

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: P452669

Luminaire Tested: **GALN-SA3C-827-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452669  
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-SA3C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 11080 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

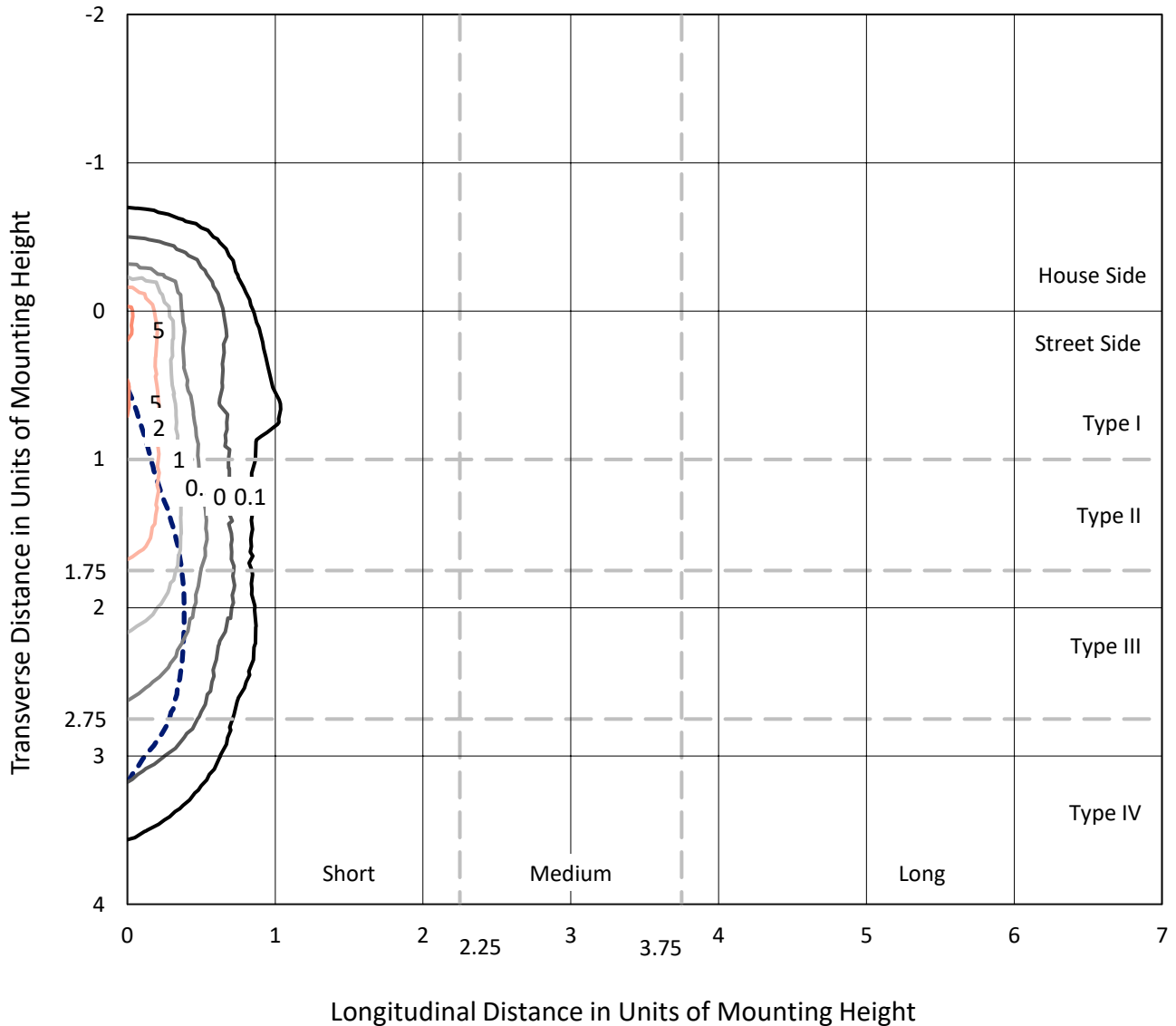
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

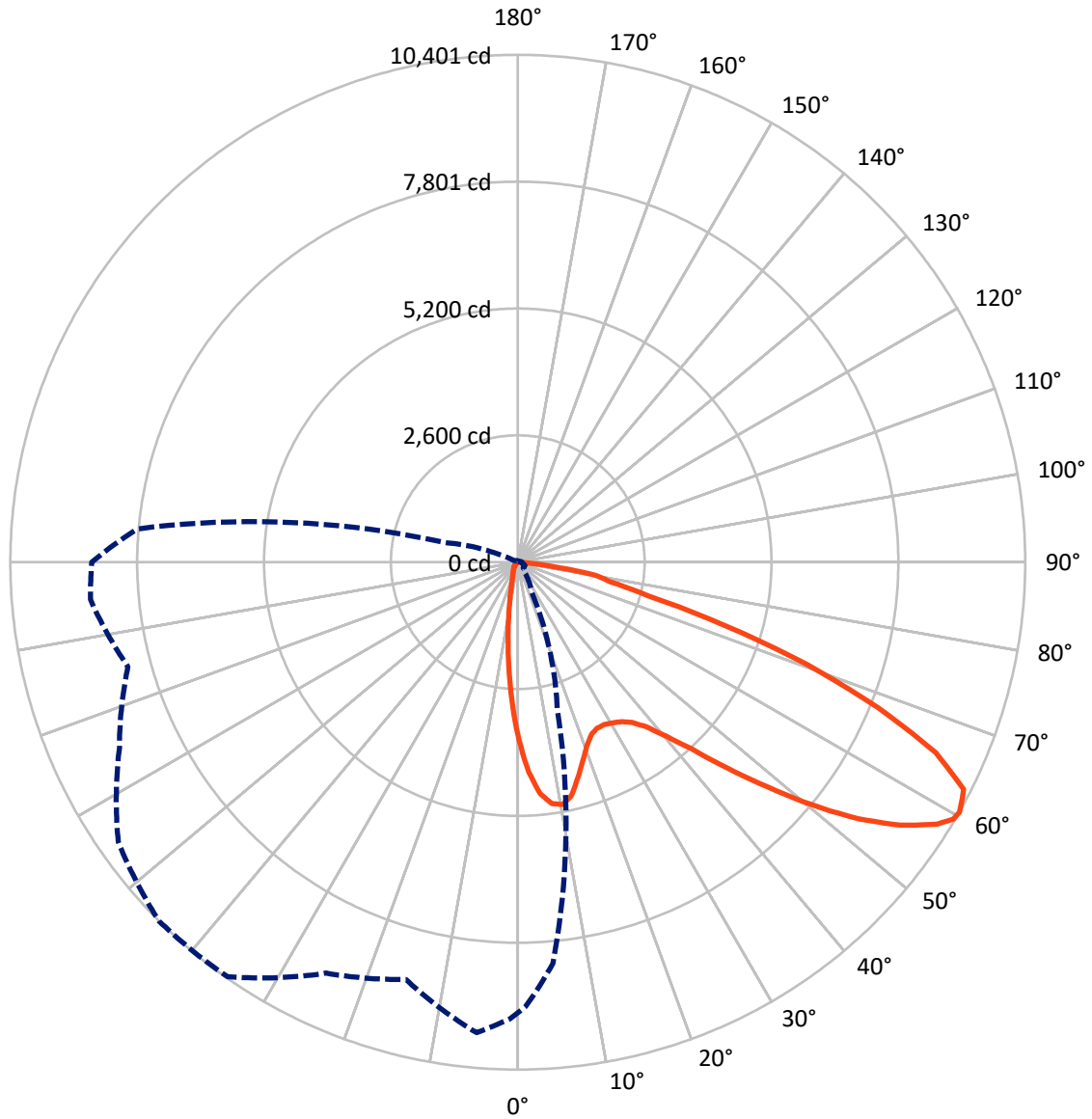
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1366.6	0.0	1366.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	9713.4	0.0	9713.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	11080.0	0.0	11080.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.4	2.5
10°-20°	540.9	4.9
20°-30°	793.2	7.2
30°-40°	1179.6	10.6
40°-50°	1716.6	15.5
50°-60°	2475.5	22.3
60°-70°	2722.8	24.6
70°-80°	1219.6	11.0
80°-90°	159.4	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°	11080.0	100.0
0°-180°	11080.0	100.0

**Coefficient of Utilization**

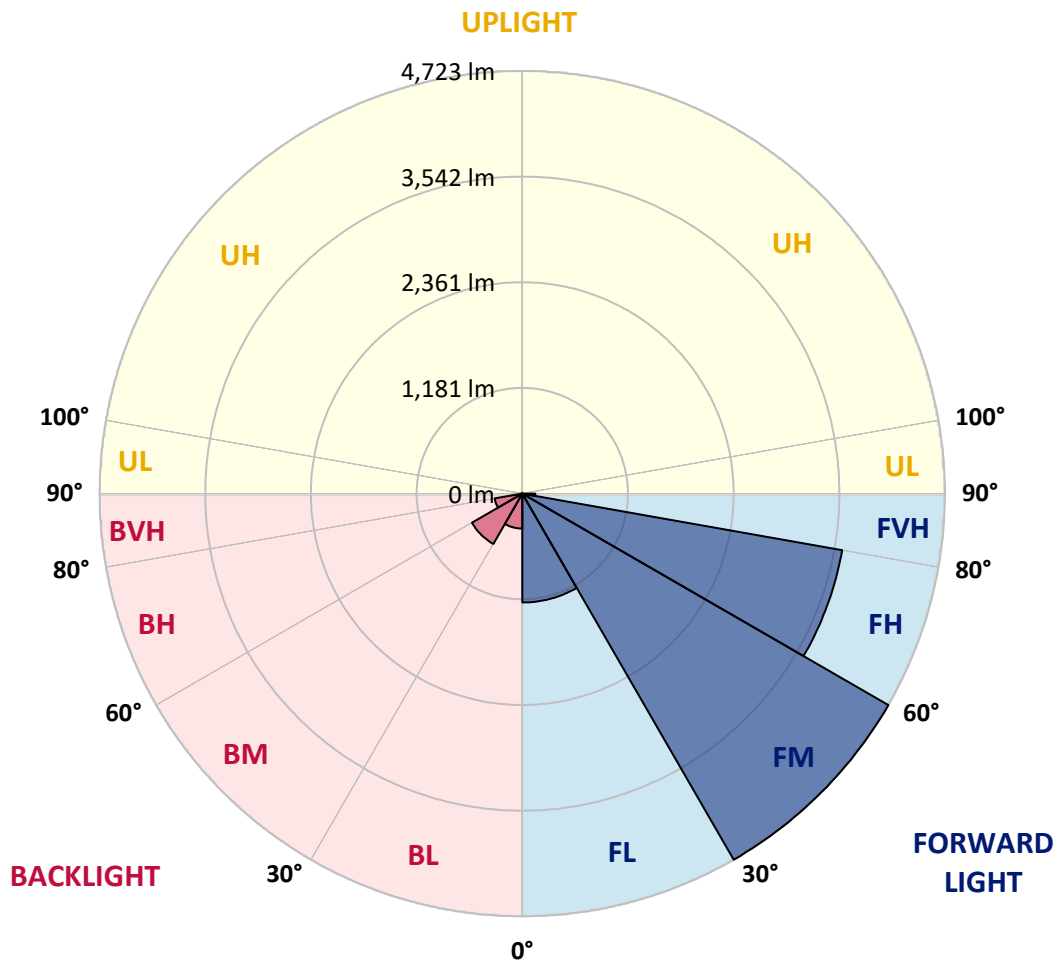


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.0	11.0			
FM (30°-60°)	4722.6	42.6			
FH (60°-80°)	3629.0	32.8			G2/5000
FVH (80°-90°)	145.7	1.3			G2/225
BL (0°-30°)	390.5	3.5	B1/500		
BM (30°-60°)	649.1	5.9	B1/1000		
BH (60°-80°)	313.4	2.8	B1/500		G1/500
BVH (80°-90°)	13.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
2.5°	4025.9	4008.3	3967.8	3844.9	3737.9	3598.1	3456.6	3345.4	3277.2	3151.7	3094.4
