

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: P529797

Luminaire Tested: **GALN-SA5A-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529797  
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-SA5A-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 10588 lumens  
Efficiency: N/A  
Efficacy: 68.8 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): 154  
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



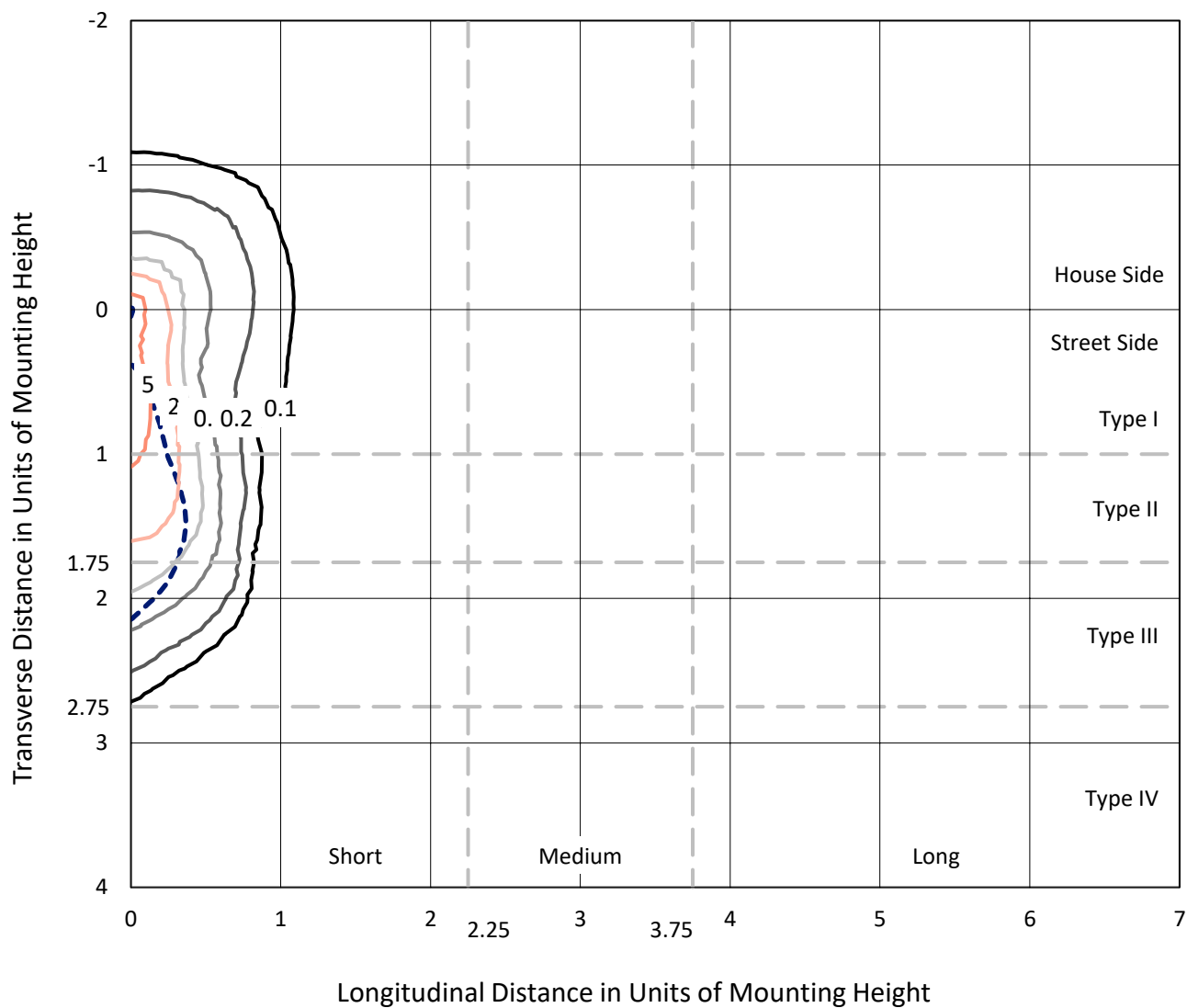
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

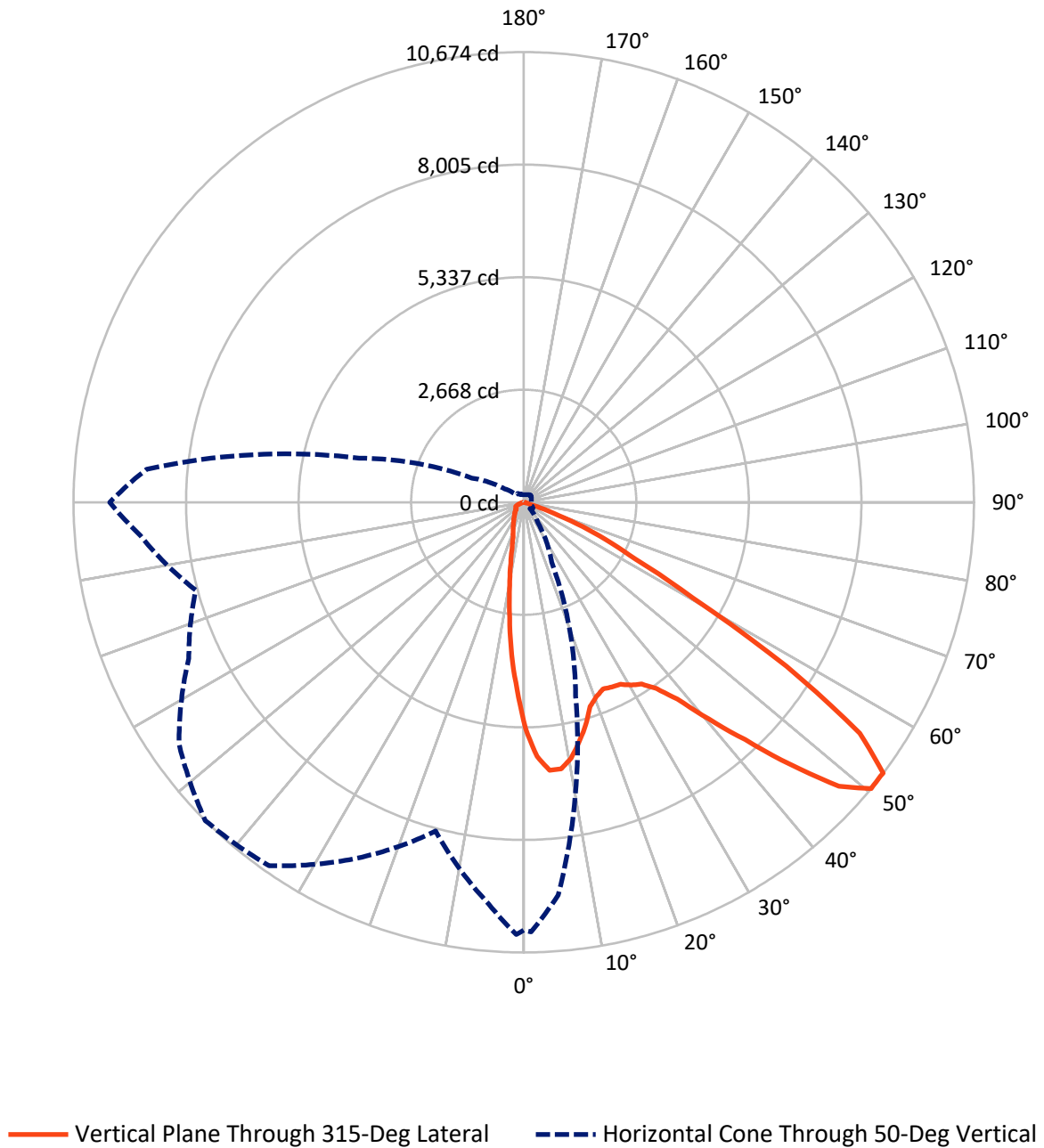


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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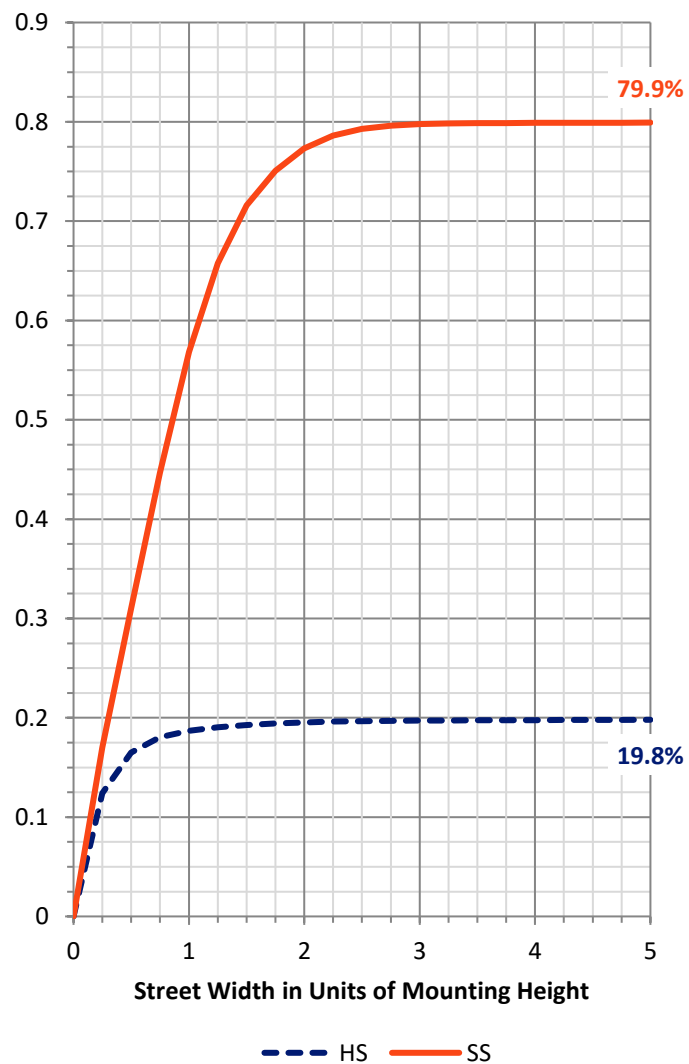
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2120.8	0.0	2120.8
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	8467.2	0.0	8467.2
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	10588.0	0.0	10588.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.4	3.7
10°-20°	777.8	7.3
20°-30°	1168.6	11.0
30°-40°	1754.0	16.6
40°-50°	2465.1	23.3
50°-60°	2659.0	25.1
60°-70°	1234.6	11.7
70°-80°	116.1	1.1
80°-90°	21.4	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°	10588.0	100.0
0°-180°	10588.0	100.0

**Coefficient of Utilization**



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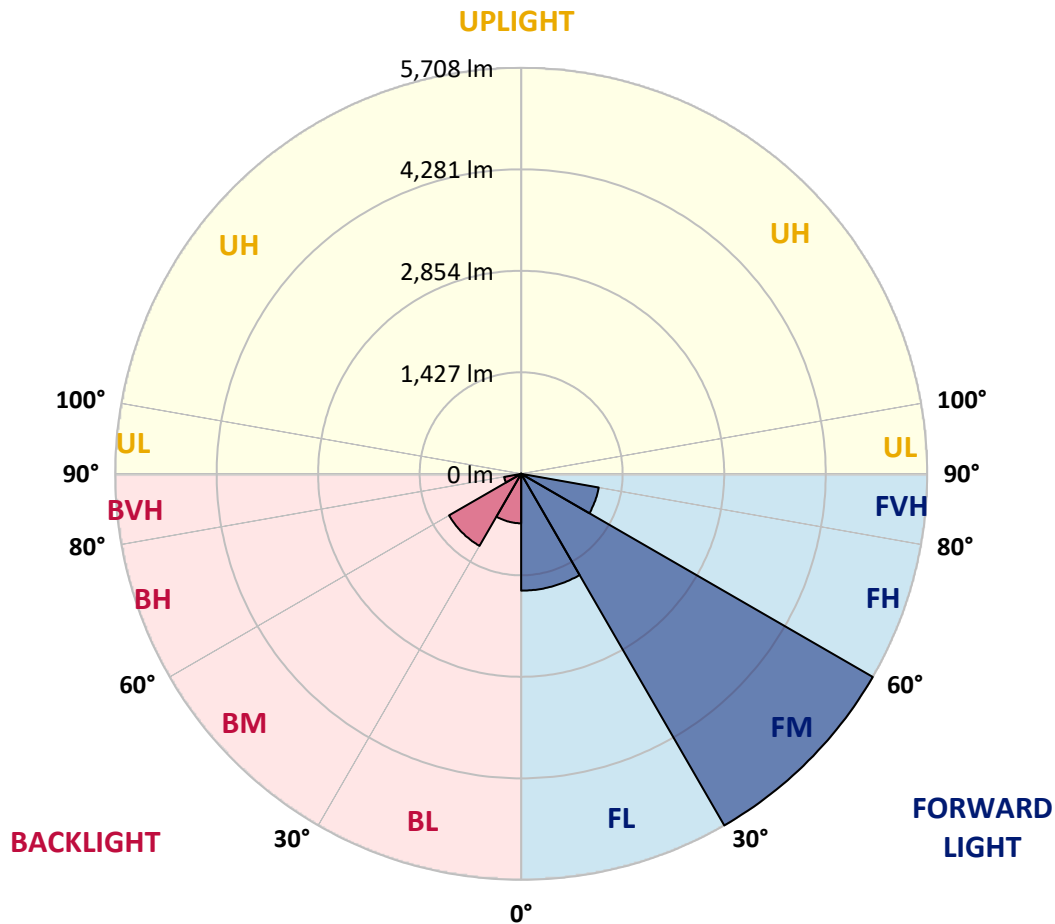
