

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: P647998

Luminaire Tested: **GALN-SA6A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647998  
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-SA6A-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA 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: 11738.7 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

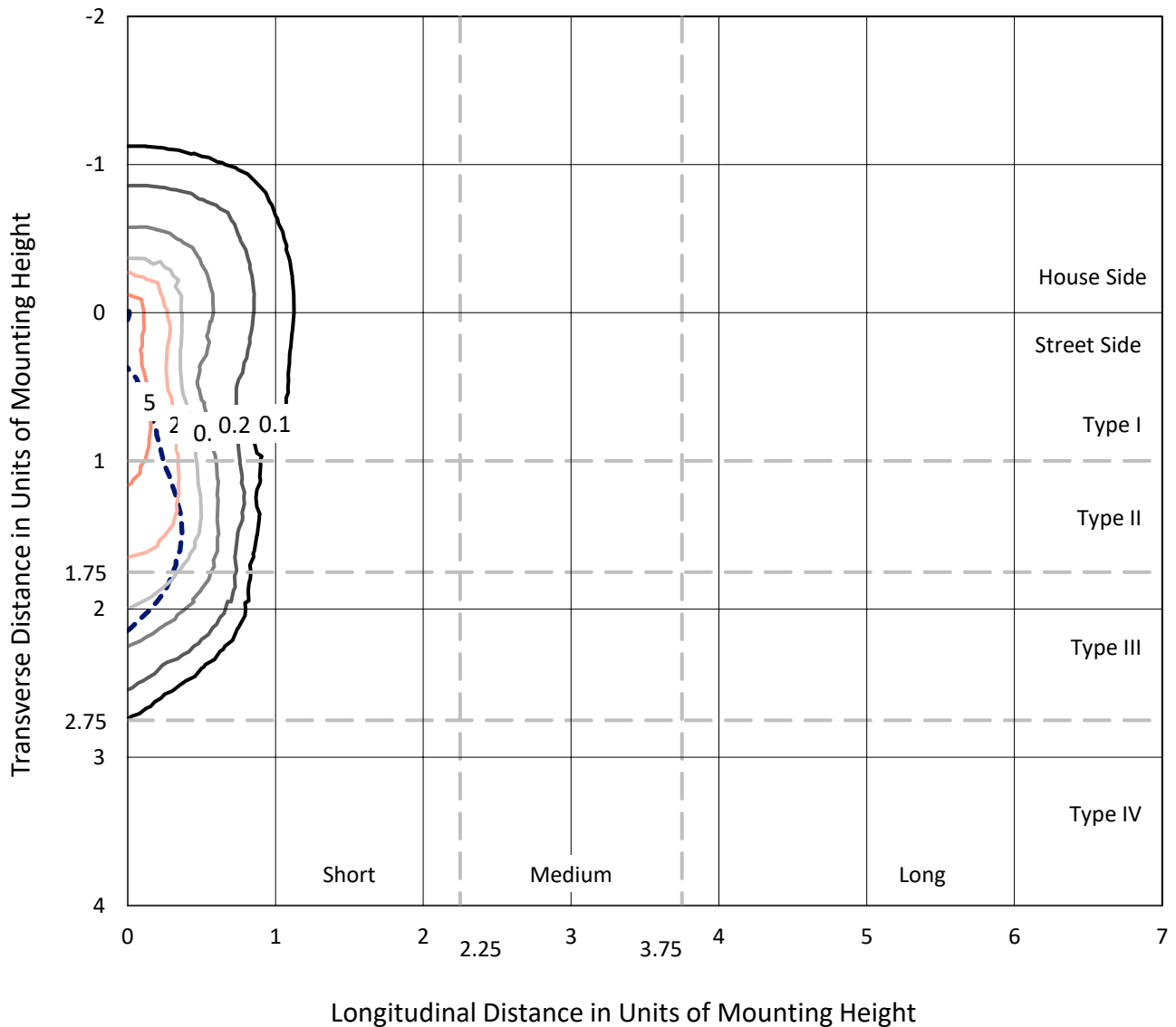
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647998  
 CATALOG NUMBER: GALN-SA6A-835-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

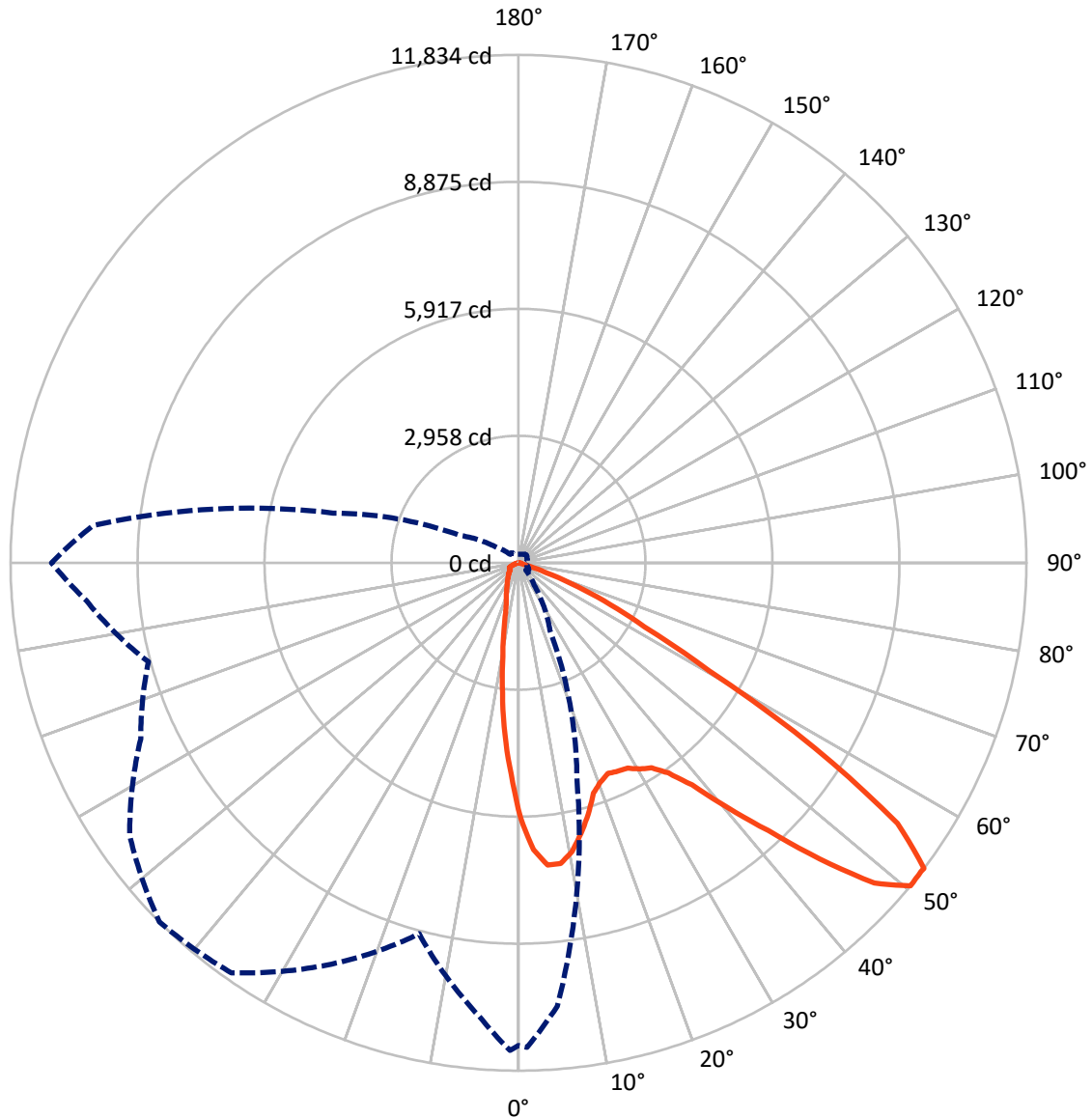
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P647998  
CATALOG NUMBER: GALN-SA6A-835-U-SLR-GRSBK

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA6A-835-U-SLR-GRSBK

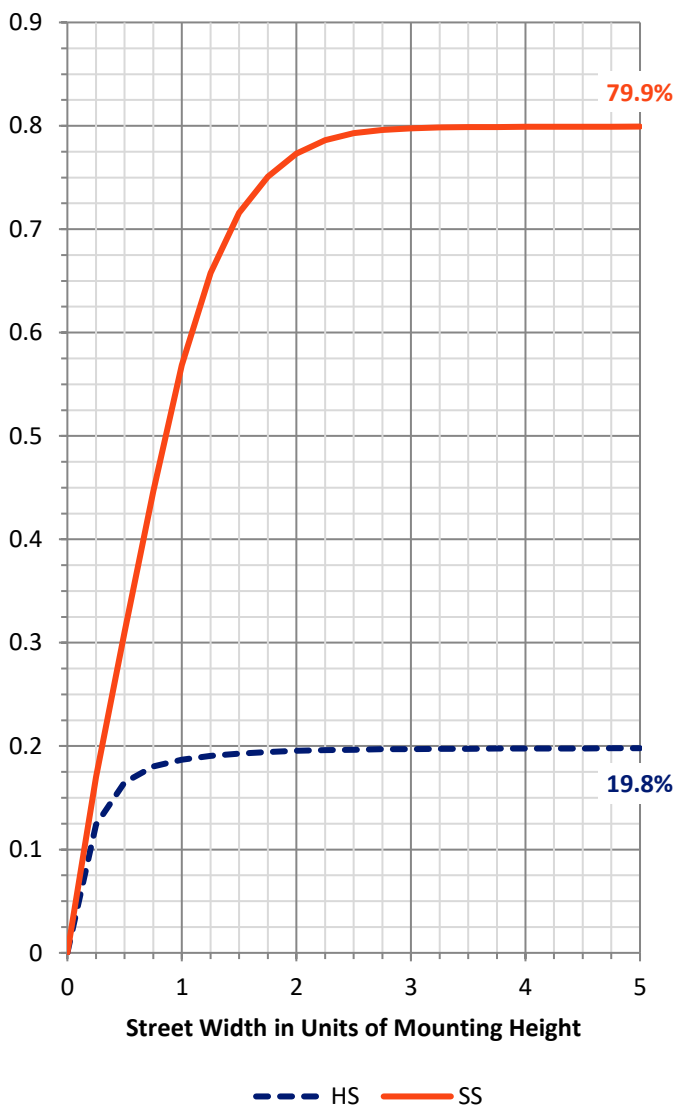
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2351.3	0.0	2351.3
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	9387.5	0.0	9387.5
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	11738.7	0.0	11738.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.9	3.7
10°-20°	862.4	7.3
20°-30°	1295.6	11.0
30°-40°	1944.6	16.6
40°-50°	2733.0	23.3
50°-60°	2948.0	25.1
60°-70°	1368.8	11.7
70°-80°	128.8	1.1
80°-90°	23.7	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°	11738.7	100.0
0°-180°	11738.7	100.0

**Coefficient of Utilization**

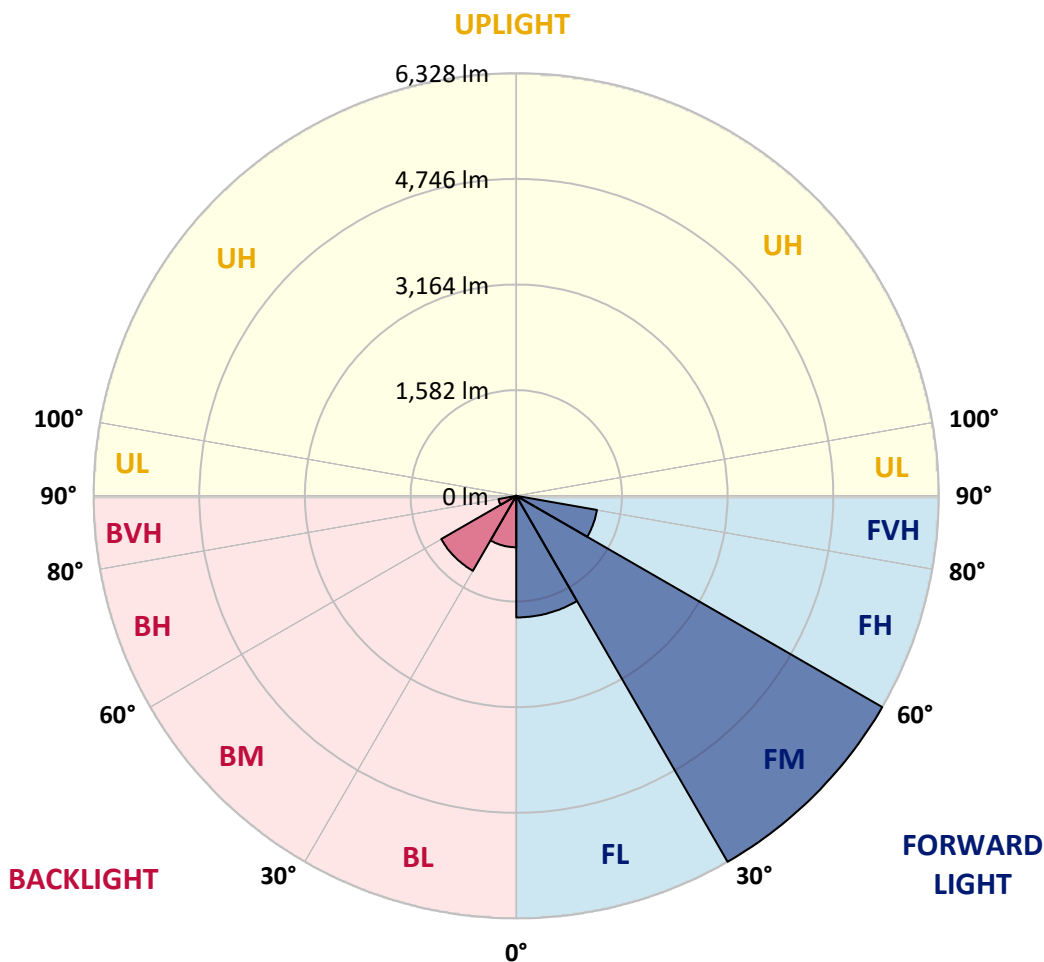


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 CATALOG NUMBER: GALN-SA6A-835-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.2	15.5			
FM (30°-60°)	6328.1	53.9			
