

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: P647996

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15248.9 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

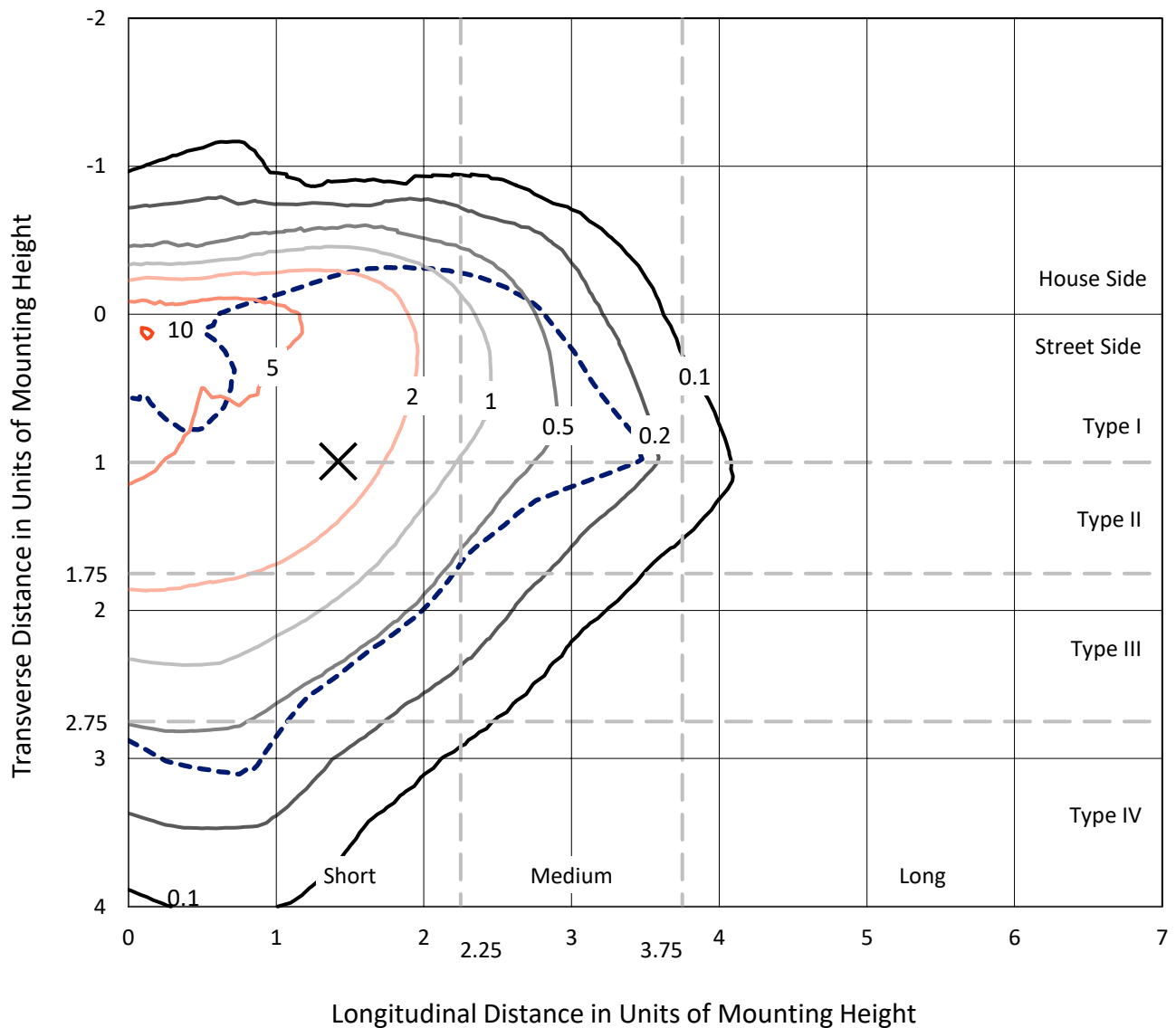
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

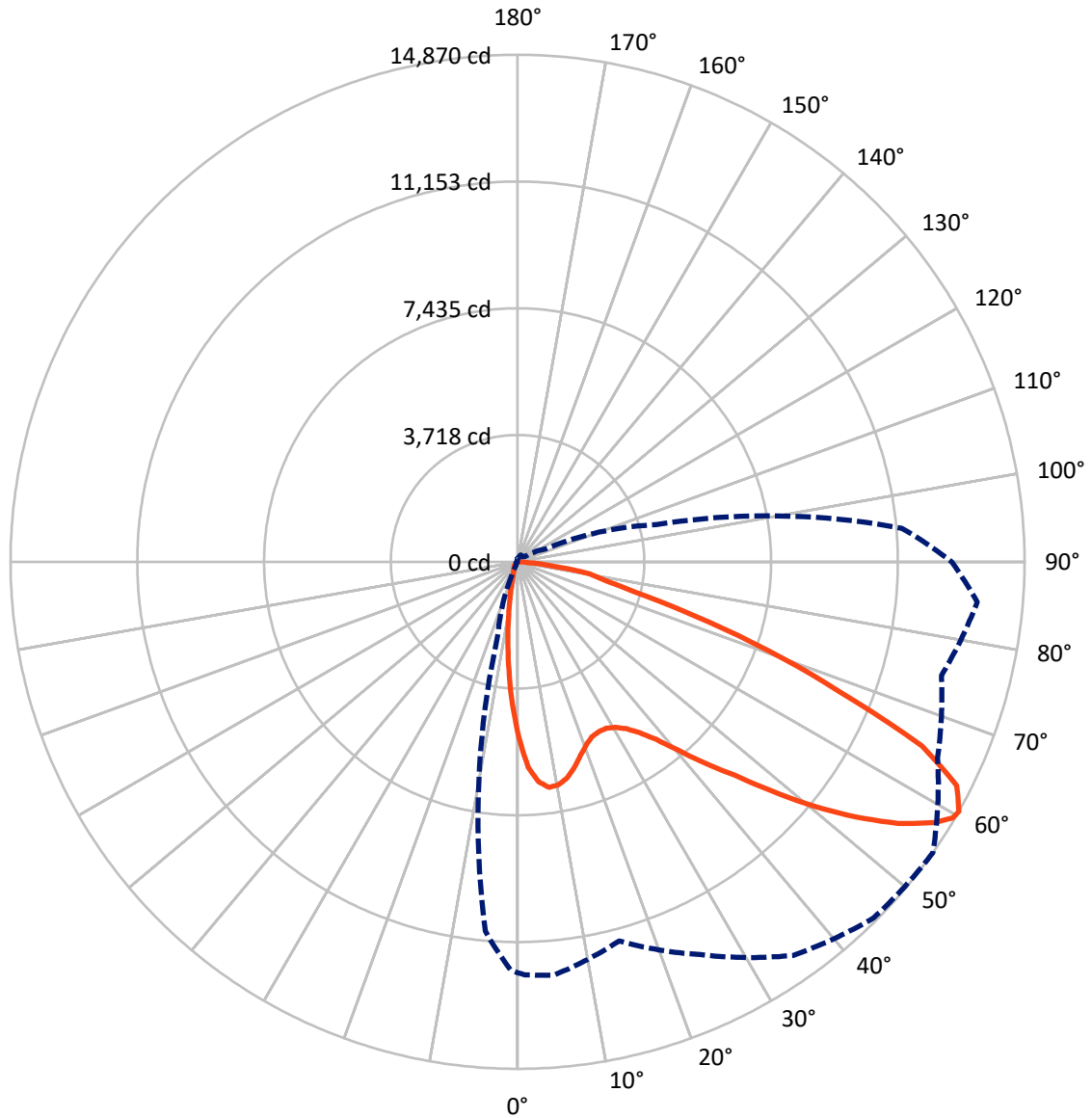
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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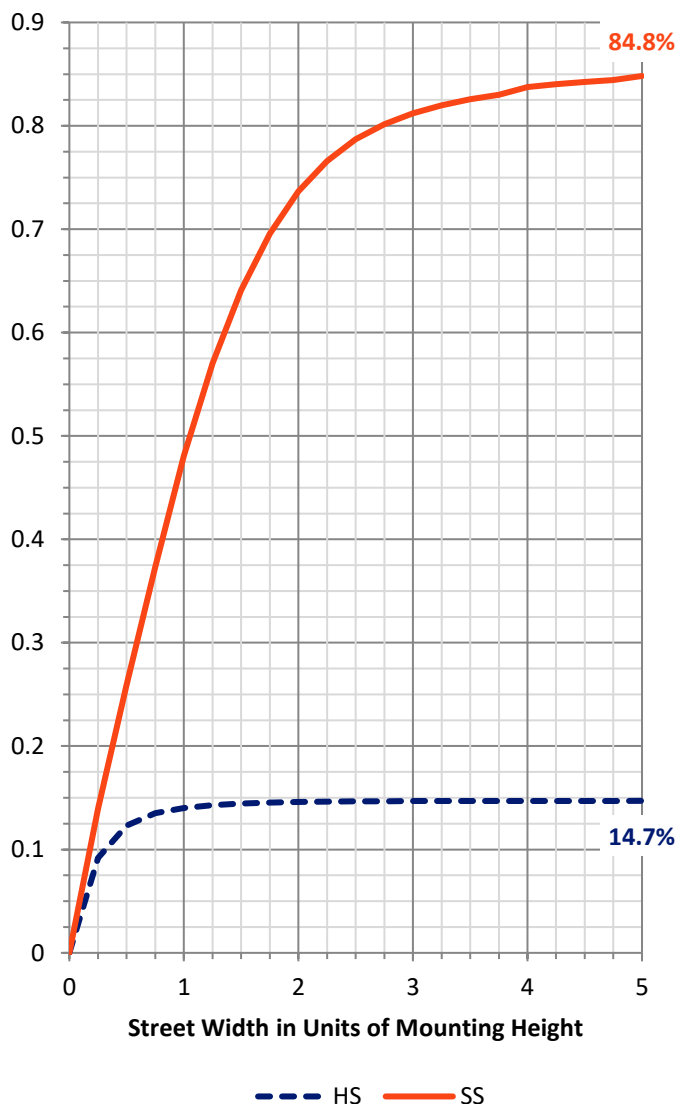
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2263.1	0.0	2263.1
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	12985.9	0.0	12985.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	15248.9	0.0	15248.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.3	2.5
10°-20°	752.9	4.9
20°-30°	1114.5	7.3
30°-40°	1661.2	10.9
40°-50°	2432.9	16.0
50°-60°	3512.3	23.0
60°-70°	3694.8	24.2
70°-80°	1519.9	10.0
80°-90°	178.0	1.2
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°	15248.9	100.0
0°-180°	15248.9	100.0

**Coefficient of Utilization**



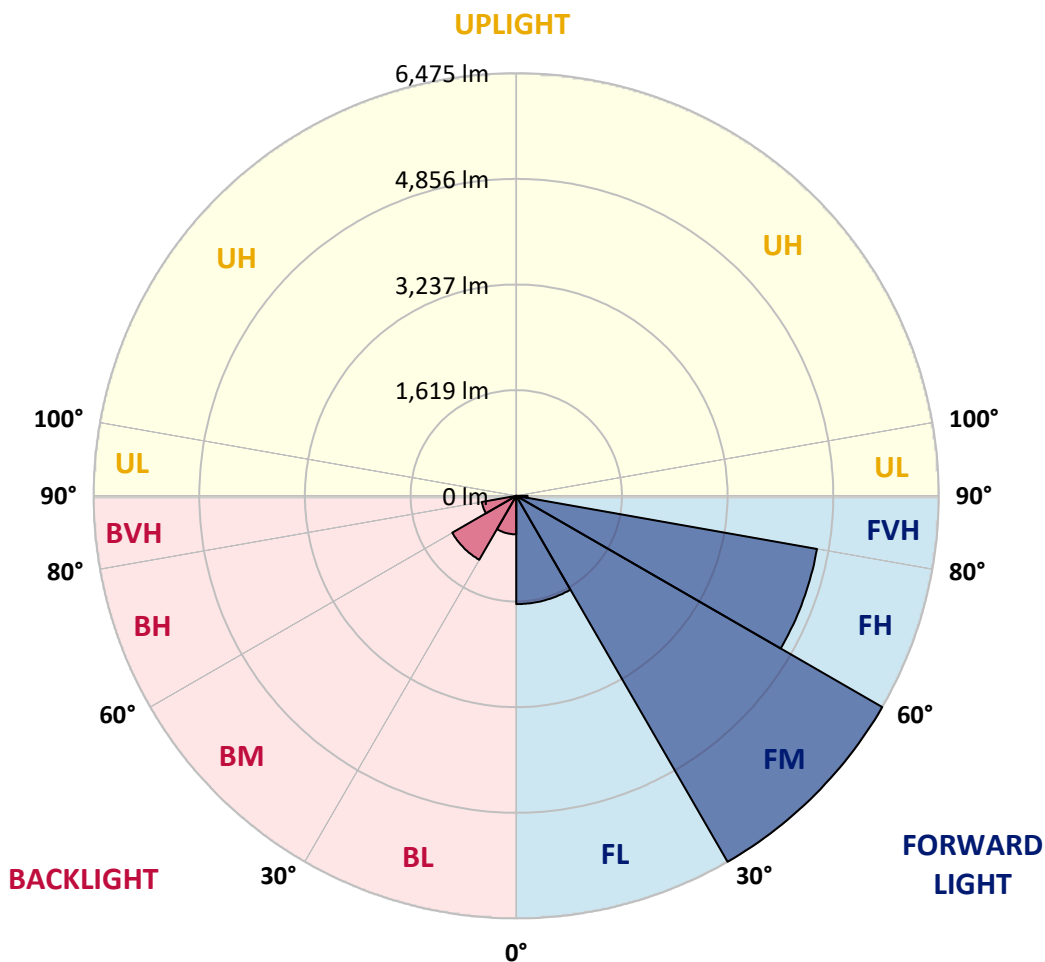
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.3	10.9			
FM (30°-60°)	6474.7	42.5			
FH (60°-80°)	4679.1	30.7			G2/5000
FVH (80°-90°)	172.8	1.1			G2/225
BL (0°-30°)	590.4	3.9	B2/1000		
BM (30°-60°)	1131.7	7.4	B2/2500		
BH (60°-80°)	535.7	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.2	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3