5°	3900.5	3908.9	3791.8	3539.1	3257.8	3065.8	2856.1	2689.3	2505.7	2389.5	2267.3
7.5°	3572.8	3556.0	3428.8	3076.7	2734.8	2456.8	2191.5	1975.9	1840.3	1731.7	1640.7
10°	3292.4	3279.7	3117.2	2664.0	2296.8	2088.8	1909.4	1720.7	1575.0	1415.8	1288.6
12.5°	3116.3	3087.7	2900.7	2427.4	2128.4	1934.6	1739.2	1543.0	1341.7	1180.8	1026.7
15°	3057.4	3016.1	2808.1	2345.7	2020.6	1774.6	1529.5	1303.8	1072.2	894.5	778.2
17.5°	3164.3	3096.1	2874.6	2331.3	1891.7	1565.7	1264.2	970.3	729.4	593.8	522.2
20°	3409.4	3331.1	3043.0	2317.0	1748.5	1331.6	961.0	685.6	504.5	430.4	390.8
22.5°	3773.3	3665.5	3292.4	2339.8	1616.3	1103.3	694.0	484.3	400.9	354.6	326.8
25°	4210.4	4120.3	3608.2	2420.6	1511.8	923.9	536.5	395.9	337.7	309.1	288.0
27.5°	4689.6	4545.6	4016.7	2517.5	1416.7	785.0	470.8	353.7	300.7	274.6	263.6
30°	5030.8	4918.7	4358.6	2584.9	1297.9	680.5	430.4	348.7	301.5	270.4	250.1
32.5°	5367.7	5224.5	4645.0	2616.0	1211.2	608.1	372.3	304.1	264.5	248.5	228.2
35°	5728.1	5578.2	4930.5	2599.2	1146.3	560.1	337.7	271.2	226.6	199.6	179.4
37.5°	6092.8	5934.5	5214.4	2538.5	1105.9	540.7	310.8	257.7	213.9	186.1	164.2
40°	6525.7	6314.3	5480.5	2488.8	1063.8	530.6	293.1	249.3	204.7	175.2	153.3
42.5°	6879.5	6678.2	5732.3	2462.7	1035.1	507.0	293.1	242.6	198.8	165.9	143.2
45°	7214.7	7005.8	6004.4	2483.8	1023.3	477.6	296.5	241.7	194.6	159.2	136.4
47.5°	7495.2	7314.1	6284.0	2563.0	1008.2	445.5	278.8	253.5	192.0	153.3	129.7
50°	7826.2	7651.0	6653.8	2723.0	981.2	413.5	256.9	272.9	191.2	148.2	123.8
52.5°	8292.8	8103.3	7164.2	2904.9	938.3	364.7	236.7	270.4	187.8	139.8	117.9
