

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: P531669

Luminaire Tested: **GALN-SA7A-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531669  
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-SA7A-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA 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: 14727 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

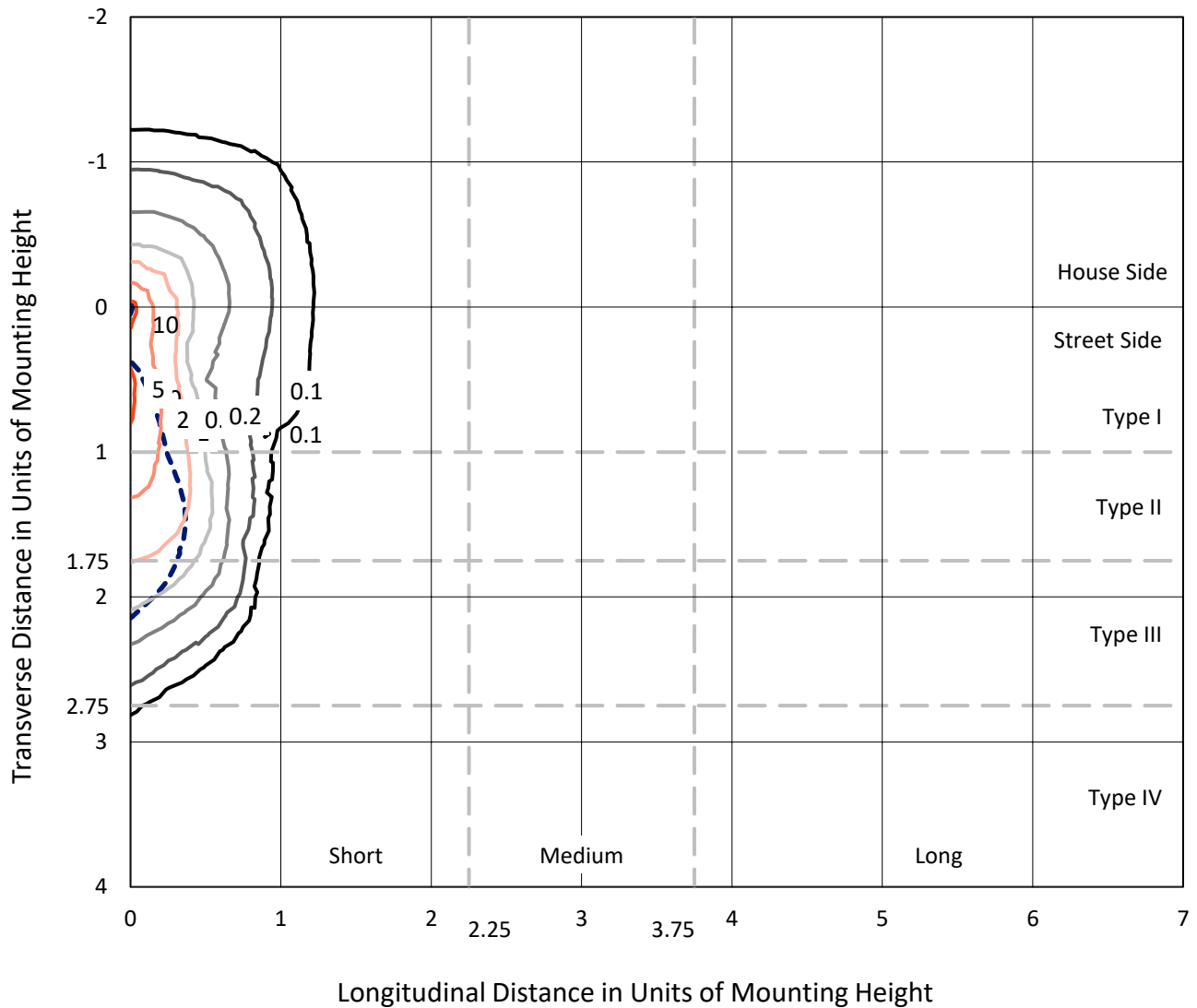
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P531669  
 CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

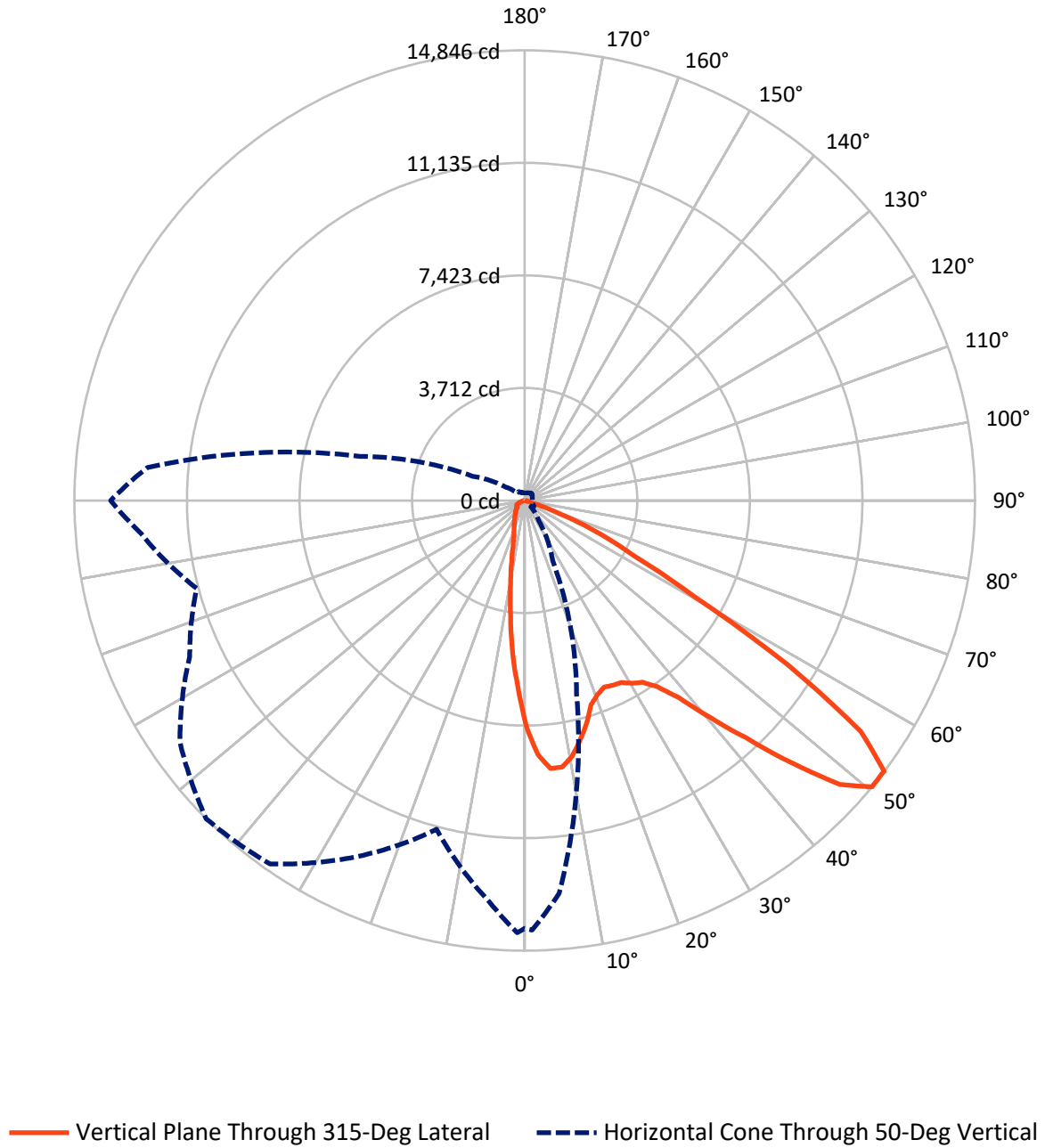
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P531669  
CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P531669  
 CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

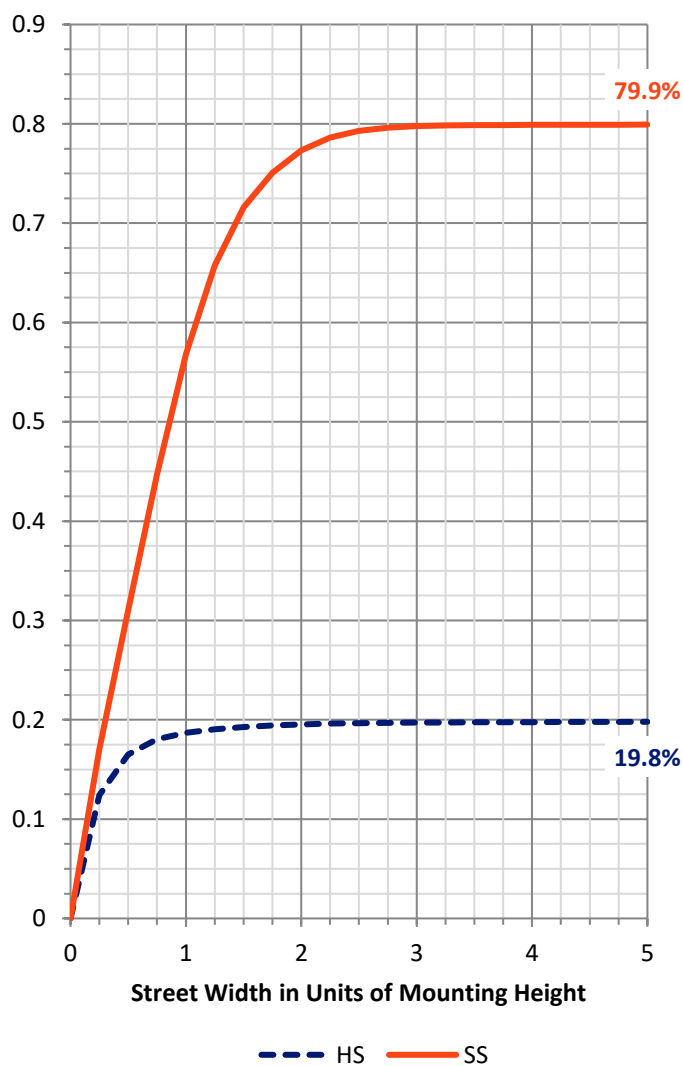
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2949.8	0.0	2949.8
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	11777.2	0.0	11777.2
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	14727.0	0.0	14727.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.4	3.7
10°-20°	1081.9	7.3
20°-30°	1625.4	11.0
30°-40°	2439.6	16.6
40°-50°	3428.7	23.3
50°-60°	3698.5	25.1
60°-70°	1717.2	11.7
70°-80°	161.6	1.1
80°-90°	29.8	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°	14727.0	100.0
0°-180°	14727.0	100.0

**Coefficient of Utilization**

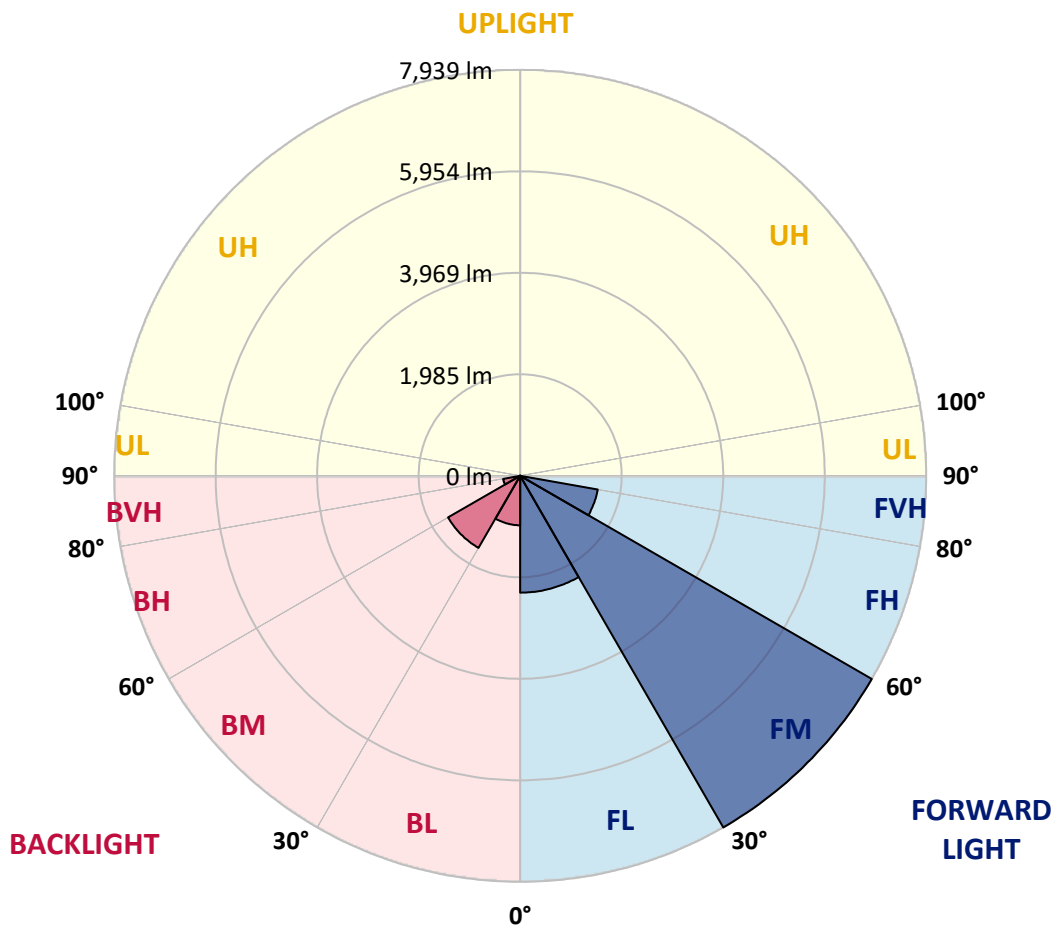


REPORT NUMBER: P531669  
 CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.8	15.5			
FM (30°-60°)	7939.0	53.9			
FH (60°-80°)	1540.0	10.5			G1/1800
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	966.9	6.6	B2/1000		
