

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: P453597

Luminaire Tested: **GALN-SA4C-827-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453597  
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-SA4C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA 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: 14683 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

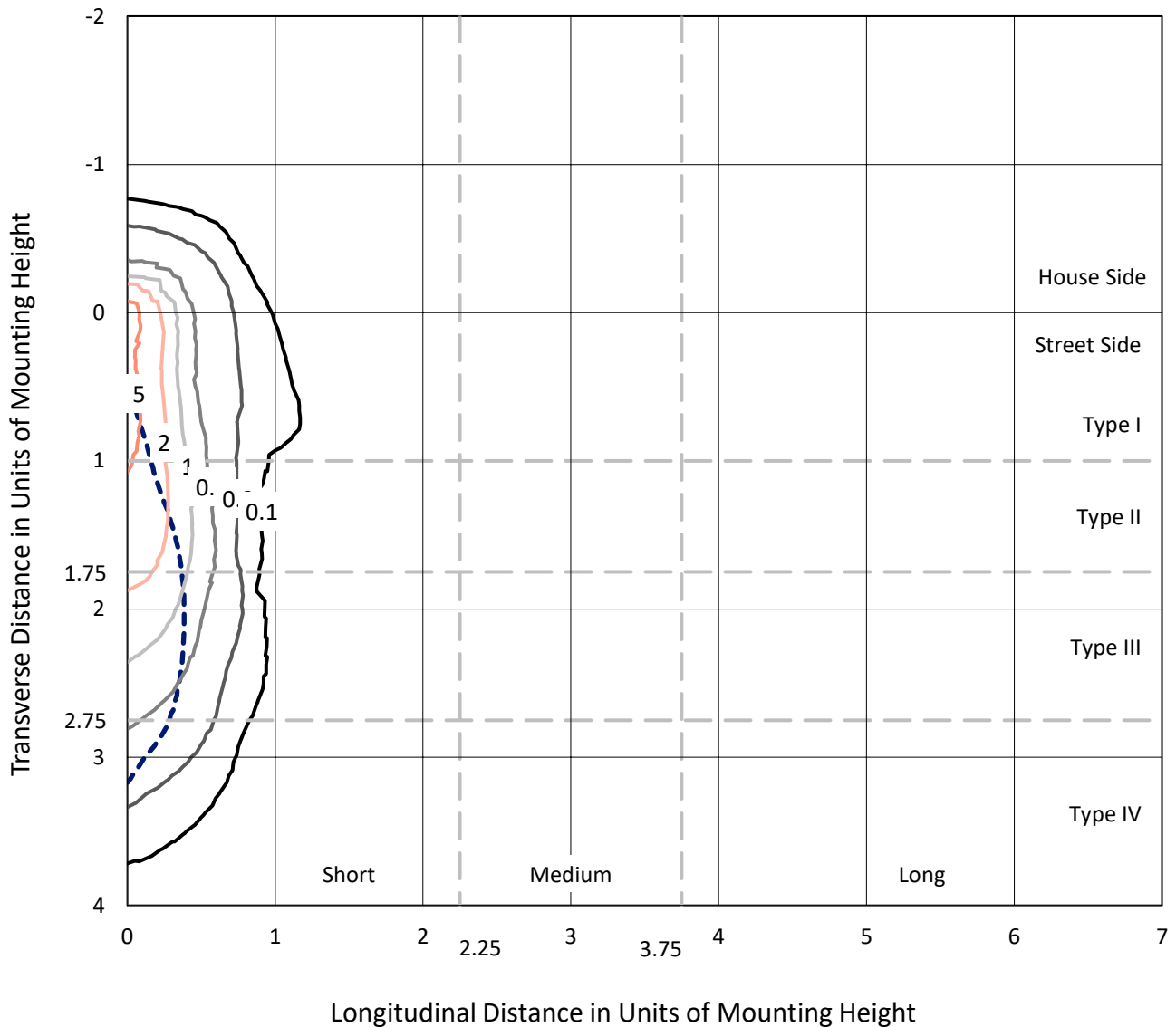
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

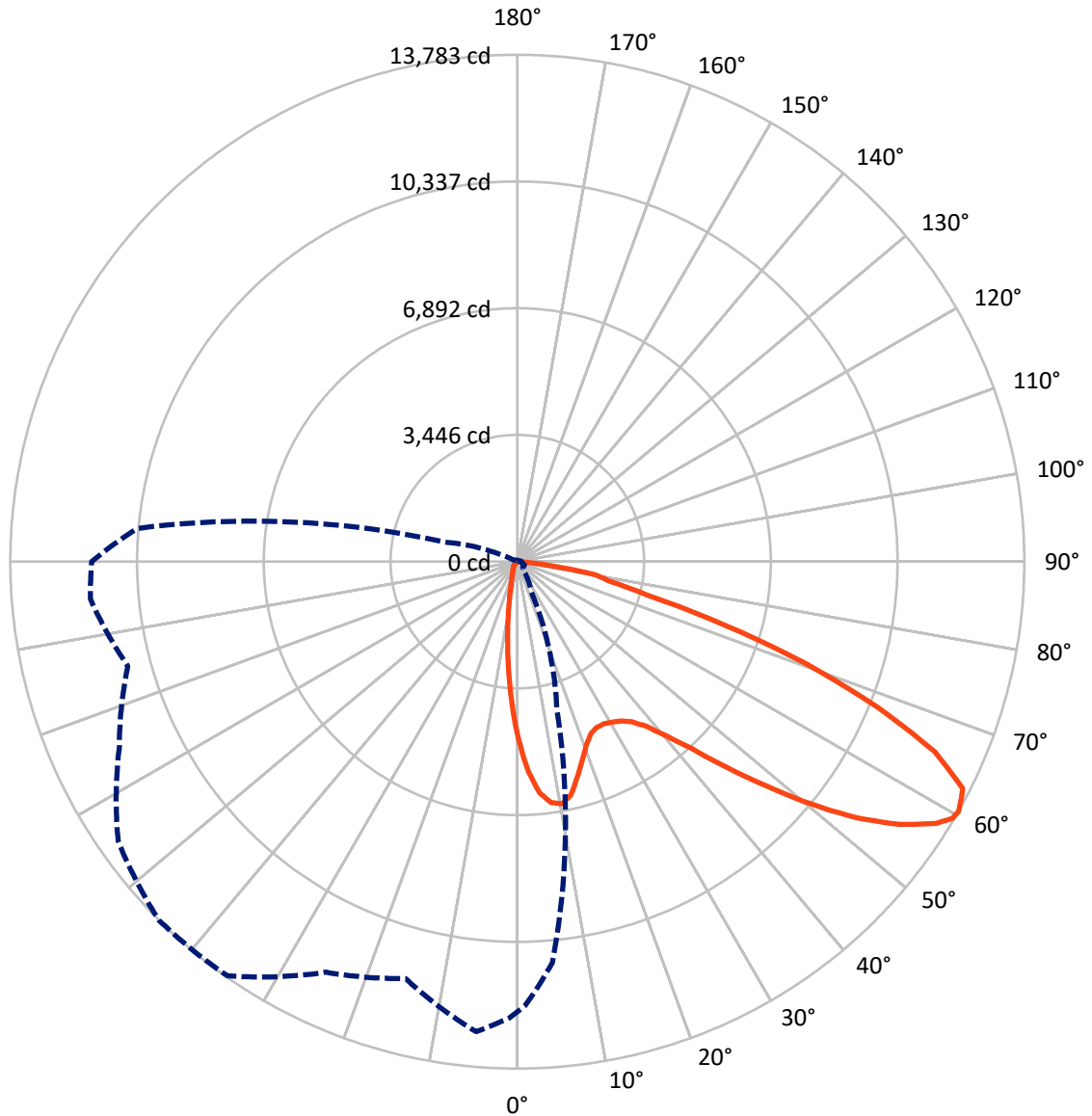
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1811.0	0.0	1811.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	12872.0	0.0	12872.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	14683.0	0.0	14683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.9	2.5
10°-20°	716.8	4.9
20°-30°	1051.1	7.2
30°-40°	1563.1	10.6
40°-50°	2274.9	15.5
50°-60°	3280.5	22.3
60°-70°	3608.2	24.6
70°-80°	1616.2	11.0
80°-90°	211.2	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°	14683.0	100.0
0°-180°	14683.0	100.0

**Coefficient of Utilization**



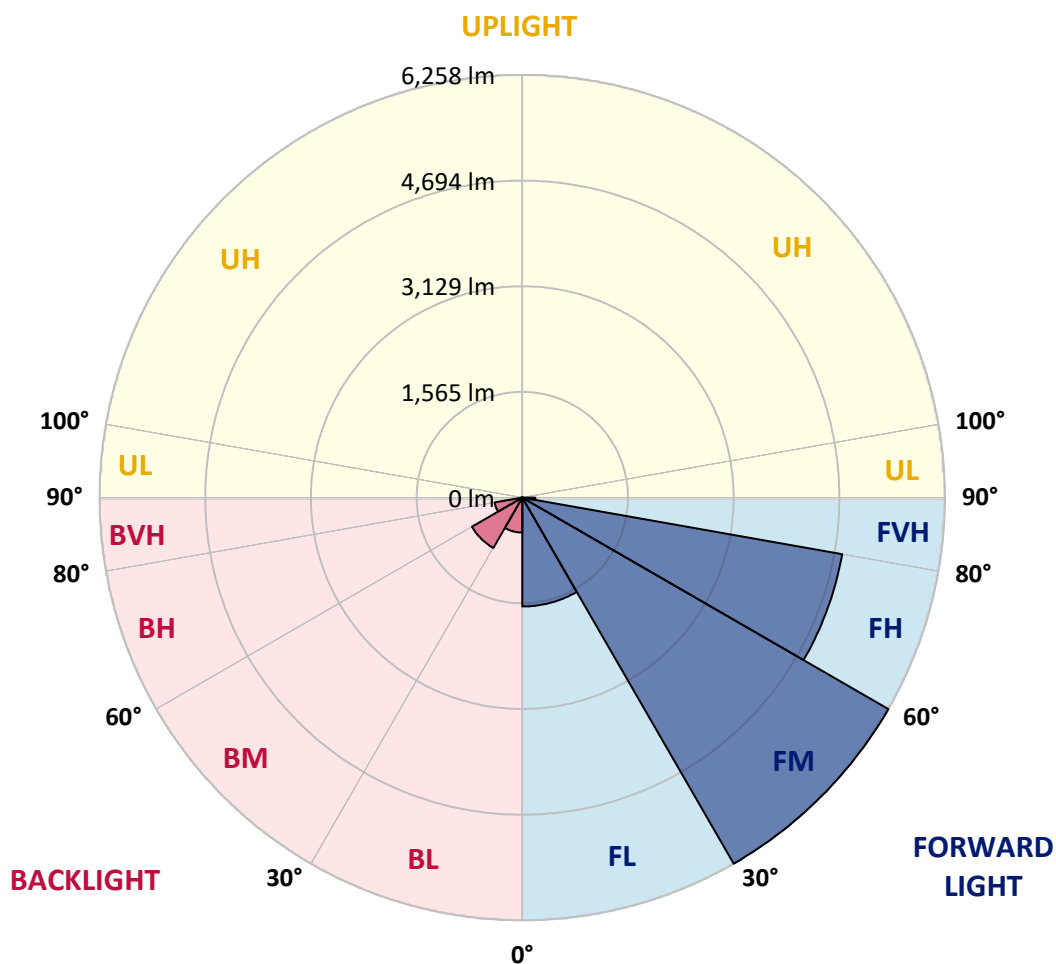
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.4	11.0			
FM (30°-60°)	6258.3	42.6			
FH (60°-80°)	4809.1	32.8			G2/5000
FVH (80°-90°)	193.1	1.3			G2/225
BL (0°-30°)	517.5	3.5	B2/1000		
BM (30°-60°)	860.2	5.9	B1/1000		
BH (60°-80°)	415.3	2.8	B1/500		G1/500
BVH (80°-90°)	18.1	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9
2.5°	5335.1	5311.7	5258.1	5095.1	4953.4	4768.1	4580.6	4433.3	4342.9	4176.6	4100.7