FH (60°-80°)	1227.6	10.5			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	770.7	6.6	B2/1000		
BM (30°-60°)	1297.6	11.1	B2/2500		
BH (60°-80°)	270.0	2.3	B1/500		G1/500
BVH (80°-90°)	13.0	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





REPORT NUMBER: P647998

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0
2.5°	6188.3	6092.8	5971.6	5871.5	5722.5	5422.0	5340.5	5242.7	5161.1	5051.7	4898.0
5°	5627.0	5596.6	5540.7	5163.5	4891.0	4527.6	4229.5	4103.8	3938.4	3803.3	3705.5
7.5°	5198.4	5077.3	4900.3	4520.7	4085.1	3696.2	3365.5	3172.2	2953.2	2878.7	2745.9
10°	4739.6	4767.5	4506.7	3973.3	3447.0	3132.5	2927.6	2741.3	2543.3	2412.9	2224.3
12.5°	4592.8	4502.0	4301.7	3642.6	3193.1	2899.7	2650.5	2419.9	2210.3	2000.6	1819.0
15°	4688.4	4548.6	4269.2	3572.8	2997.5	2631.8	2319.7	2007.6	1814.3	1546.5	1357.8
17.5°	5030.7	4919.0	4544.0	3647.3	2897.3	2375.6	1912.2	1590.7	1294.9	1052.7	957.2
20°	5601.3	5442.9	4972.5	3742.7	2748.3	2065.9	1551.1	1155.2	875.7	773.2	719.7
22.5°	6160.3	6074.1	5480.2	3926.7	2615.5	1791.0	1164.6	777.9	654.4	635.8	600.9
25°	7224.7	6966.1	6255.8	4259.8	2513.0	1532.5	878.1	626.5	554.3	540.3	545.0
27.5°	7858.2	7641.5	6973.2	4481.0	2398.9	1334.5	743.0	575.3	526.3	496.1	484.4
30°	8466.0	8214.5	7329.5	4611.5	2154.3	1124.9	659.1	552.0	540.3	496.1	482.1
32.5°	8934.2	8687.3	7844.2	4807.2	2054.2	989.9	542.7	430.9	400.6	396.0	437.9
35°	9651.5	9388.3	8284.4	4914.3	1977.4	919.9	470.4	384.3	349.4	335.4	337.7
37.5°	10319.9	10140.6	8692.0	4956.2	1895.8	899.0	421.6	344.7	314.5	305.1	302.8
40°	10878.9	10478.3	9078.6	5000.5	1860.9	859.4	391.3	314.5	293.5	279.5	279.5
