

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: P647444

Luminaire Tested: **GALN-SA5D-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647444  
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-SA5D-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA 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: 16769.5 lumens  
Efficiency: N/A  
Efficacy: 54.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

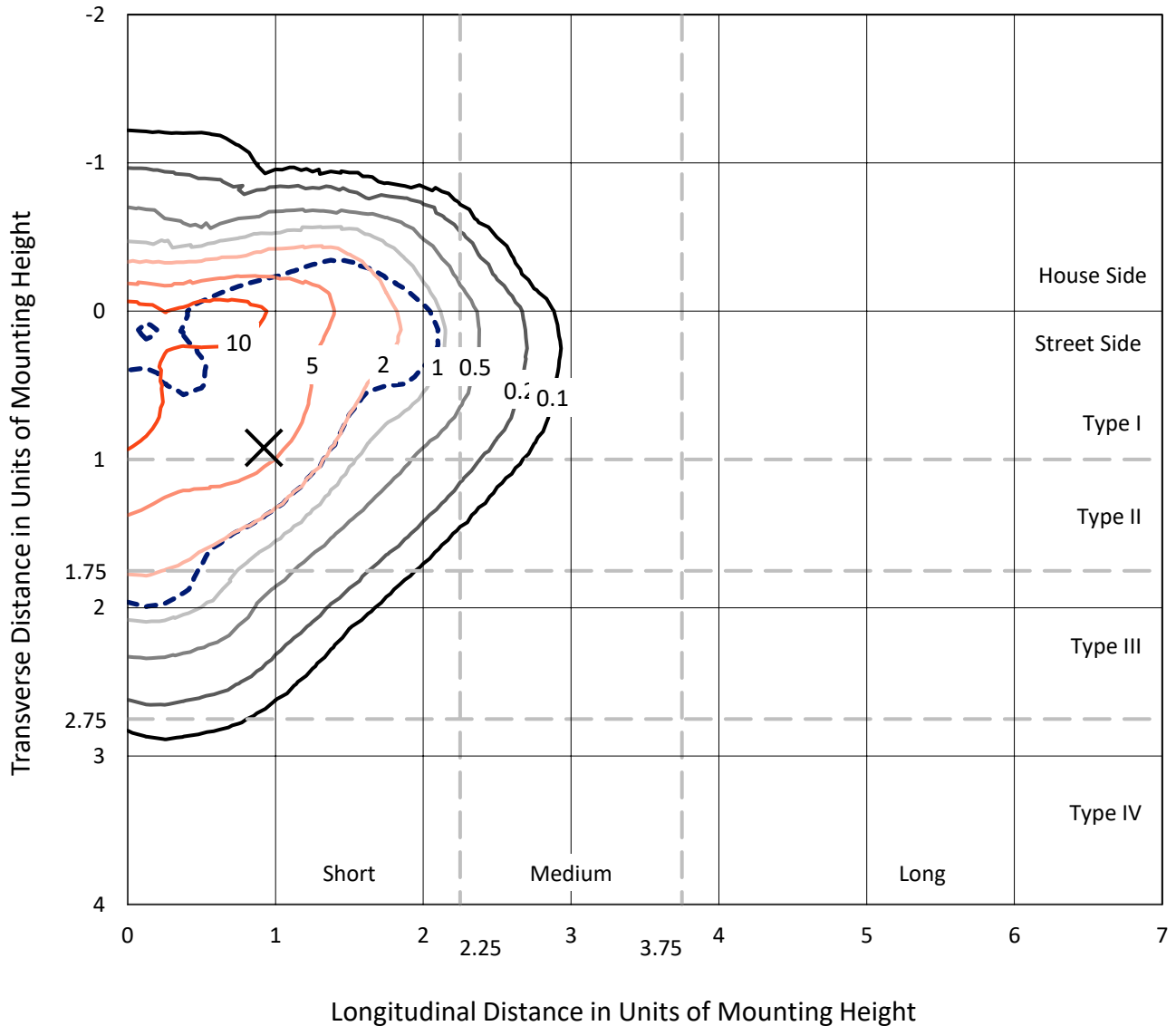
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

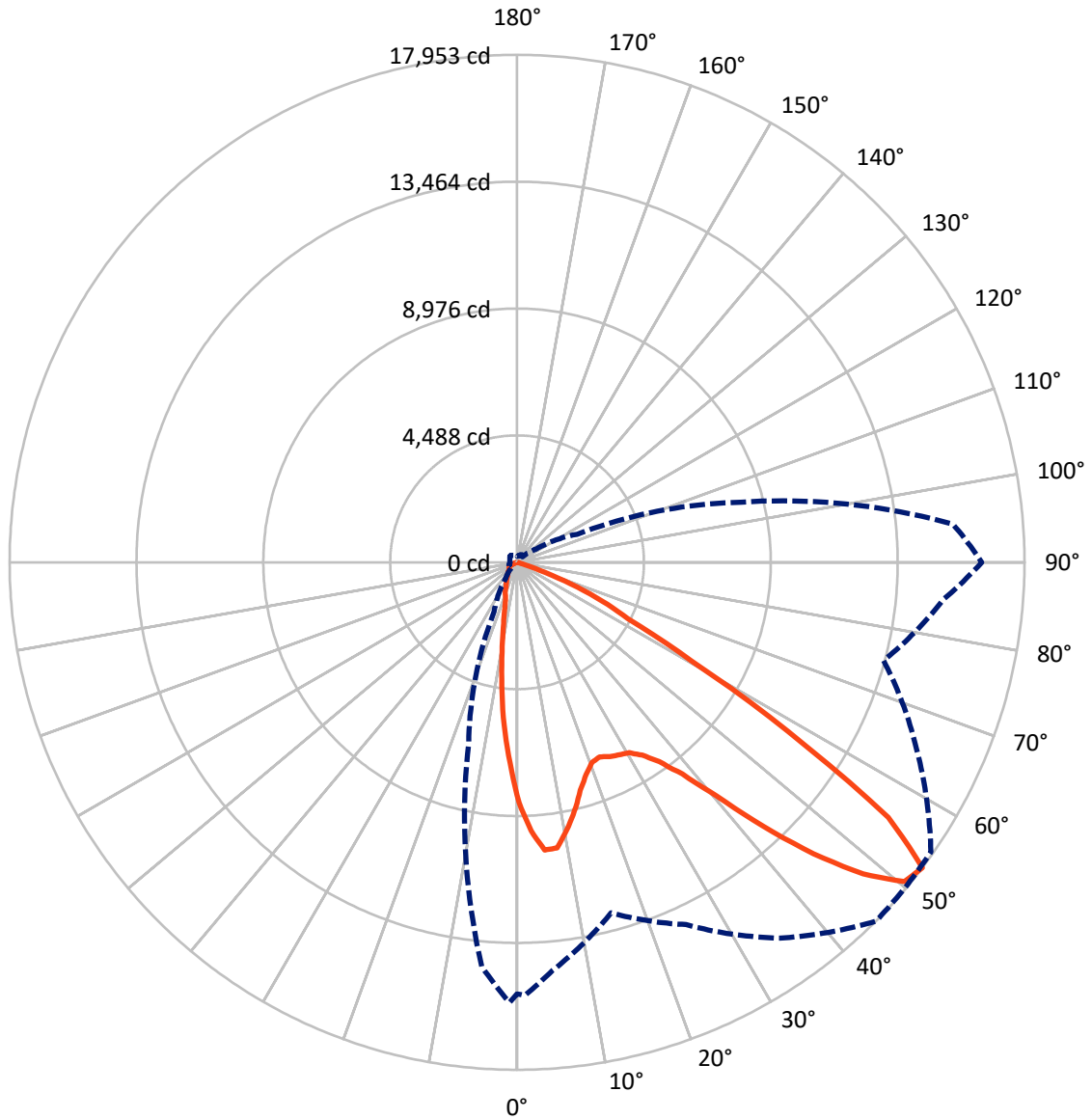
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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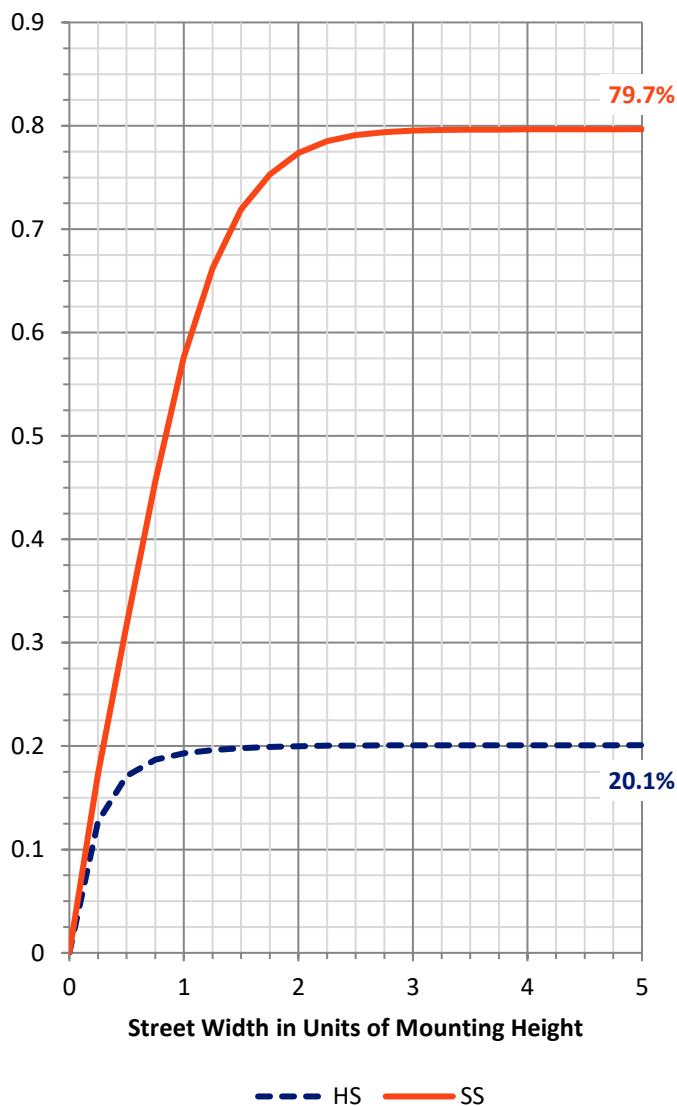
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3403.4	0.0	3403.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	13366.1	0.0	13366.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	16769.5	0.0	16769.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.1	3.7
10°-20°	1223.4	7.3
20°-30°	1861.9	11.1
30°-40°	2782.8	16.6
40°-50°	3963.0	23.6
50°-60°	4260.1	25.4
60°-70°	1887.7	11.3
70°-80°	152.7	0.9
80°-90°	17.8	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°	16769.5	100.0
0°-180°	16769.5	100.0

**Coefficient of Utilization**



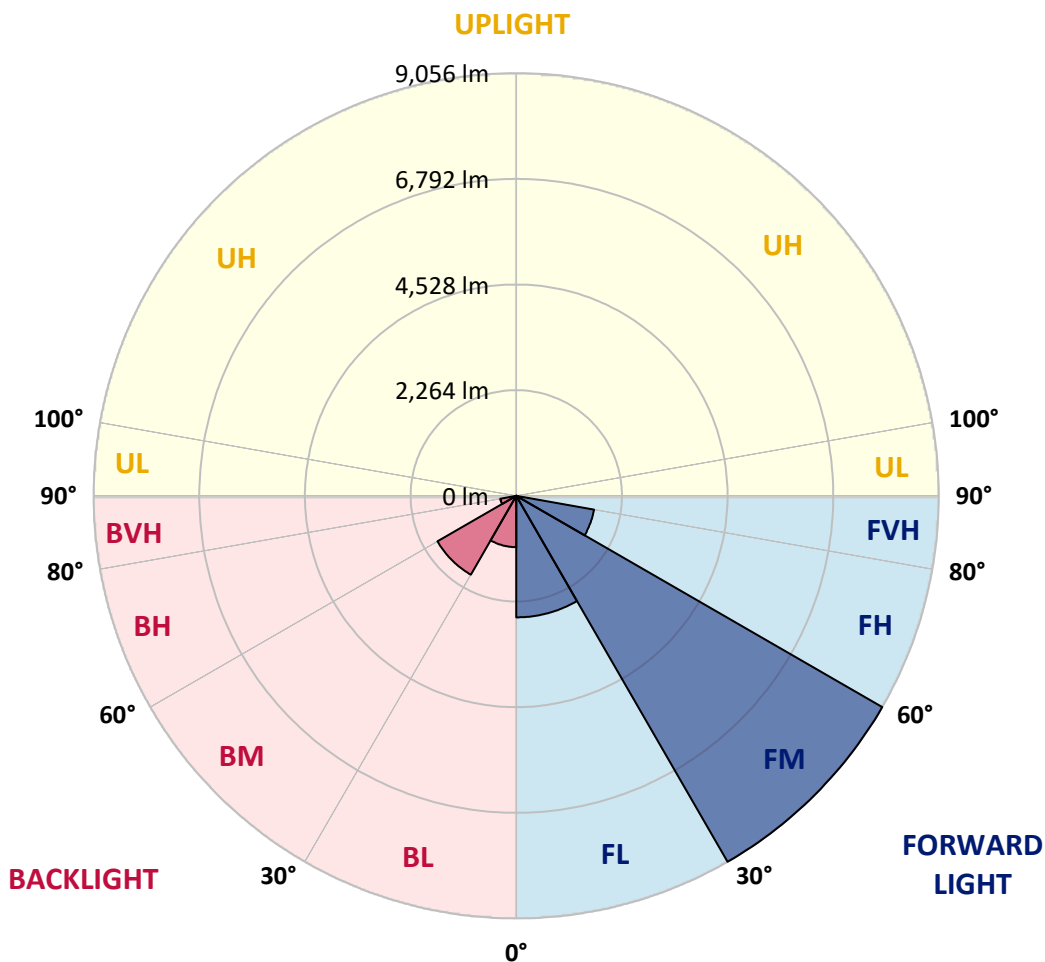
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2604.6	15.5			
FM (30°-60°)	9056.1	54.0			
FH (60°-80°)	1692.2	10.1			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1100.8	6.6	B3/2500		