5°	5168.8	5180.0	5024.8	4690.0	4317.2	4062.7	3784.8	3563.8	3320.5	3166.5	3004.6
7.5°	4734.6	4712.3	4543.8	4077.2	3624.1	3255.8	2904.2	2618.4	2438.7	2294.8	2174.2
10°	4363.0	4346.2	4130.8	3530.3	3043.7	2768.0	2530.3	2280.3	2087.2	1876.2	1707.7
12.5°	4129.7	4091.7	3844.0	3216.7	2820.5	2563.8	2304.8	2044.8	1778.0	1564.8	1360.6
15°	4051.6	3996.9	3721.2	3108.4	2677.6	2351.7	2026.9	1727.8	1420.8	1185.3	1031.3
17.5°	4193.3	4102.9	3809.4	3089.5	2506.8	2074.9	1675.3	1285.8	966.6	786.9	692.0
20°	4518.1	4414.3	4032.6	3070.5	2317.1	1764.6	1273.5	908.5	668.6	570.3	517.9
22.5°	5000.3	4857.4	4363.0	3100.6	2141.9	1462.1	919.7	641.8	531.3	469.9	433.1
25°	5579.5	5460.1	4781.5	3207.8	2003.5	1224.4	711.0	524.6	447.6	409.6	381.7
27.5°	6214.6	6023.8	5322.8	3336.1	1877.3	1040.2	623.9	468.8	398.5	363.9	349.3
30°	6666.7	6518.2	5776.0	3425.4	1720.0	901.8	570.3	462.1	399.6	358.3	331.5
32.5°	7113.1	6923.4	6155.5	3466.7	1605.0	805.8	493.3	402.9	350.5	329.3	302.5
35°	7590.8	7392.1	6533.8	3444.4	1519.1	742.2	447.6	359.4	300.2	264.5	237.7
37.5°	8074.1	7864.3	6910.0	3364.0	1465.5	716.6	411.9	341.5	283.5	246.7	217.6
40°	8647.8	8367.6	7262.7	3298.2	1409.7	703.2	388.4	330.4	271.2	232.2	203.1
42.5°	9116.6	8849.8	7596.4	3263.6	1371.7	671.9	388.4	321.4	263.4	219.9	189.7
45°	9560.8	9284.0	7956.9	3291.5	1356.1	632.8	392.9	320.3	257.8	210.9	180.8
47.5°	9932.5	9692.5	8327.5	3396.4	1336.0	590.4	369.4	336.0	254.5	203.1	171.9
50°	10371.1	10138.9	8817.4	3608.5	1300.3	548.0	340.4	361.6	253.4	196.4	164.1
52.5°	10989.4	10738.3	9493.8	3849.5	1243.4	483.3	313.6	358.3	248.9	185.3	156.3
