

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: P648328

Luminaire Tested: **GALN-SA3B-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648328  
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-SA3B-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA 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: 7353.2 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

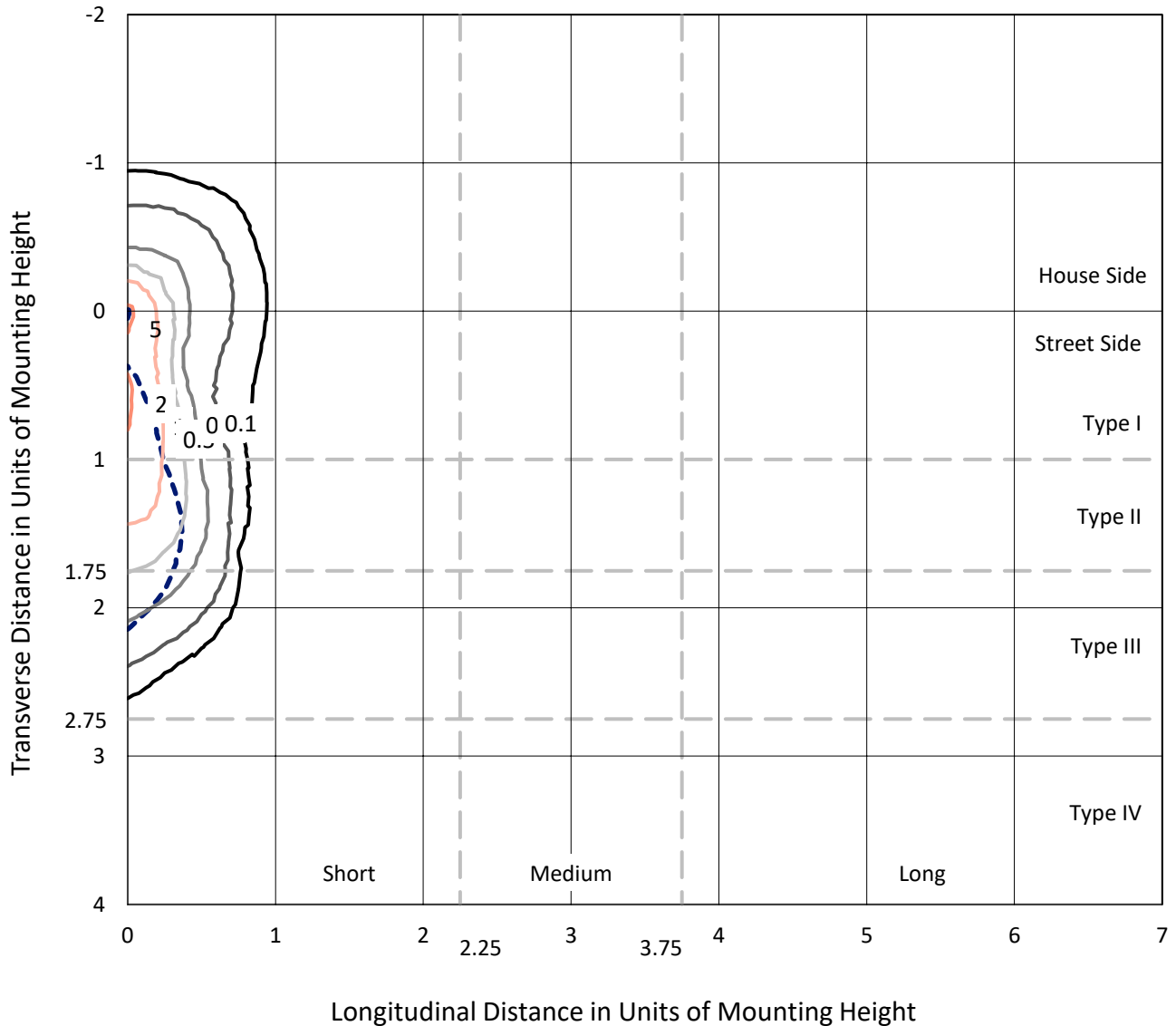
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

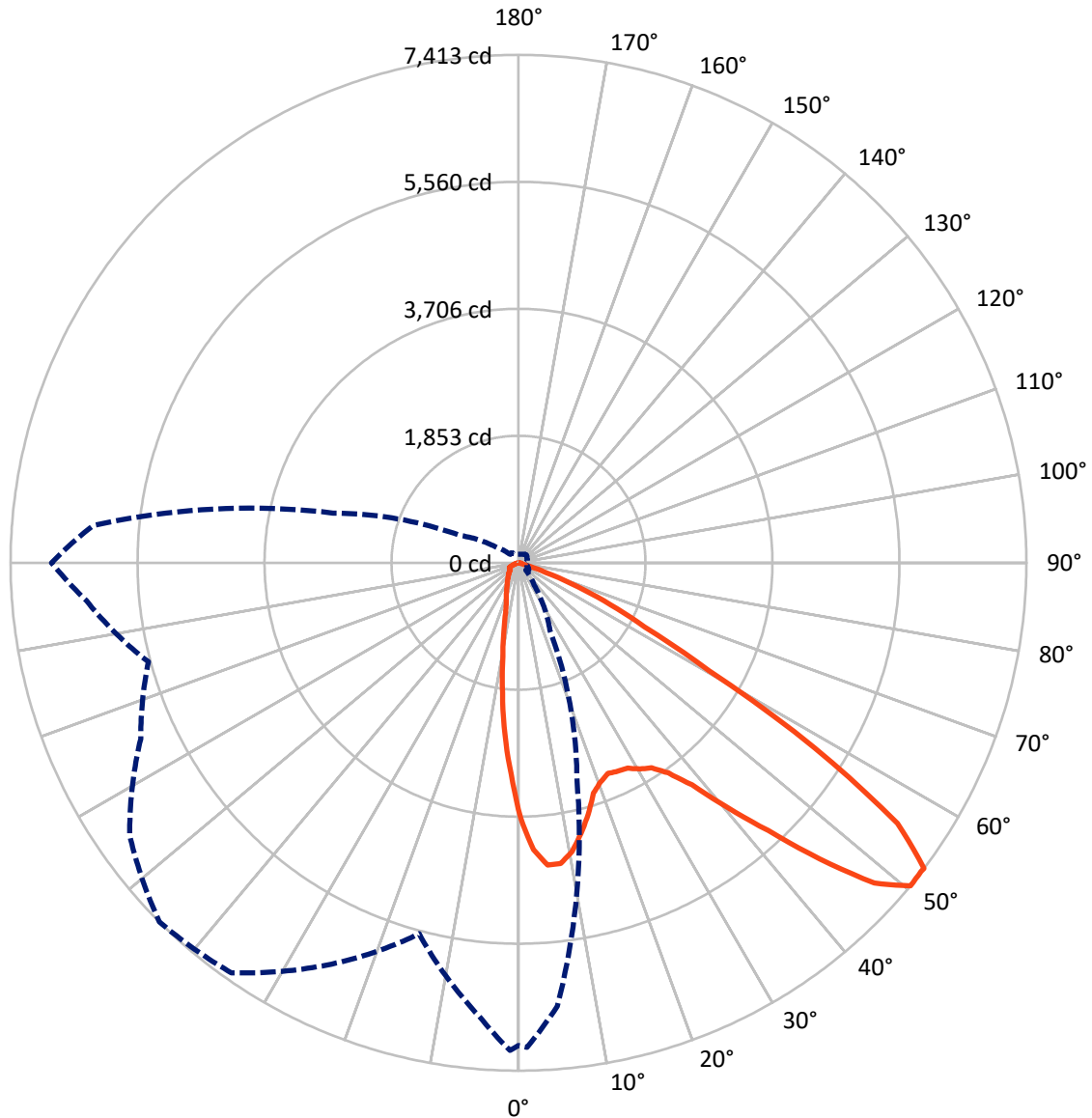
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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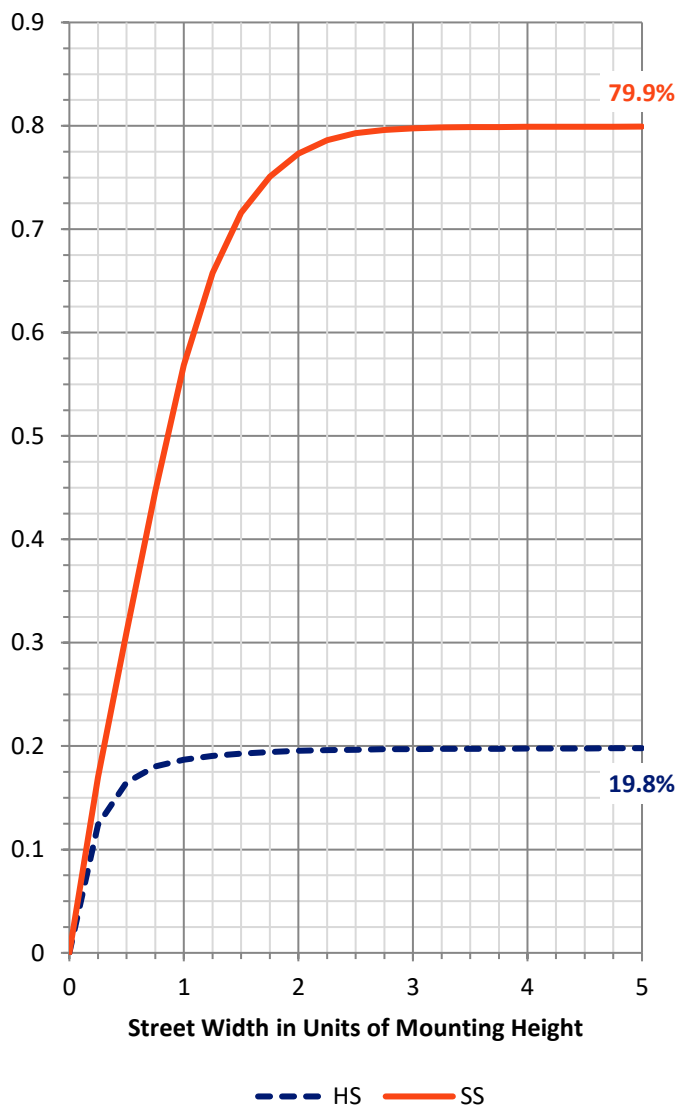
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1472.8	0.0	1472.8
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	5880.3	0.0	5880.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	7353.2	0.0	7353.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.8	3.7
10°-20°	540.2	7.3
20°-30°	811.5	11.0
30°-40°	1218.1	16.6
40°-50°	1712.0	23.3
50°-60°	1846.6	25.1
60°-70°	857.4	11.7
70°-80°	80.7	1.1
80°-90°	14.9	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°	7353.2	100.0
0°-180°	7353.2	100.0

**Coefficient of Utilization**



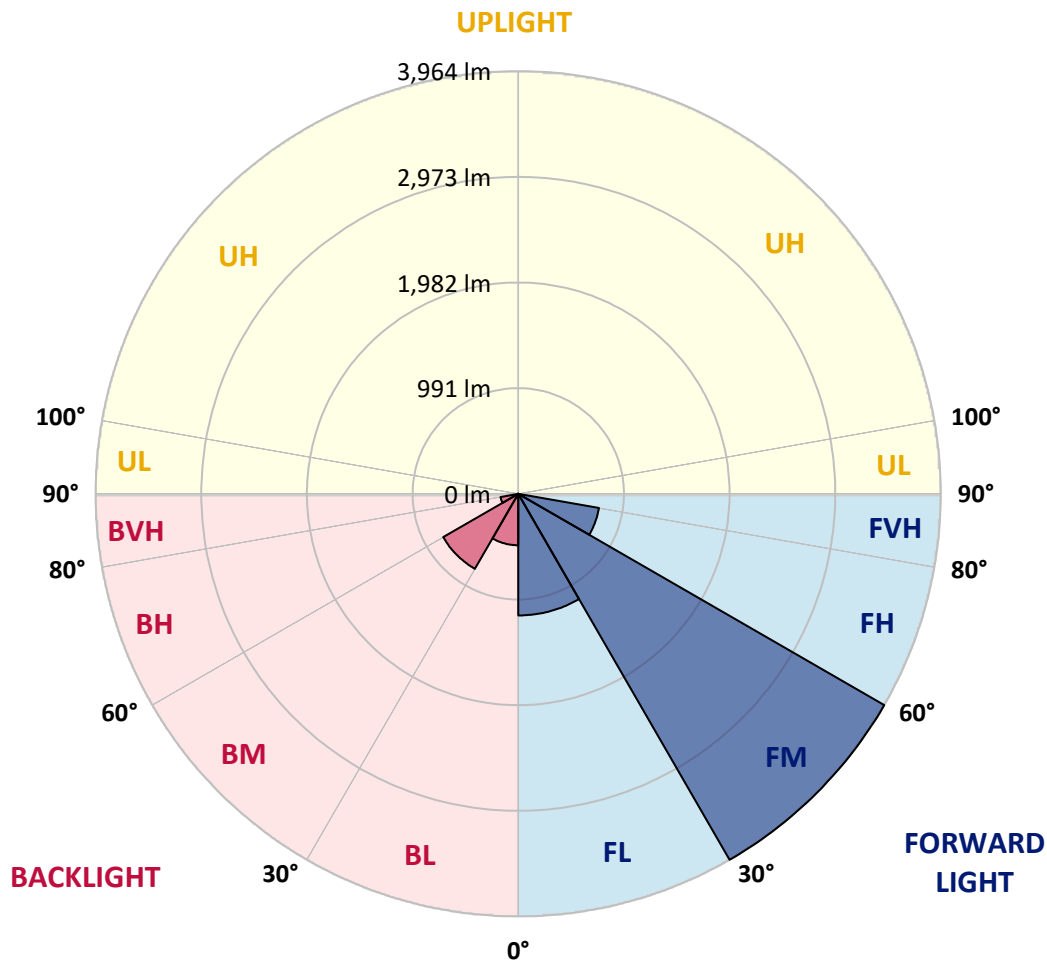
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.8	15.5			
FM (30°-60°)	3963.9	53.9			
FH (60°-80°)	768.9	10.5			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	482.8	6.6	B1/500		
BM (30°-60°)	812.8	11.1	B1/1000		
