

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: P530031

Luminaire Tested: **GALN-SA5B-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13175 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

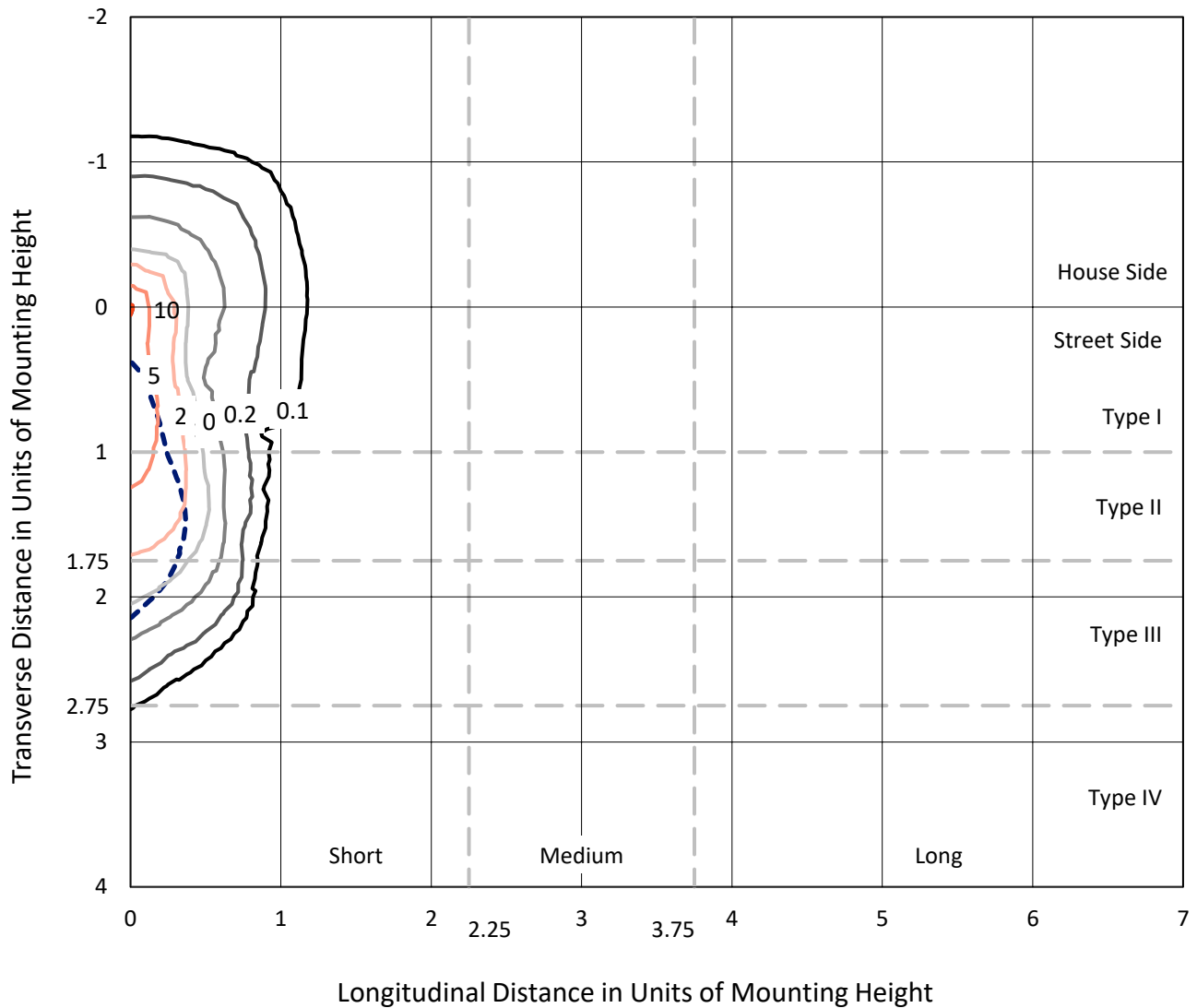
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

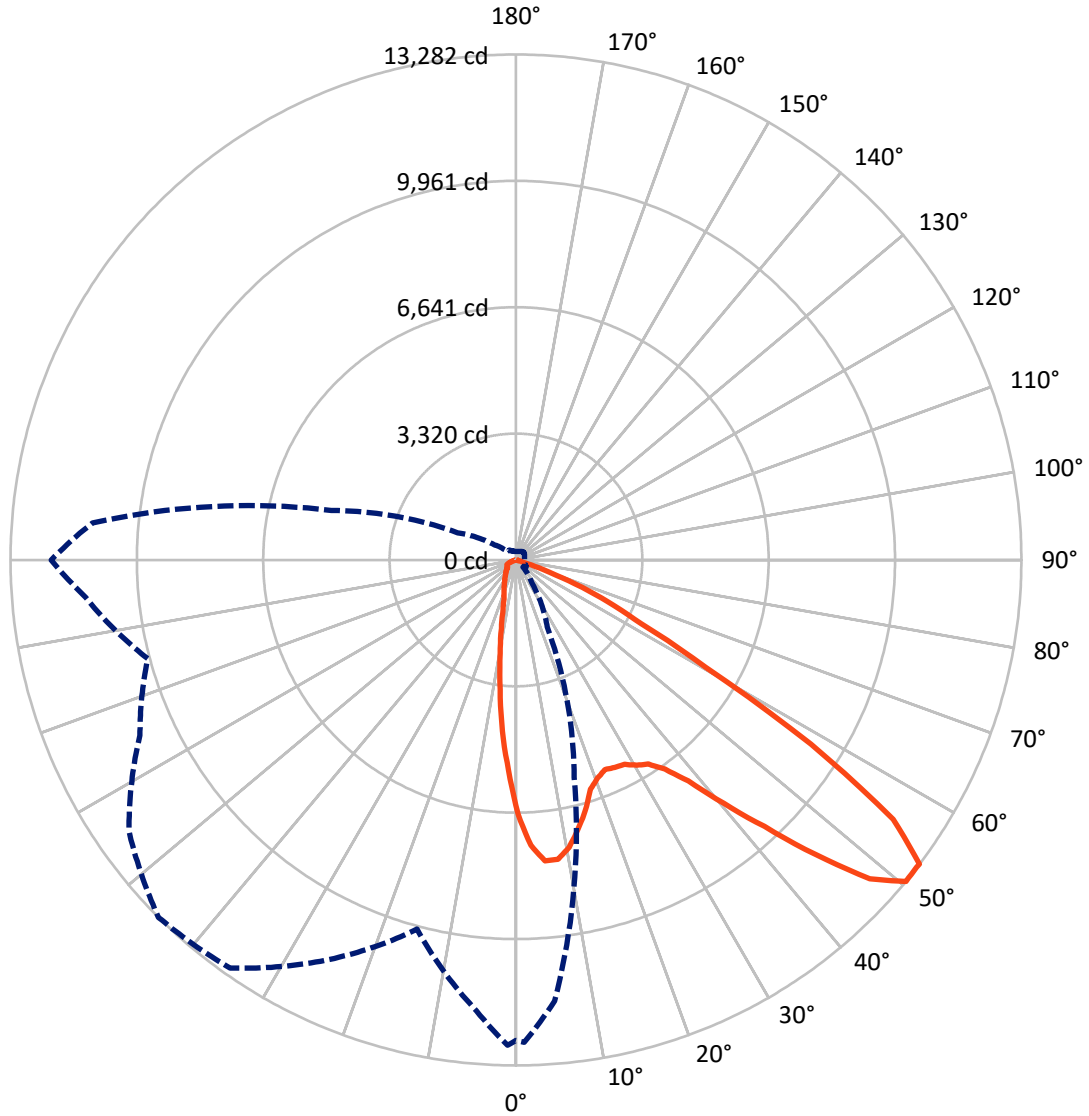
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2639.0	0.0	2639.0
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	10536.0	0.0	10536.0
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	13175.0	0.0	13175.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.0	3.7
10°-20°	967.9	7.3
20°-30°	1454.1	11.0
30°-40°	2182.5	16.6
40°-50°	3067.4	23.3
50°-60°	3308.7	25.1
60°-70°	1536.2	11.7
70°-80°	144.5	1.1
80°-90°	26.6	0.2
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°	13175.0	100.0
0°-180°	13175.0	100.0

**Coefficient of Utilization**

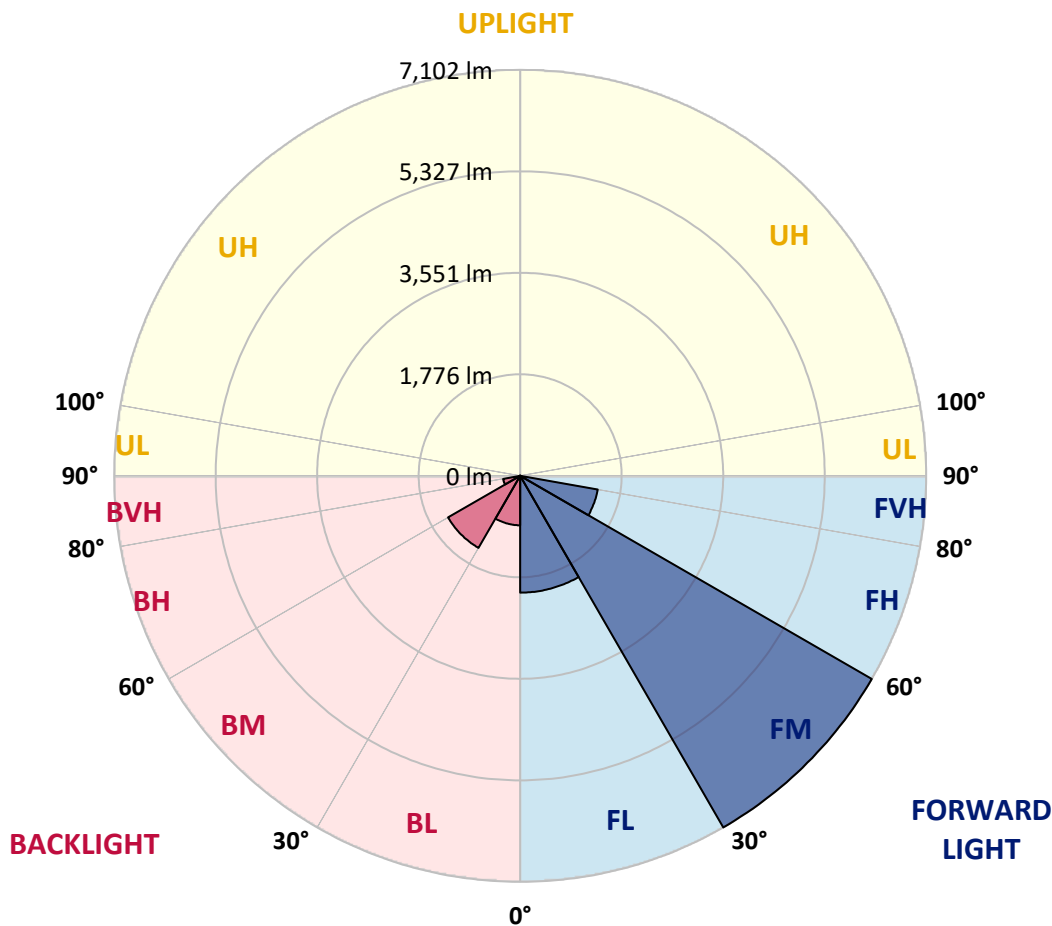


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.0	15.5			
FM (30°-60°)	7102.3	53.9			
FH (60°-80°)	1377.7	10.5			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	865.0	6.6	B2/1000		
BM (30°-60°)	1456.3	11.1	B2/2500		
BH (60°-80°)	303.0	2.3	B1/500		G1/500
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4
2.5°	6945.4	6838.2	6702.3	6589.9	6422.6	6085.4	5993.9	5884.1	5792.6	5669.8	5497.2
5°	6315.4	6281.4	6218.7	5795.2	5489.4	5081.6	4747.0	4605.9	4420.3	4268.7	4158.9
7.5°	5834.4	5698.5	5499.9	5073.8	4585.0	4148.4	3777.2	3560.3	3314.6	3230.9	3081.9
10°	5319.5	5350.9	5058.1	4459.5	3868.7	3515.8	3285.8	3076.7	2854.5	2708.1	2496.4
12.5°	5154.8	5052.9	4828.1	4088.3	3583.8	3254.4	2974.7	2715.9	2480.7	2245.4	2041.5
15°	5262.0	5105.1	4791.5	4009.9	3364.2	2953.8	2603.5	2253.3	2036.3	1735.7	1524.0
