

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: P527689

Luminaire Tested: **GALN-SA2D-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7193 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

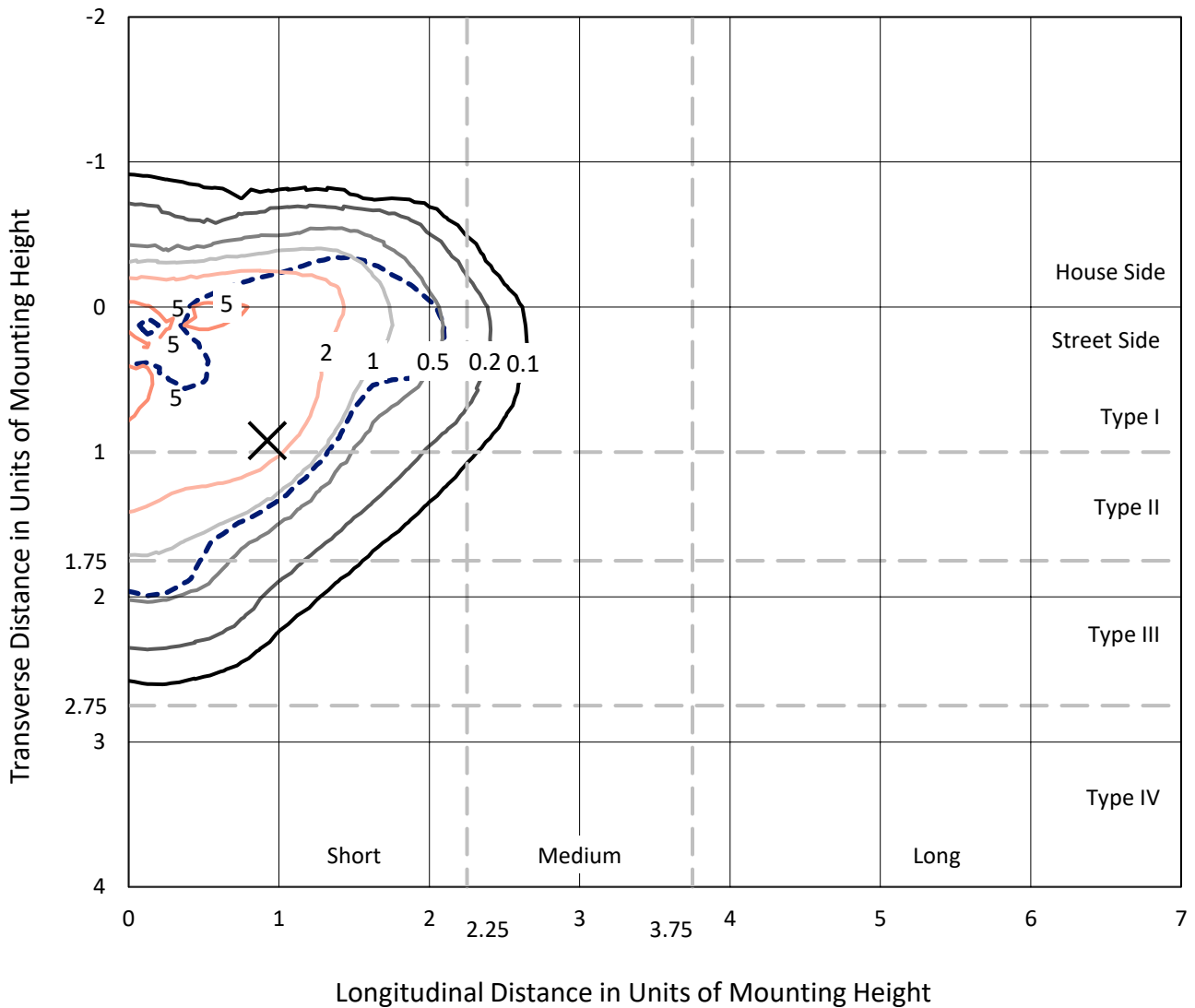
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

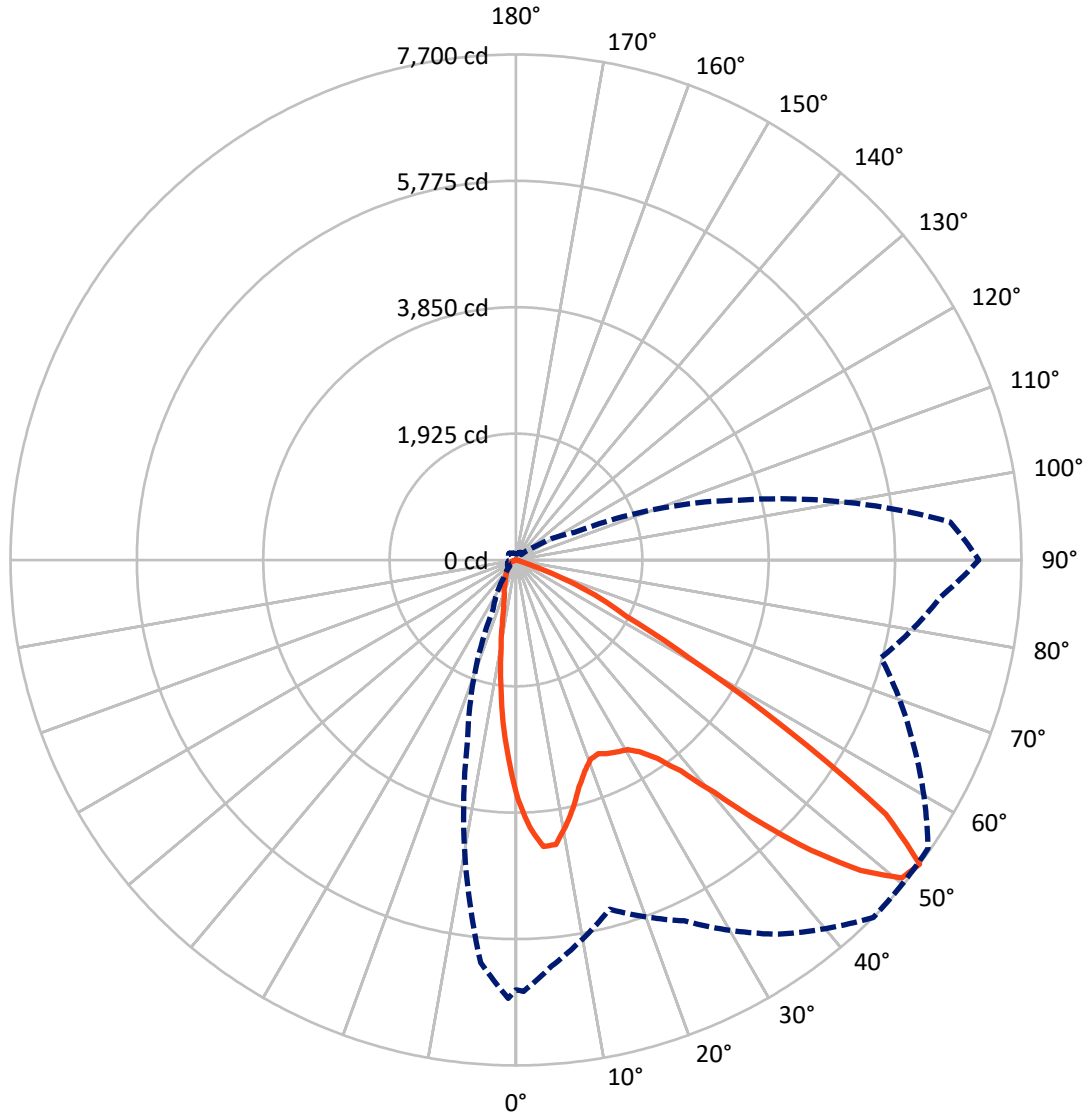
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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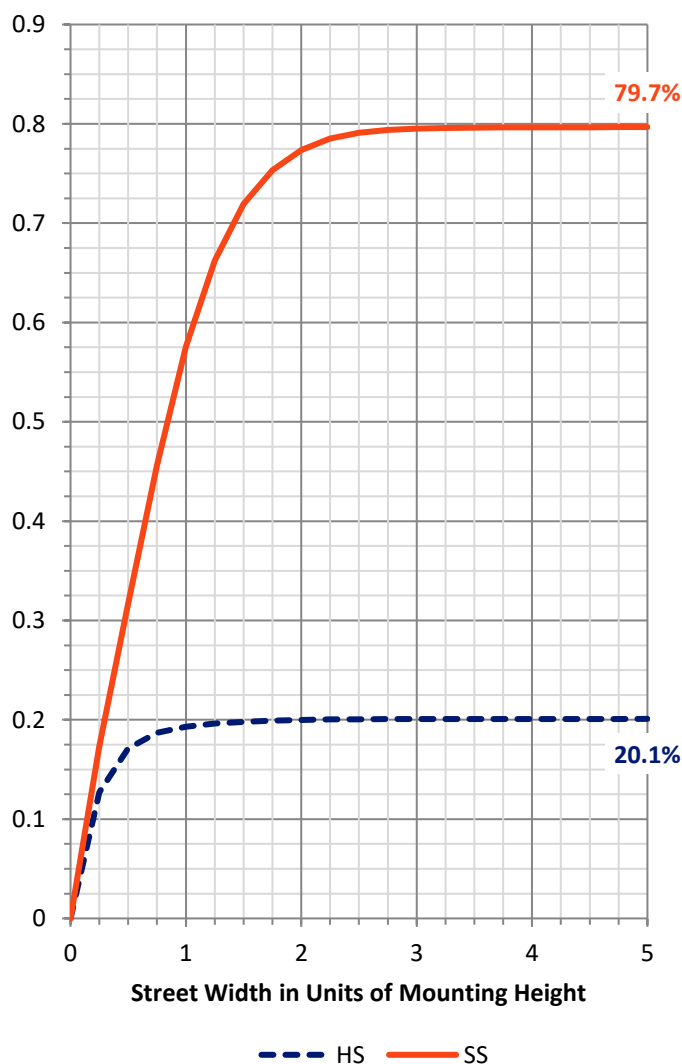
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1459.8	0.0	1459.8
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	5733.2	0.0	5733.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	7193.0	0.0	7193.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.0	3.7
10°-20°	524.8	7.3
20°-30°	798.6	11.1
30°-40°	1193.6	16.6
40°-50°	1699.8	23.6
50°-60°	1827.3	25.4
60°-70°	809.7	11.3
70°-80°	65.5	0.9
80°-90°	7.6	0.1
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°	7193.0	100.0
0°-180°	7193.0	100.0

**Coefficient of Utilization**

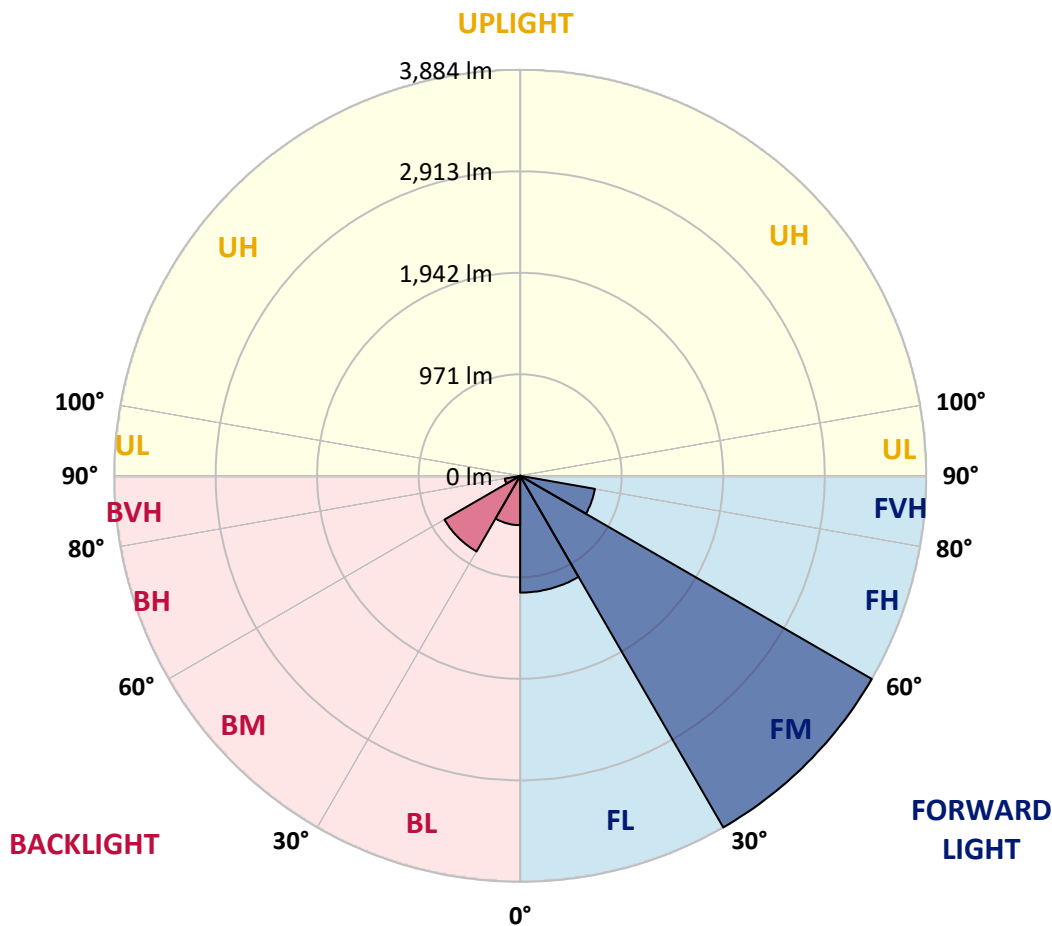


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.2	15.5			
FM (30°-60°)	3884.4	54.0			
FH (60°-80°)	725.9	10.1			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	472.2	6.6	B1/500		
BM (30°-60°)	836.3	11.6	B1/1000		
BH (60°-80°)	149.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2
2.5°	3859.4	3870.7	3933.0	4010.8	4051.8	4145.2	4080.1	4097.1	4061.7	3937.2	3839.6
