.8	315.1	289.6	275.4	272.5	266.9
50°	241.3	244.2	255.5	266.9	295.3	309.5	295.3	266.9	252.7	244.2	244.2
52°	218.6	227.1	238.5	261.2	281.1	303.8	286.7	255.5	238.5	230.0	224.3
52.5°	215.8	221.4	232.8	258.3	281.1	300.9	283.9	252.7	232.8	227.1	221.4
55°	193.1	201.6	221.4	252.7	278.2	300.9	278.2	249.8	221.4	207.2	201.6
57.5°	184.5	190.2	215.8	255.5	275.4	300.9	278.2	249.8	221.4	195.9	190.2
60°	176.0	187.4	215.8	247.0	272.5	303.8	281.1	247.0	215.8	184.5	184.5
62.5°	167.5	176.0	212.9	241.3	261.2	292.4	269.7	241.3	207.2	176.0	173.2
65°	144.8	159.0	187.4	201.6	224.3	252.7	230.0	210.1	181.7	156.1	153.3
67.5°	110.7	116.4	139.1	156.1	170.3	195.9	184.5	159.0	139.1	119.2	119.2
70°	76.7	82.3	99.4	107.9	122.1	136.3	127.8	107.9	93.7	82.3	79.5
72.5°	53.9	56.8	62.5	68.1	73.8	79.5	76.7	62.5	53.9	51.1	48.3
75°	42.6	48.3	51.1	48.3	45.4	42.6	42.6	36.9	31.2	28.4	28.4
77.5°	42.6	45.4	42.6	36.9	31.2	28.4	25.6	22.7	17.0	14.2	17.0
80°	36.9	36.9	36.9	31.2	28.4	25.6	22.7	19.9	17.0	14.2	14.2
82.5°	39.7	39.7	36.9	31.2	31.2	25.6	25.6	22.7	19.9	14.2	14.2
85°	0.0	0.0	0.0	5.7	14.2	25.6	25.6	22.7	19.9	17.0	17.0
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	11.4	14.2	17.0	17.0	17.0
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°	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5
2.5°	6268.5	6376.4	6580.8	6785.2	6910.1	7057.7	7324.6	7466.6	7651.1	7741.9	7920.8
5°	5050.6	5306.1	5396.9	5629.7	5879.6	6129.4	6526.8	6964.1	7327.4	7577.3	7900.9
7.5°	3685.0	3744.6	4096.7	4252.8	4661.6	5115.9	5658.1	6208.9	6668.8	7077.6	7324.6
10°	2762.3	2980.9	3202.4	3500.5	3829.8	4298.2	4817.8	5425.3	6021.5	6430.3	6742.6
12.5°	2220.1	2393.3	2688.5	3009.3	3415.3	3724.8	4247.1	4849.0	5621.2	6021.5	6433.2
15°	1680.7	1902.1	2237.1	2569.3	2998.0	3324.5	3852.5	4610.5	5604.2	6154.9	6509.8
17.5°	1246.3	1396.8	1697.7	2069.6	2506.8	2966.7	3679.3	4585.0	5794.4	6450.2	6816.4
20°	953.9	1005.0	1195.2	1527.4	2001.5	2603.4	3398.3	4695.7	6356.5	7168.5	7540.4
22.5°	772.2	794.9	868.7	1098.7	1558.6	2285.4	3264.8	4772.3	6989.6	8028.7	8525.5
25°	672.8	667.2	715.4	814.8	1217.9	1987.3	3094.5	5061.9	7764.6	9039.4	9485.1
27.5°	613.2	613.2	635.9	706.9	1010.7	1794.2	2986.6	5269.2	8545.4	9928.0	10169.3
30°	582.0	587.7	653.0	675.7	840.3	1564.3	2807.8	5479.3	9292.0	10495.8	10827.9
