

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: P458003

Luminaire Tested: **GALN-SA9B-827-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458003  
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-SA9B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA 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: 27233 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

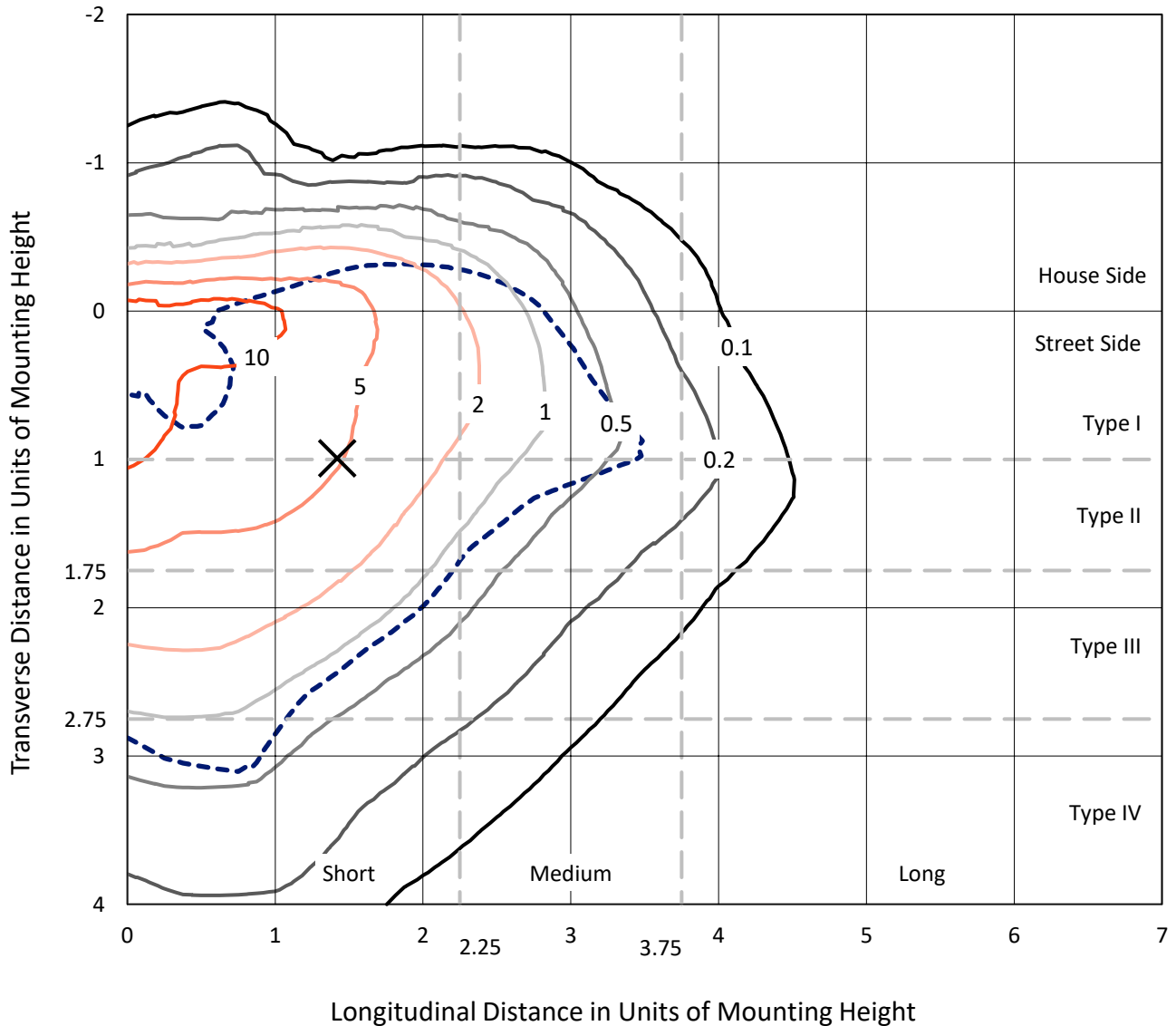
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

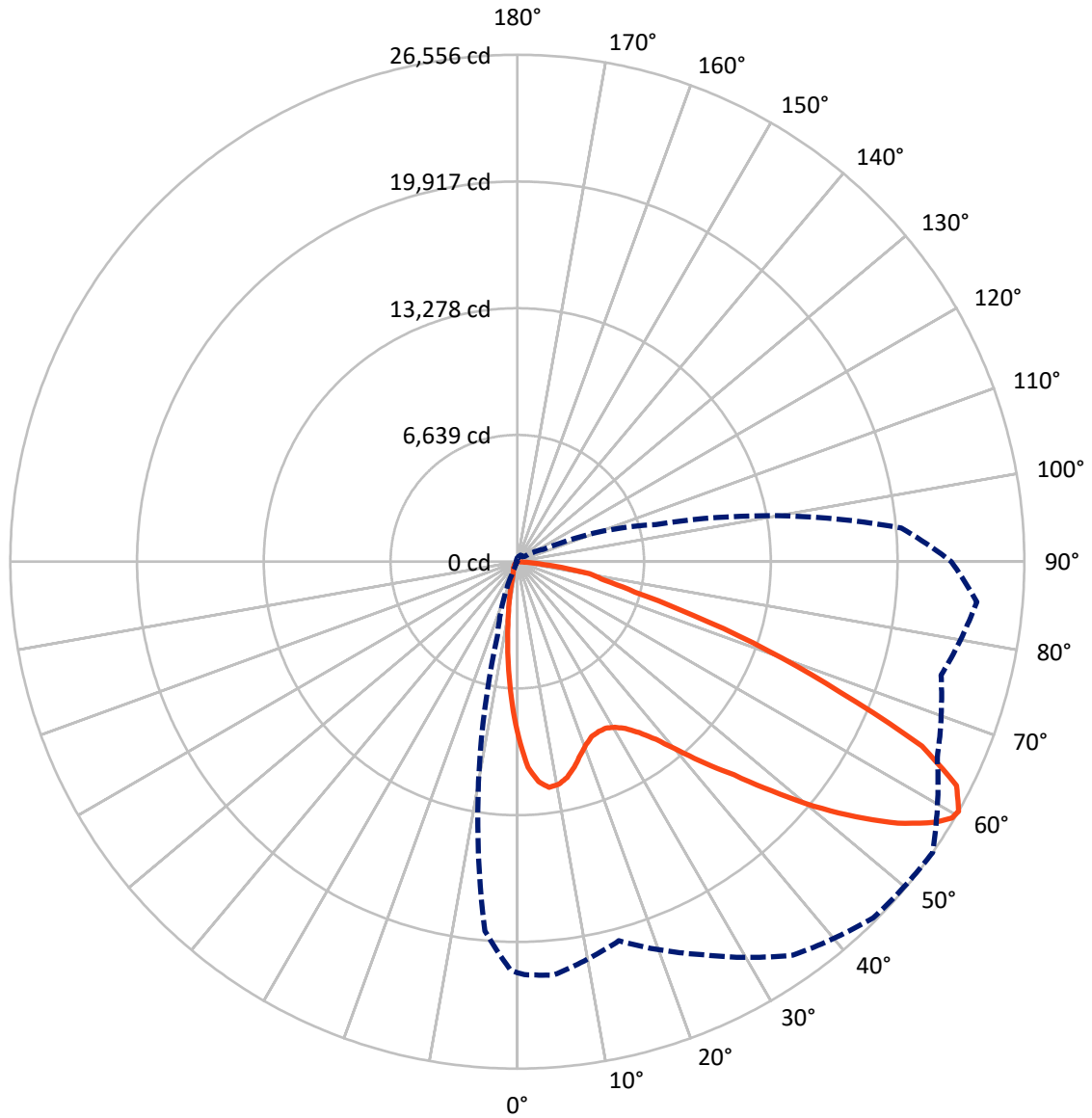
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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	4041.6	0.0	4041.6
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	23191.4	0.0	23191.4
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	27233.0	0.0	27233.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.8	2.5
10°-20°	1344.7	4.9
20°-30°	1990.3	7.3
30°-40°	2966.8	10.9
40°-50°	4344.9	16.0
50°-60°	6272.7	23.0
60°-70°	6598.5	24.2
70°-80°	2714.4	10.0
80°-90°	317.9	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°	27233.0	100.0
0°-180°	27233.0	100.0

**Coefficient of Utilization**



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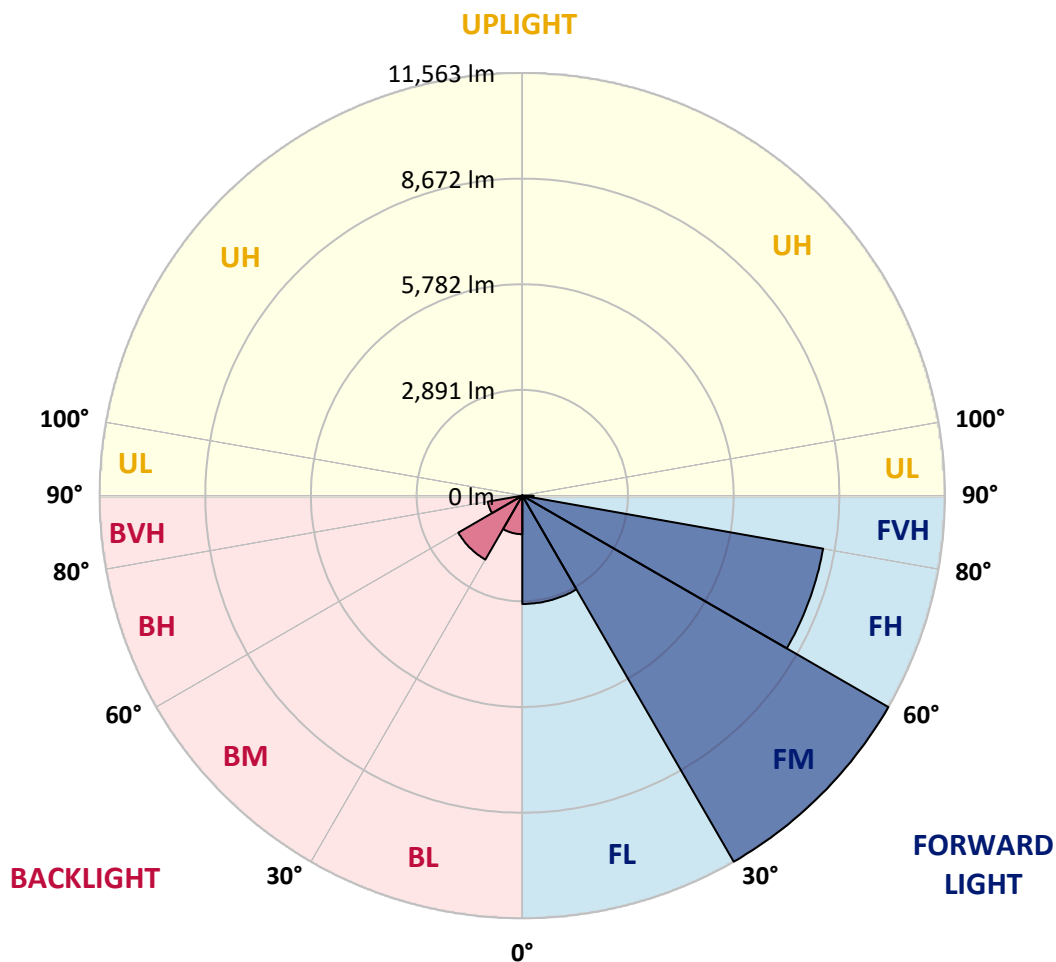
CATALOG NUMBER: GALN-SA9B-827-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2963.3	10.9			
FM	(30°-60°)	11563.2	42.5			
FH	(60°-80°)	8356.3	30.7			G4/12000
FVH	(80°-90°)	308.6	1.1			G3/500
BL	(0°-30°)	1054.5	3.9	B3/2500		
BM	(30°-60°)	2021.2	7.4	B2/2500		
BH	(60°-80°)	956.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0
2.5°	10074.2	10057.4	10206.2	10449.4	10694.6	10822.5	10797.3	10786.9	10583.5	10434.7	10122.4
5°	10053.2	10139.1	10405.4	11063.5	11562.4	11803.5	11874.8	11575.0	11178.8	10604.5	9896.0
