

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: P647994

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647994  
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-SA6A-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 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: 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

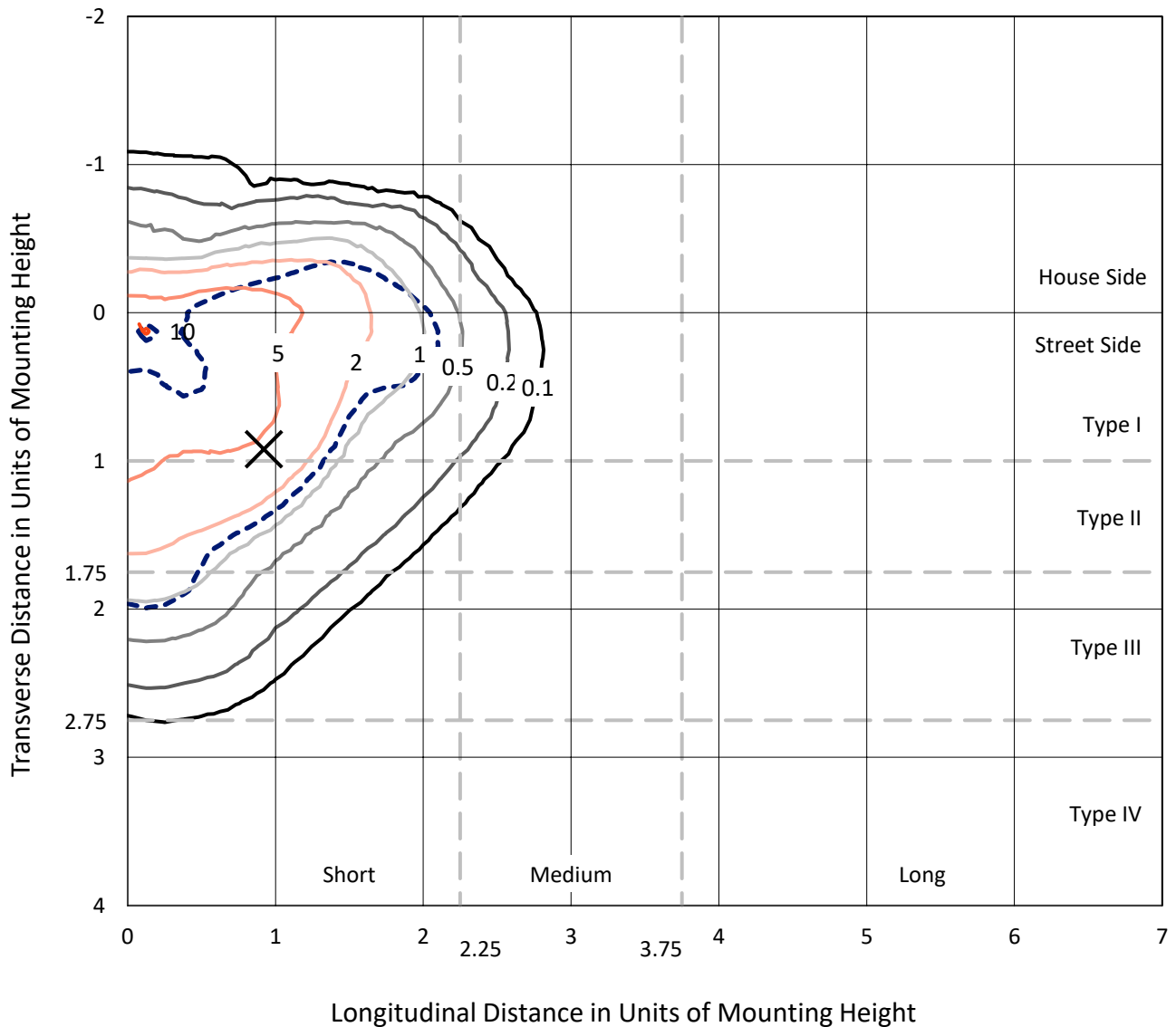
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

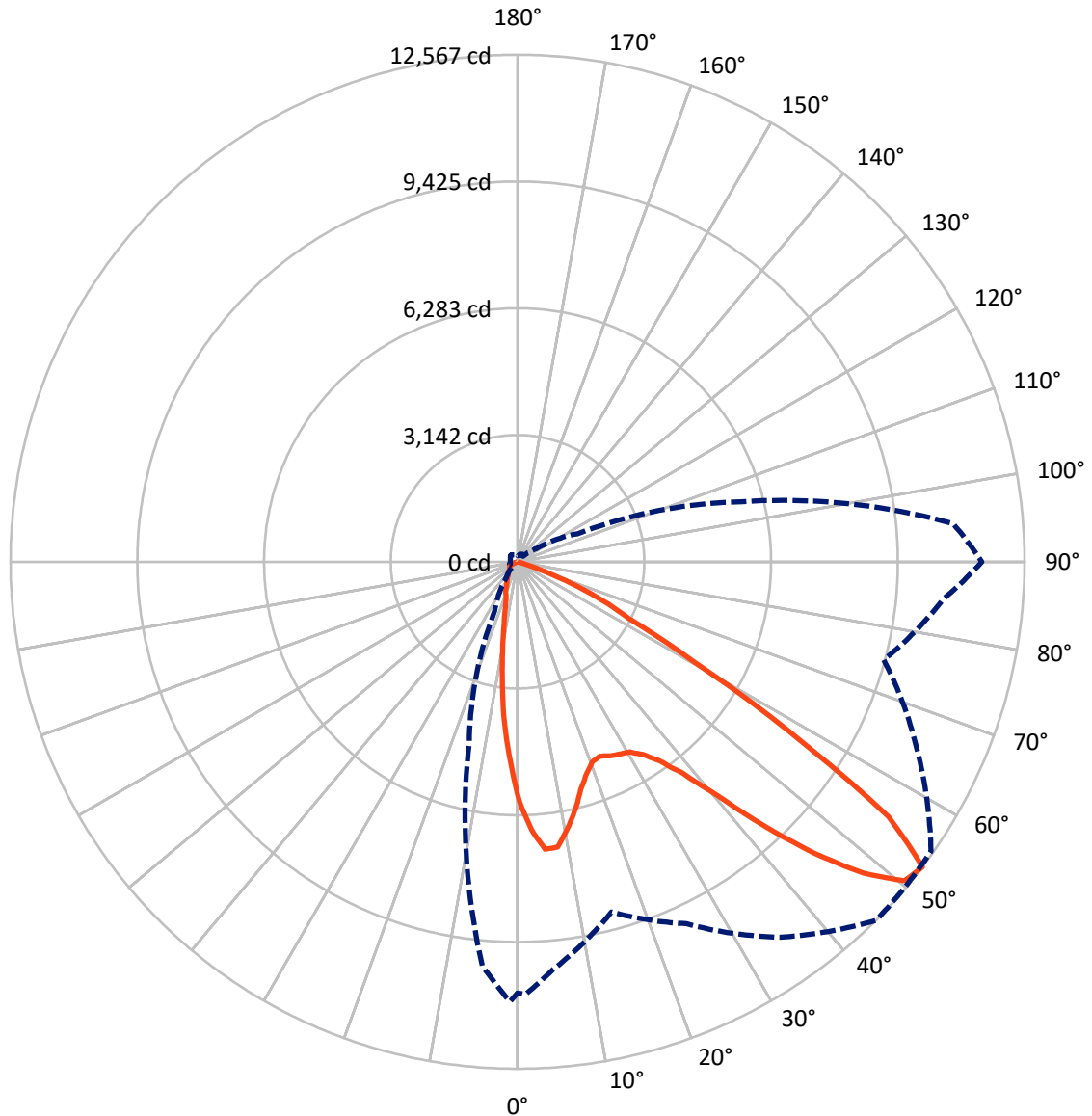
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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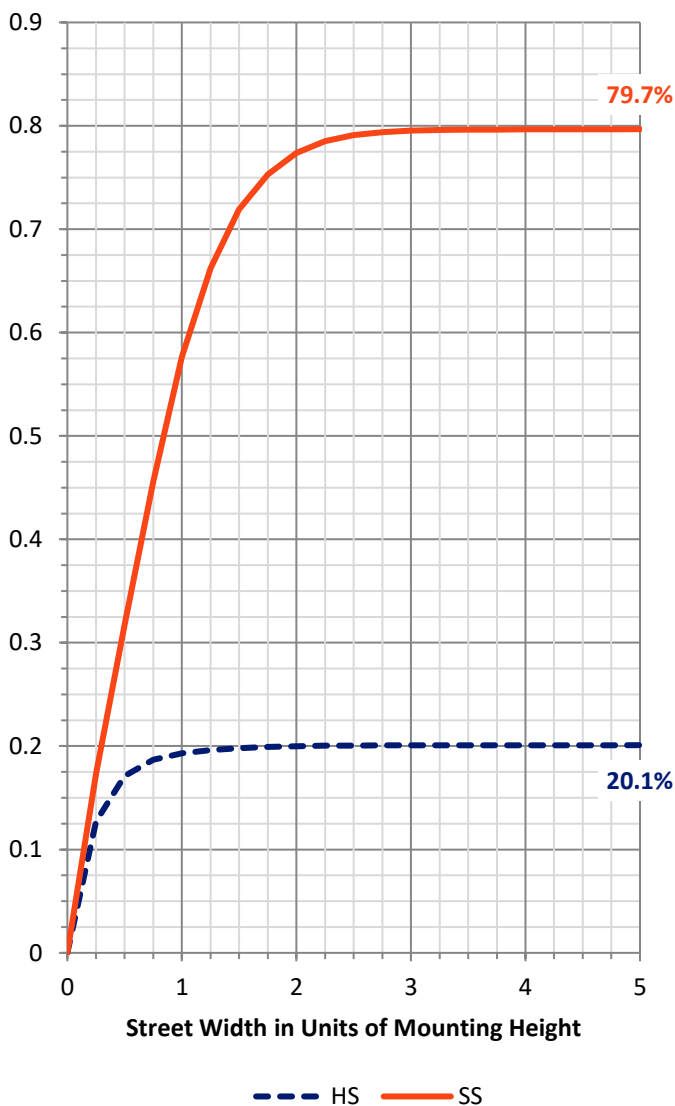
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2382.4	0.0	2382.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	9356.3	0.0	9356.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	11738.7	0.0	11738.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.1	3.7
10°-20°	856.4	7.3
20°-30°	1303.3	11.1
30°-40°	1948.0	16.6
40°-50°	2774.1	23.6
50°-60°	2982.1	25.4
60°-70°	1321.4	11.3
70°-80°	106.9	0.9
80°-90°	12.4	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°	11738.7	100.0
0°-180°	11738.7	100.0

**Coefficient of Utilization**

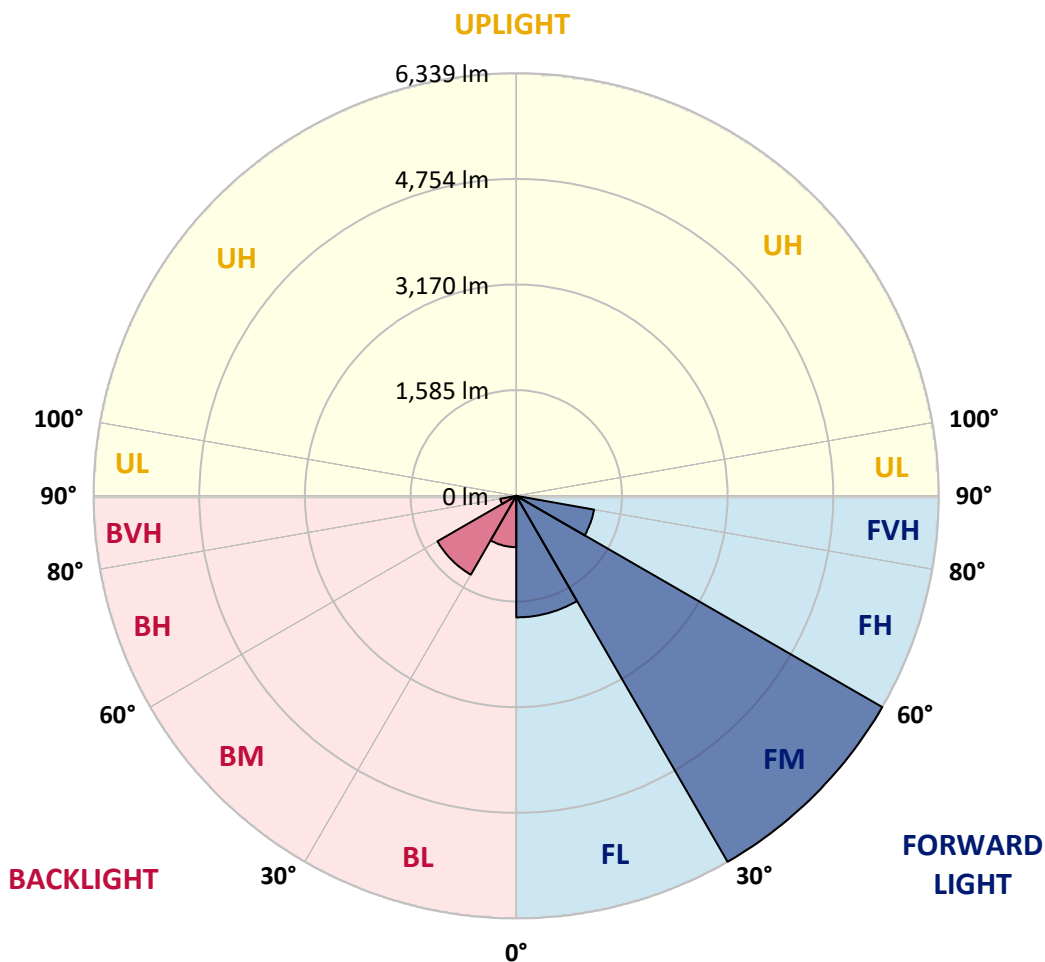


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.3	15.5			
FM (30°-60°)	6339.3	54.0			
FH (60°-80°)	1184.6	10.1			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	770.6	6.6	B2/1000		
BM (30°-60°)	1364.8	11.6	B2/2500		
