

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: P455219

Luminaire Tested: **GALN-SA6B-827-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455219  
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-SA6B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 17813 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

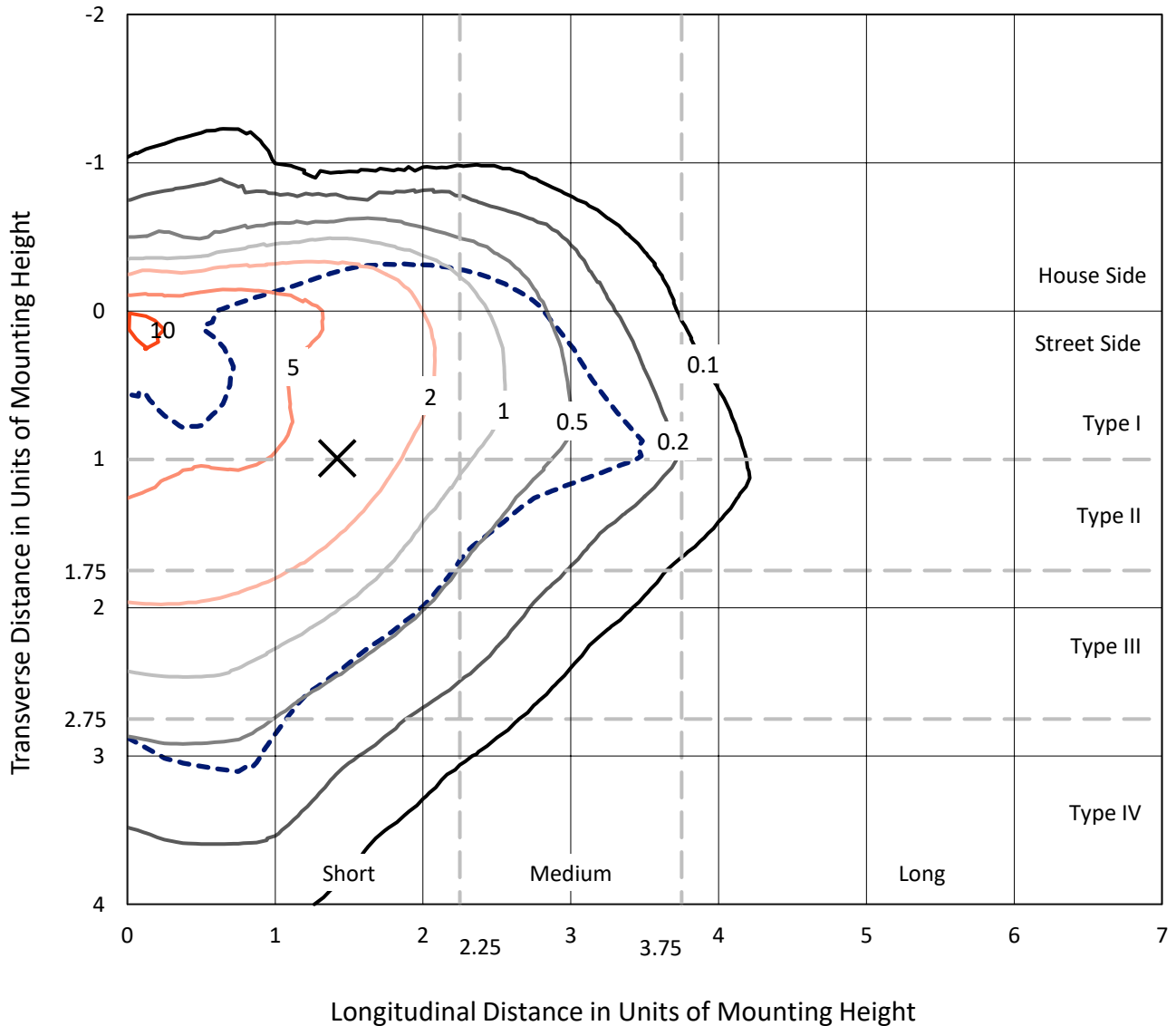
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

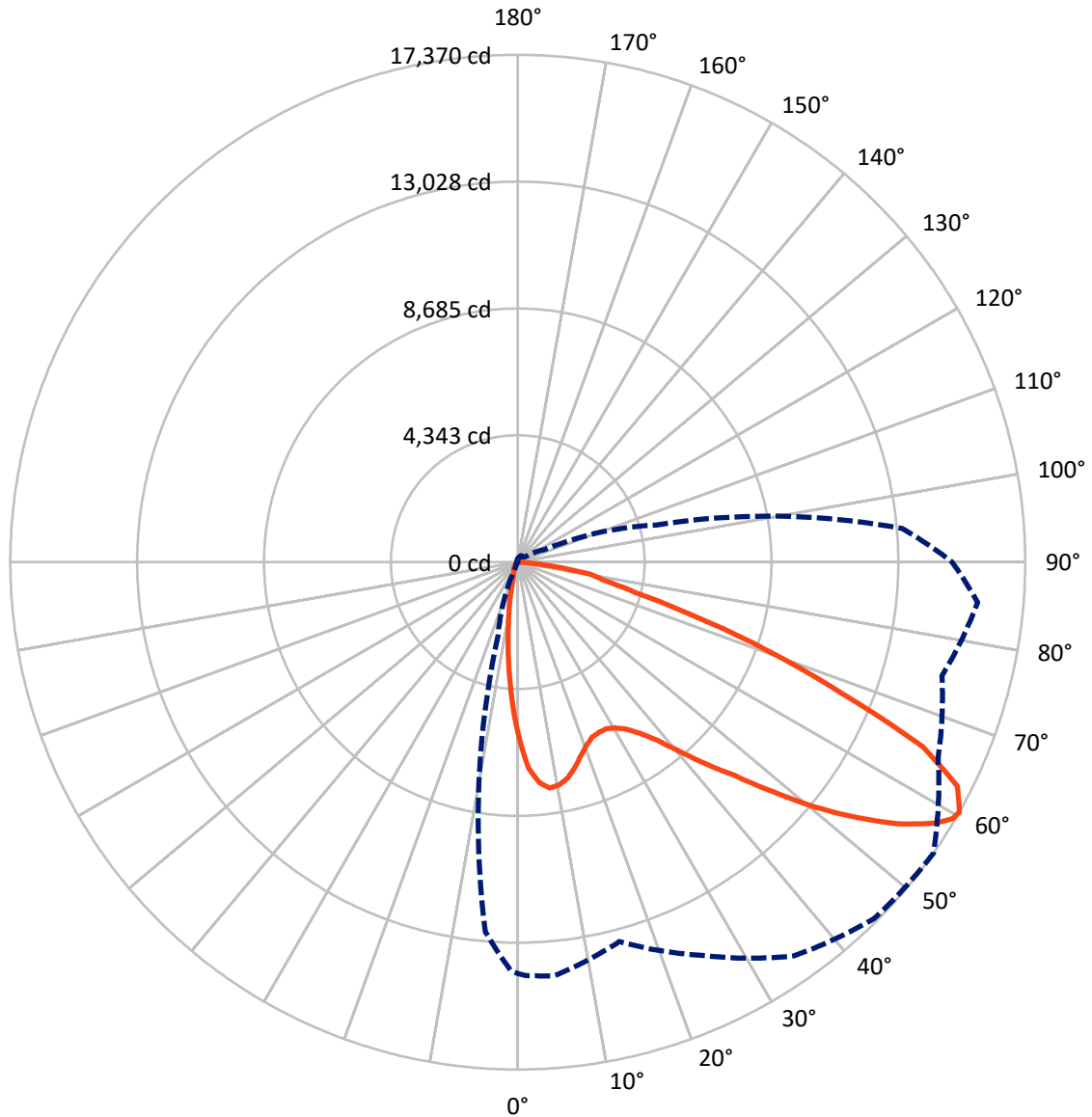
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	2643.6	0.0	2643.6
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	15169.4	0.0	15169.4
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	17813.0	0.0	17813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.6	2.5
10°-20°	879.5	4.9
20°-30°	1301.9	7.3
30°-40°	1940.6	10.9
40°-50°	2842.0	16.0
50°-60°	4102.9	23.0
60°-70°	4316.1	24.2
70°-80°	1775.5	10.0
80°-90°	207.9	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°	17813.0	100.0
0°-180°	17813.0	100.0

**Coefficient of Utilization**



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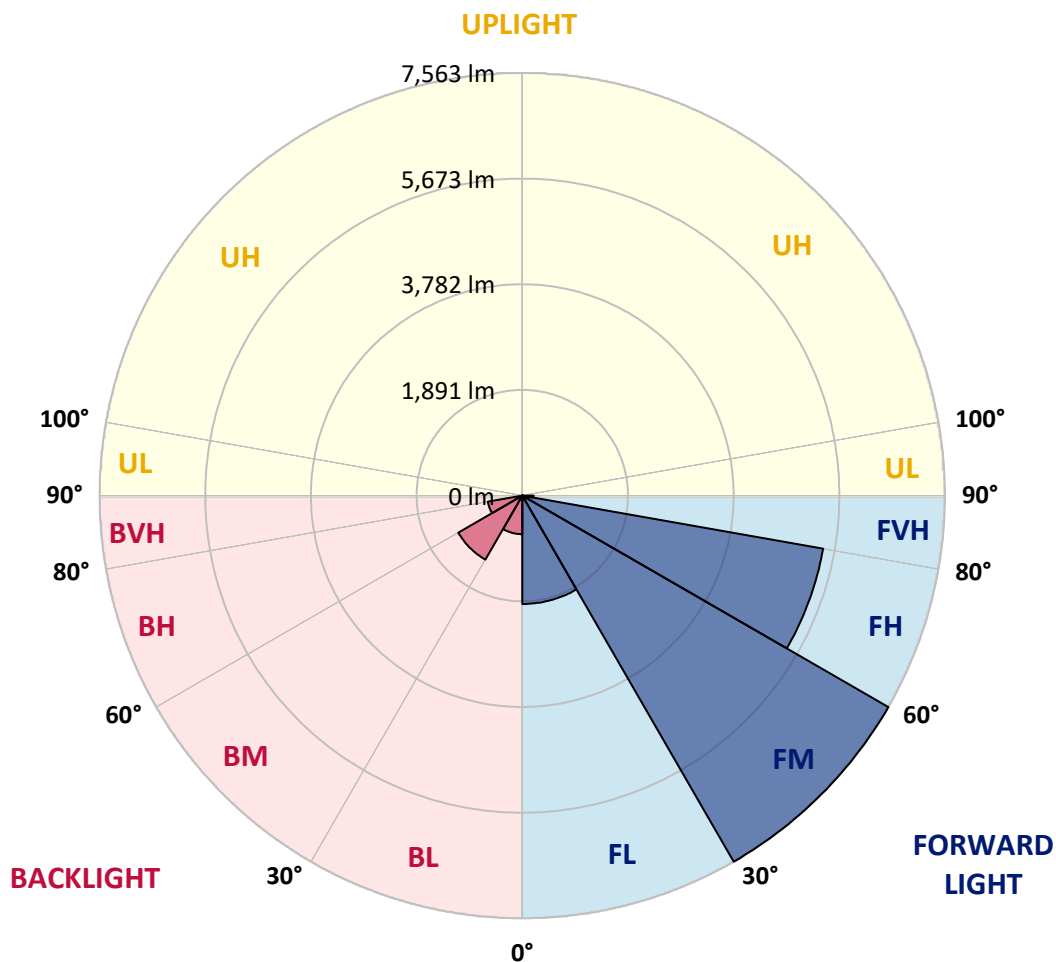
CATALOG NUMBER: GALN-SA6B-827-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1938.3	10.9			
FM	(30°-60°)	7563.4	42.5			
FH	(60°-80°)	5465.8	30.7			G3/7500
FVH	(80°-90°)	201.8	1.1			G2/225
BL	(0°-30°)	689.7	3.9	B2/1000		
BM	(30°-60°)	1322.0	7.4	B2/2500		
BH	(60°-80°)	625.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.1	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4
2.5°	6589.5	6578.5	6675.8	6834.9	6995.3	7078.9	7062.5	7055.6	6922.6	6825.3	6621.0
5°	6575.8	6632.0	6806.1	7236.6	7562.9	7720.6	7767.2	7571.2	7312.0	6936.4	6472.9
7.5°	6182.3	6252.2	6536.0	7209.2	7789.2	8131.9	8119.6	7805.6	7270.9	6689.6	6028.7
