

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: P456004

Luminaire Tested: **GALN-SA7B-727-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-727-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23804 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

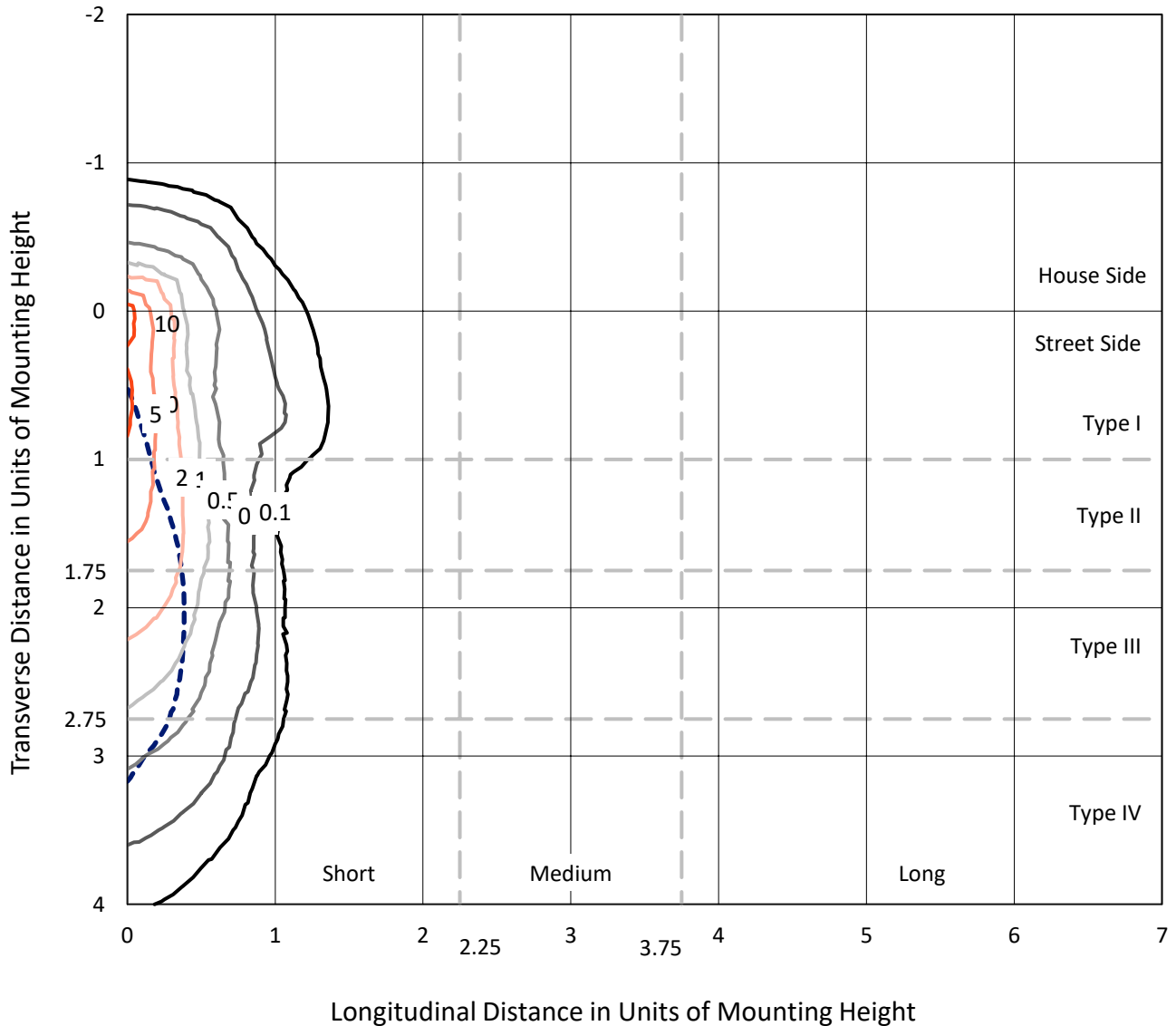
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

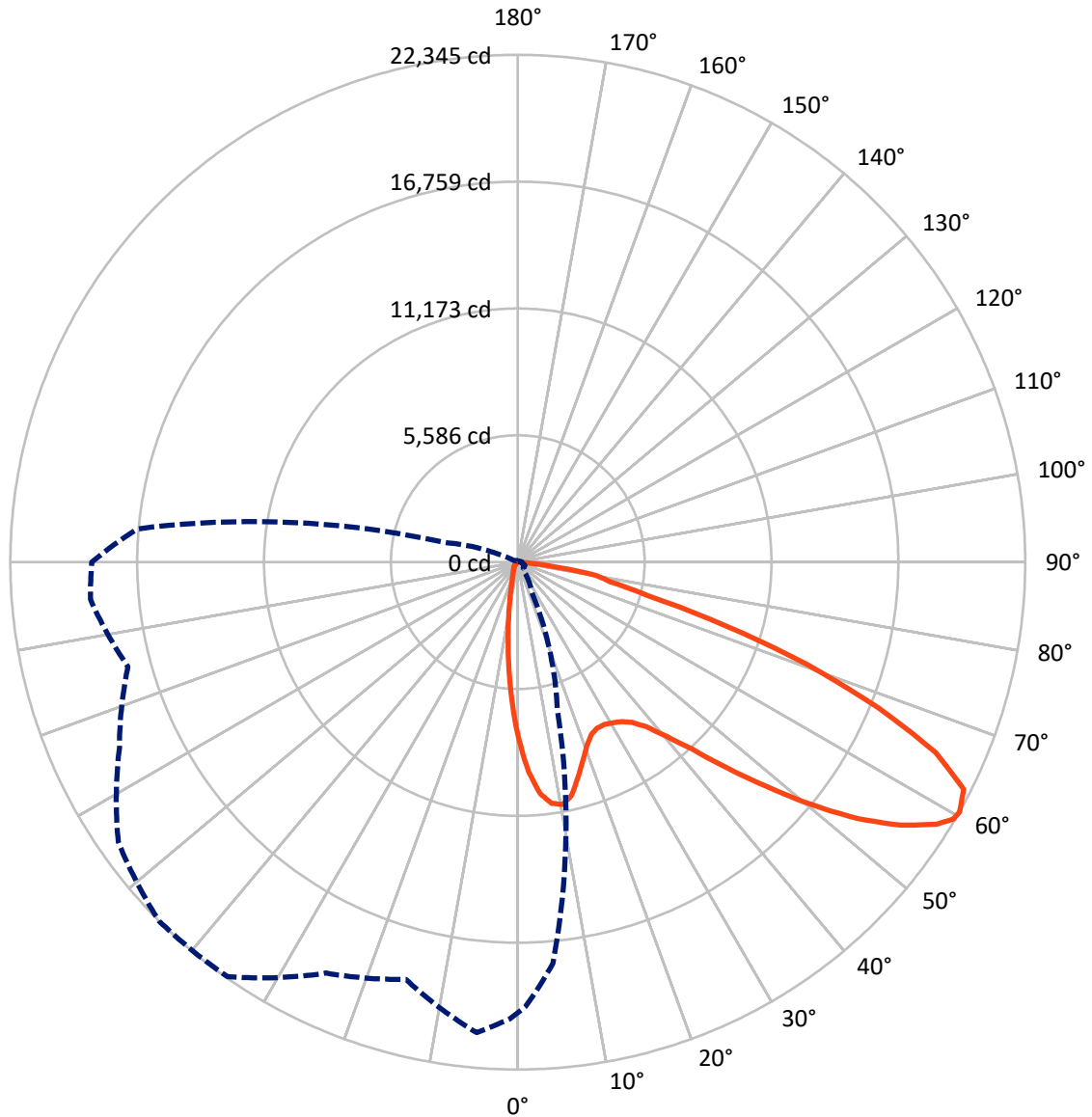
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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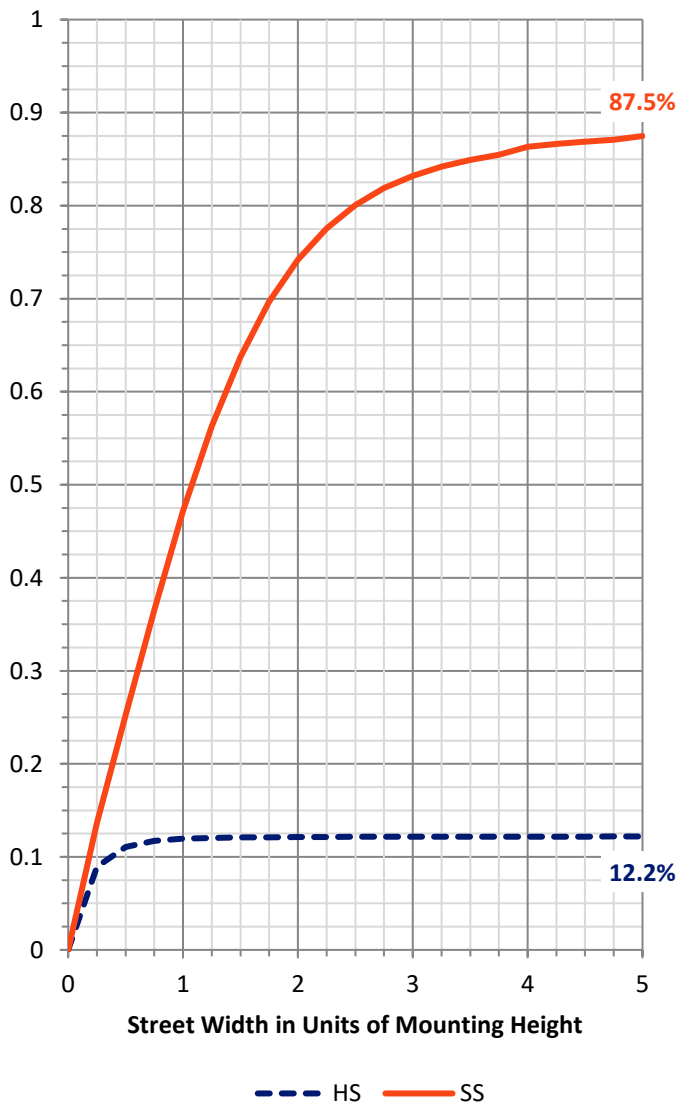
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2936.0	0.0	2936.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	20868.0	0.0	20868.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	23804.0	0.0	23804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.2	2.5
10°-20°	1162.1	4.9
20°-30°	1704.0	7.2
30°-40°	2534.2	10.6
40°-50°	3688.0	15.5
50°-60°	5318.4	22.3
60°-70°	5849.6	24.6
70°-80°	2620.2	11.0
80°-90°	342.4	1.4
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°	23804.0	100.0
0°-180°	23804.0	100.0

**Coefficient of Utilization**



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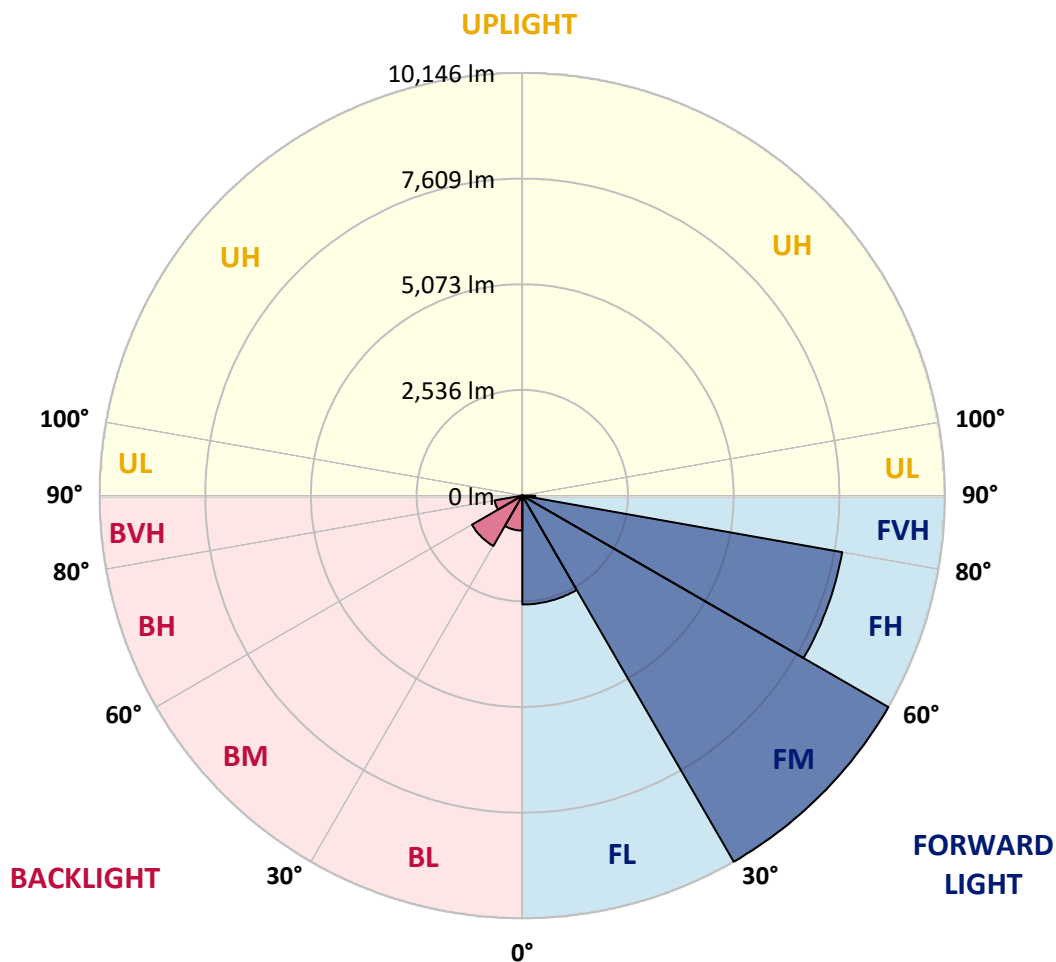
CATALOG NUMBER: GALN-SA7B-727-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2612.4	11.0			
FM	(30°-60°)	10146.0	42.6			
FH	(60°-80°)	7796.5	32.8			G4/12000
FVH	(80°-90°)	313.1	1.3			G3/500
BL	(0°-30°)	838.9	3.5	B2/1000		
BM	(30°-60°)	1394.5	5.9	B2/2500		
BH	(60°-80°)	673.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	29.3	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6