55°	11745.1	11541.9	10277.3	4138.6	1165.2	410.7	271.2	318.1	235.5	166.3	142.9
57.5°	12229.5	12056.5	10864.4	4263.6	1045.8	336.0	238.9	266.8	215.4	148.4	127.2
59°	12286.4	12130.1	10987.2	4222.3	967.7	306.9	223.2	228.8	209.8	138.4	118.3
60°	12238.4	12076.5	10938.1	4142.0	895.1	286.8	209.8	203.1	210.9	132.8	111.6
62.5°	11930.3	11653.5	10461.5	3734.6	782.4	263.4	186.4	166.3	186.4	119.4	99.3
65°	11335.4	10920.2	9518.4	3160.9	737.8	250.0	158.5	139.5	141.7	104.9	85.9
67.5°	10296.3	9772.9	8262.7	2568.2	718.8	251.1	133.9	125.0	109.4	89.3	75.9
70°	8653.4	8131.0	6629.8	2112.8	709.9	251.1	113.8	107.1	91.5	74.8	65.9
72.5°	6132.0	5569.5	4472.3	1659.7	639.5	250.0	97.1	97.1	74.8	62.5	53.6
75°	3464.5	3468.9	2811.5	1174.2	531.3	206.5	78.1	77.0	54.7	48.0	40.2
77.5°	2019.1	1983.4	1895.2	504.5	246.7	93.8	54.7	46.9	37.9	34.6	29.0
80°	1038.0	853.8	831.5	183.0	88.2	59.2	37.9	26.8	24.6	22.3	20.1
82.5°	306.9	308.1	274.6	73.7	49.1	39.1	19.0	14.5	13.4	12.3	12.3
85°	21.2	13.4	15.6	22.3	30.1	15.6	1.1	3.3	3.3	4.5	5.6
87.5°	2.2	1.1	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°	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9
2.5°	4017.0	4066.1	3974.5	3976.8	3900.9	3925.4	3836.1	3865.2	3812.7	3852.9	3971.2
5°	3022.5	3033.6	2960.0	2936.5	2947.7	2993.5	3011.3	2929.8	2964.4	2896.4	2891.9
7.5°	2129.6	2143.0	2100.6	2095.0	2175.3	2156.4	2191.0	2107.3	2028.0	2062.6	1999.0
10°	1654.1	1598.3	1511.2	1486.7	1471.1	1481.1	1481.1	1405.2	1394.0	1363.9	1409.7
12.5°	1305.9	1237.8	1155.2	1043.6	1015.7	1013.4	972.2	905.2	884.0	858.3	896.3