BH (60°-80°)	243.7	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	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°	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1
2.5°	6298.4	6316.9	6418.5	6545.4	6612.4	6764.8	6658.6	6686.3	6628.6	6425.4	6266.1
5°	6106.8	6104.5	6233.8	6547.8	6845.6	7148.0	7157.2	6995.6	6711.6	6400.0	5954.4
7.5°	5529.5	5619.6	5753.6	6254.5	6806.3	7032.6	7141.1	6951.8	6515.4	6069.8	5587.3
10°	5093.2	5139.4	5365.7	5970.5	6374.6	6677.0	6744.0	6635.5	6300.7	5744.3	5204.1
12.5°	4841.5	4864.6	5130.1	5638.1	6065.2	6289.1	6321.5	6372.3	6132.1	5610.4	4961.6
15°	4843.9	4862.4	5220.2	5645.0	5813.5	5753.6	5859.7	5857.4	5961.3	5585.0	5164.7
17.5°	5192.5	5213.3	5536.5	5746.6	5672.8	5531.9	5524.9	5631.2	5850.5	5901.3	5471.8
20°	5792.8	5841.3	6079.1	6067.5	5651.9	5367.9	5289.5	5370.3	5880.5	6169.1	6090.6
22.5°	6600.8	6667.8	6834.0	6515.4	5746.6	5257.1	5231.8	5388.8	6079.1	6767.1	6792.5
25°	7538.3	7651.4	7732.2	7323.5	6083.7	5448.7	5328.7	5598.8	6346.9	7415.9	7686.0
27.5°	8159.3	8277.0	8258.6	7674.4	6310.0	5499.6	5398.0	5649.7	6580.1	7570.6	8152.4
30°	8644.2	8715.7	8845.0	7863.7	6536.2	5642.7	5469.6	5864.4	6656.3	7838.4	8715.7
32.5°	9209.8	9258.3	9267.5	8198.6	6884.8	5822.8	5691.2	6132.1	6993.4	8094.7	9214.4
35°	9780.1	9851.6	9701.6	8611.8	7099.5	6157.6	6060.6	6596.2	7263.5	8360.2	9763.9
37.5°	10398.9	10435.7	10089.4	8782.7	7406.6	6702.5	6649.3	7097.3	7732.2	8840.4	10373.4
40°	10918.3	10952.9	10502.7	8992.8	7729.9	7464.3	7600.6	8053.1	8369.4	9152.1	10678.2