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1642.6	15.5			
FM	(30°-60°)	5707.7	53.9			
FH	(60°-80°)	1107.2	10.5			G1/1800
FVH	(80°-90°)	9.6	0.1			G0/10
BL	(0°-30°)	695.1	6.6	B2/1000		
BM	(30°-60°)	1170.4	11.1	B2/2500		
BH	(60°-80°)	243.5	2.3	B1/500		G1/500
BVH	(80°-90°)	11.8	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°	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5
2.5°	5581.6	5495.5	5386.3	5295.9	5161.5	4890.5	4817.0	4728.7	4655.2	4556.5	4417.8
5°	5075.3	5048.0	4997.6	4657.3	4411.5	4083.8	3814.9	3701.5	3552.3	3430.5	3342.3
7.5°	4688.8	4579.6	4419.9	4077.5	3684.7	3333.8	3035.5	2861.2	2663.7	2596.5	2476.8
10°	4275.0	4300.2	4064.9	3583.8	3109.1	2825.5	2640.6	2472.6	2294.0	2176.4	2006.2
12.5°	4142.6	4060.7	3880.0	3285.5	2880.1	2615.4	2390.6	2182.7	1993.6	1804.5	1640.7
15°	4228.8	4102.7	3850.6	3222.5	2703.6	2373.8	2092.3	1810.8	1636.5	1394.9	1224.7
17.5°	4537.6	4436.7	4098.5	3289.7	2613.3	2142.7	1724.7	1434.8	1168.0	949.5	863.4
20°	5052.2	4909.4	4485.0	3375.9	2478.9	1863.3	1399.1	1042.0	789.9	697.4	649.1
22.5°	5556.4	5478.7	4943.0	3541.8	2359.1	1615.5	1050.4	701.6	590.3	573.5	542.0
25°	6516.4	6283.3	5642.5	3842.2	2266.7	1382.3	792.0	565.1	500.0	487.4	491.6
27.5°	7087.8	6892.5	6289.6	4041.8	2163.7	1203.7	670.1	518.9	474.8	447.5	437.0