7.5°	9451.6	9558.5	9992.4	11021.6	11908.3	12432.3	12413.5	11933.5	11115.9	10227.2	9216.8
10°	8705.4	8831.1	9340.5	10589.8	11740.6	12432.3	12470.1	11862.2	10845.5	9705.2	8642.5
12.5°	8179.2	8328.1	8891.9	10187.3	11308.8	11990.0	12034.1	11593.9	10642.2	9504.0	8330.1
15°	8001.1	8141.5	8713.7	9984.0	10849.7	11216.6	11206.1	11160.0	10562.6	9552.2	8346.9
17.5°	8307.1	8422.4	9068.0	10076.3	10420.0	10382.3	10436.8	10659.0	10579.3	9956.8	8875.2
20°	9097.3	9214.7	9908.6	10359.2	10090.9	9852.0	9877.1	10248.1	10734.4	10717.7	9701.0
22.5°	10185.3	10384.4	11013.2	10908.4	10046.9	9522.9	9470.5	9952.6	10998.6	11593.9	10816.2
25°	11562.4	11763.7	12254.2	11784.6	10262.8	9445.3	9397.1	9862.4	11319.3	12449.1	12071.8
27.5°	12719.5	12872.5	13360.9	12637.8	10581.4	9478.8	9399.2	9875.0	11579.2	13176.5	13130.4
30°	13646.0	13759.2	14046.4	13036.0	10856.0	9625.6	9533.3	10059.5	11694.5	13530.7	13987.7
32.5°	14392.3	14583.0	14673.1	13461.6	11250.1	9902.3	9745.1	10413.7	11975.4	13968.8	14886.9
35°	15245.4	15465.5	15350.2	13868.2	11770.0	10334.1	10141.2	10988.1	12400.9	14373.4	15930.8
37.5°	16327.0	16580.6	16130.0	14295.8	12319.1	10983.9	10893.8	11795.1	13046.5	14951.9	17050.2
40°	17446.4	17593.1	16886.7	14815.7	12994.1	11929.3	12015.2	12994.1	13891.3	15645.8	18240.8
42.5°	18320.5	18458.8	17664.4	15251.7	13683.7	13050.7	13409.2	14440.5	14859.7	16356.4	19129.6
45°	18989.1	19106.5	18203.1	15727.5	14614.4	14675.2	15352.3	15930.8	15830.2	16790.3	19815.0
47.5°	19509.0	19609.6	18618.1	16239.0	16008.4	16662.4	17697.9	17943.2	16836.4	17259.8	20435.5
50°	19722.8	19752.1	18748.1	16890.9	17591.0	19194.6	20274.1	20125.3	17989.3	17781.7	21095.8
52.5°	20001.6	19995.3	19119.1	17511.3	19079.3	21458.4	22535.8	22198.4	19293.1	18563.6	21837.8