BM (30°-60°)	1627.9	11.1	B2/2500		
BH (60°-80°)	338.7	2.3	B1/500		G1/500
BVH (80°-90°)	16.4	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





REPORT NUMBER: P531669

CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4
2.5°	7763.6	7643.8	7491.8	7366.2	7179.2	6802.2	6700.0	6577.3	6475.0	6337.7	6144.8
5°	7059.4	7021.4	6951.3	6477.9	6136.0	5680.2	5306.2	5148.4	4941.0	4771.5	4648.8
7.5°	6521.7	6369.8	6147.7	5671.5	5125.1	4637.1	4222.2	3979.7	3705.0	3611.5	3445.0
10°	5946.1	5981.2	5653.9	4984.8	4324.5	3930.0	3672.9	3439.1	3190.7	3027.1	2790.4
12.5°	5762.0	5648.1	5396.8	4569.9	4006.0	3637.8	3325.2	3035.9	2772.9	2509.9	2282.0
15°	5881.8	5706.5	5355.9	4482.2	3760.5	3301.8	2910.2	2518.7	2276.2	1940.2	1703.5
17.5°	6311.4	6171.1	5700.7	4575.7	3634.9	2980.4	2398.9	1995.7	1624.6	1320.7	1200.9
20°	7027.2	6828.5	6238.3	4695.5	3447.9	2591.7	1946.0	1449.3	1098.6	970.1	902.9
22.5°	7728.5	7620.4	6875.3	4926.4	3281.3	2247.0	1461.0	975.9	821.1	797.7	753.9
25°	9063.8	8739.5	7848.3	5344.2	3152.8	1922.6	1101.6	786.0	695.4	677.9	683.7
27.5°	9858.6	9586.8	8748.2	5621.8	3009.6	1674.3	932.1	721.7	660.4	622.4	607.8
30°	10621.2	10305.6	9195.3	5785.4	2702.8	1411.3	826.9	692.5	677.9	622.4	604.8
32.5°	11208.5	10898.8	9841.1	6030.9	2577.1	1241.8	680.8	540.6	502.6	496.7	549.3
35°	12108.5	11778.3	10393.3	6165.3	2480.7	1154.2	590.2	482.1	438.3	420.8	423.7
37.5°	12947.1	12722.1	10904.6	6217.9	2378.4	1127.9	528.9	432.4	394.5	382.8	379.9
40°	13648.3	13145.7	11389.7	6273.4	2334.6	1078.2	490.9	394.5	368.2	350.6	350.6
42.5°	13969.7	13458.4	11933.1	6241.2	2322.9	999.3	490.9	362.3	341.9	324.3	321.4