5°	3742.0	3740.6	3819.8	4012.2	4194.7	4380.0	4385.7	4286.6	4112.6	3921.6	3648.6
7.5°	3388.3	3443.5	3525.5	3832.5	4170.6	4309.3	4375.8	4259.8	3992.4	3719.3	3423.7
10°	3120.9	3149.2	3287.8	3658.5	3906.1	4091.4	4132.4	4065.9	3860.8	3519.9	3188.8
12.5°	2966.7	2980.8	3143.5	3454.8	3716.5	3853.7	3873.5	3904.7	3757.5	3437.8	3040.3
15°	2968.1	2979.4	3198.7	3459.0	3562.3	3525.5	3590.6	3589.2	3652.8	3422.2	3164.8
17.5°	3181.7	3194.5	3392.5	3521.3	3476.0	3389.7	3385.5	3450.5	3584.9	3616.1	3352.9
20°	3549.6	3579.3	3725.0	3717.9	3463.3	3289.3	3241.2	3290.7	3603.3	3780.2	3732.1
22.5°	4044.7	4085.8	4187.6	3992.4	3521.3	3221.4	3205.8	3302.0	3725.0	4146.6	4162.1
25°	4619.1	4688.4	4737.9	4487.5	3727.8	3338.8	3265.2	3430.7	3889.1	4544.1	4709.7
27.5°	4999.7	5071.8	5060.5	4702.6	3866.5	3369.9	3307.6	3461.9	4032.0	4638.9	4995.4
30°	5296.8	5340.6	5419.8	4818.6	4005.1	3457.6	3351.5	3593.4	4078.7	4803.0	5340.6
32.5°	5643.4	5673.1	5678.7	5023.7	4218.7	3568.0	3487.3	3757.5	4285.2	4960.1	5646.2
35°	5992.8	6036.7	5944.7	5277.0	4350.3	3773.1	3713.7	4041.9	4450.8	5122.8	5982.9
37.5°	6372.0	6394.6	6182.4	5381.6	4538.5	4107.0	4074.4	4348.9	4737.9	5417.0	6356.4
40°	6690.3	6711.5	6435.6	5510.4	4736.5	4573.8	4657.3	4934.6	5128.4	5608.0	6543.1
42.5°	6867.1	6916.6	6520.5	5439.7	5134.1	5102.9	5473.6	5571.2	5581.1	5661.8	6710.1
45°	6915.2	6892.6	6380.5	5497.7	5482.1	5973.0	6309.7	6438.5	6031.0	5760.8	6752.5