BH (60°-80°)	169.1	2.3	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0
2.5°	3876.3	3816.5	3740.6	3677.9	3584.6	3396.3	3345.3	3284.0	3232.9	3164.4	3068.1
5°	3524.8	3505.7	3470.7	3234.4	3063.7	2836.1	2649.4	2570.6	2467.0	2382.4	2321.1
7.5°	3256.3	3180.4	3069.5	2831.7	2558.9	2315.3	2108.1	1987.0	1849.9	1803.2	1720.1
10°	2968.9	2986.4	2823.0	2488.9	2159.2	1962.2	1833.9	1717.1	1593.1	1511.4	1393.3
12.5°	2877.0	2820.1	2694.6	2281.7	2000.2	1816.3	1660.3	1515.8	1384.5	1253.2	1139.4
15°	2936.8	2849.3	2674.2	2238.0	1877.6	1648.6	1453.1	1257.6	1136.5	968.7	850.6
17.5°	3151.3	3081.2	2846.4	2284.6	1814.9	1488.1	1197.8	996.4	811.2	659.4	599.6
20°	3508.7	3409.5	3114.8	2344.5	1721.5	1294.1	971.6	723.6	548.6	484.4	450.8
22.5°	3858.8	3804.8	3432.8	2459.7	1638.3	1121.9	729.4	487.3	410.0	398.3	376.4
25°	4525.5	4363.6	3918.6	2668.4	1574.1	960.0	550.0	392.4	347.2	338.5	341.4
27.5°	4922.3	4786.7	4368.0	2807.0	1502.7	835.9	465.4	360.3	329.7	310.8	303.5
30°	5303.1	5145.6	4591.2	2888.6	1349.5	704.6	412.9	345.8	338.5	310.8	302.0
32.5°	5596.4	5441.8	4913.6	3011.2	1286.8	620.1	339.9	269.9	251.0	248.0	274.3
35°	6045.7	5880.9	5189.3	3078.3	1238.6	576.3	294.7	240.7	218.8	210.1	211.6
37.5°	6464.4	6352.1	5444.7	3104.6	1187.6	563.1	264.0	216.0	196.9	191.1	189.6
40°	6814.6	6563.7	5686.9	3132.3	1165.7	538.3	245.1	196.9	183.8	175.1	175.1
42.5°	6975.0	6719.7	5958.2	3116.3	1159.9	498.9	245.1	180.9	170.7	161.9	160.5
45°	6940.0	6836.5	6079.3	3108.9	1159.9	459.5	223.2	176.6	161.9	150.3	147.4
47.5°	7030.5	6894.8	6231.0	3139.6	1136.5	431.8	188.2	185.3	153.2	138.6	135.7