45°	13899.6	13692.1	12175.7	6226.6	2322.9	920.4	447.1	353.6	324.3	301.0	295.1
47.5°	14080.8	13809.0	12479.6	6288.0	2276.2	864.9	376.9	371.1	306.8	277.6	271.7
50°	14112.9	14165.5	13008.4	6606.5	2173.9	794.8	295.1	365.2	295.1	251.3	245.4
52°	14323.3	13996.0	13169.1	6775.9	2065.8	742.2	248.4	312.6	283.4	233.8	227.9
52.5°	14034.0	14247.3	13207.1	6837.3	2077.5	707.1	239.6	306.8	277.6	233.8	219.1
55°	13709.7	13914.2	13052.2	6968.8	1905.1	555.2	187.0	222.1	251.3	204.5	195.8
57.5°	11915.6	12123.1	11342.9	6381.5	1551.5	391.5	154.9	166.5	222.1	189.9	181.2
60°	10592.0	10443.0	9519.6	5323.8	1101.6	219.1	122.7	128.6	242.5	175.3	172.4
62.5°	9680.3	9361.9	7956.4	4111.2	672.0	146.1	96.4	99.3	187.0	163.6	163.6
65°	7161.6	6805.2	5285.8	2486.6	330.2	102.3	73.0	78.9	116.9	140.3	140.3
67.5°	4087.8	3950.4	2553.8	1122.0	137.3	64.3	55.5	61.4	90.6	114.0	108.1
70°	1878.8	1686.0	981.8	236.7	64.3	43.8	43.8	49.7	73.0	84.7	78.9
72.5°	549.3	520.1	239.6	38.0	26.3	26.3	29.2	38.0	55.5	64.3	58.4
75°	40.9	26.3	17.5	11.7	11.7	17.5	23.4	38.0	55.5	61.4	49.7
77.5°	2.9	5.8	2.9	2.9	8.8	17.5	26.3	46.8	73.0	76.0	55.5
80°	2.9	2.9	0.0	2.9	8.8	17.5	29.2	52.6	81.8	87.7	46.8
82.5°	0.0	0.0	0.0	2.9	11.7	23.4	35.1	55.5	76.0	93.5	49.7
85°	0.0	0.0	0.0	2.9	17.5	32.1	40.9	14.6	8.8	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



REPORT NUMBER: P531669

CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4
2.5°	6282.1	6206.2	6177.0	6203.3	6194.5	6185.7	6346.4	6311.4	6305.5	6358.1	6346.4
5°	4716.0	4581.6	4949.7	4800.7	4955.6	5049.1	5066.6	5075.4	5183.5	5069.5	5218.6