47.5°	6693.1	6722.8	6173.9	5446.7	5939.1	6632.3	7068.0	7307.1	6366.3	5674.5	6647.8
50°	6513.4	6475.2	6107.4	5409.9	6062.1	6943.5	7615.5	7669.3	6674.7	5780.6	6533.2
52.5°	6548.8	6572.9	6213.5	5507.6	6065.0	6961.9	7700.4	7663.6	6684.6	5756.6	6492.2
55°	6623.8	6517.7	6168.2	5292.5	5658.9	6448.4	6834.6	6778.0	6169.7	5500.5	6391.8
57.5°	5715.5	5879.6	5671.7	4725.2	4644.6	4858.2	4851.1	5025.1	4602.1	4733.7	5818.8
60°	4638.9	4667.2	4745.0	4041.9	3214.3	3140.7	3038.8	2928.5	3096.9	4047.6	5292.5
62.5°	4080.1	4046.1	4323.4	3676.9	2269.2	1900.0	1883.0	1950.9	2389.5	3860.8	4964.3
65°	2965.3	3007.7	3208.6	2853.5	1703.3	1450.1	1424.6	1625.5	1933.9	3094.0	3788.7
67.5°	1810.9	1892.9	1911.3	1759.9	1155.8	918.2	881.4	1063.9	1396.3	2001.8	2221.1
70°	836.1	935.1	1028.5	960.6	669.2	377.7	356.5	447.1	704.5	1151.6	1178.5
72.5°	253.2	254.7	356.5	372.1	216.5	84.9	75.0	99.0	239.1	380.6	400.4
75°	18.4	19.8	48.1	55.2	41.0	21.2	22.6	26.9	50.9	84.9	63.7
77.5°	1.4	1.4	1.4	7.1	12.7	14.1	18.4	21.2	26.9	31.1	28.3
80°	1.4	0.0	1.4	5.7	9.9	14.1	17.0	19.8	21.2	24.1	21.2
82.5°	0.0	0.0	0.0	4.2	9.9	14.1	15.6	21.2	24.1	28.3	24.1
85°	0.0	0.0	0.0	4.2	9.9	15.6	14.1	7.1	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2
2.5°	3856.6	3801.4	3675.5	3611.8	3461.9	3440.6	3293.5	3269.5	3219.9	3193.1	3128.0
5°	3528.3	3461.9	3256.7	3084.1	2883.2	2743.2	2635.7	2538.0	2481.4	2429.1	2453.1
7.5°	3261.0	3067.1	2839.4	2550.8	2318.7	2168.8	2004.7	1870.3	1791.1	1737.3	1750.0