15°	948.7	920.8	851.6	789.1	725.5	713.2	646.2	591.5	519.0	509.0	505.6
17.5°	667.4	626.1	625.0	589.3	552.5	527.9	465.4	402.9	375.0	371.7	371.7
20°	500.0	485.5	462.1	457.6	446.5	418.5	362.7	329.3	315.9	317.0	321.4
22.5°	420.8	410.7	389.5	379.5	375.0	350.5	309.2	286.8	280.1	280.1	281.3
25°	376.1	367.2	343.8	328.1	322.6	304.7	272.3	255.6	250.0	250.0	250.0
27.5°	342.7	331.5	306.9	293.5	283.5	263.4	243.3	226.6	221.0	221.0	222.1
30°	319.2	306.9	284.6	266.8	251.1	233.3	216.5	202.0	195.3	194.2	195.3
32.5°	288.0	276.8	254.5	243.3	225.5	204.3	190.9	177.5	170.8	171.9	170.8
35°	224.3	221.0	205.4	208.7	198.7	180.8	168.5	154.0	146.2	145.1	147.3
37.5°	204.3	190.9	173.0	174.1	170.8	164.1	144.0	128.4	122.8	122.8	123.9
40°	188.6	175.2	155.1	145.1	146.2	146.2	125.0	108.3	102.7	101.6	103.8
42.5°	175.2	161.8	139.5	122.8	118.3	123.9	106.0	89.3	83.7	81.5	83.7
45°	166.3	151.8	126.1	107.1	93.8	100.5	87.1	73.7	67.0	67.0	65.9
47.5°	157.4	144.0	116.1	92.6	78.1	74.8	71.4	59.2	52.5	51.3	52.5
50°	149.6	136.2	104.9	80.4	65.9	58.0	58.0	46.9	42.4	40.2	41.3
52.5°	141.7	127.2	94.9	71.4	56.9	46.9	41.3	37.9	34.6	33.5	34.6
55°	130.6	116.1	84.8	61.4	49.1	39.1	32.4	31.3	29.0	26.8	29.0
57.5°	117.2	103.8	74.8	52.5	39.1	30.1	26.8	25.7	23.4	22.3	22.3
59°	109.4	97.1	69.2	45.8	34.6	26.8	24.6	23.4	21.2	19.0	20.1
60°	104.9	94.9	65.9	42.4	31.3	24.6	22.3	21.2	19.0	17.9	19.0
62.5°	92.6	84.8	58.0	34.6	24.6	17.9	15.6	16.7	15.6	14.5	15.6
65°	81.5	74.8	49.1	26.8	19.0	12.3	11.2	14.5	13.4	12.3	13.4
67.5°	72.5	64.7	41.3	20.1	13.4	6.7	7.8	12.3	12.3	11.2	12.3