55°	8863.0	8709.7	7755.4	3123.1	879.3	309.9	204.7	240.0	177.7	125.5	107.8
57.5°	9228.5	9098.0	8198.5	3217.4	789.2	253.5	180.2	201.3	162.6	112.0	96.0
59°	9271.5	9153.6	8291.1	3186.2	730.2	231.6	168.4	172.7	158.3	104.4	89.3
60°	9235.3	9113.1	8254.0	3125.6	675.5	216.5	158.3	153.3	159.2	100.2	84.2
62.5°	9002.8	8793.9	7894.4	2818.2	590.4	198.8	140.7	125.5	140.7	90.1	75.0
65°	8553.9	8240.6	7182.7	2385.2	556.7	188.7	119.6	105.3	107.0	79.2	64.9
67.5°	7769.7	7374.7	6235.2	1938.0	542.4	189.5	101.1	94.3	82.5	67.4	57.3
70°	6530.0	6135.8	5003.0	1594.4	535.7	189.5	85.9	80.9	69.1	56.4	49.7
72.5°	4627.3	4202.8	3374.9	1252.4	482.6	188.7	73.3	73.3	56.4	47.2	40.4
75°	2614.3	2617.7	2121.6	886.0	400.9	155.8	59.0	58.1	41.3	36.2	30.3
77.5°	1523.6	1496.7	1430.1	380.7	186.1	70.7	41.3	35.4	28.6	26.1	21.9
80°	783.3	644.3	627.5	138.1	66.5	44.6	28.6	20.2	18.5	16.8	15.2
82.5°	231.6	232.5	207.2	55.6	37.1	29.5	14.3	10.9	10.1	9.3	9.3
85°	16.0	10.1	11.8	16.8	22.7	11.8	0.8	2.5	2.5	3.4	4.2
87.5°	1.7	0.8	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°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
2.5°	3031.3	3068.3	2999.2	3000.9	2943.7	2962.2	2894.8	2916.7	2877.1	2907.4	2996.7
5°	2280.8	2289.2	2233.6	2216.0	2224.4	2258.9	2272.4	2210.9	2237.0	2185.6	2182.3
7.5°	1607.0	1617.1	1585.1	1580.9	1641.5	1627.2	1653.3	1590.2	1530.4	1556.5	1508.5
10°	1248.2	1206.1	1140.4	1121.9	1110.1	1117.7	1117.7	1060.4	1052.0	1029.2	1063.8
12.5°	985.4	934.1	871.7	787.5	766.4	764.8	733.6	683.1	667.1	647.7	676.3