2.5°	8649.3	8611.3	8524.4	8260.2	8030.4	7730.0	7426.1	7187.2	7040.6	6771.0	6648.0
5°	8379.6	8397.7	8146.2	7603.4	6999.0	6586.5	6135.9	5777.6	5383.2	5133.5	4871.1
7.5°	7675.8	7639.6	7366.3	6610.0	5875.3	5278.2	4708.2	4245.0	3953.7	3720.3	3524.8
10°	7073.2	7046.1	6696.8	5723.3	4934.4	4487.5	4102.1	3696.7	3383.7	3041.7	2768.5
12.5°	6695.0	6633.5	6231.8	5214.9	4572.5	4156.3	3736.5	3314.9	2882.5	2536.9	2205.7
15°	6568.4	6479.7	6032.8	5039.4	4340.9	3812.5	3286.0	2801.1	2303.5	1921.7	1671.9
17.5°	6798.2	6651.6	6175.7	5008.6	4064.1	3363.8	2716.0	2084.5	1567.0	1275.7	1121.9
20°	7324.7	7156.4	6537.6	4977.8	3756.5	2860.8	2064.6	1472.9	1083.9	924.6	839.6
22.5°	8106.4	7874.8	7073.2	5026.7	3472.4	2370.4	1491.0	1040.4	861.3	761.8	702.1
25°	9045.5	8851.9	7751.8	5200.4	3248.0	1985.0	1152.6	850.4	725.6	664.1	618.8
27.5°	10075.1	9765.7	8629.3	5408.5	3043.5	1686.4	1011.5	760.0	646.0	589.9	566.4
30°	10807.9	10567.3	9364.0	5553.3	2788.4	1462.0	924.6	749.1	647.8	580.8	537.4
32.5°	11531.7	11224.1	9979.2	5620.2	2602.0	1306.4	799.8	653.2	568.2	533.8	490.4
35°	12306.2	11984.1	10592.6	5584.0	2462.7	1203.3	725.6	582.6	486.7	428.8	385.4
37.5°	13089.7	12749.5	11202.4	5453.7	2375.8	1161.7	667.7	553.7	459.6	399.9	352.8
40°	14019.7	13565.6	11774.2	5347.0	2285.4	1140.0	629.7	535.6	439.7	376.4	329.3
42.5°	14779.7	14347.3	12315.2	5290.9	2223.8	1089.3	629.7	521.1	427.0	356.5	307.6
45°	15499.9	15051.1	12899.7	5336.1	2198.5	1026.0	636.9	519.3	418.0	342.0	293.1
47.5°	16102.4	15713.4	13500.4	5506.2	2165.9	957.2	598.9	544.6	412.6	329.3	278.7
50°	16813.6	16437.2	14294.8	5850.0	2108.0	888.4	551.9	586.3	410.7	318.5	266.0