70°	62.5	55.8	33.5	14.5	6.7	3.3	5.6	8.9	11.2	10.0	11.2
72.5°	51.3	43.5	25.7	10.0	3.3	0.0	3.3	7.8	11.2	10.0	11.2
75°	40.2	32.4	19.0	5.6	0.0	0.0	1.1	6.7	11.2	10.0	11.2
77.5°	29.0	23.4	11.2	1.1	0.0	0.0	1.1	6.7	11.2	10.0	11.2
80°	19.0	16.7	4.5	0.0	0.0	0.0	1.1	6.7	11.2	11.2	12.3
82.5°	12.3	8.9	0.0	0.0	0.0	0.0	2.2	8.9	12.3	13.4	13.4
85°	5.6	0.0	0.0	0.0	0.0	0.0	4.5	11.2	14.5	14.5	14.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	7.8	13.4	16.7	16.7	16.7
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°	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9
2.5°	3991.3	4061.6	4160.9	4313.8	4437.7	4633.1	4782.6	4986.9	5193.4	5255.9	5353.0
5°	2937.7	3028.1	3253.5	3458.9	3588.4	4001.3	4262.5	4674.4	5043.8	5221.3	5414.4
7.5°	2040.3	2147.4	2319.3	2606.2	2878.5	3214.5	3636.4	4107.4	4648.7	4902.1	5174.4
10°	1432.0	1565.9	1808.1	2043.6	2386.3	2705.5	3121.8	3641.9	4239.1	4538.2	4879.7
12.5°	904.1	1023.5	1343.8	1608.3	2035.8	2406.4	2790.3	3261.3	3953.3	4260.3	4618.6
15°	516.8	617.2	766.8	1106.1	1580.4	2070.4	2549.2	3096.1	3807.1	4185.5	4572.8
17.5°	385.1	411.9	478.8	670.8	1102.7	1675.3	2327.1	3045.9	3906.5	4350.7	4792.7
20°	323.7	341.5	372.8	448.7	703.2	1290.2	2110.6	3054.9	4227.9	4786.0	5205.6
22.5°	290.2	301.4	327.0	376.1	479.9	939.8	1857.2	3107.3	4617.4	5320.6	5805.0
25°	254.5	269.0	291.3	333.7	399.6	651.8	1607.2	3224.5	5163.2	5999.2	6454.6
27.5°	226.6	240.0	262.3	301.4	350.5	497.8	1315.9	3325.0	5739.2	6682.3	7055.1
30°	198.7	212.1	234.4	265.6	310.3	402.9	1002.3	3384.1	6298.3	7194.6	7481.4
32.5°	175.2	186.4	207.6	235.5	272.3	341.5	790.2	3322.7	6725.8	7660.0	7852.0