42.5°	11135.1	10727.6	9511.8	4974.8	1851.6	796.5	391.3	288.8	272.5	258.5	256.2
45°	11079.2	10913.8	9705.1	4963.2	1851.6	733.7	356.3	281.8	258.5	239.9	235.2
47.5°	11223.6	11007.0	9947.3	5012.1	1814.3	689.4	300.4	295.8	244.5	221.3	216.6
50°	11249.3	11291.2	10368.9	5266.0	1732.8	633.5	235.2	291.1	235.2	200.3	195.7
52°	11416.9	11156.1	10497.0	5401.1	1646.6	591.6	197.9	249.2	225.9	186.4	181.7
52.5°	11186.3	11356.4	10527.3	5449.9	1656.0	563.6	191.0	244.5	221.3	186.4	174.7
55°	10927.9	11090.9	10403.8	5554.8	1518.6	442.6	149.1	177.0	200.3	163.0	156.1
57.5°	9497.8	9663.2	9041.3	5086.6	1236.7	312.1	123.4	132.7	177.0	151.4	144.4
60°	8442.8	8324.0	7588.0	4243.5	878.1	174.7	97.8	102.5	193.3	139.8	137.4
62.5°	7716.1	7462.2	6342.0	3276.9	535.7	116.4	76.9	79.2	149.1	130.4	130.4
65°	5708.5	5424.3	4213.2	1982.0	263.2	81.5	58.3	62.9	93.2	111.8	111.8
67.5°	3258.3	3148.8	2035.6	894.3	109.5	51.2	44.2	48.9	72.2	90.8	86.2
70°	1497.6	1343.9	782.5	188.6	51.2	34.9	34.9	39.6	58.3	67.6	62.9
72.5°	437.9	414.6	191.0	30.3	21.0	21.0	23.3	30.3	44.2	51.2	46.6
75°	32.6	21.0	13.9	9.3	9.3	13.9	18.6	30.3	44.2	48.9	39.6
77.5°	2.3	4.6	2.3	2.3	7.0	13.9	21.0	37.3	58.3	60.5	44.2
80°	2.3	2.3	0.0	2.3	7.0	13.9	23.3	41.9	65.2	69.8	37.3
82.5°	0.0	0.0	0.0	2.3	9.3	18.6	28.0	44.2	60.5	74.5	39.6
85°	0.0	0.0	0.0	2.3	13.9	25.6	32.6	11.7	7.0	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



REPORT NUMBER: P647998

CATALOG NUMBER: GALN-SA6A-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0
2.5°	5007.4	4946.8	4923.6	4944.6	4937.5	4930.6	5058.6	5030.7	5026.1	5068.0	5058.6
5°	3759.1	3651.9	3945.4	3826.6	3950.1	4024.5	4038.6	4045.5	4131.7	4040.9	4159.7