50°	7046.5	7072.8	6495.1	3298.6	1085.4	396.8	147.4	182.4	147.4	125.4	122.5
52°	7151.6	6988.2	6575.3	3383.2	1031.4	370.6	124.0	156.1	141.5	116.7	113.8
52.5°	7007.1	7113.6	6594.3	3413.9	1037.3	353.1	119.6	153.2	138.6	116.7	109.4
55°	6845.2	6947.3	6517.0	3479.5	951.2	277.2	93.3	110.9	125.4	102.1	97.7
57.5°	5949.5	6053.0	5663.5	3186.3	774.7	195.5	77.4	83.2	110.9	94.8	90.4
60°	5288.5	5214.2	4753.1	2658.1	550.0	109.4	61.3	64.2	121.1	87.5	86.1
62.5°	4833.4	4674.4	3972.6	2052.7	335.5	73.0	48.2	49.6	93.3	81.7	81.7
65°	3575.8	3397.8	2639.2	1241.5	164.8	51.1	36.5	39.4	58.3	70.0	70.0
67.5°	2041.0	1972.5	1275.1	560.2	68.6	32.1	27.7	30.6	45.3	56.9	53.9
70°	938.1	841.8	490.2	118.2	32.1	21.8	21.8	24.8	36.5	42.3	39.4
72.5°	274.3	259.7	119.6	18.9	13.2	13.2	14.6	18.9	27.7	32.1	29.2
75°	20.4	13.2	8.8	5.9	5.9	8.8	11.7	18.9	27.7	30.6	24.8
77.5°	1.5	2.9	1.5	1.5	4.4	8.8	13.2	23.3	36.5	37.9	27.7
80°	1.5	1.5	0.0	1.5	4.4	8.8	14.6	26.2	40.9	43.8	23.3
82.5°	0.0	0.0	0.0	1.5	5.9	11.7	17.5	27.7	37.9	46.7	24.8
85°	0.0	0.0	0.0	1.5	8.8	16.1	20.4	7.3	4.4	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°	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0
2.5°	3136.6	3098.7	3084.2	3097.2	3092.9	3088.5	3168.7	3151.3	3148.4	3174.6	3168.7
5°	2354.7	2287.5	2471.4	2397.0	2474.3	2521.0	2529.7	2534.1	2588.1	2531.2	2605.6
7.5°	1677.7	1695.3	1693.8	1743.4	1832.4	1911.1	1957.9	1921.4	1918.4	1911.1	1879.0
10°	1340.7	1310.1	1304.2	1292.6	1320.3	1387.4	1444.3	1399.1	1367.0	1410.7	1397.7