35°	151.8	165.2	183.0	208.7	241.1	291.3	657.4	3110.7	7093.0	8138.8	8208.0
37.5°	127.2	142.9	161.8	185.3	210.9	267.9	527.9	2876.3	7485.9	8736.0	8622.1
40°	107.1	121.7	139.5	165.2	188.6	245.5	406.3	2626.3	7910.0	9296.3	9074.2
42.5°	87.1	102.7	123.9	147.3	186.4	214.3	314.7	2367.3	8290.6	9784.0	9482.7
45°	69.2	82.6	104.9	135.1	185.3	184.2	243.3	2111.7	8577.5	10132.2	9787.4
47.5°	54.7	65.9	88.2	131.7	170.8	156.3	195.3	1953.2	8878.8	10445.9	10020.6
50°	43.5	54.7	75.9	137.3	149.6	133.9	164.1	1978.9	9170.1	10605.5	10116.6
52.5°	36.8	48.0	65.9	108.3	115.0	117.2	144.0	2097.2	9546.3	10776.3	10307.5
55°	32.4	42.4	55.8	75.9	89.3	104.9	131.7	2183.2	10049.7	11142.3	10728.3
57.5°	25.7	36.8	50.2	64.7	73.7	91.5	121.7	2189.9	10505.0	11612.2	11287.4
59°	23.4	33.5	46.9	61.4	65.9	82.6	115.0	2132.9	10521.8	11682.6	11544.2
60°	21.2	32.4	44.6	56.9	62.5	78.1	109.4	2067.1	10370.0	11570.9	11650.2
62.5°	17.9	27.9	39.1	45.8	53.6	64.7	94.9	1828.2	9634.5	11065.3	11453.7
65°	15.6	24.6	33.5	37.9	44.6	55.8	83.7	1463.2	8821.9	10380.0	10891.2
67.5°	14.5	22.3	29.0	32.4	39.1	51.3	74.8	1033.5	7769.4	9510.6	10046.3
70°	13.4	21.2	25.7	30.1	34.6	43.5	63.6	602.7	5984.7	7985.9	8551.8
72.5°	13.4	20.1	22.3	25.7	30.1	39.1	59.2	325.9	4091.7	6091.8	6822.9
75°	13.4	19.0	20.1	22.3	26.8	35.7	52.5	170.8	2645.2	4232.4	5223.5
77.5°	13.4	17.9	20.1	21.2	25.7	31.3	45.8	107.1	1762.4	2964.4	3530.3
80°	14.5	17.9	19.0	21.2	24.6	29.0	37.9	71.4	1035.8	1783.6	2148.6
82.5°	15.6	17.9	20.1	22.3	25.7	27.9	33.5	44.6	477.7	1179.8	1334.9
