

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: P648495

Luminaire Tested: **GALN-SA6B-835-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18973.6 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 243  
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

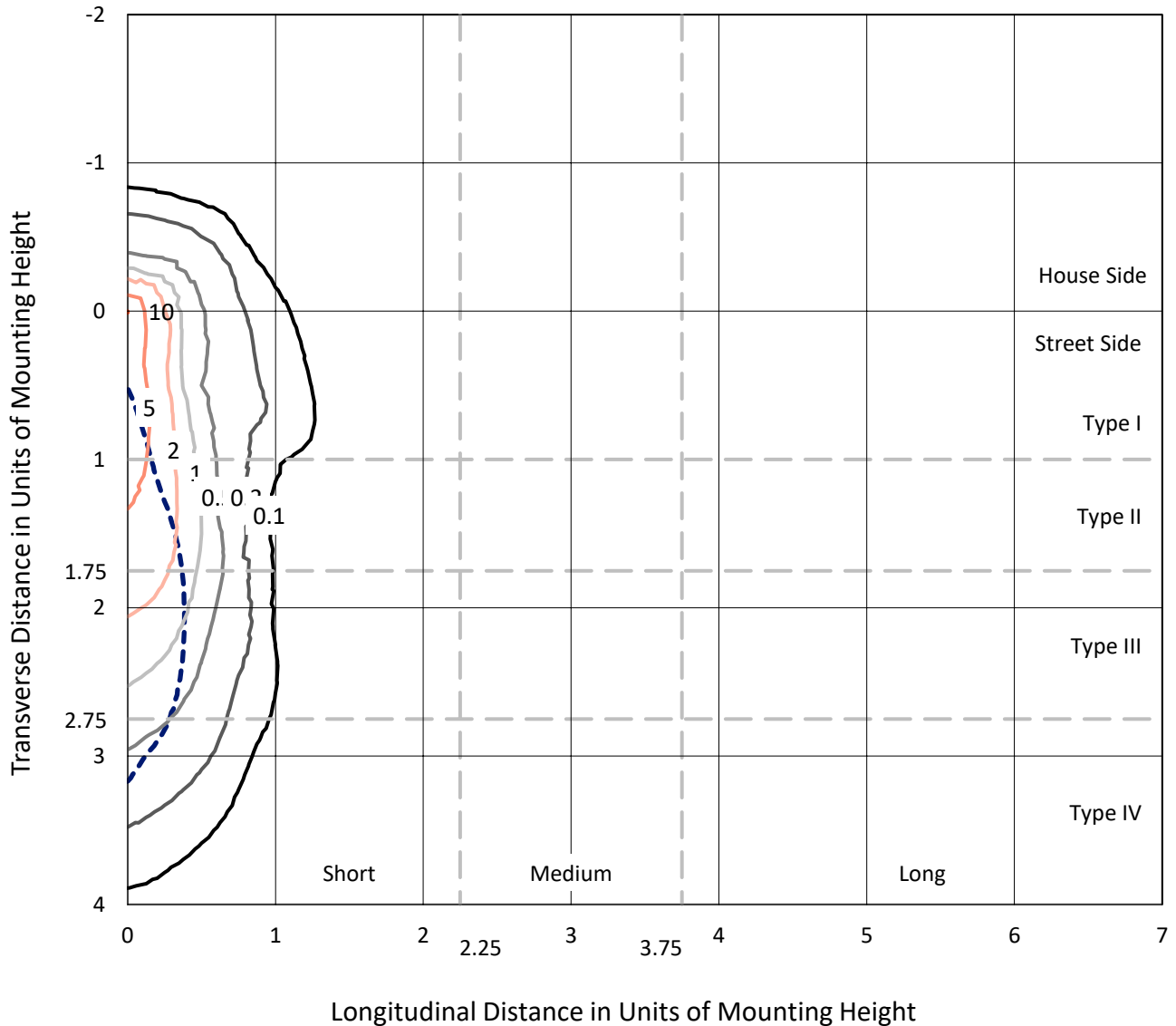




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### Iso-Footcandle Lines of Horizontal Illumination

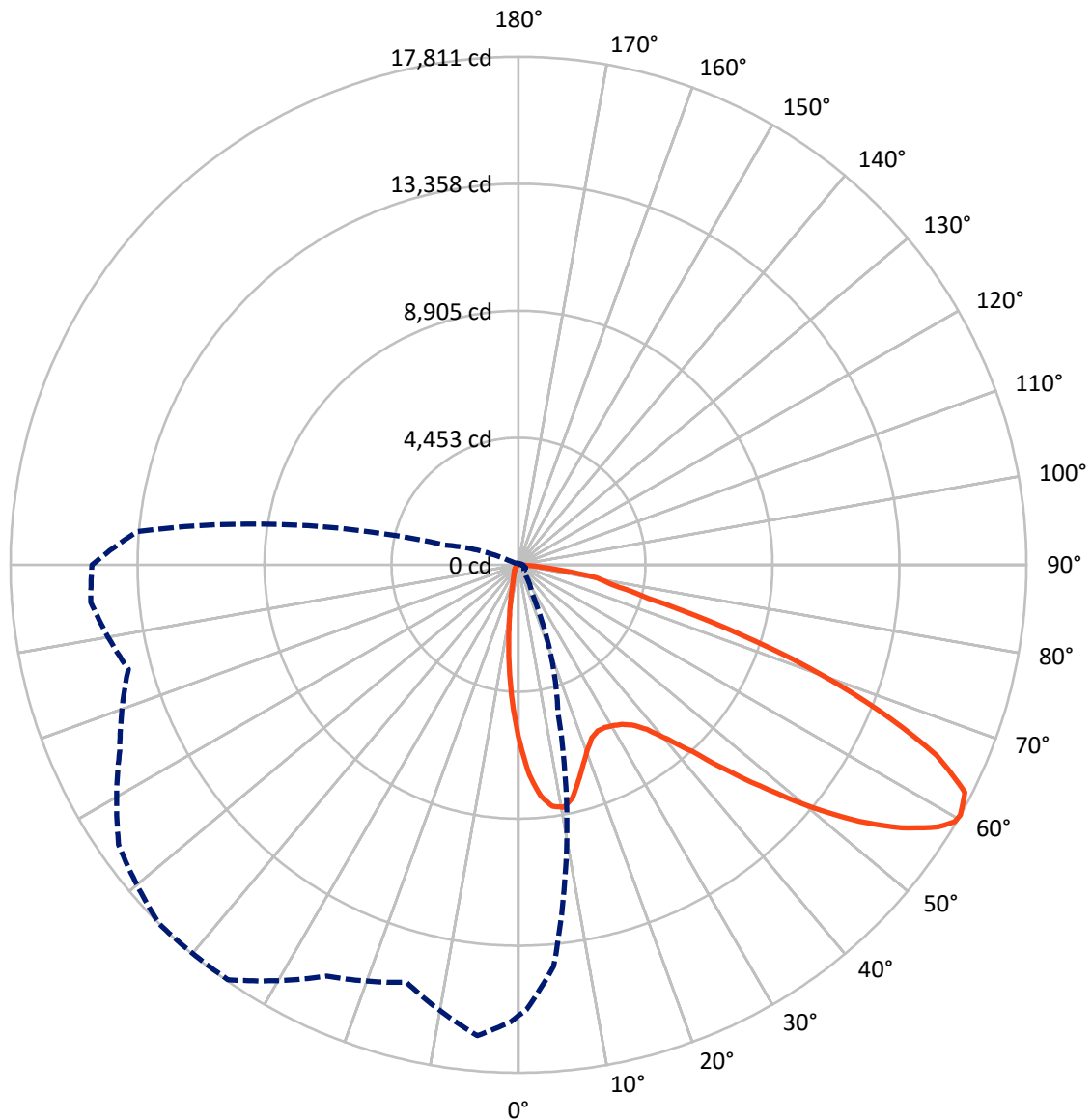
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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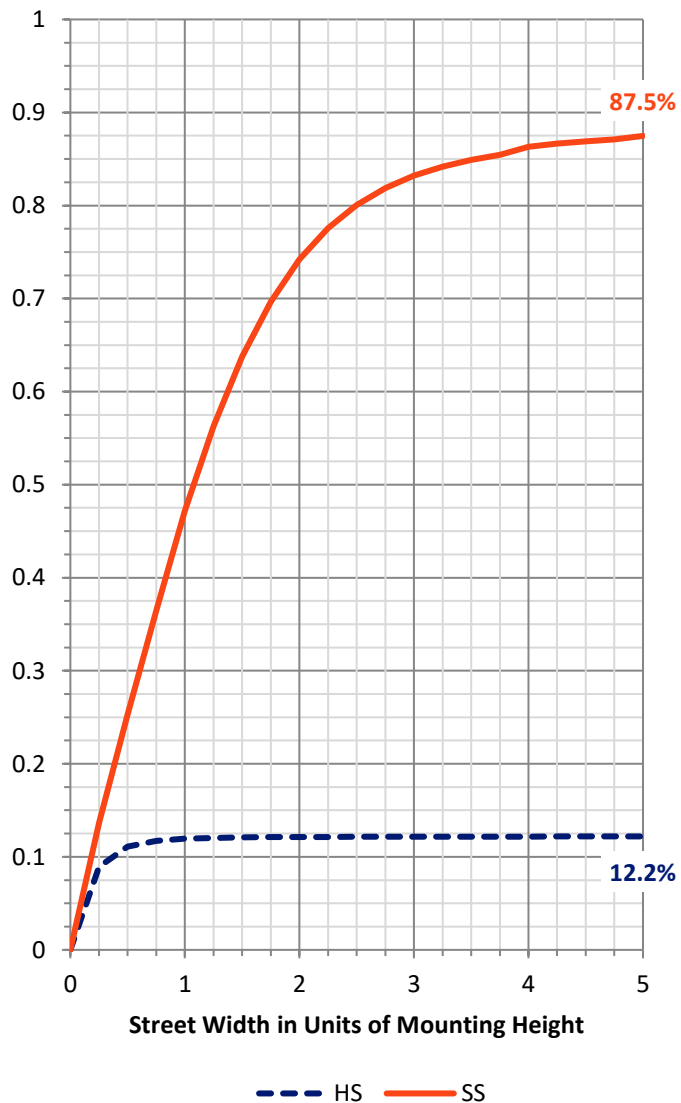
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2340.2	0.0	2340.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	16633.4	0.0	16633.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	18973.6	0.0	18973.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.4	2.5
10°-20°	926.3	4.9
20°-30°	1358.2	7.2
30°-40°	2019.9	10.6
40°-50°	2939.6	15.5
50°-60°	4239.2	22.3
60°-70°	4662.6	24.6
70°-80°	2088.5	11.0
80°-90°	272.9	1.4
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°	18973.6	100.0
0°-180°	18973.6	100.0

**Coefficient of Utilization**



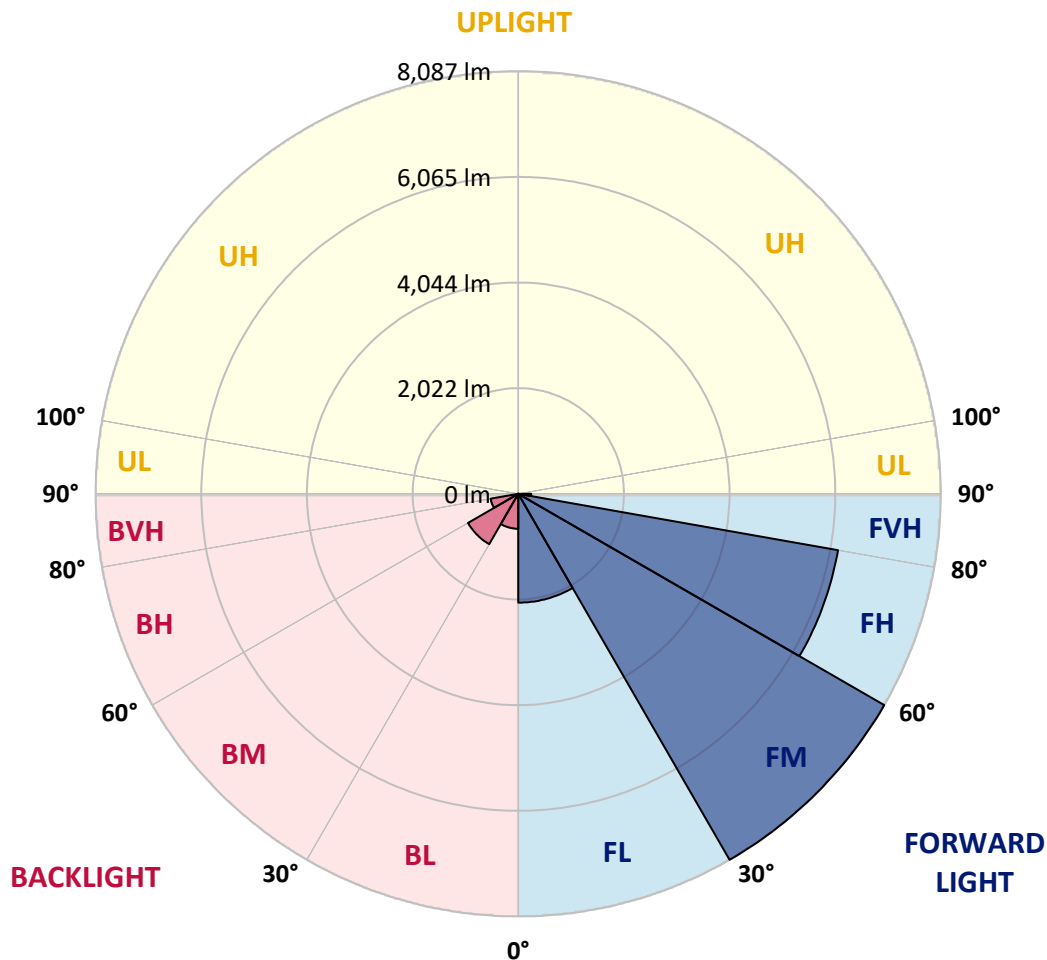
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2082.3	11.0			
FM	(30°-60°)	8087.2	42.6			
FH	(60°-80°)	6214.4	32.8			G3/7500
FVH	(80°-90°)	249.6	1.3			G3/500
BL	(0°-30°)	668.7	3.5	B2/1000		
BM	(30°-60°)	1111.5	5.9	B2/2500		
BH	(60°-80°)	536.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	23.3	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0