7.5°	3360.2	3395.3	3392.4	3491.7	3669.9	3827.7	3921.2	3848.2	3842.3	3827.7	3763.4
10°	2685.3	2623.9	2612.2	2588.8	2644.3	2778.8	2892.7	2802.1	2737.8	2825.5	2799.2
12.5°	2194.4	2109.6	2062.9	1969.4	1972.3	2062.9	2062.9	2062.9	2127.2	2176.8	2214.8
15°	1683.0	1612.9	1612.9	1519.4	1498.9	1501.9	1548.6	1554.5	1656.7	1686.0	1700.6
17.5°	1177.5	1139.6	1183.4	1221.4	1198.0	1203.8	1221.4	1227.2	1241.8	1230.1	1259.4
20°	905.8	900.0	911.6	978.8	1028.5	1057.7	1037.3	1008.1	990.5	949.6	949.6
22.5°	768.5	780.2	800.6	856.1	920.4	937.9	914.6	847.4	794.8	788.9	791.8
25°	683.7	695.4	727.6	762.6	797.7	826.9	803.5	753.9	724.6	698.3	698.3
27.5°	631.1	637.0	654.5	680.8	710.0	733.4	724.6	698.3	666.2	654.5	628.2
30°	590.2	599.0	619.4	625.3	651.6	663.3	648.7	642.8	622.4	607.8	599.0
32.5°	569.8	566.9	581.5	587.3	590.2	599.0	581.5	590.2	587.3	563.9	555.2
35°	429.5	452.9	490.9	523.0	531.8	543.5	540.6	528.9	496.7	470.4	438.3
37.5°	385.7	400.3	420.8	447.1	482.1	496.7	490.9	461.7	423.7	406.1	400.3
40°	356.5	365.2	382.8	400.3	435.4	461.7	441.2	414.9	385.7	371.1	362.3
42.5°	330.2	333.1	341.9	359.4	385.7	426.6	391.5	356.5	344.8	336.0	330.2
45°	301.0	301.0	312.6	321.4	350.6	388.6	353.6	321.4	315.6	309.7	306.8
47.5°	277.6	280.5	286.3	298.0	321.4	347.7	324.3	298.0	283.4	280.5	274.7
50°	248.4	251.3	263.0	274.7	303.9	318.5	303.9	274.7	260.1	251.3	251.3
52°	225.0	233.8	245.4	268.8	289.3	312.6	295.1	263.0	245.4	236.7	230.8
52.5°	222.1	227.9	239.6	265.9	289.3	309.7	292.2	260.1	239.6	233.8	227.9
55°	198.7	207.5	227.9	260.1	286.3	309.7	286.3	257.1	227.9	213.3	207.5
57.5°	189.9	195.8	222.1	263.0	283.4	309.7	286.3	257.1	227.9	201.6	195.8