52.5°	17816.0	17408.9	15391.3	6240.9	2015.7	783.5	508.5	580.8	403.5	300.4	253.3
55°	19041.0	18711.7	16661.6	6709.5	1889.1	665.9	439.7	515.7	381.8	269.6	231.6
57.5°	19826.3	19545.9	17613.4	6912.2	1695.5	544.6	387.2	432.5	349.2	240.7	206.3
59°	19918.6	19665.3	17812.4	6845.2	1568.8	497.6	361.9	370.9	340.2	224.4	191.8
60°	19840.8	19578.4	17732.8	6714.9	1451.2	465.0	340.2	329.3	342.0	215.3	180.9
62.5°	19341.4	18892.6	16960.1	6054.5	1268.4	427.0	302.2	269.6	302.2	193.6	161.0
65°	18376.9	17703.8	15431.1	5124.4	1196.1	405.3	256.9	226.2	229.8	170.1	139.3
67.5°	16692.3	15843.7	13395.5	4163.6	1165.3	407.1	217.1	202.7	177.3	144.8	123.0
70°	14028.8	13182.0	10748.2	3425.3	1150.8	407.1	184.6	173.7	148.4	121.2	106.8
72.5°	9941.2	9029.2	7250.5	2690.7	1036.8	405.3	157.4	157.4	121.2	101.3	86.9
75°	5616.6	5623.8	4558.0	1903.6	861.3	334.8	126.7	124.9	88.7	77.8	65.1
77.5°	3273.3	3215.4	3072.5	817.9	399.9	152.0	88.7	76.0	61.5	56.1	47.0
80°	1682.8	1384.2	1348.1	296.8	142.9	95.9	61.5	43.4	39.8	36.2	32.6
82.5°	497.6	499.4	445.1	119.4	79.6	63.3	30.8	23.5	21.7	19.9	19.9
85°	34.4	21.7	25.3	36.2	48.9	25.3	1.8	5.4	5.4	7.2	9.0
87.5°	3.6	1.8	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°	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6
2.5°	6512.3	6591.9	6443.5	6447.1	6324.1	6363.9	6219.1	6266.2	6181.1	6246.3	6438.1
5°	4900.0	4918.1	4798.7	4760.7	4778.8	4853.0	4881.9	4749.9	4805.9	4695.6	4688.3
7.5°	3452.5	3474.2	3405.4	3396.4	3526.7	3495.9	3552.0	3416.3	3287.8	3343.9	3240.8
10°	2681.6	2591.2	2450.0	2410.2	2384.9	2401.2	2401.2	2278.1	2260.0	2211.2	2285.4