BM (30°-60°)	1949.8	11.6	B2/2500		
BH (60°-80°)	348.2	2.1	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9
2.5°	8997.7	9024.1	9169.2	9350.6	9446.2	9663.9	9512.2	9551.7	9469.3	9179.0	8951.5
5°	8723.9	8720.6	8905.3	9353.9	9779.4	10211.4	10224.6	9993.7	9588.1	9142.8	8506.2
7.5°	7899.4	8027.9	8219.3	8935.0	9723.3	10046.5	10201.6	9931.1	9307.7	8671.1	7981.8
10°	7275.9	7342.0	7665.2	8529.3	9106.5	9538.6	9634.2	9479.2	9001.0	8206.1	7434.3
12.5°	6916.5	6949.4	7328.7	8054.3	8664.5	8984.5	9030.7	9103.2	8760.2	8014.8	7088.0
15°	6919.8	6946.1	7457.4	8064.3	8305.0	8219.3	8371.0	8367.7	8516.1	7978.5	7378.2
17.5°	7417.8	7447.5	7909.2	8209.4	8103.8	7902.7	7892.7	8044.5	8357.8	8430.3	7816.8
20°	8275.4	8344.6	8684.3	8667.8	8074.1	7668.5	7556.3	7671.8	8400.7	8813.0	8700.9
22.5°	9429.7	9525.4	9762.8	9307.7	8209.4	7510.1	7473.9	7698.1	8684.3	9667.2	9703.5
25°	10768.8	10930.4	11045.9	10462.1	8690.9	7783.9	7612.4	7998.3	9066.9	10594.0	10979.9
27.5°	11656.1	11824.2	11797.9	10963.4	9014.1	7856.5	7711.4	8070.9	9400.1	10815.0	11646.2
30°	12348.7	12451.0	12635.7	11233.9	9337.4	8061.0	7813.6	8377.6	9508.9	11197.6	12451.0
32.5°	13156.7	13226.0	13239.2	11712.1	9835.4	8318.2	8130.2	8760.2	9990.5	11563.7	13163.4
35°	13971.5	14073.7	13859.3	12302.5	10142.1	8796.5	8657.9	9423.2	10376.3	11943.0	13948.4
37.5°	14855.4	14908.2	14413.4	12546.6	10580.8	9574.8	9499.0	10138.8	11045.9	12629.1	14819.1
40°	15597.5	15646.9	15003.8	12846.8	11042.6	10663.3	10857.9	11504.3	11956.2	13074.3	15254.5
42.5°	16009.8	16125.2	15201.7	12681.9	11969.4	11896.8	12760.9	12988.6	13011.7	13199.7	15643.6