2.5°	6894.2	6863.9	6794.6	6584.0	6400.9	6161.4	5919.2	5728.7	5611.9	5397.1	5299.0
5°	6679.2	6693.6	6493.2	6060.5	5578.8	5249.9	4890.8	4605.2	4290.8	4091.8	3882.7
7.5°	6118.2	6089.3	5871.6	5268.7	4683.1	4207.1	3752.8	3383.6	3151.4	2965.4	2809.6
10°	5637.9	5616.3	5337.9	4562.0	3933.1	3576.9	3269.7	2946.6	2697.0	2424.5	2206.7
12.5°	5336.5	5287.4	4967.3	4156.6	3644.6	3313.0	2978.3	2642.2	2297.6	2022.1	1758.1
15°	5235.5	5164.8	4808.6	4016.8	3460.1	3038.9	2619.2	2232.6	1836.1	1531.7	1332.7
17.5°	5418.7	5301.8	4922.6	3992.3	3239.3	2681.2	2164.8	1661.5	1249.0	1016.8	894.2
20°	5838.4	5704.2	5211.0	3967.7	2994.2	2280.3	1645.6	1174.0	864.0	737.0	669.2
22.5°	6461.5	6276.8	5637.9	4006.7	2767.7	1889.4	1188.4	829.4	686.5	607.2	559.6
25°	7210.0	7055.7	6178.7	4145.1	2588.9	1582.2	918.8	677.8	578.3	529.3	493.3
27.5°	8030.7	7784.0	6878.3	4311.0	2425.9	1344.2	806.3	605.7	514.9	470.2	451.4
30°	8614.8	8423.0	7463.9	4426.4	2222.5	1165.3	737.0	597.1	516.3	463.0	428.4
32.5°	9191.7	8946.5	7954.2	4479.8	2074.0	1041.3	637.5	520.7	452.9	425.5	390.9
35°	9809.0	9552.3	8443.2	4450.9	1963.0	959.1	578.3	464.4	388.0	341.9	307.2
37.5°	10433.5	10162.3	8929.2	4347.1	1893.7	926.0	532.2	441.4	366.4	318.8	281.3
40°	11174.8	10812.8	9385.0	4261.9	1821.6	908.7	501.9	426.9	350.5	300.0	262.5
42.5°	11780.6	11435.9	9816.2	4217.2	1772.6	868.3	501.9	415.4	340.4	284.2	245.2
45°	12354.6	11997.0	10282.0	4253.3	1752.4	817.8	507.7	414.0	333.2	272.6	233.6
47.5°	12834.9	12524.8	10760.9	4388.9	1726.4	763.0	477.4	434.1	328.9	262.5	222.1
50°	13401.7	13101.7	11394.1	4662.9	1680.2	708.1	439.9	467.3	327.4	253.8	212.0