30°	7636.1	7409.3	6611.0	4159.4	1943.2	1014.6	594.5	497.9	487.4	447.5	434.8
32.5°	8058.4	7835.7	7075.2	4335.9	1852.8	892.8	489.5	388.6	361.3	357.1	394.9
35°	8705.4	8468.0	7472.3	4432.5	1783.5	829.8	424.3	346.6	315.1	302.5	304.6
37.5°	9308.3	9146.6	7839.9	4470.3	1710.0	810.9	380.2	310.9	283.6	275.2	273.1
40°	9812.5	9451.2	8188.6	4510.3	1678.5	775.2	352.9	283.6	264.7	252.1	252.1
42.5°	10043.6	9675.9	8579.4	4487.1	1670.1	718.4	352.9	260.5	245.8	233.2	231.1
45°	9993.1	9844.0	8753.7	4476.6	1670.1	661.7	321.4	254.2	233.2	216.4	212.2
47.5°	10123.4	9928.0	8972.2	4520.8	1636.5	621.8	271.0	266.8	220.6	199.6	195.4
50°	10146.5	10184.3	9352.4	4749.7	1562.9	571.4	212.2	262.6	212.2	180.7	176.5
52°	10297.7	10062.5	9468.0	4871.6	1485.2	533.6	178.6	224.8	203.8	168.1	163.9
52.5°	10089.8	10243.1	9495.3	4915.7	1493.6	508.4	172.3	220.6	199.6	168.1	157.6
55°	9856.6	10003.6	9383.9	5010.2	1369.7	399.1	134.4	159.7	180.7	147.1	140.7
57.5°	8566.8	8715.9	8155.0	4588.0	1115.5	281.5	111.3	119.7	159.7	136.5	130.2
60°	7615.1	7508.0	6844.2	3827.5	792.0	157.6	88.2	92.4	174.4	126.0	123.9
62.5°	6959.7	6730.7	5720.3	2955.7	483.2	105.0	69.3	71.4	134.4	117.6	117.6
65°	5148.9	4892.6	3800.2	1787.7	237.4	73.5	52.5	56.7	84.0	100.8	100.8
67.5°	2938.9	2840.2	1836.0	806.7	98.7	46.2	39.9	44.1	65.1	81.9	77.7
70°	1350.8	1212.1	705.8	170.2	46.2	31.5	31.5	35.7	52.5	60.9	56.7