10°	5694.1	5776.4	6109.6	6926.8	7679.5	8131.9	8156.6	7759.0	7094.0	6348.2	5653.0
12.5°	5350.0	5447.3	5816.2	6663.5	7397.0	7842.6	7871.4	7583.5	6961.0	6216.5	5448.7
15°	5233.5	5325.3	5699.6	6530.5	7096.8	7336.7	7329.9	7299.7	6908.9	6248.1	5459.7
17.5°	5433.6	5509.0	5931.3	6590.8	6815.7	6791.0	6826.7	6972.0	6919.9	6512.7	5805.2
20°	5950.5	6027.3	6481.2	6775.9	6600.4	6444.1	6460.6	6703.3	7021.4	7010.4	6345.4
22.5°	6662.1	6792.4	7203.7	7135.2	6571.6	6228.9	6194.6	6509.9	7194.1	7583.5	7074.8
25°	7562.9	7694.6	8015.4	7708.3	6712.9	6178.1	6146.6	6451.0	7403.9	8142.9	7896.1
27.5°	8319.8	8419.9	8739.3	8266.3	6921.3	6200.1	6148.0	6459.2	7573.9	8618.7	8588.5
30°	8925.8	8999.8	9187.7	8526.8	7100.9	6296.1	6235.7	6579.9	7649.3	8850.4	9149.3
32.5°	9413.9	9538.7	9597.6	8805.2	7358.6	6477.0	6374.2	6811.6	7833.0	9137.0	9737.5
35°	9972.0	10115.9	10040.5	9071.1	7698.7	6759.5	6633.3	7187.3	8111.4	9401.6	10420.3
37.5°	10679.4	10845.3	10550.6	9350.8	8057.9	7184.5	7125.6	7715.1	8533.7	9780.0	11152.5
40°	11411.6	11507.6	11045.5	9690.9	8499.4	7802.9	7859.1	8499.4	9086.2	10233.8	11931.2
42.5°	11983.3	12073.8	11554.2	9976.1	8950.5	8536.4	8770.9	9445.5	9719.7	10698.6	12512.6
45°	12420.7	12497.5	11906.6	10287.3	9559.3	9599.0	10041.9	10420.3	10354.5	10982.4	12960.9
47.5°	12760.8	12826.6	12178.0	10621.8	10471.0	10898.8	11576.1	11736.5	11012.6	11289.6	13366.8
50°	12900.6	12919.8	12263.0	11048.3	11506.2	12555.1	13261.2	13163.9	11766.7	11631.0	13798.7
52.5°	13083.0	13078.8	12505.7	11454.1	12479.7	14035.9	14740.6	14519.9	12619.5	12142.4	14284.0
55°	13561.5	13567.0	13025.4	12030.0	13309.2	15231.5	15985.6	15825.1	13519.0	13006.2	14850.3
57.5°	14142.8	14163.4	13764.4	12703.2	14101.7	16098.0	16915.2	16853.5	14735.1	13967.3	15385.0