52.5°	14200.7	13876.2	12268.1	4974.5	1606.7	624.5	405.3	463.0	321.7	239.4	201.9
55°	15177.2	14914.7	13280.5	5348.0	1505.7	530.8	350.5	411.1	304.4	214.9	184.6
57.5°	15803.1	15579.6	14039.2	5509.5	1351.5	434.1	308.7	344.7	278.4	191.8	164.4
59°	15876.7	15674.8	14197.9	5456.2	1250.5	396.7	288.5	295.7	271.2	178.8	152.9
60°	15814.6	15605.6	14134.4	5352.4	1156.7	370.7	271.2	262.5	272.6	171.6	144.2
62.5°	15416.6	15058.9	13518.6	4825.9	1011.0	340.4	240.9	214.9	240.9	154.3	128.3
65°	14647.9	14111.3	12299.8	4084.5	953.4	323.1	204.8	180.3	183.1	135.5	111.0
67.5°	13305.1	12628.7	10677.2	3318.7	928.8	324.6	173.0	161.5	141.3	115.4	98.1
70°	11182.0	10507.1	8567.2	2730.2	917.3	324.6	147.1	138.4	118.2	96.6	85.1
72.5°	7924.0	7197.0	5779.2	2144.7	826.5	323.1	125.5	125.5	96.6	80.8	69.2
75°	4476.9	4482.6	3633.1	1517.3	686.5	266.8	100.9	99.5	70.7	62.0	51.9
77.5°	2609.1	2562.9	2449.0	651.9	318.8	121.1	70.7	60.6	49.0	44.7	37.5
80°	1341.4	1103.3	1074.5	236.5	113.9	76.4	49.0	34.6	31.7	28.8	26.0
82.5°	396.7	398.1	354.8	95.2	63.4	50.5	24.5	18.7	17.3	15.9	15.9
85°	27.4	17.3	20.2	28.8	38.9	20.2	1.4	4.3	4.3	5.8	7.2
87.5°	2.9	1.4	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°	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0
2.5°	5190.8	5254.2	5136.0	5138.9	5040.8	5072.5	4957.2	4994.7	4926.9	4978.8	5131.6
5°	3905.7	3920.2	3825.0	3794.7	3809.1	3868.2	3891.3	3786.0	3830.7	3742.7	3736.9
7.5°	2751.9	2769.2	2714.3	2707.1	2811.0	2786.5	2831.2	2723.0	2620.6	2665.3	2583.1
10°	2137.4	2065.3	1952.9	1921.1	1901.0	1913.9	1913.9	1815.9	1801.4	1762.5	1821.6
