

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: P456845

Luminaire Tested: **GALN-SA8A-827-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456845  
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-SA8A-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA 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: 19495 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

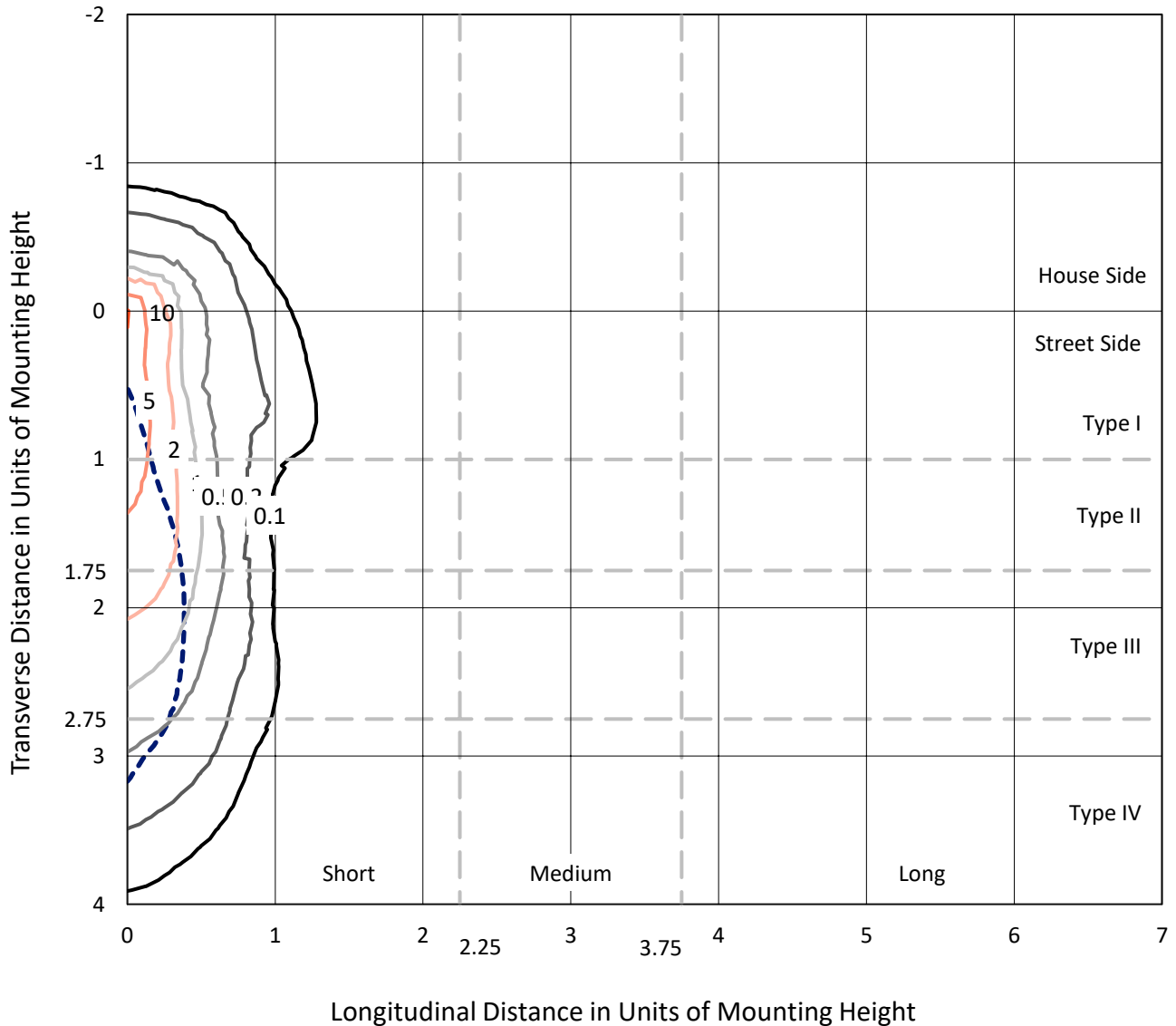
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

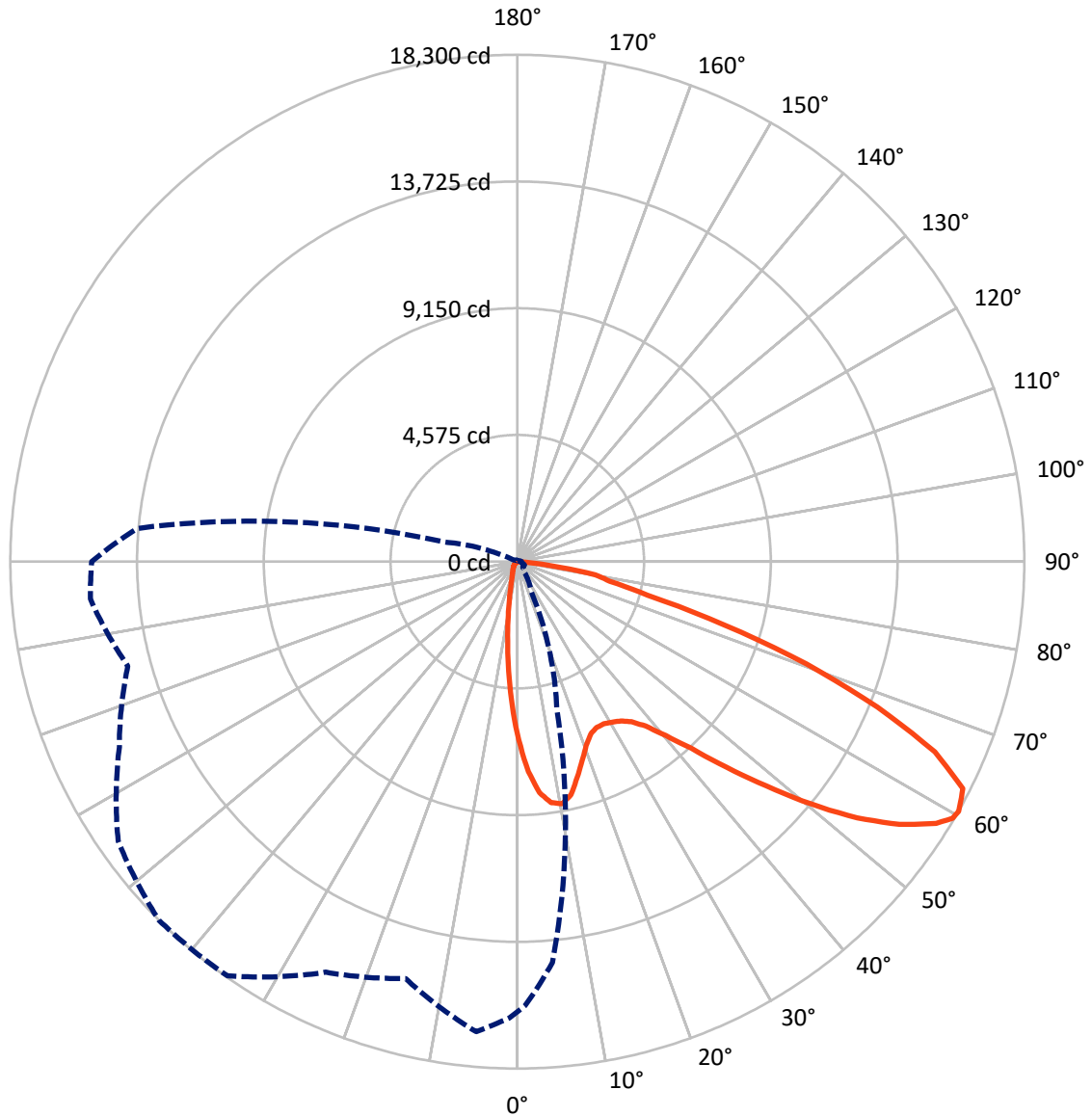
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type 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	2404.5	0.0	2404.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	17090.5	0.0	17090.5
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	19495.0	0.0	19495.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.2	2.5
10°-20°	951.8	4.9
20°-30°	1395.6	7.2
30°-40°	2075.4	10.6
40°-50°	3020.4	15.5
50°-60°	4355.6	22.3
60°-70°	4790.7	24.6
70°-80°	2145.9	11.0
80°-90°	280.4	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°	19495.0	100.0
0°-180°	19495.0	100.0

**Coefficient of Utilization**



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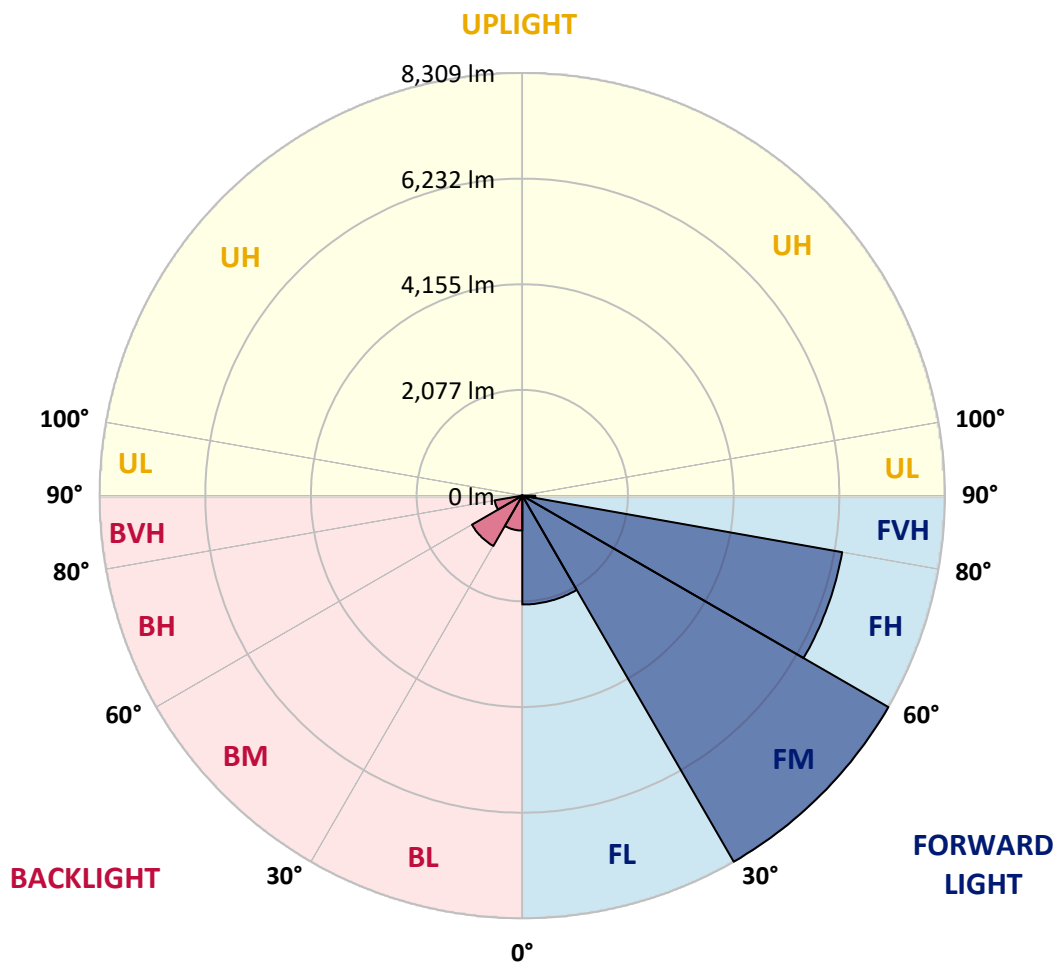
CATALOG NUMBER: GALN-SA8A-827-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2139.5	11.0			
FM	(30°-60°)	8309.4	42.6			
FH	(60°-80°)	6385.2	32.8			G3/7500
FVH	(80°-90°)	256.4	1.3			G3/500
BL	(0°-30°)	687.0	3.5	B2/1000		
BM	(30°-60°)	1142.1	5.9	B2/2500		
BH	(60°-80°)	551.4	2.8	B2/1000		G2/1000