45°	16121.9	16069.1	14875.2	12817.1	12780.8	13925.3	14710.2	15010.4	14060.5	13430.6	15742.6
47.5°	15604.1	15673.3	14393.7	12698.3	13846.1	15462.3	16478.2	17035.5	14842.2	13229.3	15498.5
50°	15185.2	15096.2	14238.6	12612.6	14133.1	16187.9	17754.5	17879.9	15561.2	13476.7	15231.4
52.5°	15267.6	15323.7	14486.0	12840.1	14139.6	16230.7	17952.5	17866.7	15584.3	13420.6	15135.7
55°	15442.5	15195.1	14380.4	12338.8	13193.1	15033.4	15933.9	15802.0	14383.7	12823.7	14901.6
57.5°	13325.0	13707.6	13222.8	11016.2	10828.2	11326.3	11309.7	11715.4	10729.2	11036.0	13565.8
60°	10815.0	10881.0	11062.4	9423.2	7493.6	7322.1	7084.7	6827.4	7219.9	9436.3	12338.8
62.5°	9512.2	9433.0	10079.5	8572.2	5290.4	4429.6	4390.0	4548.3	5570.7	9001.0	11573.6
65°	6913.2	7012.1	7480.5	6652.6	3971.1	3380.7	3321.3	3789.7	4508.7	7213.3	8832.7
67.5°	4221.8	4413.1	4456.0	4103.1	2694.7	2140.6	2054.8	2480.3	3255.4	4667.1	5178.3
70°	1949.3	2180.2	2397.9	2239.5	1560.0	880.6	831.2	1042.3	1642.5	2684.8	2747.5
72.5°	590.4	593.7	831.2	867.4	504.6	197.9	174.8	230.9	557.4	887.2	933.4
75°	42.9	46.2	112.1	128.6	95.7	49.5	52.8	62.6	118.7	197.9	148.5
77.5°	3.3	3.3	3.3	16.5	29.7	33.0	42.9	49.5	62.6	72.6	65.9
80°	3.3	0.0	3.3	13.2	23.1	33.0	39.5	46.2	49.5	56.1	49.5
82.5°	0.0	0.0	0.0	9.9	23.1	33.0	36.3	49.5	56.1	65.9	56.1
85°	0.0	0.0	0.0	9.9	23.1	36.3	33.0	16.5	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°	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9
2.5°	8991.0	8862.5	8568.9	8420.5	8070.9	8021.4	7678.3	7622.3	7506.9	7444.2	7292.5