10°	2980.8	2854.9	2538.0	2214.1	1933.9	1827.8	1699.1	1595.8	1484.1	1387.9	1342.6
12.5°	2893.1	2706.4	2308.8	1979.2	1767.0	1663.7	1516.6	1397.8	1254.9	1137.4	1096.4
15°	2908.7	2729.0	2246.6	1894.3	1643.9	1465.7	1290.2	1143.1	986.1	904.0	861.6
17.5°	3161.9	2850.7	2287.6	1805.2	1472.7	1225.2	1008.7	822.0	704.5	619.7	601.3
20°	3473.2	3113.8	2375.3	1740.1	1332.7	974.8	737.1	575.8	478.2	464.0	459.8
22.5°	3928.7	3543.9	2563.5	1696.3	1161.5	759.7	505.1	418.8	391.9	389.1	390.5
25°	4565.3	4082.9	2768.6	1659.5	1032.8	585.7	413.1	355.1	346.6	342.4	349.4
27.5°	4841.2	4408.3	2877.6	1580.3	915.3	527.7	407.4	352.3	328.2	321.1	325.4
30°	5182.2	4624.8	3048.8	1444.4	742.7	434.3	380.6	383.4	372.1	336.7	325.4
32.5°	5634.9	4895.0	3135.1	1348.2	663.5	359.3	278.7	256.1	285.8	291.4	301.3
35°	5924.9	5169.4	3178.9	1291.7	622.5	307.0	236.3	215.0	208.0	209.4	215.0
37.5°	6463.9	5540.1	3234.1	1232.2	591.4	267.4	213.6	193.8	183.9	183.9	189.6
40°	6786.5	5834.4	3309.1	1199.7	560.2	243.3	193.8	176.8	168.4	168.4	171.2
42.5°	6867.1	5980.1	3283.6	1188.4	524.9	237.7	176.8	164.1	154.2	152.8	151.4
45°	7011.4	6202.2	3287.8	1175.6	488.1	216.5	166.9	152.8	138.6	137.2	135.8
47.5°	7169.9	6362.1	3296.3	1126.1	452.7	181.1	174.0	141.5	124.5	121.7	121.7
50°	7034.1	6489.4	3369.9	1076.6	407.4	147.1	171.2	133.0	110.3	106.1	107.5
52.5°	7051.0	6639.3	3525.5	1007.3	350.9	117.4	138.6	125.9	100.4	93.4	94.8