12.5°	2117.1	2006.7	1872.8	1691.9	1646.6	1643.0	1576.0	1467.5	1433.1	1391.5	1453.0
15°	1538.0	1492.8	1380.6	1279.3	1176.2	1156.2	1047.7	959.0	841.4	825.1	819.7
17.5°	1082.1	1015.1	1013.3	955.4	895.7	855.9	754.5	653.2	608.0	602.6	602.6
20°	810.6	787.1	749.1	741.9	723.8	678.6	588.1	533.8	512.1	513.9	521.1
22.5°	682.2	665.9	631.5	615.2	608.0	568.2	501.2	465.0	454.2	454.2	456.0
25°	609.8	595.3	557.3	532.0	522.9	494.0	441.5	414.4	405.3	405.3	405.3
27.5°	555.5	537.4	497.6	475.9	459.6	427.0	394.5	367.3	358.3	358.3	360.1
30°	517.5	497.6	461.4	432.5	407.1	378.2	351.0	327.5	316.7	314.8	316.7
32.5°	466.8	448.7	412.6	394.5	365.5	331.1	309.4	287.7	276.8	278.7	276.8
35°	363.7	358.3	332.9	338.4	322.1	293.1	273.2	249.7	237.0	235.2	238.8
37.5°	331.1	309.4	280.5	282.3	276.8	266.0	233.4	208.1	199.0	199.0	200.9
40°	305.8	284.1	251.5	235.2	237.0	237.0	202.7	175.5	166.5	164.7	168.3
42.5°	284.1	262.4	226.2	199.0	191.8	200.9	171.9	144.8	135.7	132.1	135.7
45°	269.6	246.1	204.5	173.7	152.0	162.9	141.1	119.4	108.6	108.6	106.8
47.5°	255.1	233.4	188.2	150.2	126.7	121.2	115.8	95.9	85.0	83.2	85.0
50°	242.5	220.8	170.1	130.3	106.8	94.1	94.1	76.0	68.8	65.1	67.0
52.5°	229.8	206.3	153.8	115.8	92.3	76.0	67.0	61.5	56.1	54.3	56.1
55°	211.7	188.2	137.5	99.5	79.6	63.3	52.5	50.7	47.0	43.4	47.0
57.5°	190.0	168.3	121.2	85.0	63.3	48.9	43.4	41.6	38.0	36.2	36.2
59°	177.3	157.4	112.2	74.2	56.1	43.4	39.8	38.0	34.4	30.8	32.6
60°	170.1	153.8	106.8	68.8	50.7	39.8	36.2	34.4	30.8	29.0	30.8
62.5°	150.2	137.5	94.1	56.1	39.8	29.0	25.3	27.1	25.3	23.5	25.3
65°	132.1	121.2	79.6	43.4	30.8	19.9	18.1	23.5	21.7	19.9	21.7