BVH	(80°-90°)	24.0	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°	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4
2.5°	7083.6	7052.4	6981.3	6765.0	6576.7	6330.8	6081.8	5886.2	5766.1	5545.3	5444.6
5°	6862.8	6877.6	6671.6	6227.0	5732.1	5394.2	5025.2	4731.8	4408.7	4204.2	3989.3
7.5°	6286.3	6256.7	6032.9	5413.4	4811.8	4322.8	3855.9	3476.6	3238.0	3046.8	2886.8
10°	5792.8	5770.6	5484.6	4687.3	4041.2	3675.2	3359.5	3027.6	2771.2	2491.1	2267.3
12.5°	5483.1	5432.7	5103.7	4270.9	3744.8	3404.0	3060.2	2714.9	2360.7	2077.6	1806.5
15°	5379.4	5306.7	4940.7	4127.1	3555.1	3122.4	2691.2	2294.0	1886.5	1573.8	1369.3
17.5°	5567.6	5447.5	5057.8	4101.9	3328.4	2754.9	2224.4	1707.2	1283.3	1044.8	918.8
20°	5998.8	5861.0	5354.2	4076.8	3076.5	2342.9	1690.9	1206.3	887.7	757.3	687.6
22.5°	6639.0	6449.3	5792.8	4116.8	2843.8	1941.3	1221.1	852.1	705.4	623.9	575.0
25°	7408.1	7249.5	6348.5	4259.0	2660.0	1625.7	944.0	696.5	594.2	543.9	506.8
27.5°	8251.3	7997.9	7067.3	4429.5	2492.6	1381.1	828.4	622.4	529.0	483.1	463.8
30°	8851.5	8654.4	7668.9	4548.0	2283.6	1197.4	757.3	613.5	530.5	475.7	440.1
32.5°	9444.3	9192.3	8172.8	4602.8	2131.0	1069.9	655.0	535.0	465.3	437.2	401.6
35°	10078.5	9814.7	8675.1	4573.2	2016.9	985.5	594.2	477.2	398.6	351.2	315.6
37.5°	10720.2	10441.6	9174.5	4466.5	1945.8	951.4	546.8	453.5	376.4	327.5	289.0
40°	11481.9	11109.9	9642.8	4379.1	1871.7	933.6	515.7	438.6	360.1	308.2	269.7
42.5°	12104.3	11750.1	10085.9	4333.1	1821.3	892.1	515.7	426.8	349.7	291.9	251.9
45°	12694.1	12326.6	10564.6	4370.2	1800.5	840.2	521.6	425.3	342.3	280.1	240.1
47.5°	13187.6	12869.0	11056.6	4509.5	1773.9	783.9	490.5	446.1	337.9	269.7	228.2