5°	8225.9	8070.9	7592.6	7190.2	6721.9	6395.3	6144.7	5917.1	5785.1	5663.1	5719.2
7.5°	7602.5	7150.7	6619.6	5946.8	5405.8	5056.2	4673.6	4360.3	4175.6	4050.3	4080.0
10°	6949.4	6655.9	5917.1	5161.8	4508.7	4261.3	3961.2	3720.4	3459.8	3235.6	3130.0
12.5°	6744.9	6309.6	5382.7	4614.3	4119.5	3878.7	3535.7	3258.7	2925.5	2651.8	2556.2
15°	6781.2	6362.3	5237.6	4416.4	3832.6	3417.0	3008.1	2665.0	2298.9	2107.6	2008.6
17.5°	7371.6	6646.0	5333.3	4208.5	3433.5	2856.3	2351.7	1916.3	1642.5	1444.6	1401.7
20°	8097.2	7259.5	5537.8	4056.9	3106.9	2272.5	1718.4	1342.4	1114.8	1081.8	1071.9
22.5°	9159.3	8262.1	5976.5	3954.6	2707.8	1771.1	1177.5	976.3	913.6	907.0	910.3
25°	10643.5	9518.8	6454.7	3868.9	2407.7	1365.5	963.1	827.9	808.1	798.2	814.6
27.5°	11286.6	10277.4	6708.7	3684.2	2134.0	1230.2	949.9	821.3	765.2	748.7	758.6
30°	12081.5	10782.0	7107.8	3367.5	1731.6	1012.6	887.2	893.8	867.4	785.0	758.6
32.5°	13137.0	11412.0	7308.9	3143.3	1546.9	837.7	649.7	597.0	666.3	679.4	702.5
35°	13813.1	12051.9	7411.2	3011.3	1451.2	715.7	550.8	501.4	484.8	488.1	501.4
37.5°	15069.8	12916.0	7539.8	2872.7	1378.7	623.3	498.1	451.9	428.8	428.8	442.0
40°	15821.8	13602.0	7714.7	2797.0	1306.1	567.3	451.9	412.2	392.5	392.5	399.1
42.5°	16009.8	13941.8	7655.2	2770.6	1223.7	554.1	412.2	382.6	359.5	356.2	352.9
45°	16346.2	14459.6	7665.2	2740.9	1137.9	504.6	389.2	356.2	323.2	319.9	316.6
47.5°	16715.6	14832.3	7685.0	2625.4	1055.4	422.2	405.7	329.8	290.3	283.7	283.7
50°	16399.0	15129.1	7856.5	2510.0	949.9	343.0	399.1	310.1	257.3	247.3	250.6