72.5°	394.9	373.9	172.3	27.3	18.9	18.9	21.0	27.3	39.9	46.2	42.0
75°	29.4	18.9	12.6	8.4	8.4	12.6	16.8	27.3	39.9	44.1	35.7
77.5°	2.1	4.2	2.1	2.1	6.3	12.6	18.9	33.6	52.5	54.6	39.9
80°	2.1	2.1	0.0	2.1	6.3	12.6	21.0	37.8	58.8	63.0	33.6
82.5°	0.0	0.0	0.0	2.1	8.4	16.8	25.2	39.9	54.6	67.2	35.7
85°	0.0	0.0	0.0	2.1	12.6	23.1	29.4	10.5	6.3	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°	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5
2.5°	4516.6	4461.9	4440.9	4459.8	4453.5	4447.2	4562.8	4537.6	4533.4	4571.2	4562.8
5°	3390.6	3293.9	3558.6	3451.5	3562.8	3630.1	3642.7	3649.0	3726.7	3644.8	3751.9
7.5°	2415.8	2441.0	2438.9	2510.4	2638.5	2751.9	2819.2	2766.7	2762.5	2751.9	2705.7
10°	1930.6	1886.5	1878.0	1861.2	1901.2	1997.8	2079.7	2014.6	1968.4	2031.4	2012.5
12.5°	1577.6	1516.7	1483.1	1415.9	1418.0	1483.1	1483.1	1483.1	1529.3	1565.0	1592.3
15°	1210.0	1159.6	1159.6	1092.4	1077.7	1079.8	1113.4	1117.6	1191.1	1212.1	1222.6
17.5°	846.6	819.3	850.8	878.1	861.3	865.5	878.1	882.3	892.8	884.4	905.4
20°	651.2	647.0	655.4	703.7	739.5	760.5	745.8	724.7	712.1	682.7	682.7
22.5°	552.5	560.9	575.6	615.5	661.7	674.3	657.5	609.2	571.4	567.2	569.3
25°	491.6	500.0	523.1	548.3	573.5	594.5	577.7	542.0	521.0	502.1	502.1
27.5°	453.8	458.0	470.6	489.5	510.5	527.3	521.0	502.1	479.0	470.6	451.7
30°	424.3	430.6	445.4	449.6	468.5	476.9	466.4	462.2	447.5	437.0	430.6