59°	14218.2	14259.4	14114.0	13177.6	14572.0	16364.0	17233.3	17293.6	15386.4	14600.8	15674.3
60°	14081.1	14149.7	14215.5	13446.3	14847.6	16460.0	17252.4	17370.4	15875.9	15031.3	15805.9
62.5°	13483.3	13591.6	13922.1	14273.1	15191.7	16161.1	16639.6	16886.4	16481.9	16162.4	15818.3
65°	12700.4	12756.6	13233.8	14419.8	14524.0	14765.3	14913.4	15230.1	15753.8	16598.4	15252.0
67.5°	11417.1	11583.0	12167.1	13568.3	12553.7	12268.5	12231.5	11916.2	13276.3	15559.1	13856.3
70°	9431.7	9505.8	10225.6	11123.7	9474.2	9035.5	9211.0	9093.1	10291.4	13394.2	11152.5
72.5°	7132.4	7299.7	8003.1	8866.9	6446.9	5877.9	6361.9	6318.0	7730.2	10764.4	7661.7
75°	5074.4	5182.7	6079.4	6939.1	4515.0	3825.3	3999.5	4162.6	5396.6	8499.4	4527.3
77.5°	3486.7	3579.9	4253.1	4589.0	3293.4	3154.9	2886.1	3043.8	3536.0	5042.9	2463.9
80°	2103.3	2099.1	2542.0	2624.3	2293.8	2664.0	2234.9	2509.1	2137.5	2158.1	954.3
82.5°	1365.6	1351.9	1554.8	1694.7	1276.5	1342.3	900.8	1298.4	1393.0	601.9	301.6
85°	611.5	637.6	747.2	985.8	559.4	297.5	183.7	399.0	593.7	303.0	0.0
87.5°	63.1	49.4	131.6	239.9	76.8	8.2	27.4	13.7	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°	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4
2.5°	6526.4	6446.9	6209.7	5987.6	5797.0	5563.9	5413.1	5175.9	5031.9	4988.0	4994.9
5°	6264.5	6035.5	5584.5	5223.9	4822.1	4593.2	4244.9	3910.4	3729.4	3662.2	3632.0
7.5°	5716.1	5470.7	4926.3	4360.1	3929.5	3527.8	3268.7	2973.9	2772.3	2606.4	2577.7
10°	5308.9	4986.7	4312.1	3703.3	3363.3	3061.6	2802.5	2507.7	2270.5	2081.3	2029.2
12.5°	5064.8	4704.2	3951.5	3441.4	3119.2	2809.4	2472.1	2130.7	1888.0	1683.7	1589.1
15°	5020.9	4602.8	3850.0	3253.6	2856.0	2481.7	2033.3	1664.5	1415.0	1221.6	1162.7