55°	6779.4	6480.9	3546.7	933.7	274.5	90.5	106.1	110.3	84.9	82.1	82.1
57.5°	5835.8	5487.8	3129.4	756.9	181.1	75.0	76.4	96.2	73.6	70.7	72.2
60°	4994.0	4405.5	2518.2	499.4	113.2	59.4	55.2	97.6	65.1	63.7	67.9
62.5°	4552.6	3620.3	1909.9	309.8	77.8	45.3	38.2	79.2	56.6	56.6	62.2
65°	3289.3	2431.9	1110.6	162.7	55.2	35.4	28.3	45.3	46.7	48.1	50.9
67.5°	2037.2	1228.0	468.3	79.2	36.8	24.1	18.4	28.3	31.1	31.1	34.0
70°	1005.9	489.5	155.6	45.3	28.3	19.8	12.7	15.6	15.6	14.1	15.6
72.5°	311.2	147.1	39.6	28.3	19.8	12.7	7.1	5.7	2.8	0.0	1.4
75°	35.4	28.3	25.5	19.8	12.7	5.7	1.4	0.0	0.0	0.0	0.0
77.5°	21.2	24.1	24.1	19.8	12.7	4.2	0.0	0.0	0.0	0.0	0.0
80°	17.0	18.4	19.8	18.4	11.3	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.2	24.1	26.9	24.1	15.6	7.1	2.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.2	1.4	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°	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2
2.5°	3101.1	3070.0	3113.8	3048.8	3047.3	3048.8	3030.4	3013.4	3040.3	3112.4	3119.5
5°	2366.9	2433.3	2454.6	2523.9	2485.7	2429.1	2440.4	2402.2	2495.6	2536.6	2504.1
7.5°	1723.1	1718.9	1861.8	1870.3	1888.7	1890.1	1887.3	1812.3	1735.9	1752.9	1803.8
10°	1336.9	1264.8	1334.1	1327.0	1372.3	1359.6	1378.0	1297.3	1324.2	1324.2	1356.7
12.5°	1089.3	1012.9	1000.2	981.8	1000.2	1007.3	1014.4	998.8	1044.1	1065.3	1087.9
15°	831.9	789.4	778.1	742.7	748.4	768.2	785.2	792.3	778.1	810.6	813.5
17.5°	604.1	602.7	609.8	608.3	602.7	598.4	597.0	578.6	573.0	575.8	587.1