55°	20733.1	20741.5	19913.5	18391.7	20347.4	23286.3	24439.2	24193.9	20668.2	19884.2	22703.5
57.5°	21621.9	21653.4	21043.4	19420.9	21559.0	24611.0	25860.4	25766.0	22527.5	21353.6	23521.0
59°	21737.2	21800.1	21577.9	20146.2	22278.0	25017.7	26346.7	26438.9	23523.1	22322.0	23963.3
60°	21527.6	21632.4	21733.0	20557.1	22699.3	25164.4	26376.0	26556.3	24271.5	22980.2	24164.6
62.5°	20613.7	20779.3	21284.4	21821.1	23225.5	24707.5	25439.0	25816.3	25198.0	24709.6	24183.4
65°	19416.8	19502.7	20232.2	22045.3	22204.6	22573.6	22800.0	23284.2	24084.9	25376.1	23317.7
67.5°	17454.7	17708.4	18601.3	20743.6	19192.5	18756.5	18699.9	18217.7	20297.1	23787.3	21183.8
70°	14419.5	14532.7	15633.2	17006.2	14484.5	13813.7	14082.0	13901.7	15733.8	20477.4	17050.2
72.5°	10904.2	11160.0	12235.3	13555.9	9856.2	8986.2	9726.2	9659.1	11818.2	16457.0	11713.4
75°	7757.9	7923.5	9294.4	10608.7	6902.7	5848.3	6114.5	6363.9	8250.5	12994.1	6921.5
77.5°	5330.5	5473.1	6502.3	7015.9	5035.0	4823.3	4412.4	4653.5	5406.0	7709.7	3766.8
80°	3215.5	3209.2	3886.3	4012.1	3506.9	4072.8	3416.7	3836.0	3267.9	3299.4	1458.9
82.5°	2087.8	2066.8	2377.0	2590.9	1951.5	2052.1	1377.2	1985.1	2129.7	920.2	461.2
85°	934.9	974.7	1142.4	1507.1	855.2	454.9	280.9	610.0	907.6	463.3	0.0
87.5°	96.4	75.5	201.2	366.8	117.4	12.6	41.9	21.0	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°	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0
2.5°	9977.7	9856.2	9493.5	9153.9	8862.6	8506.2	8275.6	7913.0	7692.9	7625.8	7636.3
5°	9577.4	9227.3	8537.7	7986.4	7372.2	7022.1	6489.7	5978.3	5701.6	5598.8	5552.7
7.5°	8738.9	8363.7	7531.5	6665.8	6007.6	5393.4	4997.3	4546.6	4238.4	3984.8	3940.8
10°	8116.3	7623.7	6592.4	5661.7	5141.9	4680.7	4284.6	3833.9	3471.2	3182.0	3102.3
12.5°	7743.2	7191.9	6041.1	5261.4	4768.8	4295.0	3779.4	3257.4	2886.4	2574.1	2429.5