17.5°	5285.6	4785.1	3834.9	3057.5	2511.8	1981.2	1515.1	1209.3	928.2	819.9	777.4
20°	5757.2	5107.3	3833.6	2829.9	2158.1	1526.0	1064.0	788.4	674.6	622.5	597.8
22.5°	6400.3	5546.1	3906.2	2633.9	1790.6	1125.7	759.6	628.0	562.1	519.6	510.0
25°	7185.9	6196.0	4084.5	2500.9	1509.6	883.0	626.6	537.5	482.6	463.4	455.2
27.5°	7883.8	6818.4	4280.5	2363.8	1308.0	781.5	581.3	492.2	448.3	433.3	420.9
30°	8485.7	7383.3	4375.2	2182.8	1146.2	715.7	589.6	526.5	468.9	423.7	403.1
32.5°	8987.5	7816.6	4436.9	2018.2	1009.1	585.5	466.2	407.2	381.2	364.7	351.0
35°	9615.5	8285.5	4399.8	1925.0	939.2	533.4	425.0	351.0	307.1	274.2	260.5
37.5°	10273.6	8754.4	4335.4	1848.2	907.7	495.0	404.5	333.2	285.2	250.9	233.1
40°	10955.0	9189.1	4260.0	1776.9	878.9	470.3	392.1	318.1	270.1	233.1	213.9
42.5°	11578.9	9612.7	4229.8	1730.3	832.3	474.4	382.5	311.2	255.0	216.6	200.2
45°	12083.4	10014.5	4271.0	1705.6	781.5	467.5	385.3	303.0	242.7	205.7	189.2
47.5°	12622.3	10582.1	4403.9	1681.0	732.2	434.6	405.8	301.6	237.2	198.8	181.0
50°	13248.9	11308.8	4708.3	1620.6	671.8	399.0	431.9	300.3	230.3	190.6	172.8
52.5°	14083.9	12134.2	5022.3	1515.1	584.1	364.7	412.7	296.2	216.6	181.0	163.2
55°	14833.8	13003.4	5288.3	1390.3	473.0	315.4	371.6	278.3	193.3	164.5	148.1
57.5°	15143.7	13494.3	5280.1	1217.5	378.4	277.0	305.8	255.0	168.6	145.3	131.6
59°	15029.9	13432.6	5103.2	1090.0	345.5	256.4	253.7	252.3	157.7	131.6	120.7
60°	14869.5	13207.7	4912.6	1026.9	324.9	242.7	233.1	249.5	148.1	123.4	112.4
62.5°	14255.2	12275.4	4280.5	920.0	297.5	205.7	186.5	211.1	131.6	106.9	97.3
65°	13365.4	10842.6	3623.8	889.8	289.3	170.0	154.9	150.8	112.4	90.5	82.3
67.5°	11629.6	9175.3	2935.5	869.3	292.0	142.6	135.7	113.8	93.2	75.4	69.9
70°	9311.1	7154.4	2403.5	846.0	294.8	116.5	113.8	90.5	75.4	63.1	57.6