2.5°	5641.0	5631.6	5714.9	5851.0	5988.4	6060.0	6045.9	6040.0	5926.1	5842.8	5668.0
5°	5629.2	5677.4	5826.4	6194.9	6474.3	6609.3	6649.2	6481.4	6259.5	5937.9	5541.2
7.5°	5292.4	5352.2	5595.2	6171.4	6667.9	6961.4	6950.8	6682.0	6224.3	5726.6	5160.9
10°	4874.5	4945.0	5230.1	5929.7	6574.1	6961.4	6982.6	6642.1	6072.9	5434.4	4839.3
12.5°	4579.9	4663.2	4978.9	5704.3	6332.3	6713.8	6738.4	6491.9	5959.0	5321.7	4664.4
15°	4480.2	4558.8	4879.2	5590.5	6075.2	6280.6	6274.8	6249.0	5914.5	5348.7	4673.8
17.5°	4651.5	4716.1	5077.6	5642.1	5834.6	5813.5	5844.0	5968.4	5923.8	5575.2	4969.5
20°	5094.0	5159.7	5548.3	5800.5	5650.4	5516.5	5530.6	5738.4	6010.7	6001.3	5432.1
22.5°	5703.1	5814.6	6166.8	6108.1	5625.7	5332.2	5302.9	5572.8	6158.5	6491.9	6056.4
25°	6474.3	6587.0	6861.7	6598.7	5746.6	5288.9	5261.8	5522.4	6338.2	6970.8	6759.5
27.5°	7122.2	7207.9	7481.3	7076.4	5925.0	5307.6	5263.0	5529.5	6483.7	7378.1	7352.3
30°	7641.0	7704.4	7865.2	7299.4	6078.7	5389.8	5338.1	5632.7	6548.2	7576.5	7832.3
32.5°	8058.9	8165.7	8216.1	7537.7	6299.4	5544.7	5456.6	5831.1	6705.5	7821.8	8335.8
35°	8536.6	8659.8	8595.2	7765.4	6590.5	5786.5	5678.6	6152.7	6943.8	8048.3	8920.3
37.5°	9142.2	9284.2	9031.8	8004.8	6898.0	6150.4	6099.9	6604.6	7305.3	8372.2	9547.1
40°	9768.9	9851.2	9455.6	8296.0	7275.9	6679.7	6727.8	7275.9	7778.3	8760.8	10213.8
42.5°	10258.4	10335.9	9891.0	8540.1	7662.1	7307.7	7508.3	8085.8	8320.5	9158.6	10711.4
45°	10632.8	10698.6	10192.7	8806.5	8183.3	8217.3	8596.4	8920.3	8864.0	9401.6	11095.3