32.5°	409.6	407.5	418.0	422.2	424.3	430.6	418.0	424.3	422.2	405.4	399.1
35°	308.8	325.6	352.9	376.0	382.3	390.7	388.6	380.2	357.1	338.2	315.1
37.5°	277.3	287.8	302.5	321.4	346.6	357.1	352.9	331.9	304.6	292.0	287.8
40°	256.3	262.6	275.2	287.8	313.0	331.9	317.2	298.3	277.3	266.8	260.5
42.5°	237.4	239.5	245.8	258.4	277.3	306.7	281.5	256.3	247.9	241.6	237.4
45°	216.4	216.4	224.8	231.1	252.1	279.4	254.2	231.1	226.9	222.7	220.6
47.5°	199.6	201.7	205.9	214.3	231.1	250.0	233.2	214.3	203.8	201.7	197.5
50°	178.6	180.7	189.1	197.5	218.5	229.0	218.5	197.5	187.0	180.7	180.7
52°	161.8	168.1	176.5	193.3	208.0	224.8	212.2	189.1	176.5	170.2	166.0
52.5°	159.7	163.9	172.3	191.2	208.0	222.7	210.1	187.0	172.3	168.1	163.9
55°	142.8	149.2	163.9	187.0	205.9	222.7	205.9	184.9	163.9	153.4	149.2
57.5°	136.5	140.7	159.7	189.1	203.8	222.7	205.9	184.9	163.9	144.9	140.7
60°	130.2	138.6	159.7	182.8	201.7	224.8	208.0	182.8	159.7	136.5	136.5
62.5°	123.9	130.2	157.6	178.6	193.3	216.4	199.6	178.6	153.4	130.2	128.1
65°	107.1	117.6	138.6	149.2	166.0	187.0	170.2	155.5	134.4	115.5	113.4
67.5°	81.9	86.1	102.9	115.5	126.0	144.9	136.5	117.6	102.9	88.2	88.2
70°	56.7	60.9	73.5	79.8	90.3	100.8	94.5	79.8	69.3	60.9	58.8
72.5°	39.9	42.0	46.2	50.4	54.6	58.8	56.7	46.2	39.9	37.8	35.7
75°	31.5	35.7	37.8	35.7	33.6	31.5	31.5	27.3	23.1	21.0	21.0