15°	715.9	694.9	642.6	595.5	547.5	538.2	487.7	446.4	391.6	384.1	381.5
17.5°	503.7	472.5	471.7	444.7	416.9	398.4	351.2	304.1	283.0	280.5	280.5
20°	377.3	366.4	348.7	345.3	336.9	315.8	273.7	248.5	238.4	239.2	242.6
22.5°	317.5	309.9	293.9	286.4	283.0	264.5	233.3	216.5	211.4	211.4	212.2
25°	283.8	277.1	259.4	247.6	243.4	229.9	205.5	192.9	188.7	188.7	188.7
27.5°	258.6	250.1	231.6	221.5	213.9	198.8	183.6	171.0	166.8	166.8	167.6
30°	240.9	231.6	214.8	201.3	189.5	176.0	163.4	152.4	147.4	146.6	147.4
32.5°	217.3	208.9	192.0	183.6	170.1	154.1	144.0	133.9	128.9	129.7	128.9
35°	169.3	166.8	155.0	157.5	149.9	136.4	127.2	116.2	110.3	109.5	111.2
37.5°	154.1	144.0	130.5	131.4	128.9	123.8	108.7	96.9	92.6	92.6	93.5
40°	142.3	132.2	117.1	109.5	110.3	110.3	94.3	81.7	77.5	76.6	78.3
42.5°	132.2	122.1	105.3	92.6	89.3	93.5	80.0	67.4	63.2	61.5	63.2
45°	125.5	114.5	95.2	80.9	70.7	75.8	65.7	55.6	50.5	50.5	49.7
47.5°	118.8	108.7	87.6	69.9	59.0	56.4	53.9	44.6	39.6	38.7	39.6
50°	112.9	102.8	79.2	60.6	49.7	43.8	43.8	35.4	32.0	30.3	31.2
52.5°	107.0	96.0	71.6	53.9	43.0	35.4	31.2	28.6	26.1	25.3	26.1
55°	98.5	87.6	64.0	46.3	37.1	29.5	24.4	23.6	21.9	20.2	21.9
57.5°	88.4	78.3	56.4	39.6	29.5	22.7	20.2	19.4	17.7	16.8	16.8
59°	82.5	73.3	52.2	34.5	26.1	20.2	18.5	17.7	16.0	14.3	15.2
60°	79.2	71.6	49.7	32.0	23.6	18.5	16.8	16.0	14.3	13.5	14.3
62.5°	69.9	64.0	43.8	26.1	18.5	13.5	11.8	12.6	11.8	10.9	11.8
65°	61.5	56.4	37.1	20.2	14.3	9.3	8.4	10.9	10.1	9.3	10.1