50°	13770.0	13461.7	11707.1	4791.0	1726.4	727.6	452.0	480.1	336.4	260.8	217.8
52.5°	14591.0	14257.5	12605.2	5111.1	1650.9	641.7	416.4	475.7	330.5	246.0	207.5
55°	15594.2	15324.5	13645.5	5494.9	1547.1	545.3	360.1	422.3	312.7	220.8	189.7
57.5°	16237.4	16007.7	14425.0	5660.9	1388.6	446.1	317.1	354.2	286.0	197.1	168.9
59°	16312.9	16105.5	14588.0	5606.1	1284.8	407.5	296.4	303.8	278.6	183.8	157.1
60°	16249.2	16034.3	14522.8	5499.4	1188.5	380.9	278.6	269.7	280.1	176.3	148.2
62.5°	15840.2	15472.7	13890.0	4958.5	1038.8	349.7	247.5	220.8	247.5	158.6	131.9
65°	15050.4	14499.1	12637.8	4196.8	979.5	331.9	210.4	185.2	188.2	139.3	114.1
67.5°	13670.7	12975.7	10970.6	3409.9	954.4	333.4	177.8	166.0	145.2	118.6	100.8
70°	11489.3	10795.8	8802.6	2805.3	942.5	333.4	151.2	142.3	121.5	99.3	87.4
72.5°	8141.7	7394.8	5938.0	2203.6	849.1	331.9	128.9	128.9	99.3	83.0	71.1
75°	4599.9	4605.8	3732.9	1559.0	705.4	274.2	103.7	102.3	72.6	63.7	53.3
77.5°	2680.8	2633.4	2516.3	669.8	327.5	124.5	72.6	62.2	50.4	45.9	38.5
80°	1378.2	1133.7	1104.0	243.0	117.1	78.5	50.4	35.6	32.6	29.6	26.7
82.5°	407.5	409.0	364.6	97.8	65.2	51.9	25.2	19.3	17.8	16.3	16.3
85°	28.2	17.8	20.7	29.6	40.0	20.7	1.5	4.4	4.4	5.9	7.4
87.5°	3.0	1.5	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°	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4
2.5°	5333.4	5398.6	5277.1	5280.1	5179.3	5211.9	5093.3	5131.9	5062.2	5115.6	5272.7
5°	4013.0	4027.9	3930.0	3898.9	3913.7	3974.5	3998.2	3890.0	3936.0	3845.6	3839.6
7.5°	2827.5	2845.3	2789.0	2781.6	2888.3	2863.1	2909.0	2797.9	2692.6	2738.6	2654.1