42.5°	11206.9	11287.7	10641.3	8877.3	8378.6	8327.8	8932.8	9092.0	9108.2	9239.8	10950.6
45°	11285.4	11248.5	10412.6	8972.0	8946.6	9747.7	10297.2	10507.3	9842.4	9401.4	11019.9
47.5°	10922.9	10971.4	10075.6	8888.9	9692.4	10823.6	11534.8	11924.9	10389.6	9260.6	10849.0
50°	10629.7	10567.4	9967.1	8828.9	9893.2	11331.6	12428.2	12516.0	10892.9	9433.7	10662.0
52.5°	10687.4	10726.7	10140.2	8988.1	9897.8	11361.6	12566.8	12506.8	10909.1	9394.5	10595.1
55°	10809.8	10636.7	10066.3	8637.2	9235.2	10523.5	11153.8	11061.4	10068.7	8976.6	10431.1
57.5°	9327.6	9595.4	9256.0	7711.4	7579.8	7928.4	7916.8	8200.8	7510.5	7725.2	9496.1
60°	7570.6	7616.7	7743.7	6596.2	5245.6	5125.5	4959.3	4779.2	5054.0	6605.5	8637.2
62.5°	6658.6	6603.2	7055.7	6000.6	3703.3	3100.7	3073.0	3183.8	3899.6	6300.7	8101.5
65°	4839.3	4908.5	5236.4	4656.8	2779.8	2366.5	2325.0	2652.8	3156.1	5049.3	6183.0
67.5°	2955.3	3089.2	3119.2	2872.1	1886.3	1498.4	1438.4	1736.2	2278.8	3267.0	3624.8
70°	1364.5	1526.1	1678.5	1567.6	1092.1	616.5	581.8	729.6	1149.8	1879.4	1923.2
72.5°	413.3	415.6	581.8	607.2	353.2	138.5	122.4	161.6	390.2	621.1	653.4
75°	30.0	32.3	78.5	90.0	66.9	34.6	37.0	43.8	83.2	138.5	103.9
77.5°	2.3	2.3	2.3	11.5	20.7	23.1	30.0	34.6	43.8	50.8	46.2
80°	2.3	0.0	2.3	9.2	16.1	23.1	27.7	32.3	34.6	39.2	34.6
82.5°	0.0	0.0	0.0	6.9	16.1	23.1	25.4	34.6	39.2	46.2	39.2
85°	0.0	0.0	0.0	6.9	16.1	25.4	23.1	11.5	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°	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1