85°	16.7	19.0	21.2	23.4	26.8	27.9	31.3	32.4	78.1	532.4	719.9
87.5°	17.9	20.1	22.3	24.6	29.0	29.0	29.0	29.0	26.8	56.9	145.1
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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CATALOG NUMBER: GALN-SA4C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9	4852.9
2.5°	5475.7	5601.9	5690.0	5712.4	5648.7	5619.7	5539.4	5414.4	5338.5	5335.1
5°	5770.4	6066.2	6271.5	6306.1	6183.4	5975.8	5729.1	5411.0	5224.6	5168.8
7.5°	5720.2	6238.1	6568.4	6616.4	6409.9	6013.7	5536.0	5023.7	4820.6	4734.6
10°	5513.7	6145.4	6617.5	6693.4	6417.8	5859.7	5252.5	4681.1	4428.8	4363.0
12.5°	5337.3	5975.8	6395.4	6500.4	6291.6	5734.7	5082.9	4461.2	4191.1	4129.7
15°	5260.3	5774.9	6031.6	6085.2	6050.6	5656.6	5065.0	4427.7	4118.5	4051.6
17.5°	5337.3	5604.1	5636.5	5691.2	5768.2	5648.7	5236.9	4609.6	4275.9	4193.3
20°	5539.4	5455.7	5321.7	5345.2	5521.5	5681.1	5542.7	5012.5	4606.3	4518.1
22.5°	5883.1	5418.8	5115.2	5095.1	5318.4	5789.4	5991.4	5558.3	5087.3	5000.3
25°	6305.0	5511.5	5039.3	4995.8	5239.1	5947.9	6479.1	6226.9	5712.4	5579.5
27.5°	6764.9	5703.4	5039.3	4996.9	5232.4	6088.5	6896.6	6818.4	6359.7	6214.6
30°	7017.1	5861.9	5111.9	5063.9	5315.0	6170.0	7119.8	7344.1	6846.4	6666.7
32.5°	7242.6	6081.8	5253.6	5163.2	5488.0	6290.5	7319.6	7790.6	7233.7	7113.1
35°	7450.2	6317.3	5449.0	5344.0	5715.7	6455.7	7540.6	8259.4	7772.7	7590.8
37.5°	7679.0	6590.8	5753.7	5664.4	6096.3	6777.2	7802.9	8875.5	8302.9	8074.1
40°	7927.9	6907.7	6254.8	6216.9	6701.3	7141.0	8134.4	9532.9	8907.8	8647.8
42.5°	8181.2	7272.7	6868.7	6931.2	7386.6	7651.1	8474.8	10038.5	9403.4	9116.6