10°	2196.2	2122.1	2006.5	1973.9	1953.2	1966.5	1966.5	1865.7	1850.9	1810.9	1871.7
12.5°	1733.8	1643.4	1533.8	1385.6	1348.5	1345.6	1290.7	1201.8	1173.7	1139.6	1190.0
15°	1259.6	1222.6	1130.7	1047.7	963.2	946.9	858.0	785.4	689.1	675.8	671.3
17.5°	886.2	831.4	829.9	782.5	733.5	700.9	618.0	535.0	497.9	493.5	493.5
20°	663.9	644.6	613.5	607.6	592.8	555.7	481.6	437.2	419.4	420.9	426.8
22.5°	558.7	545.3	517.2	503.9	497.9	465.3	410.5	380.9	372.0	372.0	373.4
25°	499.4	487.6	456.4	435.7	428.3	404.6	361.6	339.4	331.9	331.9	331.9
27.5°	454.9	440.1	407.5	389.7	376.4	349.7	323.1	300.8	293.4	293.4	294.9
30°	423.8	407.5	377.9	354.2	333.4	309.7	287.5	268.2	259.3	257.9	259.3
32.5°	382.3	367.5	337.9	323.1	299.3	271.2	253.4	235.6	226.7	228.2	226.7
35°	297.9	293.4	272.7	277.1	263.8	240.1	223.8	204.5	194.1	192.6	195.6
37.5°	271.2	253.4	229.7	231.2	226.7	217.8	191.2	170.4	163.0	163.0	164.5
40°	250.4	232.7	206.0	192.6	194.1	194.1	166.0	143.7	136.3	134.9	137.8
42.5°	232.7	214.9	185.2	163.0	157.1	164.5	140.8	118.6	111.1	108.2	111.1
45°	220.8	201.5	167.5	142.3	124.5	133.4	115.6	97.8	88.9	88.9	87.4
47.5°	209.0	191.2	154.1	123.0	103.7	99.3	94.8	78.5	69.7	68.2	69.7
50°	198.6	180.8	139.3	106.7	87.4	77.1	77.1	62.2	56.3	53.3	54.8
52.5°	188.2	168.9	126.0	94.8	75.6	62.2	54.8	50.4	45.9	44.5	45.9
55°	173.4	154.1	112.6	81.5	65.2	51.9	43.0	41.5	38.5	35.6	38.5
57.5°	155.6	137.8	99.3	69.7	51.9	40.0	35.6	34.1	31.1	29.6	29.6
59°	145.2	128.9	91.9	60.8	45.9	35.6	32.6	31.1	28.2	25.2	26.7
60°	139.3	126.0	87.4	56.3	41.5	32.6	29.6	28.2	25.2	23.7	25.2
62.5°	123.0	112.6	77.1	45.9	32.6	23.7	20.7	22.2	20.7	19.3	20.7
65°	108.2	99.3	65.2	35.6	25.2	16.3	14.8	19.3	17.8	16.3	17.8