67.5°	54.7	48.9	31.2	15.2	10.1	5.1	5.9	9.3	9.3	8.4	9.3
70°	47.2	42.1	25.3	10.9	5.1	2.5	4.2	6.7	8.4	7.6	8.4
72.5°	38.7	32.8	19.4	7.6	2.5	0.0	2.5	5.9	8.4	7.6	8.4
75°	30.3	24.4	14.3	4.2	0.0	0.0	0.8	5.1	8.4	7.6	8.4
77.5°	21.9	17.7	8.4	0.8	0.0	0.0	0.8	5.1	8.4	7.6	8.4
80°	14.3	12.6	3.4	0.0	0.0	0.0	0.8	5.1	8.4	8.4	9.3
82.5°	9.3	6.7	0.0	0.0	0.0	0.0	1.7	6.7	9.3	10.1	10.1
85°	4.2	0.0	0.0	0.0	0.0	0.0	3.4	8.4	10.9	10.9	10.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.9	10.1	12.6	12.6	12.6
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°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
2.5°	3011.9	3064.9	3139.9	3255.3	3348.8	3496.2	3609.0	3763.2	3919.0	3966.2	4039.4
5°	2216.8	2285.0	2455.2	2610.1	2707.8	3019.5	3216.5	3527.3	3806.1	3940.0	4085.7
7.5°	1539.6	1620.5	1750.2	1966.7	2172.2	2425.7	2744.0	3099.5	3508.0	3699.2	3904.7
10°	1080.6	1181.7	1364.4	1542.2	1800.7	2041.6	2355.8	2748.3	3198.9	3424.6	3682.3
12.5°	682.2	772.3	1014.1	1213.7	1536.3	1815.9	2105.6	2461.1	2983.2	3214.9	3485.2
15°	390.0	465.8	578.6	834.7	1192.6	1562.4	1923.7	2336.4	2872.9	3158.4	3450.7
17.5°	290.6	310.8	361.3	506.2	832.1	1264.2	1756.1	2298.5	2947.9	3283.1	3616.6
20°	244.3	257.7	281.3	338.6	530.6	973.6	1592.7	2305.2	3190.4	3611.6	3928.2
22.5°	219.0	227.4	246.8	283.8	362.2	709.2	1401.5	2344.8	3484.4	4015.0	4380.5
25°	192.0	203.0	219.8	251.8	301.5	491.9	1212.8	2433.3	3896.2	4527.1	4870.7
27.5°	171.0	181.1	197.9	227.4	264.5	375.6	993.0	2509.1	4330.8	5042.5	5323.9
30°	149.9	160.0	176.9	200.5	234.1	304.1	756.3	2553.7	4752.8	5429.1	5645.6