45°	8411.2	7739.3	7666.7	7975.9	8185.7	8148.9	8727.0	10394.5	9835.4	9560.8
47.5°	8701.4	8419.0	8632.2	9108.8	9114.3	8690.2	8917.9	10685.8	10207.0	9932.5
50°	9026.2	9221.5	9878.9	10364.4	10233.8	9222.6	9141.1	11030.7	10591.0	10371.1
52.5°	9402.3	10120.0	11030.7	11569.8	11265.1	9803.0	9512.8	11403.5	11200.4	10989.4
55°	9839.8	10732.7	12179.2	12608.9	12302.0	10524.0	10077.6	11909.1	11889.0	11745.1
57.5°	10334.3	11380.1	12844.4	13426.0	13152.5	11370.0	10866.7	12385.7	12309.8	12229.5
59°	10724.9	11712.7	13138.0	13740.7	13575.5	11962.7	11396.8	12682.6	12406.9	12286.4
60°	10961.5	11938.1	13246.3	13783.1	13745.2	12315.4	11732.8	12827.7	12405.8	12238.4
62.5°	11663.6	12332.1	13205.0	13594.5	13742.9	12991.8	12718.3	12987.3	12175.9	11930.3
65°	11913.6	12201.6	12520.8	12472.8	12600.0	12957.2	13347.8	12812.1	11684.8	11335.4
67.5°	11427.0	10769.6	10882.3	10562.0	10499.5	11519.6	13092.2	11954.9	10723.8	10296.3
70°	9632.2	8250.4	8193.5	8340.9	7936.8	9326.4	11756.2	10304.1	9137.8	8653.4
72.5°	7581.9	5830.7	5350.7	5893.2	5880.9	7115.3	9766.2	7311.8	6173.3	6132.0
75°	5962.4	4059.4	3562.7	3650.9	3820.5	5150.9	7778.3	4643.1	3801.5	3464.5
77.5°	4002.4	2876.3	2683.2	2574.9	2758.0	3307.1	4921.0	2518.0	2131.8	2019.1
80°	2307.0	2089.4	2372.9	2154.1	2252.4	2083.8	2447.7	1155.2	958.8	1038.0
82.5°	1501.2	1189.8	1267.9	942.0	1288.0	1299.2	785.8	341.5	289.1	306.9
85°	938.7	558.1	313.6	223.2	444.2	817.0	245.5	21.2	24.6	21.2
87.5°	243.3	92.6	39.1	58.0	71.4	63.6	56.9	3.3	1.1	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)