17.5°	5646.2	5520.8	5099.9	4093.5	3251.8	2666.3	2146.1	1785.4	1453.4	1181.5	1074.4
20°	6286.7	6108.9	5580.9	4200.7	3084.5	2318.6	1740.9	1296.5	982.9	867.8	807.7
22.5°	6914.0	6817.3	6150.7	4407.2	2935.5	2010.2	1307.0	873.1	734.5	713.6	674.4
25°	8108.6	7818.5	7021.2	4781.0	2820.5	1720.0	985.5	703.2	622.1	606.4	611.7
27.5°	8819.6	8576.5	7826.3	5029.3	2692.4	1497.8	833.9	645.7	590.8	556.8	543.7
30°	9501.9	9219.6	8226.3	5175.7	2418.0	1262.6	739.8	619.5	606.4	556.8	541.1
32.5°	10027.3	9750.2	8804.0	5395.3	2305.5	1111.0	609.1	483.6	449.6	444.4	491.4
35°	10832.4	10537.0	9298.0	5515.5	2219.3	1032.5	528.0	431.3	392.1	376.4	379.0
37.5°	11582.6	11381.4	9755.5	5562.6	2127.8	1009.0	473.1	386.9	352.9	342.4	339.8
40°	12210.0	11760.4	10189.4	5612.3	2088.6	964.6	439.2	352.9	329.4	313.7	313.7
42.5°	12497.5	12040.1	10675.6	5583.5	2078.1	894.0	439.2	324.1	305.8	290.2	287.5
45°	12434.8	12249.2	10892.5	5570.4	2078.1	823.4	399.9	316.3	290.2	269.2	264.0
47.5°	12596.9	12353.8	11164.4	5625.3	2036.3	773.7	337.2	332.0	274.5	248.3	243.1
50°	12625.6	12672.7	11637.5	5910.3	1944.8	711.0	264.0	326.8	264.0	224.8	219.6
52°	12813.8	12521.1	11781.3	6061.9	1848.1	664.0	222.2	279.7	253.6	209.1	203.9
52.5°	12555.0	12745.9	11815.3	6116.8	1858.6	632.6	214.3	274.5	248.3	209.1	196.1
55°	12264.9	12447.9	11676.7	6234.4	1704.3	496.7	167.3	198.7	224.8	183.0	175.1
57.5°	10659.9	10845.5	10147.6	5709.0	1388.0	350.3	138.5	149.0	198.7	169.9	162.1
60°	9475.8	9342.4	8516.4	4762.7	985.5	196.1	109.8	115.0	217.0	156.8	154.2
62.5°	8660.2	8375.3	7117.9	3677.9	601.2	130.7	86.3	88.9	167.3	146.4	146.4
65°	6406.9	6088.0	4728.7	2224.5	295.4	91.5	65.4	70.6	104.6	125.5	125.5
67.5°	3657.0	3534.1	2284.6	1003.8	122.9	57.5	49.7	54.9	81.0	101.9	96.7