12.5°	1095.7	1053.4	1030.0	983.3	984.8	1030.0	1030.0	1030.0	1062.1	1086.9	1105.8
15°	840.3	805.3	805.3	758.6	748.4	749.9	773.2	776.1	827.2	841.8	849.1
17.5°	588.0	569.0	590.9	609.8	598.1	601.1	609.8	612.8	620.1	614.2	628.8
20°	452.3	449.4	455.2	488.7	513.6	528.1	517.9	503.3	494.5	474.2	474.2
22.5°	383.7	389.5	399.7	427.4	459.5	468.3	456.6	423.1	396.8	393.9	395.3
25°	341.4	347.2	363.2	380.8	398.3	412.9	401.2	376.4	361.8	348.7	348.7
27.5°	315.2	318.1	326.8	339.9	354.5	366.2	361.8	348.7	332.6	326.8	313.7
30°	294.7	299.1	309.3	312.2	325.3	331.2	323.8	321.0	310.8	303.5	299.1
32.5°	284.5	283.1	290.3	293.2	294.7	299.1	290.3	294.7	293.2	281.6	277.2
35°	214.5	226.1	245.1	261.1	265.5	271.4	269.9	264.0	248.0	234.9	218.8
37.5°	192.5	199.9	210.1	223.2	240.7	248.0	245.1	230.5	211.6	202.8	199.9
40°	178.0	182.4	191.1	199.9	217.4	230.5	220.3	207.2	192.5	185.3	180.9
42.5°	164.8	166.3	170.7	179.5	192.5	213.0	195.5	178.0	172.2	167.8	164.8
45°	150.3	150.3	156.1	160.5	175.1	194.0	176.6	160.5	157.5	154.6	153.2
47.5°	138.6	140.1	143.0	148.8	160.5	173.6	161.9	148.8	141.5	140.1	137.1
50°	124.0	125.4	131.3	137.1	151.7	159.0	151.7	137.1	129.8	125.4	125.4
52°	112.4	116.7	122.5	134.2	144.5	156.1	147.4	131.3	122.5	118.2	115.3
52.5°	110.9	113.8	119.6	132.8	144.5	154.6	145.9	129.8	119.6	116.7	113.8
55°	99.2	103.6	113.8	129.8	143.0	154.6	143.0	128.4	113.8	106.5	103.6
57.5°	94.8	97.7	110.9	131.3	141.5	154.6	143.0	128.4	113.8	100.7	97.7
60°	90.4	96.3	110.9	126.9	140.1	156.1	144.5	126.9	110.9	94.8	94.8
62.5°	86.1	90.4	109.4	124.0	134.2	150.3	138.6	124.0	106.5	90.4	89.0