2.5°	6293.8	6203.7	5998.2	5894.3	5649.7	5615.0	5374.9	5335.6	5254.8	5210.9	5104.8
5°	5758.2	5649.7	5314.8	5033.2	4705.4	4476.7	4301.3	4142.0	4049.6	3964.2	4003.5
7.5°	5321.8	5005.5	4633.8	4162.7	3784.2	3539.4	3271.5	3052.2	2922.9	2835.2	2856.0
10°	4864.6	4659.2	4142.0	3613.3	3156.1	2983.0	2772.8	2604.3	2421.9	2264.9	2191.1
12.5°	4721.5	4416.7	3768.0	3230.0	2883.7	2715.1	2475.1	2281.1	2047.9	1856.3	1789.3
15°	4746.9	4453.7	3666.4	3091.5	2682.8	2391.9	2105.6	1865.5	1609.2	1475.3	1406.0
17.5°	5160.2	4652.2	3733.3	2946.0	2403.5	1999.4	1646.2	1341.4	1149.8	1011.2	981.3
20°	5668.1	5081.7	3876.5	2839.8	2174.9	1590.7	1202.9	939.7	780.3	757.3	750.3
22.5°	6411.5	5783.6	4183.6	2768.2	1895.5	1239.8	824.3	683.4	639.6	634.9	637.2
25°	7450.5	6663.2	4518.3	2708.2	1685.4	955.8	674.2	579.5	565.6	558.7	570.3
27.5°	7900.7	7194.2	4696.1	2579.0	1493.8	861.1	664.9	574.9	535.7	524.1	531.0
30°	8457.1	7547.5	4975.5	2357.3	1212.1	708.8	621.1	625.7	607.2	549.5	531.0
32.5°	9195.9	7988.5	5116.3	2200.3	1082.8	586.5	454.8	417.9	466.4	475.6	491.8
35°	9669.3	8436.4	5187.8	2107.9	1015.9	501.0	385.5	350.9	339.4	341.7	350.9
37.5°	10548.9	9041.2	5277.9	2011.0	965.0	436.4	348.6	316.3	300.1	300.1	309.4
40°	11075.3	9521.5	5400.3	1957.9	914.3	397.1	316.3	288.6	274.8	274.8	279.4
42.5°	11206.9	9759.3	5358.7	1939.4	856.6	387.9	288.6	267.8	251.7	249.4	247.0
45°	11442.4	10121.8	5365.7	1918.6	796.5	353.2	272.4	249.4	226.3	223.9	221.7
47.5°	11701.0	10382.7	5379.5	1837.8	738.8	295.5	284.0	230.9	203.2	198.6	198.6