15°	7676.1	7036.8	5886.0	4974.2	4366.3	3794.1	3108.6	2544.7	2163.2	1867.7	1777.5
17.5°	8080.7	7315.6	5863.0	4674.4	3840.2	3029.0	2316.3	1848.8	1419.1	1253.5	1188.5
20°	8801.8	7808.2	5860.9	4326.5	3299.4	2333.0	1626.6	1205.3	1031.3	951.7	913.9
22.5°	9784.9	8479.0	5972.0	4026.7	2737.6	1720.9	1161.3	960.0	859.4	794.4	779.8
25°	10986.0	9472.6	6244.5	3823.4	2307.9	1349.9	957.9	821.7	737.8	708.5	695.9
27.5°	12052.9	10424.2	6544.2	3613.8	1999.7	1194.8	888.8	752.5	685.4	662.4	643.5
30°	12973.1	11287.8	6688.9	3337.1	1752.4	1094.2	901.3	804.9	716.9	647.7	616.3
32.5°	13740.3	11950.2	6783.2	3085.6	1542.8	895.1	712.7	622.6	582.7	557.6	536.6
35°	14700.4	12667.1	6726.6	2943.0	1435.9	815.4	649.8	536.6	469.5	419.2	398.3
37.5°	15706.5	13384.0	6628.1	2825.6	1387.7	756.7	618.4	509.4	436.0	383.6	356.3
40°	16748.3	14048.5	6512.8	2716.6	1343.6	719.0	599.5	486.3	412.9	356.3	327.0
42.5°	17702.1	14696.2	6466.7	2645.4	1272.4	725.3	584.8	475.8	389.9	331.2	306.0
45°	18473.5	15310.4	6529.5	2607.6	1194.8	714.8	589.0	463.3	371.0	314.4	289.3
47.5°	19297.3	16178.2	6732.9	2569.9	1119.4	664.5	620.5	461.2	362.6	303.9	276.7
50°	20255.2	17289.1	7198.2	2477.7	1027.1	610.0	660.3	459.1	352.2	291.4	264.1
52.5°	21531.8	18551.0	7678.2	2316.3	893.0	557.6	630.9	452.8	331.2	276.7	249.4
55°	22678.4	19880.0	8084.9	2125.5	723.2	482.1	568.1	425.5	295.6	251.5	226.4
57.5°	23152.1	20630.4	8072.3	1861.4	578.5	423.4	467.4	389.9	257.8	222.2	201.2
59°	22978.1	20536.1	7801.9	1666.4	528.2	392.0	387.8	385.7	241.1	201.2	184.5
60°	22732.9	20192.3	7510.5	1570.0	496.8	371.0	356.3	381.5	226.4	188.7	171.9
62.5°	21793.8	18766.9	6544.2	1406.5	454.9	314.4	285.1	322.8	201.2	163.5	148.8
65°	20433.4	16576.5	5540.2	1360.4	442.3	259.9	236.9	230.6	171.9	138.3	125.8