65°	74.4	81.7	96.3	103.6	115.3	129.8	118.2	108.0	93.3	80.3	78.8
67.5°	56.9	59.8	71.5	80.3	87.5	100.7	94.8	81.7	71.5	61.3	61.3
70°	39.4	42.3	51.1	55.4	62.7	70.0	65.6	55.4	48.2	42.3	40.9
72.5°	27.7	29.2	32.1	35.0	37.9	40.9	39.4	32.1	27.7	26.2	24.8
75°	21.8	24.8	26.2	24.8	23.3	21.8	21.8	18.9	16.1	14.6	14.6
77.5°	21.8	23.3	21.8	18.9	16.1	14.6	13.2	11.7	8.8	7.3	8.8
80°	18.9	18.9	18.9	16.1	14.6	13.2	11.7	10.2	8.8	7.3	7.3
82.5°	20.4	20.4	18.9	16.1	16.1	13.2	13.2	11.7	10.2	7.3	7.3
85°	0.0	0.0	0.0	2.9	7.3	13.2	13.2	11.7	10.2	8.8	8.8
87.5°	0.0	0.0	0.0	0.0	1.5	2.9	5.9	7.3	8.8	8.8	8.8
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°	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0
2.5°	3221.3	3276.7	3381.8	3486.8	3551.0	3626.9	3764.0	3836.9	3931.8	3978.4	4070.3
5°	2595.4	2726.7	2773.4	2893.0	3021.4	3149.8	3354.1	3578.7	3765.4	3893.9	4060.2
7.5°	1893.7	1924.3	2105.2	2185.4	2395.5	2628.9	2907.6	3190.6	3427.0	3637.0	3764.0
10°	1419.5	1531.9	1645.6	1798.9	1968.1	2208.8	2475.8	2787.9	3094.3	3304.4	3464.9
12.5°	1140.8	1229.9	1381.6	1546.4	1755.1	1914.1	2182.5	2491.8	2888.6	3094.3	3305.9
15°	863.6	977.5	1149.6	1320.3	1540.6	1708.3	1979.7	2369.3	2879.9	3162.9	3345.3
17.5°	640.5	717.8	872.4	1063.5	1288.2	1524.6	1890.7	2356.1	2977.7	3314.7	3502.8
20°	490.2	516.5	614.2	784.9	1028.5	1337.8	1746.3	2413.0	3266.5	3683.8	3874.8
22.5°	396.8	408.5	446.4	564.6	800.9	1174.4	1677.7	2452.4	3591.9	4125.8	4381.1
25°	345.8	342.9	367.6	418.7	625.9	1021.3	1590.2	2601.2	3990.1	4645.1	4874.3