47.5°	10923.9	10980.2	10425.1	9092.9	8963.8	9330.0	9909.8	10047.1	9427.4	9664.5	11442.7
50°	11043.7	11060.0	10497.8	9457.9	9850.0	10747.8	11352.3	11269.0	10073.0	9956.8	11812.4
52.5°	11199.7	11196.2	10705.6	9805.4	10683.3	12015.4	12618.7	12429.8	10803.1	10394.6	12228.0
55°	11609.4	11614.1	11150.5	10298.3	11393.4	13039.0	13684.6	13547.2	11573.0	11134.0	12712.7
57.5°	12107.1	12124.7	11783.1	10874.6	12071.8	13780.8	14480.3	14427.5	12614.1	11956.8	13170.5
59°	12171.6	12206.8	12082.4	11280.8	12474.4	14008.5	14752.7	14804.3	13171.6	12499.0	13418.1
60°	12054.2	12112.9	12169.2	11510.8	12710.4	14090.6	14769.0	14870.0	13590.6	12867.6	13530.8
62.5°	11542.4	11635.2	11918.0	12218.6	13004.9	13834.7	14244.4	14455.7	14109.4	13835.9	13541.4
65°	10872.3	10920.4	11328.8	12344.2	12433.3	12639.9	12766.7	13037.8	13486.2	14209.2	13056.6
67.5°	9773.6	9915.7	10415.7	11615.3	10746.7	10502.5	10470.8	10200.9	11365.2	13319.5	11861.7
70°	8074.1	8137.5	8753.7	9522.5	8110.5	7734.9	7885.1	7784.2	8810.0	11466.2	9547.1
72.5°	6105.8	6249.0	6851.1	7590.6	5518.9	5031.8	5446.1	5408.6	6617.5	9215.0	6558.8
75°	4344.0	4436.7	5204.3	5940.2	3865.1	3274.7	3423.7	3563.4	4619.8	7275.9	3875.7
77.5°	2984.8	3064.6	3641.0	3928.5	2819.3	2700.7	2470.7	2605.7	3027.1	4317.0	2109.2
80°	1800.5	1797.0	2176.1	2246.5	1963.7	2280.6	1913.2	2147.9	1829.9	1847.5	816.9
82.5°	1169.0	1157.3	1331.0	1450.7	1092.8	1149.1	771.2	1111.5	1192.5	515.3	258.2
85°	523.5	545.8	639.7	843.9	478.9	254.7	157.3	341.5	508.2	259.4	0.0