60°	181.2	192.8	222.1	254.2	280.5	312.6	289.3	254.2	222.1	189.9	189.9
62.5°	172.4	181.2	219.1	248.4	268.8	301.0	277.6	248.4	213.3	181.2	178.2
65°	149.0	163.6	192.8	207.5	230.8	260.1	236.7	216.2	187.0	160.7	157.8
67.5°	114.0	119.8	143.2	160.7	175.3	201.6	189.9	163.6	143.2	122.7	122.7
70°	78.9	84.7	102.3	111.0	125.6	140.3	131.5	111.0	96.4	84.7	81.8
72.5°	55.5	58.4	64.3	70.1	76.0	81.8	78.9	64.3	55.5	52.6	49.7
75°	43.8	49.7	52.6	49.7	46.8	43.8	43.8	38.0	32.1	29.2	29.2
77.5°	43.8	46.8	43.8	38.0	32.1	29.2	26.3	23.4	17.5	14.6	17.5
80°	38.0	38.0	38.0	32.1	29.2	26.3	23.4	20.5	17.5	14.6	14.6
82.5°	40.9	40.9	38.0	32.1	32.1	26.3	26.3	23.4	20.5	14.6	14.6
85°	0.0	0.0	0.0	5.8	14.6	26.3	26.3	23.4	20.5	17.5	17.5
87.5°	0.0	0.0	0.0	0.0	2.9	5.8	11.7	14.6	17.5	17.5	17.5
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: P531669

CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4
2.5°	6451.6	6562.6	6773.0	6983.4	7112.0	7263.9	7538.6	7684.7	7874.6	7968.1	8152.2
5°	5198.1	5461.1	5554.6	5794.2	6051.3	6308.4	6717.5	7167.5	7541.5	7798.6	8131.7
7.5°	3792.7	3854.0	4216.3	4377.0	4797.8	5265.3	5823.4	6390.3	6863.6	7284.4	7538.6
10°	2843.0	3068.0	3295.9	3602.7	3941.7	4423.8	4958.5	5583.8	6197.4	6618.2	6939.6
12.5°	2284.9	2463.2	2767.1	3097.2	3515.1	3833.6	4371.2	4990.7	5785.4	6197.4	6621.1
15°	1729.8	1957.7	2302.5	2644.3	3085.6	3421.6	3965.1	4745.2	5767.9	6334.7	6700.0
17.5°	1282.7	1437.6	1747.3	2130.1	2580.1	3053.4	3786.8	4718.9	5963.7	6638.6	7015.5
20°	981.8	1034.4	1230.1	1572.0	2060.0	2679.4	3497.5	4832.9	6542.2	7377.9	7760.6
22.5°	794.8	818.1	894.1	1130.8	1604.1	2352.2	3360.2	4911.8	7193.8	8263.2	8774.5