7.5°	2678.4	2706.4	2704.0	2783.2	2925.3	3051.0	3125.6	3067.3	3062.7	3051.0	2999.8
10°	2140.4	2091.5	2082.2	2063.5	2107.8	2215.0	2305.8	2233.5	2182.3	2252.1	2231.2
12.5°	1749.1	1681.6	1644.3	1569.8	1572.1	1644.3	1644.3	1644.3	1695.5	1735.1	1765.4
15°	1341.5	1285.6	1285.6	1211.1	1194.8	1197.1	1234.4	1239.0	1320.5	1343.9	1355.5
17.5°	938.6	908.4	943.3	973.5	954.9	959.6	973.5	978.2	989.9	980.6	1003.8
20°	722.0	717.3	726.6	780.3	819.8	843.1	826.8	803.5	789.6	756.9	756.9
22.5°	612.5	621.9	638.1	682.4	733.7	747.6	729.0	675.4	633.5	628.8	631.2
25°	545.0	554.3	580.0	607.8	635.8	659.1	640.5	600.9	577.6	556.6	556.6
27.5°	503.1	507.7	521.7	542.7	566.0	584.6	577.6	556.6	531.0	521.7	500.7
30°	470.4	477.5	493.8	498.4	519.4	528.7	517.0	512.4	496.1	484.4	477.5
32.5°	454.1	451.9	463.5	468.2	470.4	477.5	463.5	470.4	468.2	449.5	442.6
35°	342.4	361.0	391.3	416.9	423.9	433.2	430.9	421.6	396.0	375.0	349.4
37.5°	307.4	319.1	335.4	356.3	384.3	396.0	391.3	368.0	337.7	323.8	319.1
40°	284.2	291.1	305.1	319.1	347.0	368.0	351.7	330.7	307.4	295.8	288.8
42.5°	263.2	265.5	272.5	286.5	307.4	340.1	312.1	284.2	274.8	267.9	263.2
45°	239.9	239.9	249.2	256.2	279.5	309.8	281.8	256.2	251.5	246.9	244.5
47.5°	221.3	223.6	228.2	237.6	256.2	277.2	258.5	237.6	225.9	223.6	218.9
50°	197.9	200.3	209.6	218.9	242.2	253.8	242.2	218.9	207.3	200.3	200.3
52°	179.3	186.4	195.7	214.3	230.6	249.2	235.2	209.6	195.7	188.6	184.0
52.5°	177.0	181.7	191.0	212.0	230.6	246.9	232.9	207.3	191.0	186.4	181.7
55°	158.4	165.4	181.7	207.3	228.2	246.9	228.2	205.0	181.7	170.0	165.4