67.5°	17779.6	14027.5	4487.9	1329.0	446.5	218.0	207.5	174.0	142.5	115.3	106.9
70°	14235.0	10937.8	3674.6	1293.3	450.7	178.2	174.0	138.3	115.3	96.4	88.0
72.5°	8648.8	6483.4	2892.7	1123.5	438.1	142.5	155.1	104.8	83.8	69.2	65.0
75°	5347.3	4437.6	1794.3	874.1	289.3	104.8	109.0	65.0	56.6	44.0	44.0
77.5°	3098.1	2802.6	641.4	314.4	127.9	62.9	48.2	33.5	31.4	18.9	18.9
80°	1284.9	1029.2	222.2	106.9	69.2	29.3	10.5	2.1	0.0	0.0	0.0
82.5°	375.2	333.3	60.8	48.2	21.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0
2.5°	7458.1	7389.0	7357.5	7464.4	7365.9	7491.7	7395.3	7437.2	7560.9	7615.4	7755.8
5°	5582.1	5510.8	5477.3	5638.7	5630.3	5709.9	5701.6	5774.9	5837.8	5697.4	5842.0
7.5°	3888.4	3840.2	3919.8	4045.6	4179.7	4135.7	4135.7	4037.2	4070.7	4049.8	4043.5
10°	2957.7	2792.1	2750.2	2746.0	2796.3	2806.8	2750.2	2613.9	2664.2	2678.9	2766.9
12.5°	2326.7	2198.9	2003.9	1915.9	1892.8	1911.7	1725.1	1605.7	1662.3	1628.7	1714.7
15°	1668.5	1563.7	1448.4	1349.9	1322.7	1284.9	1081.6	939.1	922.3	928.6	943.3
17.5°	1190.6	1119.4	1119.4	1014.5	957.9	844.8	742.0	679.2	672.9	679.2	689.6
20°	878.3	840.6	836.4	809.1	746.2	670.8	599.5	586.9	582.7	593.2	597.4
22.5°	756.7	716.9	683.3	681.3	622.6	559.7	526.1	509.4	511.5	515.7	526.1
25°	677.1	635.1	599.5	578.5	536.6	492.6	461.2	452.8	452.8	459.1	461.2
27.5°	620.5	568.1	536.6	507.3	469.5	431.8	404.6	398.3	394.1	398.3	408.8
30°	580.6	528.2	488.4	444.4	415.0	379.4	356.3	348.0	345.9	348.0	356.3
32.5°	496.8	465.3	433.9	394.1	358.4	335.4	310.2	295.6	295.6	299.8	308.1
35°	375.2	358.4	356.3	345.9	316.5	291.4	262.0	247.3	247.3	255.7	259.9
37.5°	331.2	299.8	295.6	291.4	278.8	245.3	218.0	205.4	203.3	209.6	218.0
40°	301.8	266.2	247.3	243.2	245.3	207.5	178.2	165.6	165.6	167.7	176.1
42.5°	278.8	236.9	203.3	199.1	207.5	174.0	144.6	132.1	132.1	132.1	142.5