52.5°	16438.5	15478.7	8219.3	2348.4	818.0	273.7	323.2	293.5	234.2	217.7	221.0
55°	15805.2	15109.3	8268.7	2176.8	639.9	211.1	247.3	257.3	197.9	191.3	191.3
57.5°	13605.3	12794.0	7295.8	1764.6	422.2	174.8	178.1	224.3	171.5	164.9	168.2
60°	11642.9	10270.8	5870.9	1164.3	263.9	138.5	128.6	227.6	151.7	148.5	158.3
62.5°	10613.8	8440.3	4452.7	722.3	181.4	105.5	89.0	184.7	131.9	131.9	145.1
65°	7668.5	5669.7	2589.1	379.3	128.6	82.4	65.9	105.5	108.8	112.1	118.7
67.5°	4749.5	2862.9	1091.7	184.7	85.7	56.1	42.9	65.9	72.6	72.6	79.2
70°	2345.1	1141.2	362.8	105.5	65.9	46.2	29.7	36.3	36.3	33.0	36.3
72.5°	725.6	343.0	92.3	65.9	46.2	29.7	16.5	13.2	6.6	0.0	3.3
75°	82.4	65.9	59.4	46.2	29.7	13.2	3.3	0.0	0.0	0.0	0.0
77.5°	49.5	56.1	56.1	46.2	29.7	9.9	0.0	0.0	0.0	0.0	0.0
80°	39.5	42.9	46.2	42.9	26.4	13.2	0.0	0.0	0.0	0.0	0.0
82.5°	49.5	56.1	62.6	56.1	36.3	16.5	6.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.9	3.3	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°	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9
2.5°	7229.8	7157.2	7259.5	7107.8	7104.5	7107.8	7064.9	7025.3	7088.0	7256.1	7272.7
5°	5518.0	5673.0	5722.5	5884.1	5795.1	5663.1	5689.5	5600.5	5818.2	5913.8	5837.9
7.5°	4017.3	4007.4	4340.5	4360.3	4403.2	4406.5	4399.9	4225.1	4046.9	4086.6	4205.3
10°	3116.9	2948.6	3110.2	3093.8	3199.3	3169.7	3212.5	3024.5	3087.2	3087.2	3163.0
12.5°	2539.7	2361.5	2331.9	2289.0	2331.9	2348.4	2364.8	2328.6	2434.1	2483.6	2536.4
15°	1939.4	1840.4	1814.1	1731.6	1744.8	1791.0	1830.5	1847.0	1814.1	1889.9	1896.5