25°	692.5	686.7	736.3	838.6	1253.5	2045.3	3184.9	5209.8	7991.5	9303.4	9762.2
27.5°	631.1	631.1	654.5	727.6	1040.2	1846.7	3073.9	5423.1	8795.0	10218.0	10466.3
30°	599.0	604.8	672.0	695.4	864.9	1610.0	2889.8	5639.3	9563.5	10802.4	11144.2
32.5°	555.2	531.8	517.2	575.6	727.6	1396.7	2705.7	5729.9	10185.8	11518.2	11810.4
35°	426.6	414.9	432.4	476.3	625.3	1215.5	2501.2	5832.2	10901.7	12348.1	12406.5
37.5°	385.7	382.8	394.5	432.4	525.9	1057.7	2355.1	5805.9	11448.1	13034.7	12876.9
40°	356.5	356.5	365.2	397.4	470.4	946.7	2203.1	5782.5	11977.0	13806.1	13344.4
42.5°	333.1	333.1	347.7	368.2	447.1	873.7	2089.2	5750.4	12421.1	14279.5	13619.1
45°	301.0	309.7	333.1	353.6	452.9	824.0	2004.4	5627.6	12573.1	14273.6	13487.6
47.5°	277.6	289.3	312.6	341.9	409.1	809.4	1946.0	5519.5	12520.5	13923.0	13075.6
50°	251.3	265.9	298.0	347.7	347.7	780.2	1884.6	5615.9	12482.5	13651.2	12681.2
52°	233.8	245.4	286.3	338.9	303.9	718.8	1846.7	5802.9	12637.3	13616.2	12505.8
52.5°	230.8	239.6	277.6	333.1	289.3	707.1	1820.4	5846.8	12687.0	13528.5	12625.6
55°	204.5	216.2	254.2	260.1	236.7	581.5	1735.6	5946.1	12441.6	13356.1	12511.7
57.5°	192.8	198.7	225.0	213.3	204.5	438.3	1493.1	5791.3	11050.7	11863.0	11641.0
60°	178.2	184.1	210.4	166.5	172.4	306.8	1122.0	5028.6	8873.9	9884.9	10285.2
62.5°	172.4	169.5	198.7	134.4	146.1	222.1	791.8	4087.8	6837.3	8137.6	8830.1
65°	151.9	149.0	143.2	114.0	125.6	172.4	473.4	2667.7	4818.3	6156.5	6536.4
67.5°	116.9	122.7	105.2	90.6	105.2	134.4	263.0	1195.1	2527.5	3693.3	4000.1
70°	81.8	87.7	84.7	78.9	93.5	111.0	151.9	409.1	1046.0	1940.2	2138.9
72.5°	49.7	61.4	64.3	67.2	81.8	96.4	108.1	131.5	277.6	686.7	853.2