32.5°	132.2	140.7	156.7	177.7	205.5	257.7	596.3	2507.4	5075.4	5780.4	5925.2
35°	114.5	124.7	138.1	157.5	181.9	219.8	496.1	2347.3	5352.5	6141.7	6193.9
37.5°	96.0	107.8	122.1	139.8	159.2	202.1	398.4	2170.5	5649.0	6592.3	6506.4
40°	80.9	91.8	105.3	124.7	142.3	185.3	306.6	1981.8	5969.0	7015.1	6847.5
42.5°	65.7	77.5	93.5	111.2	140.7	161.7	237.5	1786.4	6256.2	7383.2	7155.7
45°	52.2	62.3	79.2	101.9	139.8	139.0	183.6	1593.5	6472.7	7645.9	7385.7
47.5°	41.3	49.7	66.5	99.4	128.9	117.9	147.4	1473.9	6700.1	7882.6	7561.7
50°	32.8	41.3	57.3	103.6	112.9	101.1	123.8	1493.3	6919.9	8003.0	7634.1
52.5°	27.8	36.2	49.7	81.7	86.8	88.4	108.7	1582.6	7203.8	8131.9	7778.2
55°	24.4	32.0	42.1	57.3	67.4	79.2	99.4	1647.4	7583.6	8408.2	8095.7
57.5°	19.4	27.8	37.9	48.9	55.6	69.1	91.8	1652.5	7927.2	8762.8	8517.7
59°	17.7	25.3	35.4	46.3	49.7	62.3	86.8	1609.5	7939.9	8815.8	8711.4
60°	16.0	24.4	33.7	43.0	47.2	59.0	82.5	1559.8	7825.3	8731.6	8791.4
62.5°	13.5	21.1	29.5	34.5	40.4	48.9	71.6	1379.6	7270.3	8350.1	8643.2
65°	11.8	18.5	25.3	28.6	33.7	42.1	63.2	1104.2	6657.1	7832.9	8218.7
67.5°	10.9	16.8	21.9	24.4	29.5	38.7	56.4	779.9	5862.9	7176.8	7581.1
70°	10.1	16.0	19.4	22.7	26.1	32.8	48.0	454.8	4516.1	6026.3	6453.3
72.5°	10.1	15.2	16.8	19.4	22.7	29.5	44.6	245.9	3087.7	4597.0	5148.7
75°	10.1	14.3	15.2	16.8	20.2	27.0	39.6	128.9	1996.1	3193.8	3941.7
77.5°	10.1	13.5	15.2	16.0	19.4	23.6	34.5	80.9	1329.9	2237.0	2664.0
80°	10.9	13.5	14.3	16.0	18.5	21.9	28.6	53.9	781.6	1345.9	1621.3