67.5°	117.6	104.9	67.0	32.6	21.7	10.9	12.7	19.9	19.9	18.1	19.9
70°	101.3	90.5	54.3	23.5	10.9	5.4	9.0	14.5	18.1	16.3	18.1
72.5°	83.2	70.6	41.6	16.3	5.4	0.0	5.4	12.7	18.1	16.3	18.1
75°	65.1	52.5	30.8	9.0	0.0	0.0	1.8	10.9	18.1	16.3	18.1
77.5°	47.0	38.0	18.1	1.8	0.0	0.0	1.8	10.9	18.1	16.3	18.1
80°	30.8	27.1	7.2	0.0	0.0	0.0	1.8	10.9	18.1	18.1	19.9
82.5°	19.9	14.5	0.0	0.0	0.0	0.0	3.6	14.5	19.9	21.7	21.7
85°	9.0	0.0	0.0	0.0	0.0	0.0	7.2	18.1	23.5	23.5	23.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	12.7	21.7	27.1	27.1	27.1
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°	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6
2.5°	6470.7	6584.7	6745.7	6993.6	7194.4	7511.1	7753.6	8084.7	8419.4	8520.8	8678.2
5°	4762.5	4909.1	5274.6	5607.5	5817.4	6486.9	6910.4	7578.0	8177.0	8464.7	8777.7
7.5°	3307.7	3481.4	3760.1	4225.1	4666.6	5211.3	5895.2	6658.8	7536.4	7947.2	8388.7
10°	2321.5	2538.7	2931.3	3313.1	3868.6	4386.1	5061.1	5904.3	6872.4	7357.3	7911.0
12.5°	1465.7	1659.3	2178.6	2607.4	3300.5	3901.2	4523.7	5287.3	6409.1	6906.7	7487.6
15°	837.8	1000.6	1243.1	1793.2	2562.2	3356.6	4132.8	5019.5	6172.1	6785.5	7413.4
17.5°	624.3	667.7	776.3	1087.5	1787.8	2716.0	3772.7	4938.0	6333.1	7053.3	7769.9
20°	524.7	553.7	604.4	727.4	1140.0	2091.7	3421.7	4952.5	6854.3	7759.0	8439.4
22.5°	470.5	488.6	530.2	609.8	778.1	1523.6	3011.0	5037.6	7485.8	8625.7	9411.0
25°	412.6	436.1	472.3	541.0	647.8	1056.7	2605.6	5227.5	8370.6	9725.9	10464.1
27.5°	367.3	389.0	425.2	488.6	568.2	807.0	2133.4	5390.4	9304.3	10833.3	11437.6
30°	322.1	343.8	380.0	430.7	503.0	653.2	1624.9	5486.3	10210.8	11663.8	12128.9