57.5°	151.4	156.1	177.0	209.6	225.9	246.9	228.2	205.0	181.7	160.7	156.1
60°	144.4	153.7	177.0	202.6	223.6	249.2	230.6	202.6	177.0	151.4	151.4
62.5°	137.4	144.4	174.7	197.9	214.3	239.9	221.3	197.9	170.0	144.4	142.0
65°	118.8	130.4	153.7	165.4	184.0	207.3	188.6	172.3	149.1	128.1	125.7
67.5°	90.8	95.5	114.2	128.1	139.8	160.7	151.4	130.4	114.2	97.8	97.8
70°	62.9	67.6	81.5	88.5	100.1	111.8	104.8	88.5	76.9	67.6	65.2
72.5°	44.2	46.6	51.2	55.9	60.5	65.2	62.9	51.2	44.2	41.9	39.6
75°	34.9	39.6	41.9	39.6	37.3	34.9	34.9	30.3	25.6	23.3	23.3
77.5°	34.9	37.3	34.9	30.3	25.6	23.3	21.0	18.6	13.9	11.7	13.9
80°	30.3	30.3	30.3	25.6	23.3	21.0	18.6	16.3	13.9	11.7	11.7
82.5°	32.6	32.6	30.3	25.6	25.6	21.0	21.0	18.6	16.3	11.7	11.7
85°	0.0	0.0	0.0	4.6	11.7	21.0	21.0	18.6	16.3	13.9	13.9
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	9.3	11.7	13.9	13.9	13.9
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°	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0
2.5°	5142.5	5231.0	5398.7	5566.4	5668.8	5790.0	6008.9	6125.3	6276.8	6351.3	6498.0
5°	4143.3	4352.9	4427.5	4618.4	4823.4	5028.4	5354.5	5713.2	6011.2	6216.2	6481.7
7.5°	3023.1	3072.0	3360.8	3488.9	3824.3	4197.0	4641.8	5093.6	5470.9	5806.3	6008.9
10°	2266.2	2445.5	2627.1	2871.7	3141.9	3526.2	3952.3	4450.8	4939.9	5275.3	5531.4
12.5°	1821.3	1963.4	2205.6	2468.8	2801.8	3055.7	3484.3	3978.0	4611.5	4939.9	5277.6
15°	1378.8	1560.4	1835.3	2107.8	2459.5	2727.3	3160.5	3782.4	4597.5	5049.3	5340.5
17.5°	1022.4	1145.9	1392.8	1697.9	2056.5	2433.9	3018.5	3761.4	4753.6	5291.6	5592.0
20°	782.5	824.5	980.6	1253.0	1642.0	2135.7	2787.9	3852.2	5214.7	5880.8	6185.9