82.5°	11.8	13.5	15.2	16.8	19.4	21.1	25.3	33.7	360.5	890.3	1007.3
85°	12.6	14.3	16.0	17.7	20.2	21.1	23.6	24.4	59.0	401.8	543.3
87.5°	13.5	15.2	16.8	18.5	21.9	21.9	21.9	21.9	20.2	43.0	109.5
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-SA3C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
2.5°	4132.1	4227.2	4293.8	4310.6	4262.6	4240.7	4180.1	4085.7	4028.5	4025.9
5°	4354.4	4577.6	4732.6	4758.7	4666.1	4509.4	4323.3	4083.2	3942.6	3900.5
7.5°	4316.5	4707.3	4956.6	4992.9	4837.0	4538.0	4177.6	3791.0	3637.7	3572.8
10°	4160.7	4637.4	4993.7	5051.0	4842.9	4421.8	3963.6	3532.4	3342.0	3292.4
12.5°	4027.6	4509.4	4826.1	4905.3	4747.8	4327.5	3835.6	3366.5	3162.6	3116.3
15°	3969.5	4357.8	4551.5	4591.9	4565.8	4268.5	3822.1	3341.2	3107.9	3057.4
17.5°	4027.6	4228.9	4253.4	4294.6	4352.7	4262.6	3951.8	3478.5	3226.7	3164.3
20°	4180.1	4116.9	4015.8	4033.5	4166.6	4287.0	4182.6	3782.5	3476.0	3409.4
22.5°	4439.5	4089.1	3860.0	3844.9	4013.3	4368.7	4521.2	4194.4	3839.0	3773.3
25°	4757.9	4159.0	3802.8	3769.9	3953.5	4488.3	4889.3	4698.9	4310.6	4210.4
27.5°	5104.9	4303.9	3802.8	3770.7	3948.5	4594.5	5204.3	5145.3	4799.1	4689.6
30°	5295.2	4423.5	3857.5	3821.3	4010.8	4656.0	5372.7	5542.0	5166.4	5030.8
32.5°	5465.4	4589.4	3964.5	3896.2	4141.3	4746.9	5523.5	5878.9	5458.6	5367.7
35°	5622.0	4767.1	4111.9	4032.7	4313.2	4871.6	5690.2	6232.6	5865.4	5728.1
37.5°	5794.7	4973.5	4341.8	4274.4	4600.4	5114.1	5888.2	6697.6	6265.5	6092.8
40°	5982.5	5212.7	4720.0	4691.3	5056.9	5388.7	6138.3	7193.6	6722.0	6525.7