20°	458.4	469.7	493.7	517.8	530.5	515.0	493.7	462.6	449.9	452.7	454.1
22.5°	391.9	408.9	441.4	468.3	481.0	452.7	414.5	387.6	382.0	380.6	379.1
25°	355.1	374.9	399.0	407.4	406.0	389.1	360.8	349.4	346.6	343.8	331.0
27.5°	335.3	342.4	346.6	356.5	360.8	349.4	342.4	325.4	322.6	322.6	314.1
30°	324.0	319.7	325.4	318.3	324.0	315.5	316.9	316.9	309.8	312.7	312.7
32.5°	301.3	302.8	302.8	288.6	292.9	282.9	292.9	301.3	302.8	304.2	315.5
35°	220.7	246.2	258.9	258.9	263.1	256.1	254.7	244.7	232.0	219.3	213.6
37.5°	193.8	203.7	220.7	230.6	237.7	232.0	219.3	203.7	196.6	191.0	185.3
40°	172.6	181.1	192.4	203.7	217.9	210.8	191.0	183.9	175.4	175.4	169.8
42.5°	155.6	159.9	166.9	183.9	199.5	185.3	171.2	165.5	161.3	159.9	158.5
45°	140.1	141.5	148.5	162.7	181.1	166.9	152.8	145.7	147.1	148.5	147.1
47.5°	125.9	128.7	133.0	150.0	161.3	154.2	138.6	134.4	134.4	134.4	135.8
50°	108.9	116.0	124.5	138.6	147.1	142.9	130.2	124.5	121.7	121.7	123.1
52.5°	97.6	103.3	114.6	131.6	142.9	135.8	123.1	114.6	108.9	107.5	110.3
55°	84.9	94.8	113.2	125.9	141.5	134.4	120.3	110.3	100.4	99.0	99.0
57.5°	76.4	92.0	108.9	124.5	137.2	131.6	120.3	107.5	94.8	93.4	93.4
60°	72.2	89.1	106.1	120.3	137.2	128.7	118.8	104.7	90.5	90.5	89.1
62.5°	67.9	83.5	100.4	114.6	131.6	124.5	114.6	100.4	86.3	86.3	83.5
65°	56.6	72.2	83.5	96.2	114.6	107.5	97.6	87.7	76.4	73.6	75.0
67.5°	39.6	49.5	60.8	73.6	84.9	82.1	77.8	70.7	60.8	59.4	58.0