32.5°	284.1	302.2	336.6	381.8	441.5	553.7	1281.1	5386.8	10903.8	12418.4	12729.6
35°	246.1	267.8	296.8	338.4	390.8	472.3	1065.8	5043.0	11499.2	13194.6	13306.8
37.5°	206.3	231.6	262.4	300.4	342.0	434.3	855.9	4663.0	12136.1	14162.7	13978.1
40°	173.7	197.2	226.2	267.8	305.8	398.1	658.6	4257.7	12823.7	15071.1	14711.0
42.5°	141.1	166.5	200.9	238.8	302.2	347.4	510.3	3837.9	13440.7	15861.8	15373.2
45°	112.2	133.9	170.1	218.9	300.4	298.6	394.5	3423.5	13905.8	16426.3	15867.2
47.5°	88.7	106.8	142.9	213.5	276.8	253.3	316.7	3166.6	14394.3	16934.8	16245.4
50°	70.6	88.7	123.0	222.6	242.5	217.1	266.0	3208.2	14866.6	17193.6	16401.0
52.5°	59.7	77.8	106.8	175.5	186.4	190.0	233.4	3400.0	15476.4	17470.4	16710.4
55°	52.5	68.8	90.5	123.0	144.8	170.1	213.5	3539.3	16292.4	18063.9	17392.6
57.5°	41.6	59.7	81.4	104.9	119.4	148.4	197.2	3550.2	17030.7	18825.7	18299.1
59°	38.0	54.3	76.0	99.5	106.8	133.9	186.4	3457.9	17057.8	18939.7	18715.3
60°	34.4	52.5	72.4	92.3	101.3	126.7	177.3	3351.1	16811.8	18758.7	18887.2
62.5°	29.0	45.2	63.3	74.2	86.9	104.9	153.8	2963.9	15619.3	17939.1	18568.7
65°	25.3	39.8	54.3	61.5	72.4	90.5	135.7	2372.2	14302.0	16828.0	17656.8
67.5°	23.5	36.2	47.0	52.5	63.3	83.2	121.2	1675.6	12595.7	15418.5	16287.0
70°	21.7	34.4	41.6	48.9	56.1	70.6	103.1	977.1	9702.4	12946.7	13864.1
72.5°	21.7	32.6	36.2	41.6	48.9	63.3	95.9	528.4	6633.5	9876.1	11061.3
75°	21.7	30.8	32.6	36.2	43.4	57.9	85.0	276.8	4288.4	6861.5	8468.3
77.5°	21.7	29.0	32.6	34.4	41.6	50.7	74.2	173.7	2857.1	4805.9	5723.3
80°	23.5	29.0	30.8	34.4	39.8	47.0	61.5	115.8	1679.2	2891.5	3483.2
82.5°	25.3	29.0	32.6	36.2	41.6	45.2	54.3	72.4	774.5	1912.6	2164.1