67.5°	96.3	86.0	54.8	26.7	17.8	8.9	10.4	16.3	16.3	14.8	16.3
70°	83.0	74.1	44.5	19.3	8.9	4.4	7.4	11.9	14.8	13.3	14.8
72.5°	68.2	57.8	34.1	13.3	4.4	0.0	4.4	10.4	14.8	13.3	14.8
75°	53.3	43.0	25.2	7.4	0.0	0.0	1.5	8.9	14.8	13.3	14.8
77.5°	38.5	31.1	14.8	1.5	0.0	0.0	1.5	8.9	14.8	13.3	14.8
80°	25.2	22.2	5.9	0.0	0.0	0.0	1.5	8.9	14.8	14.8	16.3
82.5°	16.3	11.9	0.0	0.0	0.0	0.0	3.0	11.9	16.3	17.8	17.8
85°	7.4	0.0	0.0	0.0	0.0	0.0	5.9	14.8	19.3	19.3	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	10.4	17.8	22.2	22.2	22.2
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°	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4
2.5°	5299.3	5392.7	5524.6	5727.6	5892.1	6151.4	6350.0	6621.2	6895.4	6978.3	7107.3
5°	3900.4	4020.4	4319.8	4592.5	4764.4	5312.7	5659.4	6206.3	6696.8	6932.4	7188.8
7.5°	2708.9	2851.2	3079.4	3460.3	3821.9	4267.9	4828.1	5453.5	6172.2	6508.6	6870.2
10°	1901.3	2079.1	2400.7	2713.4	3168.3	3592.2	4144.9	4835.5	5628.3	6025.5	6478.9
12.5°	1200.4	1358.9	1784.2	2135.4	2703.0	3195.0	3704.8	4330.2	5249.0	5656.5	6132.2
15°	686.1	819.5	1018.1	1468.6	2098.4	2749.0	3384.7	4110.8	5054.8	5557.2	6071.4
17.5°	511.3	546.8	635.7	890.6	1464.1	2224.4	3089.8	4044.2	5186.7	5776.5	6363.4
20°	429.8	453.5	495.0	595.7	933.6	1713.1	2802.3	4056.0	5613.5	6354.5	6911.7
22.5°	385.3	400.1	434.2	499.4	637.2	1247.8	2465.9	4125.7	6130.7	7064.3	7707.5
25°	337.9	357.1	386.8	443.1	530.5	865.4	2134.0	4281.3	6855.3	7965.3	8569.9
27.5°	300.8	318.6	348.3	400.1	465.3	660.9	1747.2	4414.6	7620.0	8872.2	9367.2
30°	263.8	281.6	311.2	352.7	412.0	535.0	1330.8	4493.2	8362.5	9552.4	9933.3