17.5°	1408.4	1405.1	1421.5	1418.2	1405.1	1395.1	1391.9	1349.0	1335.8	1342.4	1368.8
20°	1068.6	1095.0	1151.1	1207.2	1236.8	1200.6	1151.1	1078.5	1048.8	1055.4	1058.8
22.5°	913.6	953.2	1029.1	1091.7	1121.4	1055.4	966.4	903.7	890.5	887.2	883.9
25°	827.9	874.1	930.1	949.9	946.6	907.0	841.0	814.6	808.1	801.5	771.8
27.5°	781.7	798.2	808.1	831.2	841.0	814.6	798.2	758.6	752.0	752.0	732.2
30°	755.3	745.4	758.6	742.1	755.3	735.6	738.8	738.8	722.3	728.9	728.9
32.5°	702.5	705.8	705.8	672.8	682.8	659.7	682.8	702.5	705.8	709.2	735.6
35°	514.5	573.9	603.6	603.6	613.5	597.0	593.7	570.6	540.9	511.2	498.1
37.5°	451.9	475.0	514.5	537.6	554.1	540.9	511.2	475.0	458.4	445.3	432.1
40°	402.4	422.2	448.6	475.0	507.9	491.4	445.3	428.8	409.0	409.0	395.8
42.5°	362.8	372.7	389.2	428.8	465.0	432.1	399.1	385.9	376.0	372.7	369.4
45°	326.5	329.8	346.3	379.3	422.2	389.2	356.2	339.7	343.0	346.3	343.0
47.5°	293.5	300.1	310.1	349.6	376.0	359.5	323.2	313.4	313.4	313.4	316.6
50°	254.0	270.4	290.3	323.2	343.0	333.1	303.4	290.3	283.7	283.7	287.0
52.5°	227.6	240.8	267.2	306.7	333.1	316.6	287.0	267.2	254.0	250.6	257.3
55°	197.9	221.0	263.9	293.5	329.8	313.4	280.3	257.3	234.2	230.9	230.9
57.5°	178.1	214.4	254.0	290.3	319.9	306.7	280.3	250.6	221.0	217.7	217.7
60°	168.2	207.8	247.3	280.3	319.9	300.1	277.0	244.1	211.1	211.1	207.8
62.5°	158.3	194.6	234.2	267.2	306.7	290.3	267.2	234.2	201.2	201.2	194.6
65°	131.9	168.2	194.6	224.3	267.2	250.6	227.6	204.5	178.1	171.5	174.8
67.5°	92.3	115.4	141.8	171.5	197.9	191.3	181.4	164.9	141.8	138.5	135.2