12.5°	1687.4	1599.5	1492.8	1348.6	1312.5	1309.6	1256.2	1169.7	1142.3	1109.1	1158.1
15°	1225.9	1189.9	1100.4	1019.7	937.5	921.6	835.1	764.4	670.6	657.7	653.3
17.5°	862.5	809.2	807.7	761.5	713.9	682.2	601.4	520.7	484.6	480.3	480.3
20°	646.1	627.4	597.1	591.3	576.9	540.9	468.8	425.5	408.2	409.6	415.4
22.5°	543.7	530.8	503.4	490.4	484.6	452.9	399.5	370.7	362.0	362.0	363.5
25°	486.1	474.5	444.2	424.0	416.8	393.8	351.9	330.3	323.1	323.1	323.1
27.5°	442.8	428.4	396.7	379.3	366.4	340.4	314.5	292.8	285.6	285.6	287.0
30°	412.5	396.7	367.8	344.7	324.6	301.5	279.8	261.1	252.4	251.0	252.4
32.5°	372.1	357.7	328.9	314.5	291.4	263.9	246.6	229.3	220.6	222.1	220.6
35°	289.9	285.6	265.4	269.7	256.7	233.6	217.8	199.0	188.9	187.5	190.3
37.5°	263.9	246.6	223.5	225.0	220.6	212.0	186.0	165.8	158.6	158.6	160.1
40°	243.7	226.4	200.4	187.5	188.9	188.9	161.5	139.9	132.7	131.2	134.1
42.5°	226.4	209.1	180.3	158.6	152.9	160.1	137.0	115.4	108.2	105.3	108.2
45°	214.9	196.1	162.9	138.4	121.1	129.8	112.5	95.2	86.5	86.5	85.1
47.5°	203.3	186.0	150.0	119.7	100.9	96.6	92.3	76.4	67.8	66.3	67.8
50°	193.2	175.9	135.5	103.8	85.1	75.0	75.0	60.6	54.8	51.9	53.4
52.5°	183.1	164.4	122.6	92.3	73.5	60.6	53.4	49.0	44.7	43.3	44.7
55°	168.7	150.0	109.6	79.3	63.4	50.5	41.8	40.4	37.5	34.6	37.5
57.5°	151.4	134.1	96.6	67.8	50.5	38.9	34.6	33.2	30.3	28.8	28.8
59°	141.3	125.5	89.4	59.1	44.7	34.6	31.7	30.3	27.4	24.5	26.0
60°	135.5	122.6	85.1	54.8	40.4	31.7	28.8	27.4	24.5	23.1	24.5
62.5°	119.7	109.6	75.0	44.7	31.7	23.1	20.2	21.6	20.2	18.7	20.2
65°	105.3	96.6	63.4	34.6	24.5	15.9	14.4	18.7	17.3	15.9	17.3