45°	259.9	211.7	171.9	150.9	163.5	142.5	117.4	104.8	100.6	104.8	109.0
47.5°	247.3	192.8	150.9	121.6	121.6	113.2	94.3	79.7	75.5	77.6	83.8
50°	236.9	176.1	127.9	98.5	88.0	90.1	71.3	60.8	56.6	56.6	62.9
52.5°	220.1	159.3	111.1	83.8	67.1	60.8	52.4	44.0	41.9	44.0	48.2
55°	199.1	144.6	96.4	69.2	52.4	41.9	37.7	31.4	29.3	31.4	37.7
57.5°	176.1	121.6	77.6	54.5	35.6	27.3	25.2	21.0	16.8	18.9	23.1
59°	161.4	109.0	67.1	44.0	27.3	18.9	18.9	14.7	10.5	12.6	18.9
60°	155.1	100.6	56.6	37.7	23.1	14.7	14.7	10.5	6.3	8.4	14.7
62.5°	132.1	83.8	44.0	23.1	10.5	2.1	6.3	2.1	0.0	2.1	6.3
65°	111.1	67.1	29.3	10.5	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	92.2	50.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	73.4	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	50.3	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.6	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: P458003

CATALOG NUMBER: GALN-SA9B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0	9221.0
2.5°	7764.2	8063.9	8248.4	8596.4	8952.7	9227.3	9571.1	9879.2	10007.1	10074.2
5°	5988.7	6405.9	6760.1	7290.5	7783.1	8382.6	8990.4	9707.3	9981.9	10053.2
7.5°	4202.8	4628.3	4999.3	5613.5	6315.7	7118.6	8028.3	8938.0	9338.4	9451.6
10°	3035.2	3490.1	3942.9	4557.1	5213.2	6083.1	7030.5	8156.2	8617.3	8705.4
12.5°	1915.9	2404.3	3140.1	3898.9	4592.7	5292.8	6284.3	7508.5	8017.8	8179.2
15°	1111.0	1475.7	2031.2	3020.6	3903.1	4829.6	5911.2	7265.3	7835.5	8001.1
17.5°	744.1	869.9	1251.4	2008.1	3173.6	4401.9	5816.9	7464.4	8095.4	8307.1
20°	626.8	683.3	817.5	1224.2	2444.1	4020.4	5842.0	8005.2	8833.2	9097.3
22.5°	551.3	603.7	689.6	880.4	1706.3	3546.7	5961.5	8778.7	9847.8	10185.3
25°	486.3	538.7	614.2	729.5	1146.6	2999.6	6223.5	9910.7	11191.4	11562.4