42.5°	6173.7	5488.1	5183.2	5230.4	5574.0	5773.6	6395.2	7575.2	7095.9	6879.5
45°	6347.2	5840.2	5785.4	6018.7	6177.1	6149.3	6585.5	7843.9	7421.9	7214.7
47.5°	6566.2	6353.1	6514.0	6873.6	6877.8	6557.8	6729.6	8063.7	7702.4	7495.2
50°	6811.3	6958.7	7454.7	7821.1	7722.6	6959.5	6898.0	8323.9	7992.1	7826.2
52.5°	7095.1	7636.7	8323.9	8730.8	8500.8	7397.5	7178.5	8605.3	8452.0	8292.8
55°	7425.3	8099.1	9190.6	9514.9	9283.3	7941.6	7604.7	8986.8	8971.6	8863.0
57.5°	7798.4	8587.6	9692.6	10131.4	9925.1	8580.0	8200.1	9346.4	9289.2	9228.5
59°	8093.2	8838.6	9914.1	10368.9	10244.3	9027.2	8600.2	9570.5	9362.4	9271.5
60°	8271.7	9008.7	9995.8	10400.9	10372.3	9293.4	8853.7	9680.0	9361.6	9235.3
62.5°	8801.5	9306.0	9964.6	10258.6	10370.6	9803.8	9597.4	9800.4	9188.1	9002.8
65°	8990.2	9207.5	9448.3	9412.1	9508.1	9777.7	10072.5	9668.2	8817.5	8553.9
67.5°	8622.9	8126.9	8211.9	7970.2	7923.0	8692.9	9879.6	9021.3	8092.3	7769.7
70°	7268.6	6225.9	6182.9	6294.1	5989.2	7037.8	8871.4	7775.6	6895.5	6530.0
72.5°	5721.4	4399.9	4037.7	4447.1	4437.8	5369.3	7369.7	5517.6	4658.5	4627.3
75°	4499.3	3063.3	2688.5	2755.0	2883.0	3887.0	5869.6	3503.8	2868.7	2614.3
77.5°	3020.3	2170.5	2024.8	1943.1	2081.2	2495.6	3713.5	1900.1	1608.7	1523.6
80°	1740.9	1576.7	1790.6	1625.5	1699.7	1572.5	1847.1	871.7	723.5	783.3
82.5°	1132.8	897.8	956.8	710.9	972.0	980.4	592.9	257.7	218.1	231.6
85°	708.3	421.1	236.7	168.4	335.2	616.5	185.3	16.0	18.5	16.0
87.5°	183.6	69.9	29.5	43.8	53.9	48.0	43.0	2.5	0.8	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)