67.5°	93.7	83.6	53.4	26.0	17.3	8.7	10.1	15.9	15.9	14.4	15.9
70°	80.8	72.1	43.3	18.7	8.7	4.3	7.2	11.5	14.4	13.0	14.4
72.5°	66.3	56.2	33.2	13.0	4.3	0.0	4.3	10.1	14.4	13.0	14.4
75°	51.9	41.8	24.5	7.2	0.0	0.0	1.4	8.7	14.4	13.0	14.4
77.5°	37.5	30.3	14.4	1.4	0.0	0.0	1.4	8.7	14.4	13.0	14.4
80°	24.5	21.6	5.8	0.0	0.0	0.0	1.4	8.7	14.4	14.4	15.9
82.5°	15.9	11.5	0.0	0.0	0.0	0.0	2.9	11.5	15.9	17.3	17.3
85°	7.2	0.0	0.0	0.0	0.0	0.0	5.8	14.4	18.7	18.7	18.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	10.1	17.3	21.6	21.6	21.6
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°	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0
2.5°	5157.6	5248.4	5376.9	5574.4	5734.5	5986.9	6180.2	6444.2	6710.9	6791.7	6917.2
5°	3796.1	3912.9	4204.2	4469.7	4636.9	5170.6	5508.1	6040.3	6517.7	6747.0	6996.5
7.5°	2636.5	2775.0	2997.1	3367.8	3719.6	4153.8	4698.9	5307.6	6007.1	6334.5	6686.4
10°	1850.5	2023.5	2336.5	2640.8	3083.6	3496.1	4034.1	4706.2	5477.8	5864.4	6305.7
12.5°	1168.2	1322.6	1736.5	2078.3	2630.7	3109.6	3605.7	4214.3	5108.6	5505.2	5968.2
15°	667.7	797.6	990.9	1429.3	2042.3	2675.4	3294.2	4000.9	4919.7	5408.6	5909.1
17.5°	497.6	532.2	618.7	866.8	1425.0	2164.8	3007.2	3936.0	5048.0	5622.0	6193.2
20°	418.3	441.4	481.7	579.8	908.7	1667.3	2727.3	3947.6	5463.4	6184.5	6726.8
22.5°	375.0	389.4	422.6	486.1	620.2	1214.4	2400.0	4015.3	5966.8	6875.4	7501.3
25°	328.9	347.6	376.5	431.3	516.3	842.3	2076.9	4166.7	6672.0	7752.3	8340.8
27.5°	292.8	310.1	339.0	389.4	452.9	643.2	1700.4	4296.6	7416.3	8635.0	9116.7
30°	256.7	274.0	302.9	343.3	401.0	520.7	1295.2	4373.0	8138.8	9297.0	9667.6