85°	27.1	30.8	34.4	38.0	43.4	45.2	50.7	52.5	126.7	863.1	1167.1
87.5°	29.0	32.6	36.2	39.8	47.0	47.0	47.0	47.0	43.4	92.3	235.2
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: P456004

CATALOG NUMBER: GALN-SA7B-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6	7867.6
2.5°	8877.2	9081.7	9224.7	9260.9	9157.7	9110.7	8980.4	8777.7	8654.7	8649.3
5°	9354.9	9834.5	10167.4	10223.5	10024.4	9687.9	9288.0	8772.3	8470.1	8379.6
7.5°	9273.5	10113.1	10648.7	10726.5	10391.8	9749.4	8975.0	8144.4	7815.1	7675.8
10°	8938.8	9962.9	10728.3	10851.4	10404.4	9499.7	8515.4	7588.9	7180.0	7073.2
12.5°	8652.9	9687.9	10368.2	10538.3	10200.0	9297.0	8240.3	7232.4	6794.5	6695.0
15°	8528.0	9362.2	9778.4	9865.2	9809.1	9170.4	8211.4	7178.2	6676.9	6568.4
17.5°	8652.9	9085.3	9137.8	9226.5	9351.3	9157.7	8490.0	7473.1	6932.1	6798.2
20°	8980.4	8844.7	8627.5	8665.5	8951.4	9210.2	8985.8	8126.3	7467.7	7324.7
22.5°	9537.7	8785.0	8292.8	8260.2	8622.1	9385.7	9713.2	9011.1	8247.6	8106.4
25°	10221.7	8935.1	8169.7	8099.2	8493.6	9642.6	10504.0	10095.0	9260.9	9045.5
27.5°	10967.2	9246.4	8169.7	8101.0	8482.8	9870.6	11180.7	11054.0	10310.3	10075.1
30°	11376.1	9503.3	8287.4	8209.6	8616.7	10002.7	11542.6	11906.3	11099.3	10807.9
32.5°	11741.6	9859.8	8517.2	8370.6	8897.1	10198.2	11866.5	12630.1	11727.2	11531.7
35°	12078.2	10241.6	8833.8	8663.7	9266.3	10466.0	12224.8	13390.1	12601.1	12306.2
37.5°	12449.1	10684.9	9327.8	9183.0	9883.3	10987.1	12650.0	14388.9	13460.6	13089.7
40°	12852.6	11198.8	10140.3	10078.7	10864.0	11577.0	13187.4	15454.7	14441.4	14019.7
42.5°	13263.4	11790.5	11135.5	11236.8	11975.1	12403.9	13739.3	16274.3	15244.8	14779.7