87.5°	54.0	42.3	112.7	205.4	65.7	7.0	23.5	11.7	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°	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3
2.5°	5586.9	5518.9	5315.9	5125.7	4962.5	4763.0	4633.9	4430.8	4307.6	4270.0	4275.9
5°	5362.8	5166.8	4780.6	4471.9	4128.0	3932.0	3633.9	3347.5	3192.5	3135.1	3109.2
7.5°	4893.3	4683.2	4217.2	3732.5	3363.9	3020.0	2798.2	2545.8	2373.3	2231.2	2206.7
10°	4544.7	4268.8	3691.4	3170.2	2879.2	2620.9	2399.1	2146.8	1943.7	1781.7	1737.1
12.5°	4335.8	4027.0	3382.7	2946.0	2670.3	2405.0	2116.2	1824.0	1616.2	1441.3	1360.4
15°	4298.2	3940.2	3295.8	2785.3	2444.9	2124.4	1740.6	1424.9	1211.3	1045.8	995.3
17.5°	4524.7	4096.3	3283.0	2617.4	2150.3	1696.1	1297.0	1035.2	794.6	701.9	665.5
20°	4928.5	4372.1	3281.8	2422.6	1847.5	1306.4	910.8	674.9	577.5	532.9	511.8
22.5°	5479.0	4747.7	3344.0	2254.7	1532.9	963.6	650.3	537.6	481.2	444.8	436.6
25°	6151.6	5304.1	3496.6	2140.9	1292.3	755.9	536.4	460.1	413.2	396.7	389.7
27.5°	6749.0	5837.0	3664.4	2023.5	1119.8	669.0	497.7	421.3	383.8	370.9	360.3
30°	7264.2	6320.5	3745.4	1868.6	981.3	612.7	504.7	450.7	401.4	362.7	345.1
32.5°	7693.8	6691.4	3798.2	1727.8	863.9	501.2	399.1	348.6	326.3	312.2	300.4
35°	8231.4	7092.9	3766.5	1647.9	804.0	456.6	363.9	300.4	262.9	234.7	223.0
37.5°	8794.7	7494.2	3711.3	1582.2	777.0	423.7	346.2	285.2	244.1	214.8	199.5
40°	9378.1	7866.3	3646.7	1521.1	752.4	402.6	335.7	272.3	231.2	199.5	183.1
42.5°	9912.2	8229.0	3621.0	1481.3	712.5	406.1	327.5	266.5	218.3	185.4	171.4