70°	1680.8	1508.3	878.3	211.7	57.5	39.2	39.2	44.4	65.4	75.8	70.6
72.5°	491.4	465.3	214.3	34.0	23.5	23.5	26.1	34.0	49.7	57.5	52.3
75°	36.6	23.5	15.7	10.5	10.5	15.7	20.9	34.0	49.7	54.9	44.4
77.5°	2.6	5.2	2.6	2.6	7.8	15.7	23.5	41.8	65.4	68.0	49.7
80°	2.6	2.6	0.0	2.6	7.8	15.7	26.1	47.1	73.2	78.4	41.8
82.5°	0.0	0.0	0.0	2.6	10.5	20.9	31.4	49.7	68.0	83.6	44.4
85°	0.0	0.0	0.0	2.6	15.7	28.8	36.6	13.1	7.8	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°	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4
2.5°	5620.1	5552.1	5526.0	5549.5	5541.7	5533.8	5677.6	5646.2	5641.0	5688.1	5677.6
5°	4219.0	4098.8	4428.1	4294.8	4433.3	4517.0	4532.7	4540.5	4637.2	4535.3	4668.6
7.5°	3006.1	3037.5	3034.9	3123.7	3283.2	3424.3	3508.0	3442.6	3437.4	3424.3	3366.8
10°	2402.3	2347.4	2336.9	2316.0	2365.7	2485.9	2587.9	2506.8	2449.3	2527.7	2504.2
12.5°	1963.1	1887.3	1845.5	1761.8	1764.5	1845.5	1845.5	1845.5	1903.0	1947.4	1981.4
15°	1505.7	1442.9	1442.9	1359.3	1341.0	1343.6	1385.4	1390.6	1482.1	1508.3	1521.3
17.5°	1053.4	1019.5	1058.7	1092.7	1071.7	1077.0	1092.7	1097.9	1111.0	1100.5	1126.6
20°	810.3	805.1	815.6	875.7	920.1	946.3	928.0	901.8	886.1	849.6	849.6
22.5°	687.5	697.9	716.2	765.9	823.4	839.1	818.2	758.1	711.0	705.8	708.4
25°	611.7	622.1	650.9	682.3	713.6	739.8	718.9	674.4	648.3	624.7	624.7
27.5°	564.6	569.9	585.5	609.1	635.2	656.1	648.3	624.7	596.0	585.5	562.0
30°	528.0	535.9	554.2	559.4	582.9	593.4	580.3	575.1	556.8	543.7	535.9
32.5°	509.7	507.1	520.2	525.4	528.0	535.9	520.2	528.0	525.4	504.5	496.7
35°	384.3	405.2	439.2	467.9	475.7	486.2	483.6	473.1	444.4	420.9	392.1
37.5°	345.0	358.1	376.4	399.9	431.3	444.4	439.2	413.0	379.0	363.3	358.1
40°	318.9	326.8	342.4	358.1	389.5	413.0	394.7	371.2	345.0	332.0	324.1