72.5°	5657.1	4240.8	1892.1	734.9	286.6	93.2	101.5	68.6	54.8	45.2	42.5
75°	3497.7	2902.6	1173.7	571.7	189.2	68.6	71.3	42.5	37.0	28.8	28.8
77.5°	2026.5	1833.1	419.6	205.7	83.6	41.1	31.5	21.9	20.6	12.3	12.3
80°	840.5	673.2	145.3	69.9	45.2	19.2	6.9	1.4	0.0	0.0	0.0
82.5°	245.4	218.0	39.8	31.5	13.7	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°	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4
2.5°	4878.3	4833.1	4812.5	4882.5	4818.0	4900.3	4837.2	4864.6	4945.5	4981.2	5073.0
5°	3651.2	3604.6	3582.7	3688.2	3682.8	3734.9	3729.4	3777.4	3818.5	3726.6	3821.2
7.5°	2543.4	2511.8	2563.9	2646.2	2734.0	2705.2	2705.2	2640.7	2662.7	2648.9	2644.8
10°	1934.6	1826.3	1798.9	1796.1	1829.0	1835.9	1798.9	1709.8	1742.7	1752.3	1809.8
12.5°	1521.9	1438.3	1310.8	1253.2	1238.1	1250.4	1128.4	1050.3	1087.3	1065.3	1121.6
15°	1091.4	1022.8	947.4	883.0	865.2	840.5	707.5	614.2	603.3	607.4	617.0
17.5°	778.8	732.2	732.2	663.6	626.6	552.5	485.4	444.2	440.1	444.2	451.1
20°	574.5	549.8	547.1	529.2	488.1	438.7	392.1	383.9	381.2	388.0	390.8
22.5°	495.0	468.9	447.0	445.6	407.2	366.1	344.1	333.2	334.5	337.3	344.1
25°	442.9	415.4	392.1	378.4	351.0	322.2	301.6	296.2	296.2	300.3	301.6
27.5°	405.8	371.6	351.0	331.8	307.1	282.4	264.6	260.5	257.8	260.5	267.4
30°	379.8	345.5	319.5	290.7	271.5	248.2	233.1	227.6	226.2	227.6	233.1
32.5°	324.9	304.4	283.8	257.8	234.5	219.4	202.9	193.3	193.3	196.1	201.6
35°	245.4	234.5	233.1	226.2	207.0	190.6	171.4	161.8	161.8	167.3	170.0
37.5°	216.6	196.1	193.3	190.6	182.4	160.4	142.6	134.4	133.0	137.1	142.6
40°	197.4	174.1	161.8	159.0	160.4	135.7	116.5	108.3	108.3	109.7	115.2
42.5°	182.4	154.9	133.0	130.3	135.7	113.8	94.6	86.4	86.4	86.4	93.2