27.5°	315.2	315.2	326.8	363.2	519.4	922.1	1534.8	2707.8	4391.3	5101.8	5225.8
30°	299.1	302.0	335.5	347.2	431.8	803.8	1442.8	2815.7	4775.0	5393.6	5564.3
32.5°	277.2	265.5	258.2	287.4	363.2	697.3	1351.0	2860.9	5085.7	5751.1	5896.9
35°	213.0	207.2	216.0	237.8	312.2	606.9	1248.8	2912.0	5443.2	6165.3	6194.5
37.5°	192.5	191.1	196.9	216.0	262.6	528.1	1175.9	2898.8	5716.0	6508.2	6429.4
40°	178.0	178.0	182.4	198.4	234.9	472.7	1100.0	2887.2	5980.1	6893.4	6662.9
42.5°	166.3	166.3	173.6	183.8	223.2	436.2	1043.1	2871.1	6201.8	7129.7	6800.0
45°	150.3	154.6	166.3	176.6	226.1	411.4	1000.8	2809.9	6277.7	7126.8	6734.3
47.5°	138.6	144.5	156.1	170.7	204.3	404.1	971.6	2755.8	6251.4	6951.7	6528.7
50°	125.4	132.8	148.8	173.6	173.6	389.5	941.0	2804.0	6232.4	6816.0	6331.7
52°	116.7	122.5	143.0	169.2	151.7	358.9	922.1	2897.4	6309.8	6798.6	6244.1
52.5°	115.3	119.6	138.6	166.3	144.5	353.1	908.9	2919.3	6334.6	6754.8	6303.9
55°	102.1	108.0	126.9	129.8	118.2	290.3	866.6	2968.9	6212.0	6668.7	6247.1
57.5°	96.3	99.2	112.4	106.5	102.1	218.8	745.5	2891.5	5517.6	5923.2	5812.3
60°	89.0	91.9	105.1	83.2	86.1	153.2	560.2	2510.8	4430.7	4935.5	5135.4
62.5°	86.1	84.6	99.2	67.1	73.0	110.9	395.3	2041.0	3413.9	4063.1	4408.8
65°	75.9	74.4	71.5	56.9	62.7	86.1	236.3	1332.0	2405.8	3073.9	3263.5
67.5°	58.3	61.3	52.5	45.3	52.5	67.1	131.3	596.7	1262.0	1844.0	1997.3
70°	40.9	43.8	42.3	39.4	46.7	55.4	75.9	204.3	522.3	968.7	1067.9
72.5°	24.8	30.6	32.1	33.6	40.9	48.2	53.9	65.6	138.6	342.9	426.0
75°	14.6	20.4	24.8	29.2	33.6	40.9	45.3	46.7	48.2	64.2	103.6