42.5°	295.4	298.0	305.8	321.5	345.0	381.6	350.3	318.9	308.5	300.6	295.4
45°	269.2	269.2	279.7	287.5	313.7	347.7	316.3	287.5	282.3	277.1	274.5
47.5°	248.3	250.9	256.2	266.6	287.5	311.1	290.2	266.6	253.6	250.9	245.7
50°	222.2	224.8	235.3	245.7	271.9	284.9	271.9	245.7	232.6	224.8	224.8
52°	201.3	209.1	219.6	240.5	258.8	279.7	264.0	235.3	219.6	211.7	206.5
52.5°	198.7	203.9	214.3	237.9	258.8	277.1	261.4	232.6	214.3	209.1	203.9
55°	177.8	185.6	203.9	232.6	256.2	277.1	256.2	230.0	203.9	190.8	185.6
57.5°	169.9	175.1	198.7	235.3	253.6	277.1	256.2	230.0	203.9	180.4	175.1
60°	162.1	172.5	198.7	227.4	250.9	279.7	258.8	227.4	198.7	169.9	169.9
62.5°	154.2	162.1	196.1	222.2	240.5	269.2	248.3	222.2	190.8	162.1	159.5
65°	133.3	146.4	172.5	185.6	206.5	232.6	211.7	193.4	167.3	143.8	141.2
67.5°	101.9	107.2	128.1	143.8	156.8	180.4	169.9	146.4	128.1	109.8	109.8
70°	70.6	75.8	91.5	99.3	112.4	125.5	117.6	99.3	86.3	75.8	73.2
72.5°	49.7	52.3	57.5	62.7	68.0	73.2	70.6	57.5	49.7	47.1	44.4
75°	39.2	44.4	47.1	44.4	41.8	39.2	39.2	34.0	28.8	26.1	26.1
77.5°	39.2	41.8	39.2	34.0	28.8	26.1	23.5	20.9	15.7	13.1	15.7
80°	34.0	34.0	34.0	28.8	26.1	23.5	20.9	18.3	15.7	13.1	13.1
82.5°	36.6	36.6	34.0	28.8	28.8	23.5	23.5	20.9	18.3	13.1	13.1
85°	0.0	0.0	0.0	5.2	13.1	23.5	23.5	20.9	18.3	15.7	15.7
87.5°	0.0	0.0	0.0	0.0	2.6	5.2	10.5	13.1	15.7	15.7	15.7
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°	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4
2.5°	5771.7	5871.0	6059.3	6247.5	6362.5	6498.4	6744.1	6874.8	7044.7	7128.4	7293.1
5°	4650.3	4885.6	4969.2	5183.6	5413.6	5643.6	6009.6	6412.1	6746.7	6976.8	7274.8
7.5°	3393.0	3447.9	3772.0	3915.8	4292.2	4710.4	5209.7	5716.8	6140.3	6516.7	6744.1
10°	2543.4	2744.7	2948.6	3223.1	3526.3	3957.6	4436.0	4995.4	5544.3	5920.7	6208.3