50°	11479.3	10590.5	5499.6	1757.0	664.9	240.1	279.4	217.0	180.1	173.1	175.5
52.5°	11507.0	10835.2	5753.6	1643.8	572.6	191.6	226.3	205.5	164.0	152.4	154.7
55°	11063.8	10576.6	5788.2	1523.8	447.9	147.8	173.1	180.1	138.5	133.9	133.9
57.5°	9523.8	8955.8	5107.0	1235.2	295.5	122.4	124.7	157.0	120.0	115.4	117.8
60°	8150.1	7189.6	4109.7	815.0	184.7	96.9	90.0	159.3	106.2	103.9	110.8
62.5°	7429.7	5908.2	3116.9	505.7	127.0	73.9	62.3	129.3	92.3	92.3	101.6
65°	5367.9	3968.8	1812.4	265.5	90.0	57.7	46.2	73.9	76.2	78.5	83.2
67.5°	3324.7	2004.0	764.2	129.3	60.1	39.2	30.0	46.2	50.8	50.8	55.4
70°	1641.6	798.8	254.0	73.9	46.2	32.3	20.7	25.4	25.4	23.1	25.4
72.5°	507.9	240.1	64.7	46.2	32.3	20.7	11.5	9.2	4.6	0.0	2.3
75°	57.7	46.2	41.6	32.3	20.7	9.2	2.3	0.0	0.0	0.0	0.0
77.5°	34.6	39.2	39.2	32.3	20.7	6.9	0.0	0.0	0.0	0.0	0.0
80°	27.7	30.0	32.3	30.0	18.5	9.2	0.0	0.0	0.0	0.0	0.0
82.5°	34.6	39.2	43.8	39.2	25.4	11.5	4.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.9	2.3	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°	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1
2.5°	5060.9	5010.1	5081.7	4975.5	4973.1	4975.5	4945.4	4917.7	4961.6	5079.3	5090.9
5°	3862.6	3971.1	4005.7	4118.9	4056.6	3964.2	3982.7	3920.3	4072.7	4139.6	4086.6
7.5°	2812.1	2805.2	3038.4	3052.2	3082.3	3084.6	3079.9	2957.5	2832.9	2860.6	2943.7
10°	2181.8	2064.1	2177.2	2165.6	2239.5	2218.8	2248.8	2117.2	2161.0	2161.0	2214.2
12.5°	1777.8	1653.1	1632.3	1602.3	1632.3	1643.8	1655.4	1630.0	1703.9	1738.5	1775.5