77.5°	31.5	33.6	31.5	27.3	23.1	21.0	18.9	16.8	12.6	10.5	12.6
80°	27.3	27.3	27.3	23.1	21.0	18.9	16.8	14.7	12.6	10.5	10.5
82.5°	29.4	29.4	27.3	23.1	23.1	18.9	18.9	16.8	14.7	10.5	10.5
85°	0.0	0.0	0.0	4.2	10.5	18.9	18.9	16.8	14.7	12.6	12.6
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	8.4	10.5	12.6	12.6	12.6
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°	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5
2.5°	4638.4	4718.2	4869.5	5020.7	5113.2	5222.4	5419.9	5524.9	5661.5	5728.7	5861.0
5°	3737.2	3926.3	3993.5	4165.7	4350.6	4535.5	4829.6	5153.1	5422.0	5606.8	5846.3
7.5°	2726.7	2770.9	3031.3	3146.9	3449.4	3785.5	4186.7	4594.3	4934.6	5237.1	5419.9
10°	2044.0	2205.8	2369.6	2590.2	2833.9	3180.5	3564.9	4014.5	4455.6	4758.1	4989.2
12.5°	1642.8	1770.9	1989.4	2226.8	2527.2	2756.1	3142.7	3588.0	4159.4	4455.6	4760.2
15°	1243.6	1407.5	1655.4	1901.2	2218.4	2459.9	2850.7	3411.6	4146.8	4554.4	4817.0
17.5°	922.2	1033.6	1256.2	1531.4	1854.9	2195.3	2722.5	3392.7	4287.6	4772.8	5043.8
20°	705.8	743.7	884.4	1130.2	1481.0	1926.4	2514.6	3474.6	4703.5	5304.3	5579.5
22.5°	571.4	588.2	642.8	813.0	1153.3	1691.1	2415.8	3531.3	5172.0	5940.8	6308.5
25°	497.9	493.7	529.4	602.9	901.2	1470.5	2289.8	3745.6	5745.5	6688.7	7018.5
27.5°	453.8	453.8	470.6	523.1	747.9	1327.7	2210.0	3898.9	6323.2	7346.2	7524.8