12.5°	2044.1	2203.6	2475.5	2770.8	3144.6	3429.6	3910.5	4464.7	5175.7	5544.3	5923.3
15°	1547.5	1751.4	2059.8	2365.7	2760.4	3061.0	3547.2	4245.1	5160.0	5667.2	5993.9
17.5°	1147.5	1286.1	1563.2	1905.6	2308.2	2731.6	3387.7	4221.6	5335.2	5939.0	6276.2
20°	878.3	925.4	1100.5	1406.3	1842.9	2397.0	3129.0	4323.6	5852.7	6600.4	6942.8
22.5°	711.0	731.9	799.9	1011.6	1435.1	2104.3	3006.1	4394.1	6435.7	7392.4	7849.8
25°	619.5	614.3	658.7	750.2	1121.4	1829.8	2849.3	4660.8	7149.3	8323.0	8733.4
27.5°	564.6	564.6	585.5	650.9	930.6	1652.0	2749.9	4851.6	7868.1	9141.2	9363.4
30°	535.9	541.1	601.2	622.1	773.7	1440.3	2585.2	5045.0	8555.6	9664.0	9969.8
32.5°	496.7	475.7	462.7	515.0	650.9	1249.5	2420.6	5126.1	9112.4	10304.4	10565.8
35°	381.6	371.2	386.9	426.1	559.4	1087.4	2237.6	5217.5	9752.8	11046.8	11099.0
37.5°	345.0	342.4	352.9	386.9	470.5	946.3	2106.9	5194.0	10241.7	11661.1	11519.9
40°	318.9	318.9	326.8	355.5	420.9	846.9	1971.0	5173.1	10714.8	12351.2	11938.1
42.5°	298.0	298.0	311.1	329.4	399.9	781.6	1869.0	5144.4	11112.1	12774.6	12183.9
45°	269.2	277.1	298.0	316.3	405.2	737.1	1793.2	5034.6	11248.0	12769.4	12066.2
47.5°	248.3	258.8	279.7	305.8	366.0	724.1	1740.9	4937.8	11201.0	12455.7	11697.7
50°	224.8	237.9	266.6	311.1	311.1	697.9	1686.0	5024.1	11167.0	12212.6	11344.8
52°	209.1	219.6	256.2	303.2	271.9	643.0	1652.0	5191.4	11305.6	12181.2	11187.9
52.5°	206.5	214.3	248.3	298.0	258.8	632.6	1628.5	5230.6	11350.0	12102.8	11295.1
55°	183.0	193.4	227.4	232.6	211.7	520.2	1552.7	5319.5	11130.4	11948.6	11193.2
57.5°	172.5	177.8	201.3	190.8	183.0	392.1	1335.8	5180.9	9886.2	10612.8	10414.2
60°	159.5	164.7	188.2	149.0	154.2	274.5	1003.8	4498.7	7938.7	8843.2	9201.3
62.5°	154.2	151.6	177.8	120.2	130.7	198.7	708.4	3657.0	6116.8	7280.0	7899.5