27.5°	431.8	480.0	545.0	643.5	882.5	2389.6	6456.2	11013.2	12417.7	12719.5
30°	381.5	421.3	484.2	559.7	733.7	1842.5	6573.6	11977.5	13310.6	13646.0
32.5°	331.2	368.9	429.7	490.5	603.7	1404.4	6491.8	12686.0	14178.4	14392.3
35°	283.0	322.8	373.1	429.7	521.9	1134.0	6083.1	13482.5	15077.7	15245.4
37.5°	243.2	276.7	329.1	373.1	471.6	907.6	5588.4	14199.4	16086.0	16327.0
40°	205.4	239.0	291.4	331.2	433.9	714.8	5141.9	14995.9	17148.7	17446.4
42.5°	167.7	207.5	253.6	318.6	373.1	545.0	4601.1	15641.6	17947.3	18320.5
45°	134.2	178.2	228.5	316.5	324.9	415.0	4079.1	16144.6	18653.7	18989.1
47.5°	106.9	150.9	220.1	295.6	266.2	329.1	3781.5	16670.8	19240.7	19509.0
50°	85.9	125.8	230.6	259.9	222.2	278.8	3773.1	17257.7	19544.6	19722.8
52.5°	69.2	102.7	194.9	199.1	188.7	245.3	3999.5	17918.0	19854.9	20001.6
55°	58.7	85.9	127.9	146.7	169.8	222.2	4169.3	18934.6	20594.8	20733.1
57.5°	46.1	73.4	98.5	117.4	150.9	203.3	4192.3	19718.6	21531.8	21621.9
59°	39.8	62.9	88.0	104.8	138.3	190.8	4098.0	19766.8	21592.6	21737.2
60°	33.5	56.6	77.6	98.5	127.9	180.3	3995.3	19416.8	21366.2	21527.6
62.5°	25.2	44.0	56.6	79.7	104.8	155.1	3509.0	18194.7	20500.5	20613.7
65°	16.8	31.4	41.9	58.7	81.8	134.2	2859.2	16610.0	19163.1	19416.8
67.5°	10.5	23.1	33.5	44.0	67.1	113.2	2037.5	14243.4	17291.2	17454.7
70°	6.3	14.7	25.2	35.6	52.4	90.1	1209.5	11258.5	14386.0	14419.5
72.5°	4.2	10.5	16.8	25.2	41.9	81.8	586.9	7338.7	10503.9	10904.2
75°	2.1	6.3	10.5	18.9	33.5	67.1	280.9	4902.9	7642.6	7757.9
77.5°	0.0	2.1	6.3	12.6	25.2	52.4	163.5	3219.7	5211.1	5330.5
80°	0.0	0.0	4.2	10.5	18.9	33.5	98.5	1899.1	3156.8	3215.5
82.5°	0.0	0.0	2.1	8.4	12.6	25.2	50.3	834.3	2066.8	2087.8
85°	0.0	0.0	2.1	8.4	10.5	16.8	18.9	113.2	918.1	934.9
87.5°	0.0	0.0	2.1	10.5	10.5	10.5	10.5	6.3	77.6	96.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)