70°	46.2	62.6	85.7	115.4	138.5	131.9	125.4	112.1	99.0	95.7	95.7
72.5°	6.6	19.8	36.3	52.8	72.6	75.9	72.6	69.3	65.9	62.6	65.9
75°	0.0	0.0	0.0	13.2	29.7	36.3	42.9	49.5	49.5	42.9	52.8
77.5°	0.0	0.0	0.0	0.0	3.3	16.5	33.0	42.9	52.8	46.2	62.6
80°	0.0	0.0	0.0	0.0	3.3	19.8	33.0	46.2	52.8	46.2	65.9
82.5°	0.0	0.0	0.0	0.0	3.3	23.1	33.0	42.9	49.5	46.2	59.4
85°	0.0	0.0	0.0	0.0	9.9	19.8	13.2	6.6	3.3	3.3	9.9
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: P647444

CATALOG NUMBER: GALN-SA5D-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9	8502.9
2.5°	7365.1	7599.2	7849.9	7945.5	8242.3	8466.7	8618.3	8944.9	8994.4	8997.7
5°	5917.1	6035.8	6464.6	6665.8	7107.8	7450.8	7816.8	8344.6	8697.5	8723.9
7.5°	4205.3	4535.1	4716.5	5240.9	5785.1	6322.8	6867.0	7480.5	7889.4	7899.4
10°	3384.0	3598.4	3921.7	4314.1	4772.6	5320.1	6045.7	6758.2	7173.7	7275.9
12.5°	2724.4	3100.4	3469.8	3875.5	4225.1	4637.4	5419.1	6368.9	6712.0	6916.5
15°	2097.7	2440.7	2876.1	3351.0	3746.8	4297.7	5188.2	6273.3	6850.5	6919.8
17.5°	1546.9	1853.6	2256.0	2704.6	3298.2	4080.0	5227.8	6758.2	7302.3	7417.8
20°	1111.5	1289.6	1606.2	2127.4	2882.7	3826.0	5267.3	7249.6	8077.4	8275.4
22.5°	880.6	953.2	1161.0	1622.8	2417.6	3558.8	5547.7	8189.6	9142.8	9429.7
25°	765.2	804.8	903.7	1279.7	2124.0	3532.4	5996.2	9317.6	10561.0	10768.8
27.5°	738.8	745.4	831.2	1174.2	1965.8	3357.7	6167.8	10119.1	11445.0	11656.1
30°	778.4	883.9	890.5	992.8	1672.3	3011.3	6256.8	10894.2	12193.7	12348.7
32.5°	672.8	639.9	663.0	768.5	1471.0	2810.1	6425.0	11570.3	13047.9	13156.7