65°	135.9	133.3	128.1	101.9	112.4	154.2	423.5	2386.6	4310.5	5507.7	5847.5
67.5°	104.6	109.8	94.1	81.0	94.1	120.2	235.3	1069.1	2261.1	3304.1	3578.6
70°	73.2	78.4	75.8	70.6	83.6	99.3	135.9	366.0	935.8	1735.7	1913.4
72.5°	44.4	54.9	57.5	60.1	73.2	86.3	96.7	117.6	248.3	614.3	763.3
75°	26.1	36.6	44.4	52.3	60.1	73.2	81.0	83.6	86.3	115.0	185.6
77.5°	18.3	26.1	39.2	49.7	60.1	73.2	86.3	91.5	86.3	81.0	86.3
80°	15.7	26.1	36.6	47.1	62.7	75.8	86.3	86.3	83.6	73.2	78.4
82.5°	15.7	26.1	39.2	49.7	60.1	73.2	83.6	86.3	78.4	73.2	75.8
85°	18.3	28.8	41.8	52.3	65.4	60.1	54.9	44.4	41.8	34.0	36.6
87.5°	18.3	26.1	26.1	28.8	31.4	31.4	31.4	28.8	23.5	20.9	20.9
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: P530031

CATALOG NUMBER: GALN-SA5B-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4
2.5°	7300.9	7510.0	7502.2	7507.4	7476.0	7264.3	7162.4	6903.6	6976.8	6945.4
5°	7580.6	7787.1	7964.9	7943.9	7703.5	7415.9	6989.8	6587.3	6477.5	6315.4
7.5°	7300.9	7797.6	7962.2	7938.7	7583.2	7214.6	6535.0	6132.4	5941.6	5834.4
10°	6856.5	7431.6	7635.5	7677.3	7436.8	6877.4	6252.7	5607.0	5505.1	5319.5
12.5°	6603.0	7021.2	7146.7	7259.1	7175.4	6757.2	6038.3	5418.8	5277.7	5154.8
15°	6396.5	6644.8	6697.1	6825.2	6874.8	6650.0	6150.7	5622.7	5275.1	5262.0
17.5°	6587.3	6485.3	6294.5	6333.7	6490.6	6652.6	6440.9	6025.3	5688.1	5646.2
20°	6903.6	6454.0	6022.7	6119.4	6250.1	6746.7	6880.0	6587.3	6393.8	6286.7
22.5°	7266.9	6508.9	5936.4	5983.4	6231.8	6958.5	7591.1	7429.0	7068.3	6914.0
25°	7938.7	6660.5	6004.4	6035.7	6375.5	7253.9	8234.1	8354.3	8140.0	8108.6
27.5°	8594.8	7052.6	6153.4	6082.8	6448.7	7541.4	8623.6	9269.2	8892.8	8819.6
30°	8929.4	7371.5	6375.5	6255.3	6752.0	7716.5	8858.8	9865.2	9535.9	9501.9
32.5°	9441.8	7661.6	6548.1	6393.8	6921.9	7933.5	9298.0	10516.1	10197.2	10027.3