22.5°	633.5	652.2	712.7	901.3	1278.6	1874.9	2678.4	3915.1	5734.1	6586.5	6994.1
25°	552.0	547.3	586.9	668.4	999.2	1630.4	2538.6	4152.6	6369.9	7415.6	7781.3
27.5°	503.1	503.1	521.7	580.0	829.1	1472.0	2450.2	4322.7	7010.4	8144.6	8342.6
30°	477.5	482.1	535.7	554.3	689.4	1283.3	2303.4	4495.0	7623.0	8610.4	8883.0
32.5°	442.6	423.9	412.2	458.8	580.0	1113.3	2156.7	4567.2	8119.0	9181.1	9413.9
35°	340.1	330.7	344.7	379.6	498.4	968.9	1993.7	4648.7	8689.7	9842.5	9889.1
37.5°	307.4	305.1	314.5	344.7	419.2	843.1	1877.2	4627.8	9125.2	10389.9	10264.0
40°	284.2	284.2	291.1	316.7	375.0	754.6	1756.1	4609.1	9546.7	11004.7	10636.7
42.5°	265.5	265.5	277.2	293.5	356.3	696.4	1665.3	4583.5	9900.7	11382.0	10855.7
45°	239.9	246.9	265.5	281.8	361.0	656.8	1597.7	4485.7	10021.9	11377.4	10750.8
47.5°	221.3	230.6	249.2	272.5	326.0	645.1	1551.1	4399.5	9980.0	11097.9	10422.4
50°	200.3	212.0	237.6	277.2	277.2	621.9	1502.3	4476.4	9949.7	10881.3	10108.1
52°	186.4	195.7	228.2	270.1	242.2	572.9	1472.0	4625.5	10073.1	10853.3	9968.3
52.5°	184.0	191.0	221.3	265.5	230.6	563.6	1451.0	4660.4	10112.7	10783.5	10063.7
55°	163.0	172.3	202.6	207.3	188.6	463.5	1383.5	4739.6	9917.0	10646.1	9972.9
57.5°	153.7	158.4	179.3	170.0	163.0	349.4	1190.2	4616.2	8808.4	9455.9	9278.9
60°	142.0	146.7	167.7	132.7	137.4	244.5	894.3	4008.3	7073.3	7879.1	8198.2
62.5°	137.4	135.1	158.4	107.1	116.4	177.0	631.2	3258.3	5449.9	6486.4	7038.4
65°	121.1	118.8	114.2	90.8	100.1	137.4	377.3	2126.4	3840.6	4907.3	5210.1
67.5°	93.2	97.8	83.9	72.2	83.9	107.1	209.6	952.6	2014.6	2943.9	3188.5
70°	65.2	69.8	67.6	62.9	74.5	88.5	121.1	326.0	833.8	1546.5	1704.8