35°	468.4	491.4	544.2	666.3	1286.3	2599.0	6467.9	12315.7	13859.3	13971.5
37.5°	432.1	445.3	488.1	567.3	1131.3	2480.3	6408.5	12859.9	14700.4	14855.4
40°	402.4	418.9	442.0	514.5	1015.9	2348.4	6326.1	13351.4	15214.9	15597.5
42.5°	379.3	392.5	412.2	491.4	916.9	2216.4	6210.6	14044.0	15676.7	16009.8
45°	352.9	372.7	395.8	478.3	860.8	2127.4	6124.9	14001.1	15943.8	16121.9
47.5°	326.5	359.5	385.9	445.3	844.4	2084.5	6161.2	13839.5	15726.1	15604.1
50°	300.1	343.0	389.2	369.4	804.8	1998.8	6204.0	14060.5	15208.3	15185.2
52.5°	277.0	326.5	362.8	303.4	715.7	1916.3	6619.6	14350.7	15574.4	15267.6
55°	244.1	293.5	290.3	244.1	580.5	1853.6	6946.1	14357.3	15327.0	15442.5
57.5°	221.0	260.6	227.6	204.5	428.8	1550.2	6415.1	12038.6	13120.5	13325.0
60°	204.5	254.0	171.5	161.6	280.3	1118.1	5600.5	9324.2	10429.1	10815.0
62.5°	188.0	240.8	135.2	131.9	194.6	794.9	4604.4	7803.7	8987.7	9512.2
65°	164.9	171.5	108.8	102.3	138.5	428.8	2803.5	5372.9	6718.5	6913.2
67.5°	135.2	131.9	89.0	82.4	92.3	207.8	1236.8	2691.4	3895.3	4221.8
70°	108.8	108.8	75.9	65.9	65.9	95.7	323.2	1071.9	1761.3	1949.3
72.5°	79.2	82.4	59.4	52.8	49.5	46.2	52.8	214.4	461.7	590.4
75°	69.3	72.6	59.4	46.2	36.3	29.7	23.1	19.8	26.4	42.9
77.5°	75.9	75.9	62.6	42.9	33.0	23.1	13.2	6.6	6.6	3.3
80°	95.7	99.0	82.4	56.1	39.5	26.4	16.5	6.6	3.3	3.3
82.5°	102.3	112.1	92.3	69.3	49.5	29.7	16.5	3.3	0.0	0.0
85°	26.4	42.9	72.6	62.6	49.5	29.7	16.5	3.3	0.0	0.0
87.5°	0.0	3.3	9.9	9.9	13.2	13.2	9.9	3.3	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)