70°	19.8	26.9	36.8	49.5	59.4	56.6	53.8	48.1	42.4	41.0	41.0
72.5°	2.8	8.5	15.6	22.6	31.1	32.5	31.1	29.7	28.3	26.9	28.3
75°	0.0	0.0	0.0	5.7	12.7	15.6	18.4	21.2	21.2	18.4	22.6
77.5°	0.0	0.0	0.0	0.0	1.4	7.1	14.1	18.4	22.6	19.8	26.9
80°	0.0	0.0	0.0	0.0	1.4	8.5	14.1	19.8	22.6	19.8	28.3
82.5°	0.0	0.0	0.0	0.0	1.4	9.9	14.1	18.4	21.2	19.8	25.5
85°	0.0	0.0	0.0	0.0	4.2	8.5	5.7	2.8	1.4	1.4	4.2
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-SA2D-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2
2.5°	3159.1	3259.5	3367.1	3408.1	3535.4	3631.6	3696.7	3836.8	3858.0	3859.4
5°	2538.0	2589.0	2772.9	2859.2	3048.8	3195.9	3352.9	3579.3	3730.7	3742.0
7.5°	1803.8	1945.3	2023.1	2248.0	2481.4	2712.0	2945.5	3208.6	3384.0	3388.3
10°	1451.5	1543.5	1682.1	1850.5	2047.1	2282.0	2593.2	2898.8	3077.0	3120.9
12.5°	1168.6	1329.9	1488.3	1662.3	1812.3	1989.1	2324.4	2731.9	2879.0	2966.7
15°	899.8	1046.9	1233.6	1437.4	1607.1	1843.4	2225.4	2690.8	2938.4	2968.1
17.5°	663.5	795.1	967.7	1160.1	1414.7	1750.0	2242.4	2898.8	3132.2	3181.7
20°	476.8	553.2	689.0	912.5	1236.5	1641.1	2259.3	3109.6	3464.7	3549.6
22.5°	377.7	408.9	498.0	696.0	1037.0	1526.5	2379.6	3512.8	3921.6	4044.7
25°	328.2	345.2	387.6	548.9	911.1	1515.2	2572.0	3996.6	4530.0	4619.1
27.5°	316.9	319.7	356.5	503.6	843.2	1440.2	2645.6	4340.4	4909.1	4999.7
30°	333.9	379.1	382.0	425.8	717.3	1291.7	2683.8	4672.9	5230.3	5296.8
32.5°	288.6	274.5	284.4	329.6	631.0	1205.4	2755.9	4962.9	5596.7	5643.4