72.5°	39.6	48.9	51.2	53.6	65.2	76.9	86.2	104.8	221.3	547.3	680.1
75°	23.3	32.6	39.6	46.6	53.6	65.2	72.2	74.5	76.9	102.5	165.4
77.5°	16.3	23.3	34.9	44.2	53.6	65.2	76.9	81.5	76.9	72.2	76.9
80°	13.9	23.3	32.6	41.9	55.9	67.6	76.9	76.9	74.5	65.2	69.8
82.5°	13.9	23.3	34.9	44.2	53.6	65.2	74.5	76.9	69.8	65.2	67.6
85°	16.3	25.6	37.3	46.6	58.3	53.6	48.9	39.6	37.3	30.3	32.6
87.5°	16.3	23.3	23.3	25.6	28.0	28.0	28.0	25.6	21.0	18.6	18.6
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: P647998

CATALOG NUMBER: GALN-SA6A-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0	5953.0
2.5°	6505.0	6691.4	6684.3	6689.0	6661.1	6472.4	6381.5	6151.0	6216.2	6188.3
5°	6754.2	6938.2	7096.6	7077.9	6863.7	6607.5	6227.8	5869.2	5771.3	5627.0
7.5°	6505.0	6947.5	7094.2	7073.3	6756.5	6428.1	5822.6	5463.9	5293.9	5198.4
10°	6109.0	6621.4	6803.1	6840.4	6626.1	6127.7	5571.0	4995.8	4904.9	4739.6
12.5°	5883.1	6255.8	6367.6	6467.7	6393.2	6020.6	5380.1	4828.1	4702.3	4592.8
15°	5699.1	5920.4	5967.0	6081.1	6125.3	5925.0	5480.2	5009.8	4700.0	4688.4
17.5°	5869.2	5778.3	5608.3	5643.2	5783.0	5927.4	5738.8	5368.4	5068.0	5030.7
20°	6151.0	5750.4	5366.1	5452.3	5568.7	6011.2	6130.0	5869.2	5696.8	5601.3
22.5°	6474.7	5799.3	5289.2	5331.1	5552.4	6199.9	6763.6	6619.1	6297.7	6160.3
25°	7073.3	5934.4	5349.8	5377.7	5680.5	6463.1	7336.5	7443.6	7252.6	7224.7
27.5°	7657.9	6283.7	5482.6	5419.7	5745.7	6719.2	7683.5	8258.8	7923.4	7858.2
30°	7956.0	6567.9	5680.5	5573.4	6015.9	6875.3	7893.1	8789.8	8496.3	8466.0
32.5°	8412.5	6826.4	5834.2	5696.8	6167.3	7068.6	8284.4	9369.7	9085.5	8934.2
35°	8603.4	7108.2	6171.9	6011.2	6600.5	7338.8	8484.7	9886.8	9798.2	9651.5