15°	1357.6	1288.3	1269.9	1212.1	1221.3	1253.7	1281.4	1292.9	1269.9	1323.0	1327.6
17.5°	985.9	983.5	995.1	992.8	983.5	976.6	974.3	944.3	935.1	939.7	958.2
20°	748.1	766.6	805.8	845.0	865.8	840.4	805.8	755.0	734.2	738.8	741.1
22.5°	639.6	667.3	720.4	764.2	785.0	738.8	676.5	632.6	623.3	621.1	618.7
25°	579.5	611.8	651.1	664.9	662.7	634.9	588.7	570.3	565.6	561.0	540.3
27.5°	547.2	558.7	565.6	581.8	588.7	570.3	558.7	531.0	526.4	526.4	512.6
30°	528.7	521.8	531.0	519.4	528.7	514.9	517.2	517.2	505.7	510.3	510.3
32.5°	491.8	494.1	494.1	471.0	477.9	461.7	477.9	491.8	494.1	496.4	514.9
35°	360.2	401.8	422.5	422.5	429.5	417.9	415.6	399.4	378.7	357.8	348.6
37.5°	316.3	332.5	360.2	376.3	387.9	378.7	357.8	332.5	321.0	311.7	302.5
40°	281.6	295.5	314.0	332.5	355.6	344.1	311.7	300.1	286.3	286.3	277.0
42.5°	254.0	260.9	272.4	300.1	325.6	302.5	279.4	270.1	263.2	260.9	258.5
45°	228.6	230.9	242.4	265.5	295.5	272.4	249.4	237.8	240.1	242.4	240.1
47.5°	205.5	210.1	217.0	244.8	263.2	251.7	226.3	219.3	219.3	219.3	221.7
50°	177.7	189.3	203.2	226.3	240.1	233.2	212.4	203.2	198.6	198.6	200.8
52.5°	159.3	168.6	187.0	214.7	233.2	221.7	200.8	187.0	177.7	175.5	180.1
55°	138.5	154.7	184.7	205.5	230.9	219.3	196.2	180.1	164.0	161.6	161.6
57.5°	124.7	150.1	177.7	203.2	223.9	214.7	196.2	175.5	154.7	152.4	152.4
60°	117.8	145.5	173.1	196.2	223.9	210.1	193.9	170.9	147.8	147.8	145.5
62.5°	110.8	136.2	164.0	187.0	214.7	203.2	187.0	164.0	140.9	140.9	136.2
65°	92.3	117.8	136.2	157.0	187.0	175.5	159.3	143.1	124.7	120.0	122.4