35°	200.9	210.8	233.4	285.8	551.7	1114.8	2774.3	5282.6	5944.7	5992.8
37.5°	185.3	191.0	209.4	243.3	485.3	1063.9	2748.8	5516.0	6305.5	6372.0
40°	172.6	179.7	189.6	220.7	435.7	1007.3	2713.5	5726.8	6526.2	6690.3
42.5°	162.7	168.4	176.8	210.8	393.3	950.7	2663.9	6023.9	6724.2	6867.1
45°	151.4	159.9	169.8	205.1	369.2	912.5	2627.2	6005.5	6838.8	6915.2
47.5°	140.1	154.2	165.5	191.0	362.2	894.1	2642.7	5936.2	6745.5	6693.1
50°	128.7	147.1	166.9	158.5	345.2	857.3	2661.1	6031.0	6523.3	6513.4
52.5°	118.8	140.1	155.6	130.2	307.0	822.0	2839.4	6155.5	6680.4	6548.8
55°	104.7	125.9	124.5	104.7	249.0	795.1	2979.4	6158.3	6574.3	6623.8
57.5°	94.8	111.8	97.6	87.7	183.9	664.9	2751.7	5163.8	5627.8	5715.5
60°	87.7	108.9	73.6	69.3	120.3	479.6	2402.2	3999.5	4473.4	4638.9
62.5°	80.6	103.3	58.0	56.6	83.5	341.0	1975.0	3347.3	3855.2	4080.1
65°	70.7	73.6	46.7	43.9	59.4	183.9	1202.5	2304.6	2881.8	2965.3
67.5°	58.0	56.6	38.2	35.4	39.6	89.1	530.5	1154.4	1670.8	1810.9
70°	46.7	46.7	32.5	28.3	28.3	41.0	138.6	459.8	755.5	836.1
72.5°	34.0	35.4	25.5	22.6	21.2	19.8	22.6	92.0	198.1	253.2
75°	29.7	31.1	25.5	19.8	15.6	12.7	9.9	8.5	11.3	18.4
77.5°	32.5	32.5	26.9	18.4	14.1	9.9	5.7	2.8	2.8	1.4
80°	41.0	42.4	35.4	24.1	17.0	11.3	7.1	2.8	1.4	1.4
82.5°	43.9	48.1	39.6	29.7	21.2	12.7	7.1	1.4	0.0	0.0
85°	11.3	18.4	31.1	26.9	21.2	12.7	7.1	1.4	0.0	0.0
87.5°	0.0	1.4	4.2	4.2	5.7	5.7	4.2	1.4	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

(END OF REPORT)