45°	10344.1	8572.9	3656.1	1460.1	669.0	400.3	329.8	259.4	207.7	176.1	162.0
47.5°	10805.4	9058.8	3770.0	1439.0	626.8	372.1	347.4	258.2	203.0	170.2	155.0
50°	11341.8	9680.9	4030.6	1387.3	575.1	341.5	369.7	257.1	197.2	163.2	147.9
52.5°	12056.6	10387.5	4299.4	1297.0	500.0	312.2	353.3	253.5	185.4	155.0	139.7
55°	12698.6	11131.7	4527.1	1190.2	405.0	270.0	318.1	238.3	165.5	140.9	126.8
57.5°	12963.9	11551.8	4520.0	1042.3	323.9	237.1	261.8	218.3	144.4	124.4	112.7
59°	12866.4	11499.1	4368.6	933.1	295.8	219.5	217.1	216.0	135.0	112.7	103.3
60°	12729.2	11306.5	4205.5	879.2	278.2	207.7	199.5	213.6	126.8	105.6	96.2
62.5°	12203.3	10508.4	3664.4	787.5	254.7	176.1	159.7	180.7	112.7	91.5	83.3
65°	11441.5	9281.8	3102.2	761.8	247.7	145.6	132.6	129.1	96.2	77.4	70.4
67.5°	9955.6	7854.6	2513.0	744.2	250.0	122.1	116.2	97.4	79.8	64.5	59.8
70°	7970.8	6124.5	2057.6	724.2	252.4	99.8	97.4	77.4	64.5	54.0	49.3
72.5°	4842.8	3630.4	1619.7	629.1	245.3	79.8	86.8	58.7	47.0	38.8	36.4
75°	2994.2	2484.8	1004.7	489.5	162.0	58.7	61.0	36.4	31.7	24.7	24.7
77.5°	1734.7	1569.3	359.2	176.1	71.6	35.2	27.0	18.8	17.6	10.6	10.6
80°	719.5	576.3	124.4	59.8	38.8	16.4	5.9	1.2	0.0	0.0	0.0
82.5°	210.1	186.6	34.1	27.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3
2.5°	4176.1	4137.4	4119.8	4179.7	4124.5	4194.9	4140.9	4164.4	4233.7	4264.1	4342.8
5°	3125.7	3085.7	3066.9	3157.4	3152.7	3197.2	3192.5	3233.6	3268.9	3190.2	3271.2