67.5°	64.7	80.8	99.3	120.0	138.5	133.9	127.0	115.4	99.3	96.9	94.7
70°	32.3	43.8	60.1	80.8	96.9	92.3	87.7	78.5	69.3	66.9	66.9
72.5°	4.6	13.9	25.4	37.0	50.8	53.1	50.8	48.5	46.2	43.8	46.2
75°	0.0	0.0	0.0	9.2	20.7	25.4	30.0	34.6	34.6	30.0	37.0
77.5°	0.0	0.0	0.0	0.0	2.3	11.5	23.1	30.0	37.0	32.3	43.8
80°	0.0	0.0	0.0	0.0	2.3	13.9	23.1	32.3	37.0	32.3	46.2
82.5°	0.0	0.0	0.0	0.0	2.3	16.1	23.1	30.0	34.6	32.3	41.6
85°	0.0	0.0	0.0	0.0	6.9	13.9	9.2	4.6	2.3	2.3	6.9
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: P647994

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1	5952.1
2.5°	5155.6	5319.5	5494.9	5561.9	5769.7	5926.7	6032.9	6261.5	6296.1	6298.4
5°	4142.0	4225.1	4525.3	4666.1	4975.5	5215.6	5471.8	5841.3	6088.3	6106.8
7.5°	2943.7	3174.6	3301.6	3668.7	4049.6	4426.0	4806.9	5236.4	5522.7	5529.5
10°	2368.8	2518.9	2745.2	3019.9	3340.8	3724.1	4232.0	4730.7	5021.6	5093.2
12.5°	1907.1	2170.2	2428.9	2712.9	2957.5	3246.2	3793.3	4458.3	4698.4	4841.5
15°	1468.4	1708.5	2013.2	2345.7	2622.8	3008.4	3631.7	4391.3	4795.4	4843.9
17.5°	1082.8	1297.5	1579.2	1893.2	2308.8	2856.0	3659.4	4730.7	5111.7	5192.5
20°	778.1	902.7	1124.4	1489.2	2017.9	2678.2	3687.1	5074.8	5654.3	5792.8
22.5°	616.5	667.3	812.7	1135.9	1692.4	2491.2	3883.4	5732.7	6400.0	6600.8
25°	535.7	563.4	632.6	895.8	1486.8	2472.7	4197.4	6522.4	7392.8	7538.3
27.5°	517.2	521.8	581.8	821.9	1376.0	2350.3	4317.5	7083.4	8011.5	8159.3
30°	544.9	618.7	623.3	694.9	1170.6	2107.9	4379.8	7626.0	8535.6	8644.2
32.5°	471.0	447.9	464.1	537.9	1029.7	1967.1	4497.6	8099.3	9133.6	9209.8