45°	170.0	138.5	112.4	98.7	106.9	93.2	76.8	68.6	65.8	68.6	71.3
47.5°	161.8	126.1	98.7	79.5	79.5	74.0	61.7	52.1	49.4	50.7	54.8
50°	154.9	115.2	83.6	64.4	57.6	59.0	46.6	39.8	37.0	37.0	41.1
52.5°	144.0	104.2	72.7	54.8	43.9	39.8	34.3	28.8	27.4	28.8	31.5
55°	130.3	94.6	63.1	45.2	34.3	27.4	24.7	20.6	19.2	20.6	24.7
57.5°	115.2	79.5	50.7	35.6	23.3	17.8	16.5	13.7	11.0	12.3	15.1
59°	105.6	71.3	43.9	28.8	17.8	12.3	12.3	9.6	6.9	8.2	12.3
60°	101.5	65.8	37.0	24.7	15.1	9.6	9.6	6.9	4.1	5.5	9.6
62.5°	86.4	54.8	28.8	15.1	6.9	1.4	4.1	1.4	0.0	1.4	4.1
65°	72.7	43.9	19.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	60.3	32.9	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	48.0	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	32.9	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.2	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



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 CATALOG NUMBER: GALN-SA6B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4	6031.4
2.5°	5078.5	5274.6	5395.2	5622.8	5855.9	6035.5	6260.4	6462.0	6545.6	6589.5
5°	3917.2	4190.1	4421.8	4768.7	5090.9	5483.0	5880.6	6349.5	6529.1	6575.8
7.5°	2749.0	3027.4	3270.1	3671.8	4131.1	4656.2	5251.3	5846.3	6108.2	6182.3
10°	1985.3	2282.9	2579.0	2980.8	3409.9	3978.9	4598.6	5334.9	5636.6	5694.1
12.5°	1253.2	1572.6	2053.9	2550.2	3004.1	3462.0	4110.5	4911.3	5244.4	5350.0
15°	726.7	965.2	1328.6	1975.7	2553.0	3159.0	3866.5	4752.2	5125.1	5233.5
17.5°	486.7	569.0	818.5	1313.5	2075.8	2879.3	3804.8	4882.5	5295.2	5433.6
20°	410.0	447.0	534.7	800.7	1598.7	2629.8	3821.2	5236.2	5777.8	5950.5
22.5°	360.6	394.9	451.1	575.9	1116.1	2319.9	3899.4	5742.1	6441.4	6662.1
25°	318.1	352.4	401.7	477.1	750.0	1962.0	4070.8	6482.5	7320.3	7562.9