7.5°	2177.3	2150.3	2194.9	2265.3	2340.4	2315.8	2315.8	2260.6	2279.4	2267.6	2264.1
10°	1656.1	1563.4	1539.9	1537.6	1565.8	1571.6	1539.9	1463.7	1491.8	1500.0	1549.3
12.5°	1302.8	1231.3	1122.1	1072.8	1059.9	1070.4	966.0	899.0	930.8	912.0	960.1
15°	934.3	875.6	811.0	755.9	740.6	719.5	605.7	525.9	516.5	520.0	528.2
17.5°	666.6	626.8	626.8	568.1	536.4	473.0	415.5	380.3	376.8	380.3	386.2
20°	491.8	470.7	468.3	453.0	417.9	375.6	335.7	328.6	326.3	332.1	334.5
22.5°	423.7	401.4	382.7	381.5	348.6	313.4	294.6	285.2	286.4	288.8	294.6
25°	379.1	355.6	335.7	323.9	300.4	275.9	258.2	253.5	253.5	257.1	258.2
27.5°	347.4	318.1	300.4	284.1	262.9	241.8	226.5	223.0	220.6	223.0	228.9
30°	325.1	295.8	273.5	248.8	232.4	212.4	199.5	194.8	193.6	194.8	199.5
32.5°	278.2	260.6	243.0	220.6	200.7	187.8	173.7	165.5	165.5	167.9	172.6
35°	210.1	200.7	199.5	193.6	177.3	163.2	146.7	138.5	138.5	143.2	145.6
37.5°	185.4	167.9	165.5	163.2	156.1	137.3	122.1	115.0	113.8	117.4	122.1
40°	169.0	149.1	138.5	136.2	137.3	116.2	99.8	92.7	92.7	93.9	98.6
42.5°	156.1	132.6	113.8	111.5	116.2	97.4	81.0	73.9	73.9	73.9	79.8
45°	145.6	118.5	96.2	84.5	91.5	79.8	65.7	58.7	56.4	58.7	61.0
47.5°	138.5	108.0	84.5	68.0	68.0	63.3	52.9	44.6	42.3	43.5	47.0
50°	132.6	98.6	71.6	55.2	49.3	50.5	39.9	34.1	31.7	31.7	35.2
52.5°	123.2	89.2	62.2	47.0	37.6	34.1	29.4	24.7	23.5	24.7	27.0
55°	111.5	81.0	54.0	38.8	29.4	23.5	21.1	17.6	16.4	17.6	21.1
57.5°	98.6	68.0	43.5	30.5	20.0	15.3	14.1	11.7	9.4	10.6	12.9
59°	90.4	61.0	37.6	24.7	15.3	10.6	10.6	8.2	5.9	7.0	10.6