32.5°	232.7	247.5	275.6	312.7	361.6	453.5	1049.2	4411.7	8930.0	10170.4	10425.3
35°	201.5	219.3	243.0	277.1	320.1	386.8	872.8	4130.1	9417.6	10806.1	10898.0
37.5°	168.9	189.7	214.9	246.0	280.1	355.7	700.9	3818.9	9939.2	11599.0	11447.8
40°	142.3	161.5	185.2	219.3	250.4	326.0	539.4	3487.0	10502.3	12342.9	12048.0
42.5°	115.6	136.3	164.5	195.6	247.5	284.5	417.9	3143.1	11007.7	12990.5	12590.4
45°	91.9	109.7	139.3	179.3	246.0	244.5	323.1	2803.8	11388.5	13452.8	12994.9
47.5°	72.6	87.4	117.1	174.9	226.7	207.5	259.3	2593.4	11788.7	13869.3	13304.7
50°	57.8	72.6	100.8	182.3	198.6	177.8	217.8	2627.4	12175.4	14081.2	13432.1
52.5°	48.9	63.7	87.4	143.7	152.6	155.6	191.2	2784.5	12674.8	14307.9	13685.5
55°	43.0	56.3	74.1	100.8	118.6	139.3	174.9	2898.6	13343.2	14794.0	14244.2
57.5°	34.1	48.9	66.7	86.0	97.8	121.5	161.5	2907.5	13947.8	15417.9	14986.6
59°	31.1	44.5	62.2	81.5	87.4	109.7	152.6	2831.9	13970.0	15511.2	15327.5
60°	28.2	43.0	59.3	75.6	83.0	103.7	145.2	2744.5	13768.5	15363.0	15468.3
62.5°	23.7	37.0	51.9	60.8	71.1	86.0	126.0	2427.4	12791.9	14691.7	15207.4
65°	20.7	32.6	44.5	50.4	59.3	74.1	111.1	1942.8	11713.1	13781.8	14460.5
67.5°	19.3	29.6	38.5	43.0	51.9	68.2	99.3	1372.3	10315.6	12627.4	13338.7
70°	17.8	28.2	34.1	40.0	45.9	57.8	84.5	800.2	7946.0	10603.1	11354.4
72.5°	17.8	26.7	29.6	34.1	40.0	51.9	78.5	432.7	5432.7	8088.3	9059.0
75°	17.8	25.2	26.7	29.6	35.6	47.4	69.7	226.7	3512.1	5619.4	6935.4
77.5°	17.8	23.7	26.7	28.2	34.1	41.5	60.8	142.3	2339.9	3936.0	4687.3
80°	19.3	23.7	25.2	28.2	32.6	38.5	50.4	94.8	1375.2	2368.1	2852.7