35°	327.8	344.1	380.9	466.4	900.4	1819.3	4527.5	8621.1	9701.6	9780.1
37.5°	302.5	311.7	341.7	397.1	791.9	1736.2	4486.0	9002.0	10290.3	10398.9
40°	281.6	293.2	309.4	360.2	711.1	1643.8	4428.3	9346.0	10650.5	10918.3
42.5°	265.5	274.8	288.6	344.1	641.8	1551.5	4347.5	9830.9	10973.7	11206.9
45°	247.0	260.9	277.0	334.8	602.6	1489.2	4287.5	9800.9	11160.7	11285.4
47.5°	228.6	251.7	270.1	311.7	591.1	1459.2	4312.8	9687.7	11008.4	10922.9
50°	210.1	240.1	272.4	258.5	563.4	1399.1	4342.8	9842.4	10645.9	10629.7
52.5°	193.9	228.6	254.0	212.4	501.0	1341.4	4633.8	10045.6	10902.2	10687.4
55°	170.9	205.5	203.2	170.9	406.4	1297.5	4862.4	10050.2	10729.0	10809.8
57.5°	154.7	182.4	159.3	143.1	300.1	1085.2	4490.6	8427.1	9184.4	9327.6
60°	143.1	177.7	120.0	113.1	196.2	782.7	3920.3	6527.0	7300.5	7570.6
62.5°	131.6	168.6	94.7	92.3	136.2	556.4	3223.1	5462.6	6291.5	6658.6
65°	115.4	120.0	76.2	71.6	96.9	300.1	1962.5	3761.1	4703.0	4839.3
67.5°	94.7	92.3	62.3	57.7	64.7	145.5	865.8	1884.0	2726.7	2955.3
70°	76.2	76.2	53.1	46.2	46.2	66.9	226.3	750.3	1232.9	1364.5
72.5°	55.4	57.7	41.6	37.0	34.6	32.3	37.0	150.1	323.2	413.3
75°	48.5	50.8	41.6	32.3	25.4	20.7	16.1	13.9	18.5	30.0
77.5°	53.1	53.1	43.8	30.0	23.1	16.1	9.2	4.6	4.6	2.3
80°	66.9	69.3	57.7	39.2	27.7	18.5	11.5	4.6	2.3	2.3
82.5°	71.6	78.5	64.7	48.5	34.6	20.7	11.5	2.3	0.0	0.0
85°	18.5	30.0	50.8	43.8	34.6	20.7	11.5	2.3	0.0	0.0
87.5°	0.0	2.3	6.9	6.9	9.2	9.2	6.9	2.3	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)