45°	13636.1	12546.8	12429.2	12930.5	13270.6	13210.9	14148.2	16851.6	15945.0	15499.9
47.5°	14106.6	13648.8	13994.4	14767.1	14776.1	14088.5	14457.6	17323.8	16547.6	16102.4
50°	14633.2	14949.8	16015.6	16802.7	16591.0	14951.6	14819.5	17883.0	17170.0	16813.6
52.5°	15242.9	16406.4	17883.0	18756.9	18262.9	15892.5	15422.1	18487.3	18158.0	17816.0
55°	15952.3	17399.8	19744.9	20441.5	19943.9	17061.5	16337.7	19307.0	19274.4	19041.0
57.5°	16753.9	18449.3	20823.3	21766.1	21322.8	18433.0	17617.0	20079.7	19956.6	19826.3
59°	17387.2	18988.5	21299.2	22276.3	22008.5	19393.9	18476.5	20561.0	20114.0	19918.6
60°	17770.8	19354.1	21474.8	22345.1	22283.6	19965.7	19021.1	20796.2	20112.2	19840.8
62.5°	18908.9	19992.8	21407.8	22039.3	22280.0	21062.2	20618.9	21055.0	19739.5	19341.4
65°	19314.3	19781.1	20298.6	20220.8	20427.1	21006.1	21639.4	20770.9	18943.3	18376.9
67.5°	18525.3	17459.5	17642.3	17123.0	17021.7	18675.5	21225.0	19381.2	17385.4	16692.3
70°	15615.7	13375.6	13283.3	13522.1	12867.1	15119.9	19059.1	16705.0	14814.1	14028.8
72.5°	12291.7	9452.7	8674.6	9554.0	9534.1	11535.4	15832.8	11853.8	10008.2	9941.2
75°	9666.2	6581.0	5775.8	5918.8	6193.8	8350.7	12610.2	7527.4	6163.0	5616.6
77.5°	6488.7	4663.0	4350.0	4174.4	4471.2	5361.5	7977.9	4082.2	3456.1	3273.3
80°	3740.2	3387.3	3846.9	3492.3	3651.5	3378.3	3968.2	1872.8	1554.3	1682.8
82.5°	2433.7	1928.9	2055.6	1527.2	2088.1	2106.2	1273.9	553.7	468.7	497.6
85°	1521.8	904.7	508.5	361.9	720.2	1324.5	398.1	34.4	39.8	34.4
87.5°	394.5	150.2	63.3	94.1	115.8	103.1	92.3	5.4	1.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)