82.5°	20.7	23.7	26.7	29.6	34.1	37.0	44.5	59.3	634.3	1566.4	1772.4
85°	22.2	25.2	28.2	31.1	35.6	37.0	41.5	43.0	103.7	706.9	955.8
87.5°	23.7	26.7	29.6	32.6	38.5	38.5	38.5	38.5	35.6	75.6	192.6
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: P456845

CATALOG NUMBER: GALN-SA8A-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4	6443.4
2.5°	7270.3	7437.7	7554.8	7584.5	7500.0	7461.5	7354.8	7188.8	7088.0	7083.6
5°	7661.5	8054.2	8326.9	8372.8	8209.8	7934.2	7606.7	7184.3	6936.9	6862.8
7.5°	7594.8	8282.4	8721.1	8784.8	8510.7	7984.6	7350.3	6670.1	6400.4	6286.3
10°	7320.7	8159.4	8786.3	8887.1	8521.0	7780.1	6973.9	6215.2	5880.2	5792.8
12.5°	7086.5	7934.2	8491.4	8630.7	8353.6	7614.1	6748.7	5923.2	5564.6	5483.1
15°	6984.3	7667.4	8008.3	8079.4	8033.5	7510.4	6724.9	5878.8	5468.3	5379.4
17.5°	7086.5	7440.7	7483.7	7556.3	7658.5	7500.0	6953.2	6120.3	5677.2	5567.6
20°	7354.8	7243.6	7065.8	7096.9	7331.0	7543.0	7359.2	6655.3	6115.9	5998.8
22.5°	7811.2	7194.7	6791.6	6765.0	7061.3	7686.7	7954.9	7379.9	6754.6	6639.0
25°	8371.4	7317.7	6690.9	6633.1	6956.1	7897.1	8602.5	8267.6	7584.5	7408.1
27.5°	8981.9	7572.6	6690.9	6634.5	6947.2	8083.9	9156.8	9053.0	8444.0	8251.3
30°	9316.8	7783.0	6787.2	6723.5	7056.9	8192.0	9453.2	9751.0	9090.1	8851.5
32.5°	9616.2	8075.0	6975.4	6855.3	7286.6	8352.1	9718.4	10343.8	9604.3	9444.3
35°	9891.8	8387.7	7234.7	7095.4	7588.9	8571.4	10011.8	10966.2	10320.1	10078.5
37.5°	10195.6	8750.7	7639.3	7520.7	8094.2	8998.2	10360.1	11784.2	11024.0	10720.2
40°	10526.1	9171.6	8304.7	8254.3	8897.4	9481.3	10800.2	12657.1	11827.2	11481.9
42.5°	10862.5	9656.2	9119.7	9202.7	9807.3	10158.5	11252.2	13328.4	12485.2	12104.3