32.5°	539.4	516.7	502.5	559.3	706.9	1357.0	2628.9	5567.3	9896.7	11191.3	11475.2
35°	414.5	403.1	420.2	462.8	607.5	1181.0	2430.2	5666.6	10592.3	11997.6	12054.4
37.5°	374.7	371.9	383.3	420.2	511.0	1027.7	2288.2	5641.1	11123.2	12664.7	12511.4
40°	346.4	346.4	354.9	386.1	457.1	919.8	2140.6	5618.4	11637.0	13414.2	12965.7
42.5°	323.6	323.6	337.8	357.7	434.4	848.9	2029.9	5587.1	12068.6	13874.2	13232.5
45°	292.4	300.9	323.6	343.5	440.0	800.6	1947.5	5467.9	12216.2	13868.5	13104.8
47.5°	269.7	281.1	303.8	332.2	397.5	786.4	1890.8	5362.9	12165.1	13527.8	12704.5
50°	244.2	258.3	289.6	337.8	337.8	758.0	1831.2	5456.5	12128.2	13263.8	12321.2
52°	227.1	238.5	278.2	329.3	295.3	698.4	1794.2	5638.2	12278.6	13229.7	12150.9
52.5°	224.3	232.8	269.7	323.6	281.1	687.0	1768.7	5680.8	12326.9	13144.5	12267.3
55°	198.7	210.1	247.0	252.7	230.0	565.0	1686.4	5777.4	12088.4	12977.0	12156.6
57.5°	187.4	193.1	218.6	207.2	198.7	425.8	1450.7	5626.9	10737.1	11526.3	11310.5
60°	173.2	178.9	204.4	161.8	167.5	298.1	1090.2	4885.9	8622.0	9604.3	9993.3
62.5°	167.5	164.7	193.1	130.6	141.9	215.8	769.4	3971.8	6643.2	7906.6	8579.4
65°	147.6	144.8	139.1	110.7	122.1	167.5	459.9	2592.0	4681.5	5981.8	6350.8
67.5°	113.6	119.2	102.2	88.0	102.2	130.6	255.5	1161.1	2455.7	3588.5	3886.6
70°	79.5	85.2	82.3	76.7	90.8	107.9	147.6	397.5	1016.4	1885.1	2078.1
72.5°	48.3	59.6	62.5	65.3	79.5	93.7	105.0	127.8	269.7	667.2	829.0
75°	28.4	39.7	48.3	56.8	65.3	79.5	88.0	90.8	93.7	124.9	201.6
77.5°	19.9	28.4	42.6	53.9	65.3	79.5	93.7	99.4	93.7	88.0	93.7
80°	17.0	28.4	39.7	51.1	68.1	82.3	93.7	93.7	90.8	79.5	85.2
82.5°	17.0	28.4	42.6	53.9	65.3	79.5	90.8	93.7	85.2	79.5	82.3
85°	19.9	31.2	45.4	56.8	71.0	65.3	59.6	48.3	45.4	36.9	39.7
87.5°	19.9	28.4	28.4	31.2	34.1	34.1	34.1	31.2	25.6	22.7	22.7
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: P530421

CATALOG NUMBER: GALN-SA5C-827-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5	7256.5
2.5°	7929.3	8156.4	8147.9	8153.6	8119.5	7889.6	7778.8	7497.8	7577.3	7543.2
5°	8233.1	8457.4	8650.4	8627.7	8366.5	8054.2	7591.5	7154.3	7035.0	6859.0
7.5°	7929.3	8468.7	8647.6	8622.0	8235.9	7835.6	7097.5	6660.3	6453.0	6336.6
10°	7446.7	8071.3	8292.7	8338.1	8076.9	7469.4	6790.9	6089.6	5978.9	5777.4
12.5°	7171.3	7625.5	7761.8	7883.9	7793.0	7338.8	6558.1	5885.2	5731.9	5598.5
15°	6947.0	7216.7	7273.5	7412.6	7466.6	7222.4	6680.2	6106.7	5729.1	5714.9