32.5°	226.4	240.9	268.3	304.4	351.9	441.4	1021.1	4293.7	8691.2	9898.5	10146.5
35°	196.1	213.4	236.5	269.7	311.6	376.5	849.5	4019.7	9165.7	10517.2	10606.6
37.5°	164.4	184.6	209.1	239.4	272.6	346.2	682.2	3716.7	9673.4	11288.7	11141.7
40°	138.4	157.2	180.3	213.4	243.7	317.3	525.0	3393.7	10221.5	12012.8	11725.8
42.5°	112.5	132.7	160.1	190.3	240.9	276.9	406.7	3059.1	10713.3	12643.1	12253.6
45°	89.4	106.7	135.5	174.5	239.4	238.0	314.5	2728.8	11084.0	13093.1	12647.4
47.5°	70.7	85.1	113.9	170.2	220.6	201.9	252.4	2524.0	11473.4	13498.4	12948.9
50°	56.2	70.7	98.1	177.4	193.2	173.0	212.0	2557.2	11849.8	13704.6	13072.9
52.5°	47.6	62.0	85.1	139.9	148.5	151.4	186.0	2710.0	12335.9	13925.3	13319.5
55°	41.8	54.8	72.1	98.1	115.4	135.5	170.2	2821.1	12986.4	14398.4	13863.2
57.5°	33.2	47.6	64.9	83.6	95.2	118.2	157.2	2829.8	13574.8	15005.6	14585.9
59°	30.3	43.3	60.6	79.3	85.1	106.7	148.5	2756.2	13596.4	15096.4	14917.6
60°	27.4	41.8	57.7	73.5	80.8	100.9	141.3	2671.1	13400.3	14952.2	15054.6
62.5°	23.1	36.1	50.5	59.1	69.2	83.6	122.6	2362.5	12449.9	14298.8	14800.7
65°	20.2	31.7	43.3	49.0	57.7	72.1	108.2	1890.9	11399.9	13413.3	14073.9
67.5°	18.7	28.8	37.5	41.8	50.5	66.3	96.6	1335.6	10039.8	12289.7	12982.1
70°	17.3	27.4	33.2	38.9	44.7	56.2	82.2	778.9	7733.5	10319.5	11050.8
72.5°	17.3	26.0	28.8	33.2	38.9	50.5	76.4	421.2	5287.4	7872.0	8816.7
75°	17.3	24.5	26.0	28.8	34.6	46.1	67.8	220.6	3418.2	5469.2	6749.9
77.5°	17.3	23.1	26.0	27.4	33.2	40.4	59.1	138.4	2277.4	3830.7	4562.0
80°	18.7	23.1	24.5	27.4	31.7	37.5	49.0	92.3	1338.5	2304.8	2776.4
82.5°	20.2	23.1	26.0	28.8	33.2	36.1	43.3	57.7	617.3	1524.5	1724.9