77.5°	10.2	14.6	21.8	27.7	33.6	40.9	48.2	51.1	48.2	45.3	48.2
80°	8.8	14.6	20.4	26.2	35.0	42.3	48.2	48.2	46.7	40.9	43.8
82.5°	8.8	14.6	21.8	27.7	33.6	40.9	46.7	48.2	43.8	40.9	42.3
85°	10.2	16.1	23.3	29.2	36.5	33.6	30.6	24.8	23.3	18.9	20.4
87.5°	10.2	14.6	14.6	16.1	17.5	17.5	17.5	16.1	13.2	11.7	11.7
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: P648328

CATALOG NUMBER: GALN-SA3B-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0	3729.0
2.5°	4074.7	4191.5	4187.1	4190.0	4172.5	4054.3	3997.4	3853.0	3893.9	3876.3
5°	4230.9	4346.1	4445.3	4433.7	4299.4	4138.9	3901.1	3676.4	3615.2	3524.8
7.5°	4074.7	4351.9	4443.8	4430.7	4232.3	4026.6	3647.3	3422.6	3316.1	3256.3
10°	3826.8	4147.7	4261.5	4284.8	4150.6	3838.4	3489.8	3129.3	3072.5	2968.9
12.5°	3685.2	3918.6	3988.7	4051.4	4004.7	3771.3	3370.1	3024.3	2945.6	2877.0
15°	3569.9	3708.5	3737.7	3809.2	3836.9	3711.5	3432.8	3138.1	2944.1	2936.8
17.5°	3676.4	3619.6	3513.1	3534.9	3622.5	3712.9	3594.8	3362.8	3174.6	3151.3
20°	3853.0	3602.0	3361.3	3415.3	3488.3	3765.4	3839.8	3676.4	3568.5	3508.7
22.5°	4055.8	3632.7	3313.2	3339.4	3478.0	3883.6	4236.7	4146.2	3944.9	3858.8
25°	4430.7	3717.3	3351.1	3368.6	3558.3	4048.5	4595.6	4662.7	4543.0	4525.5
27.5°	4796.9	3936.1	3434.2	3394.9	3599.1	4208.9	4812.9	5173.3	4963.2	4922.3
30°	4983.6	4114.1	3558.3	3491.2	3768.3	4306.7	4944.3	5505.9	5322.1	5303.1
32.5°	5269.6	4276.0	3654.6	3568.5	3863.2	4427.8	5189.3	5869.2	5691.2	5596.4
35°	5389.2	4452.6	3866.1	3765.4	4134.6	4597.0	5314.8	6193.1	6137.6	6045.7