60°	86.8	56.4	31.7	21.1	12.9	8.2	8.2	5.9	3.5	4.7	8.2
62.5°	73.9	47.0	24.7	12.9	5.9	1.2	3.5	1.2	0.0	1.2	3.5
65°	62.2	37.6	16.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	51.7	28.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	41.1	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.2	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P647996  
 CATALOG NUMBER: GALN-SA6A-835-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3
2.5°	4347.5	4515.3	4618.6	4813.5	5013.0	5166.8	5359.2	5531.8	5603.4	5641.0
5°	3353.4	3586.9	3785.3	4082.2	4358.1	4693.8	5034.1	5435.6	5589.3	5629.2
7.5°	2353.3	2591.6	2799.4	3143.3	3536.4	3986.0	4495.4	5004.8	5229.0	5292.4
10°	1699.6	1954.3	2207.8	2551.7	2919.1	3406.2	3936.7	4567.0	4825.2	4874.5
12.5°	1072.8	1346.3	1758.2	2183.2	2571.6	2963.7	3518.9	4204.3	4489.5	4579.9
15°	622.1	826.3	1137.3	1691.4	2185.5	2704.2	3309.9	4068.2	4387.4	4480.2
17.5°	416.7	487.1	700.7	1124.5	1777.0	2464.8	3257.1	4179.7	4532.9	4651.5
20°	350.9	382.7	457.7	685.4	1368.6	2251.2	3271.2	4482.5	4946.1	5094.0
22.5°	308.7	338.0	386.2	493.0	955.4	1985.9	3338.1	4915.6	5514.2	5703.1
25°	272.3	301.6	343.9	408.5	642.1	1679.6	3484.8	5549.4	6266.6	6474.3
27.5°	241.8	268.8	305.1	360.3	494.2	1338.1	3615.1	6166.8	6953.2	7122.2
30°	213.6	235.9	271.2	313.4	410.8	1031.7	3680.8	6706.7	7453.2	7641.0
32.5°	185.4	206.6	240.6	274.7	338.0	786.4	3635.1	7103.5	7939.2	8058.9
35°	158.5	180.7	208.9	240.6	292.3	635.0	3406.2	7549.5	8442.6	8536.6