85°	21.6	24.5	27.4	30.3	34.6	36.1	40.4	41.8	100.9	687.9	930.3
87.5°	23.1	26.0	28.8	31.7	37.5	37.5	37.5	37.5	34.6	73.5	187.5
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: P648495

CATALOG NUMBER: GALN-SA6B-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0	6271.0
2.5°	7075.9	7238.8	7352.8	7381.7	7299.4	7261.9	7158.1	6996.5	6898.5	6894.2
5°	7456.6	7838.8	8104.2	8148.9	7990.3	7722.0	7403.3	6992.2	6751.3	6679.2
7.5°	7391.8	8060.9	8487.9	8549.9	8283.0	7771.0	7153.7	6491.7	6229.2	6118.2
10°	7124.9	7941.3	8551.3	8649.4	8293.1	7572.0	6787.4	6049.0	5723.0	5637.9
12.5°	6897.1	7722.0	8264.3	8399.9	8130.2	7410.5	6568.2	5764.8	5415.8	5336.5
15°	6797.5	7462.4	7794.1	7863.4	7818.6	7309.5	6545.1	5721.5	5322.1	5235.5
17.5°	6897.1	7241.7	7283.5	7354.2	7453.8	7299.4	6767.2	5956.7	5525.4	5418.7
20°	7158.1	7049.9	6876.9	6907.1	7135.0	7341.3	7162.4	6477.3	5952.3	5838.4
22.5°	7602.3	7002.3	6610.0	6584.0	6872.5	7481.2	7742.2	7182.6	6573.9	6461.5
25°	8147.5	7122.0	6511.9	6455.7	6770.1	7685.9	8372.5	8046.5	7381.7	7210.0
27.5°	8741.7	7370.1	6511.9	6457.1	6761.4	7867.7	8911.9	8810.9	8218.1	8030.7
30°	9067.7	7574.9	6605.7	6543.7	6868.2	7973.0	9200.3	9490.3	8847.0	8614.8
32.5°	9359.0	7859.0	6788.8	6672.0	7091.7	8128.7	9458.5	10067.2	9347.5	9191.7
35°	9627.3	8163.3	7041.3	6905.7	7386.0	8342.2	9744.1	10672.9	10044.1	9809.0
37.5°	9923.0	8516.7	7435.0	7319.6	7877.8	8757.5	10083.0	11469.1	10729.1	10433.5
40°	10244.5	8926.3	8082.6	8033.5	8659.5	9227.7	10511.4	12318.5	11510.9	11174.8
42.5°	10572.0	9398.0	8875.9	8956.6	9545.1	9886.9	10951.3	12972.0	12151.3	11780.6