45°	11167.7	10275.6	10179.3	10589.8	10868.4	10819.5	11587.1	13801.1	13058.7	12694.1
47.5°	11553.0	11178.1	11461.1	12093.9	12101.3	11538.2	11840.5	14187.9	13552.1	13187.6
50°	11984.3	12243.6	13116.4	13761.1	13587.7	12245.1	12136.9	14645.8	14061.9	13770.0
52.5°	12483.7	13436.5	14645.8	15361.6	14957.0	13015.7	12630.4	15140.7	14871.0	14591.0
55°	13064.6	14250.1	16170.7	16741.2	16333.7	13973.0	13380.2	15812.1	15785.4	15594.2
57.5°	13721.1	15109.6	17053.9	17826.0	17462.9	15096.3	14427.9	16444.8	16344.1	16237.4
59°	14239.7	15551.2	17443.6	18243.9	18024.6	15883.2	15131.9	16839.0	16473.0	16312.9
60°	14553.9	15850.6	17587.4	18300.2	18249.8	16351.5	15577.9	17031.7	16471.5	16249.2
62.5°	15486.0	16373.7	17532.6	18049.8	18246.8	17249.5	16886.4	17243.6	16166.2	15840.2
65°	15818.0	16200.3	16624.1	16560.4	16729.4	17203.6	17722.2	17010.9	15514.2	15050.4
67.5°	15171.9	14299.0	14448.7	14023.4	13940.4	15294.9	17382.9	15872.8	14238.3	13670.7
70°	12788.9	10954.3	10878.8	11074.4	10537.9	12382.9	15609.0	13681.1	12132.5	11489.3
72.5°	10066.7	7741.5	7104.3	7824.5	7808.2	9447.2	12966.8	9708.0	8196.5	8141.7
75°	7916.4	5389.7	4730.3	4847.4	5072.6	6839.0	10327.5	6164.8	5047.4	4599.9
77.5°	5314.2	3818.9	3562.5	3418.8	3661.8	4390.9	6533.8	3343.2	2830.5	2680.8
80°	3063.1	2774.1	3150.6	2860.1	2990.5	2766.7	3249.8	1533.8	1273.0	1378.2
82.5°	1993.2	1579.7	1683.5	1250.7	1710.1	1725.0	1043.3	453.5	383.8	407.5
85°	1246.3	741.0	416.4	296.4	589.8	1084.8	326.0	28.2	32.6	28.2
87.5°	323.1	123.0	51.9	77.1	94.8	84.5	75.6	4.4	1.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)