75°	29.2	40.9	49.7	58.4	67.2	81.8	90.6	93.5	96.4	128.6	207.5
77.5°	20.5	29.2	43.8	55.5	67.2	81.8	96.4	102.3	96.4	90.6	96.4
80°	17.5	29.2	40.9	52.6	70.1	84.7	96.4	96.4	93.5	81.8	87.7
82.5°	17.5	29.2	43.8	55.5	67.2	81.8	93.5	96.4	87.7	81.8	84.7
85°	20.5	32.1	46.8	58.4	73.0	67.2	61.4	49.7	46.8	38.0	40.9
87.5°	20.5	29.2	29.2	32.1	35.1	35.1	35.1	32.1	26.3	23.4	23.4
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: P531669

CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4	7468.4
2.5°	8160.9	8394.7	8385.9	8391.8	8356.7	8120.0	8006.1	7716.8	7798.6	7763.6
5°	8473.6	8704.4	8903.1	8879.7	8610.9	8289.5	7813.2	7363.3	7240.5	7059.4
7.5°	8160.9	8716.1	8900.2	8873.9	8476.5	8064.5	7304.8	6854.8	6641.5	6521.7
10°	7664.2	8307.0	8534.9	8581.7	8312.9	7687.6	6989.2	6267.5	6153.6	5946.1
12.5°	7380.8	7848.3	7988.5	8114.2	8020.7	7553.2	6749.7	6057.2	5899.4	5762.0
15°	7150.0	7427.5	7486.0	7629.2	7684.7	7433.4	6875.3	6285.1	5896.4	5881.8
17.5°	7363.3	7249.3	7036.0	7079.8	7255.1	7436.3	7199.6	6735.0	6358.1	6311.4
20°	7716.8	7214.2	6732.1	6840.2	6986.3	7541.5	7690.5	7363.3	7147.0	7027.2
22.5°	8123.0	7275.6	6635.7	6688.3	6965.9	7778.2	8485.3	8304.1	7900.9	7728.5
25°	8873.9	7445.1	6711.7	6746.7	7126.6	8108.3	9204.1	9338.5	9098.9	9063.8
27.5°	9607.3	7883.4	6878.2	6799.3	7208.4	8429.8	9639.4	10361.2	9940.4	9858.6
30°	9981.3	8239.8	7126.6	6992.2	7547.3	8625.5	9902.4	11027.4	10659.2	10621.2
32.5°	10554.0	8564.2	7319.4	7147.0	7737.3	8868.0	10393.3	11754.9	11398.4	11208.5
35°	10793.6	8917.7	7743.1	7541.5	8280.7	9207.0	10644.6	12403.6	12292.5	12108.5