27.5°	282.4	314.0	356.5	420.9	577.2	1563.0	4223.0	7203.7	8122.3	8319.8
30°	249.5	275.6	316.7	366.1	479.9	1205.2	4299.7	7834.4	8706.4	8925.8
32.5°	216.6	241.3	281.1	320.8	394.9	918.6	4246.3	8297.8	9274.1	9413.9
35°	185.1	211.1	244.1	281.1	341.4	741.8	3978.9	8818.9	9862.3	9972.0
37.5°	159.0	181.0	215.3	244.1	308.5	593.7	3655.3	9287.8	10521.8	10679.4
40°	134.4	156.3	190.6	216.6	283.8	467.5	3363.3	9808.8	11216.9	11411.6
42.5°	109.7	135.7	165.9	208.4	244.1	356.5	3009.5	10231.1	11739.3	11983.3
45°	87.7	116.5	149.4	207.0	212.5	271.5	2668.1	10560.1	12201.3	12420.7
47.5°	69.9	98.7	144.0	193.3	174.1	215.3	2473.4	10904.3	12585.3	12760.8
50°	56.2	82.3	150.8	170.0	145.3	182.4	2468.0	11288.2	12784.1	12900.6
52.5°	45.2	67.2	127.5	130.3	123.4	160.4	2616.0	11720.1	12987.0	13083.0
55°	38.4	56.2	83.6	96.0	111.1	145.3	2727.1	12385.1	13471.0	13561.5
57.5°	30.2	48.0	64.4	76.8	98.7	133.0	2742.2	12897.9	14083.9	14142.8
59°	26.1	41.1	57.6	68.6	90.5	124.8	2680.5	12929.4	14123.6	14218.2
60°	21.9	37.0	50.7	64.4	83.6	117.9	2613.3	12700.4	13975.5	14081.1
62.5°	16.5	28.8	37.0	52.1	68.6	101.5	2295.2	11901.1	13409.3	13483.3
65°	11.0	20.6	27.4	38.4	53.5	87.7	1870.2	10864.5	12534.5	12700.4
67.5°	6.9	15.1	21.9	28.8	43.9	74.0	1332.7	9316.6	11310.1	11417.1
70°	4.1	9.6	16.5	23.3	34.3	59.0	791.1	7364.1	9409.8	9431.7
72.5°	2.7	6.9	11.0	16.5	27.4	53.5	383.9	4800.2	6870.5	7132.4
75°	1.4	4.1	6.9	12.3	21.9	43.9	183.7	3207.0	4999.0	5074.4
77.5°	0.0	1.4	4.1	8.2	16.5	34.3	106.9	2106.0	3408.5	3486.7
80°	0.0	0.0	2.7	6.9	12.3	21.9	64.4	1242.2	2064.9	2103.3
82.5°	0.0	0.0	1.4	5.5	8.2	16.5	32.9	545.7	1351.9	1365.6
85°	0.0	0.0	1.4	5.5	6.9	11.0	12.3	74.0	600.5	611.5
87.5°	0.0	0.0	1.4	6.9	6.9	6.9	6.9	4.1	50.7	63.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)