37.5°	5619.7	4642.3	4115.6	4109.7	4462.8	4817.3	5541.0	6633.7	6623.5	6464.4
40°	5638.7	4849.4	4509.5	4693.3	4970.5	5201.0	5739.4	6756.2	6922.5	6814.6
42.5°	5667.9	5212.7	5190.8	5342.6	5580.4	5530.7	5746.7	6785.4	7039.2	6975.0
45°	5681.0	5576.0	5883.8	6163.9	6263.1	5962.5	5678.1	6730.0	7100.5	6940.0
47.5°	5576.0	5888.2	6444.0	6985.3	7014.4	6228.1	5648.9	6673.0	7137.0	7030.5
50°	5590.5	6083.7	6928.4	7412.7	7306.3	6463.0	5603.7	6638.0	7118.0	7046.5
52°	5555.5	6088.1	6997.0	7404.0	7329.6	6333.1	5526.3	6503.8	7100.5	7151.6
52.5°	5594.9	6061.8	6925.5	7409.8	7313.5	6397.3	5516.2	6578.2	7110.7	7007.1
55°	5459.2	5749.6	6506.7	6712.4	6697.9	5806.5	5202.5	6331.7	6843.7	6845.2
57.5°	4934.1	4983.6	5103.3	5098.9	5031.8	4565.0	4449.7	5822.5	6101.1	5949.5
60°	4347.5	3648.7	3326.3	3195.0	3120.6	3044.8	3936.1	5326.5	5352.7	5288.5
62.5°	3756.7	2529.7	2100.9	2064.4	2081.8	2359.0	3804.8	5129.5	4972.0	4833.4
65°	3031.6	1844.0	1526.0	1477.9	1648.6	1947.6	3079.8	3933.2	3691.1	3575.8
67.5°	1903.9	1345.1	1031.4	941.0	1146.7	1340.7	2023.5	2471.4	2200.1	2041.0
70°	1129.2	751.4	466.8	418.7	471.2	714.9	1133.5	1232.8	1019.8	938.1
72.5°	445.0	275.8	129.8	110.9	115.3	251.0	417.3	407.0	307.8	274.3
75°	119.6	83.2	45.3	36.5	30.6	46.7	67.1	43.8	16.1	20.4
77.5°	55.4	49.6	39.4	30.6	23.3	17.5	8.8	2.9	2.9	1.5
80°	48.2	42.3	36.5	30.6	23.3	14.6	7.3	1.5	1.5	1.5
82.5°	45.3	39.4	33.6	27.7	21.8	14.6	7.3	1.5	0.0	0.0
85°	18.9	24.8	27.7	26.2	23.3	14.6	7.3	1.5	0.0	0.0
87.5°	10.2	8.8	7.3	5.9	4.4	2.9	2.9	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)