45°	10869.1	10000.8	9907.1	10306.6	10577.7	10530.2	11277.2	13432.1	12709.4	12354.6
47.5°	11244.0	10879.2	11154.6	11770.5	11777.7	11229.6	11523.9	13808.4	13189.7	12834.9
50°	11663.8	11916.2	12765.7	13393.1	13224.3	11917.7	11812.3	14254.1	13685.9	13401.7
52.5°	12149.8	13077.2	14254.1	14950.8	14557.0	12667.6	12292.6	14735.8	14473.4	14200.7
55°	12715.2	13869.0	15738.2	16293.5	15896.9	13599.3	13022.4	15389.2	15363.2	15177.2
57.5°	13354.1	14705.5	16597.9	17349.2	16995.9	14692.6	14042.1	16005.1	15907.0	15803.1
59°	13858.9	15135.4	16977.2	17756.0	17542.6	15458.5	14727.2	16388.7	16032.5	15876.7
60°	14164.7	15426.7	17117.1	17810.8	17761.7	15914.2	15161.3	16576.2	16031.0	15814.6
62.5°	15071.9	15935.9	17063.7	17567.1	17758.9	16788.2	16434.9	16782.4	15733.9	15416.6
65°	15395.0	15767.1	16179.6	16117.6	16282.0	16743.5	17248.3	16556.0	15099.3	14647.9
67.5°	14766.1	13916.7	14062.3	13648.4	13567.6	14885.8	16918.0	15448.4	13857.5	13305.1
70°	12447.0	10661.4	10587.8	10778.2	10256.1	12051.8	15191.6	13315.2	11808.0	11182.0
72.5°	9797.4	7534.5	6914.4	7615.3	7599.4	9194.6	12620.0	9448.5	7977.3	7924.0
75°	7704.7	5245.6	4603.8	4717.7	4937.0	6656.1	10051.3	5999.9	4912.5	4476.9
77.5°	5172.0	3716.7	3467.3	3327.4	3563.9	4273.5	6359.1	3253.8	2754.8	2609.1
80°	2981.2	2699.9	3066.3	2783.6	2910.6	2692.7	3162.9	1492.8	1238.9	1341.4
82.5°	1939.9	1537.5	1638.4	1217.3	1664.4	1678.8	1015.4	441.4	373.6	396.7
85°	1212.9	721.1	405.3	288.5	574.0	1055.7	317.3	27.4	31.7	27.4
87.5°	314.5	119.7	50.5	75.0	92.3	82.2	73.5	4.3	1.4	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)