37.5°	136.2	155.0	184.2	208.9	264.1	508.2	3129.2	7950.8	9007.2	9142.2
40°	115.0	133.8	163.2	185.4	243.0	400.3	2879.2	8396.9	9602.3	9768.9
42.5°	93.9	116.2	142.0	178.4	208.9	305.1	2576.3	8758.4	10049.5	10258.4
45°	75.1	99.8	127.9	177.3	181.9	232.4	2284.1	9040.0	10445.1	10632.8
47.5°	59.8	84.5	123.2	165.5	149.1	184.2	2117.4	9334.7	10773.7	10923.9
50°	48.2	70.4	129.1	145.6	124.4	156.1	2112.7	9663.3	10943.8	11043.7
52.5°	38.8	57.6	109.2	111.5	105.6	137.3	2239.5	10033.0	11117.6	11199.7
55°	32.9	48.2	71.6	82.1	95.1	124.4	2334.5	10602.3	11531.9	11609.4
57.5°	25.8	41.1	55.2	65.7	84.5	113.8	2347.4	11041.3	12056.6	12107.1
59°	22.3	35.2	49.3	58.7	77.4	106.8	2294.7	11068.3	12090.6	12171.6
60°	18.8	31.7	43.5	55.2	71.6	100.9	2237.1	10872.3	11963.8	12054.2
62.5°	14.1	24.7	31.7	44.6	58.7	86.8	1964.9	10188.0	11479.1	11542.4
65°	9.4	17.6	23.5	32.9	45.8	75.1	1601.0	9300.6	10730.2	10872.3
67.5°	5.9	12.9	18.8	24.7	37.6	63.3	1140.8	7975.5	9682.1	9773.6
70°	3.5	8.2	14.1	20.0	29.4	50.5	677.2	6304.1	8055.3	8074.1
72.5°	2.3	5.9	9.4	14.1	23.5	45.8	328.6	4109.3	5881.6	6105.8
75°	1.2	3.5	5.9	10.6	18.8	37.6	157.3	2745.4	4279.4	4344.0
77.5°	0.0	1.2	3.5	7.0	14.1	29.4	91.5	1802.9	2917.9	2984.8
80°	0.0	0.0	2.3	5.9	10.6	18.8	55.2	1063.4	1767.6	1800.5
82.5°	0.0	0.0	1.2	4.7	7.0	14.1	28.2	467.1	1157.3	1169.0
85°	0.0	0.0	1.2	4.7	5.9	9.4	10.6	63.3	514.1	523.5
87.5°	0.0	0.0	1.2	5.9	5.9	5.9	5.9	3.5	43.5	54.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)