37.5°	11255.3	9297.6	8242.8	8231.1	8938.2	9648.2	11097.5	13286.0	13265.5	12947.1
40°	11293.2	9712.5	9031.7	9399.8	9955.0	10416.7	11494.9	13531.4	13864.5	13648.3
42.5°	11351.7	10440.0	10396.2	10700.1	11176.4	11077.0	11509.5	13589.9	14098.3	13969.7
45°	11378.0	11167.6	11784.1	12345.1	12543.8	11941.9	11372.1	13478.8	14221.0	13899.6
47.5°	11167.6	11792.9	12906.2	13990.2	14048.6	12473.7	11313.7	13364.9	14294.1	14080.8
50°	11196.8	12184.4	13876.2	14846.3	14633.0	12944.1	11223.1	13294.8	14256.1	14112.9
52°	11126.7	12193.2	14013.6	14828.8	14679.8	12684.1	11068.3	13026.0	14221.0	14323.3
52.5°	11205.6	12140.6	13870.4	14840.5	14647.6	12812.6	11047.8	13175.0	14241.5	14034.0
55°	10933.9	11515.3	13031.8	13443.8	13414.6	11629.3	10419.6	12681.2	13706.8	13709.7
57.5°	9882.0	9981.3	10220.9	10212.1	10077.7	9142.7	8911.9	11661.4	12219.5	11915.6
60°	8707.3	7307.7	6662.0	6399.0	6250.0	6098.1	7883.4	10668.0	10720.6	10592.0
62.5°	7524.0	5066.6	4207.6	4134.5	4169.6	4724.8	7620.4	10273.5	9957.9	9680.3
65°	6071.8	3693.3	3056.3	2959.9	3301.8	3900.8	6168.2	7877.5	7392.5	7161.6
67.5°	3813.1	2694.0	2065.8	1884.6	2296.6	2685.3	4052.7	4949.7	4406.3	4087.8
70°	2261.6	1504.8	935.0	838.6	943.8	1431.7	2270.3	2469.0	2042.4	1878.8
72.5°	891.2	552.2	260.1	222.1	230.8	502.6	835.7	815.2	616.5	549.3
75°	239.6	166.5	90.6	73.0	61.4	93.5	134.4	87.7	32.1	40.9
77.5°	111.0	99.3	78.9	61.4	46.8	35.1	17.5	5.8	5.8	2.9
80°	96.4	84.7	73.0	61.4	46.8	29.2	14.6	2.9	2.9	2.9
82.5°	90.6	78.9	67.2	55.5	43.8	29.2	14.6	2.9	0.0	0.0
85°	38.0	49.7	55.5	52.6	46.8	29.2	14.6	2.9	0.0	0.0
87.5°	20.5	17.5	14.6	11.7	8.8	5.8	5.8	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)