17.5°	7154.3	7043.5	6836.3	6878.9	7049.2	7225.2	6995.3	6543.9	6177.6	6132.2
20°	7497.8	7009.5	6541.0	6646.1	6788.0	7327.4	7472.2	7154.3	6944.2	6827.8
22.5°	7892.4	7069.1	6447.4	6498.5	6768.2	7557.4	8244.4	8068.4	7676.6	7509.1
25°	8622.0	7233.8	6521.2	6555.2	6924.3	7878.2	8942.8	9073.4	8840.6	8806.6
27.5°	9334.6	7659.6	6683.0	6606.3	7003.8	8190.5	9365.8	10067.1	9658.3	9578.8
30°	9698.0	8006.0	6924.3	6793.7	7333.1	8380.7	9621.3	10714.4	10356.6	10319.7
32.5°	10254.4	8321.1	7111.7	6944.2	7517.7	8616.3	10098.3	11421.3	11074.9	10890.4
35°	10487.2	8664.6	7523.3	7327.4	8045.7	8945.7	10342.5	12051.5	11943.6	11764.8
37.5°	10935.8	9033.7	8008.8	7997.4	8684.5	9374.4	10782.5	12908.9	12889.0	12579.6
40°	10972.7	9436.8	8775.3	9133.0	9672.4	10121.0	11168.6	13147.4	13471.0	13260.9
42.5°	11029.5	10143.7	10101.1	10396.4	10859.1	10762.6	11182.8	13204.2	13698.1	13573.2
45°	11055.0	10850.6	11449.7	11994.7	12187.8	11603.0	11049.4	13096.3	13817.4	13505.1
47.5°	10850.6	11458.2	12539.8	13593.1	13649.9	12119.7	10992.6	12985.6	13888.4	13681.1
50°	10879.0	11838.6	13482.4	14424.9	14217.7	12576.7	10904.6	12917.4	13851.4	13712.3
52°	10810.9	11847.1	13615.8	14407.9	14263.1	12324.1	10754.1	12656.2	13817.4	13916.7
52.5°	10887.5	11796.0	13476.7	14419.2	14231.9	12449.0	10734.2	12801.0	13837.3	13635.7
55°	10623.5	11188.5	12661.9	13062.2	13033.8	11299.2	10123.8	12321.2	13317.7	13320.6
57.5°	9601.5	9698.0	9930.8	9922.3	9791.7	8883.2	8658.9	11330.4	11872.7	11577.4
60°	8460.2	7100.3	6472.9	6217.4	6072.6	5925.0	7659.6	10365.2	10416.3	10291.4
62.5°	7310.4	4922.8	4088.2	4017.2	4051.2	4590.7	7404.1	9981.9	9675.3	9405.6
65°	5899.4	3588.5	2969.6	2875.9	3208.1	3790.1	5993.1	7653.9	7182.7	6958.4
67.5°	3704.9	2617.6	2007.2	1831.2	2231.4	2609.0	3937.7	4809.3	4281.2	3971.8
70°	2197.4	1462.1	908.5	814.8	917.0	1391.1	2205.9	2398.9	1984.5	1825.5
72.5°	865.9	536.6	252.7	215.8	224.3	488.3	812.0	792.1	599.0	533.7
75°	232.8	161.8	88.0	71.0	59.6	90.8	130.6	85.2	31.2	39.7
77.5°	107.9	96.5	76.7	59.6	45.4	34.1	17.0	5.7	5.7	2.8
80°	93.7	82.3	71.0	59.6	45.4	28.4	14.2	2.8	2.8	2.8
82.5°	88.0	76.7	65.3	53.9	42.6	28.4	14.2	2.8	0.0	0.0
85°	36.9	48.3	53.9	51.1	45.4	28.4	14.2	2.8	0.0	0.0
87.5°	19.9	17.0	14.2	11.4	8.5	5.7	5.7	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)