37.5°	8971.5	7411.0	6570.2	6560.9	7124.5	7690.5	8845.7	10590.2	10573.9	10319.9
40°	9001.8	7741.8	7199.1	7492.5	7935.0	8303.0	9162.4	10785.7	11051.3	10878.9
42.5°	9048.3	8321.6	8286.7	8528.9	8908.6	8829.3	9174.1	10832.3	11237.6	11135.1
45°	9069.3	8901.6	9393.0	9840.2	9998.5	9518.8	9064.6	10743.9	11335.4	11079.2
47.5°	8901.6	9400.0	10287.4	11151.4	11198.0	9942.7	9018.0	10653.0	11393.7	11223.6
50°	8924.9	9712.1	11060.6	11833.9	11663.8	10317.7	8945.9	10597.1	11363.4	11249.3
52°	8869.0	9719.1	11170.0	11819.9	11701.1	10110.3	8822.4	10382.8	11335.4	11416.9
52.5°	8931.8	9677.2	11056.0	11829.2	11675.5	10212.8	8806.1	10501.6	11351.7	11186.3
55°	8715.3	9178.7	10387.5	10715.9	10692.6	9269.5	8305.4	10108.1	10925.5	10927.9
57.5°	7876.8	7956.0	8147.0	8140.0	8032.9	7287.5	7103.5	9295.1	9740.1	9497.8
60°	6940.5	5824.9	5310.2	5100.6	4981.8	4860.7	6283.7	8503.3	8545.3	8442.8
62.5°	5997.2	4038.6	3353.8	3295.6	3323.5	3766.1	6074.1	8188.9	7937.3	7716.1
65°	4839.7	2943.9	2436.1	2359.3	2631.8	3109.3	4916.6	6279.1	5892.5	5708.5
67.5°	3039.4	2147.4	1646.6	1502.3	1830.7	2140.4	3230.3	3945.4	3512.2	3258.3
70°	1802.7	1199.5	745.3	668.4	752.3	1141.2	1809.7	1968.1	1628.0	1497.6
72.5°	710.3	440.2	207.3	177.0	184.0	400.6	666.1	649.8	491.4	437.9
75°	191.0	132.7	72.2	58.3	48.9	74.5	107.1	69.8	25.6	32.6
77.5°	88.5	79.2	62.9	48.9	37.3	28.0	13.9	4.6	4.6	2.3
80°	76.9	67.6	58.3	48.9	37.3	23.3	11.7	2.3	2.3	2.3
82.5°	72.2	62.9	53.6	44.2	34.9	23.3	11.7	2.3	0.0	0.0
85°	30.3	39.6	44.2	41.9	37.3	23.3	11.7	2.3	0.0	0.0
87.5°	16.3	13.9	11.7	9.3	7.0	4.6	4.6	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)