35°	9656.1	7977.9	6927.1	6746.7	7408.1	8236.7	9522.8	11096.4	10997.1	10832.4
37.5°	10069.1	8317.8	7374.1	7363.6	7996.2	8631.4	9928.0	11885.9	11867.6	11582.6
40°	10103.1	8688.9	8079.9	8409.2	8905.9	9318.9	10283.5	12105.4	12403.4	12210.0
42.5°	10155.4	9339.8	9300.6	9572.5	9998.6	9909.7	10296.5	12157.7	12612.6	12497.5
45°	10178.9	9990.7	10542.3	11044.2	11221.9	10683.4	10173.7	12058.4	12722.3	12434.8
47.5°	9990.7	10550.1	11546.0	12515.8	12568.1	11159.2	10121.4	11956.4	12787.7	12596.9
50°	10016.9	10900.4	12413.9	13281.7	13090.9	11580.0	10040.4	11893.7	12753.7	12625.6
52°	9954.1	10908.2	12536.7	13266.1	13132.7	11347.4	9901.8	11653.2	12722.3	12813.8
52.5°	10024.7	10861.2	12408.7	13276.5	13104.0	11462.4	9883.5	11786.5	12740.6	12555.0
55°	9781.6	10301.8	11658.4	12027.0	12000.9	10403.7	9321.5	11344.8	12262.3	12264.9
57.5°	8840.6	8929.4	9143.8	9135.9	9015.7	8179.2	7972.7	10432.5	10931.8	10659.9
60°	7789.7	6537.6	5959.9	5724.7	5591.3	5455.4	7052.6	9543.7	9590.8	9475.8
62.5°	6731.1	4532.7	3764.2	3698.8	3730.2	4226.8	6817.3	9190.8	8908.5	8660.2
65°	5431.9	3304.1	2734.2	2648.0	2953.8	3489.7	5518.2	7047.3	6613.4	6406.9
67.5°	3411.3	2410.1	1848.1	1686.0	2054.6	2402.3	3625.6	4428.1	3941.9	3657.0
70°	2023.2	1346.2	836.5	750.2	844.3	1280.9	2031.1	2208.8	1827.2	1680.8
72.5°	797.3	494.0	232.6	198.7	206.5	449.6	747.6	729.3	551.6	491.4
75°	214.3	149.0	81.0	65.4	54.9	83.6	120.2	78.4	28.8	36.6
77.5°	99.3	88.9	70.6	54.9	41.8	31.4	15.7	5.2	5.2	2.6
80°	86.3	75.8	65.4	54.9	41.8	26.1	13.1	2.6	2.6	2.6
82.5°	81.0	70.6	60.1	49.7	39.2	26.1	13.1	2.6	0.0	0.0
85°	34.0	44.4	49.7	47.1	41.8	26.1	13.1	2.6	0.0	0.0
87.5°	18.3	15.7	13.1	10.5	7.8	5.2	5.2	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

(END OF REPORT)