30°	430.6	434.8	483.2	500.0	621.8	1157.5	2077.6	4054.4	6875.7	7766.4	8012.2
32.5°	399.1	382.3	371.8	413.8	523.1	1004.1	1945.3	4119.5	7323.1	8281.1	8491.1
35°	306.7	298.3	310.9	342.4	449.6	873.9	1798.2	4193.0	7837.8	8877.7	8919.7
37.5°	277.3	275.2	283.6	310.9	378.1	760.5	1693.2	4174.1	8230.6	9371.3	9257.9
40°	256.3	256.3	262.6	285.7	338.2	680.6	1583.9	4157.3	8610.9	9925.9	9594.0
42.5°	239.5	239.5	250.0	264.7	321.4	628.1	1502.0	4134.2	8930.2	10266.2	9791.5
45°	216.4	222.7	239.5	254.2	325.6	592.4	1441.1	4046.0	9039.4	10262.0	9696.9
47.5°	199.6	208.0	224.8	245.8	294.1	581.9	1399.1	3968.3	9001.6	10010.0	9400.7
50°	180.7	191.2	214.3	250.0	250.0	560.9	1355.0	4037.6	8974.3	9814.6	9117.1
52°	168.1	176.5	205.9	243.7	218.5	516.8	1327.7	4172.0	9085.6	9789.4	8991.1
52.5°	166.0	172.3	199.6	239.5	208.0	508.4	1308.8	4203.5	9121.3	9726.4	9077.2
55°	147.1	155.5	182.8	187.0	170.2	418.0	1247.8	4275.0	8944.9	9602.4	8995.3
57.5°	138.6	142.8	161.8	153.4	147.1	315.1	1073.5	4163.6	7944.9	8528.9	8369.3
60°	128.1	132.3	151.3	119.7	123.9	220.6	806.7	3615.3	6379.9	7106.7	7394.5
62.5°	123.9	121.8	142.8	96.6	105.0	159.7	569.3	2938.9	4915.7	5850.5	6348.4
65°	109.2	107.1	102.9	81.9	90.3	123.9	340.3	1918.0	3464.1	4426.2	4699.3
67.5°	84.0	88.2	75.6	65.1	75.6	96.6	189.1	859.2	1817.1	2655.3	2875.9
70°	58.8	63.0	60.9	56.7	67.2	79.8	109.2	294.1	752.1	1394.9	1537.7
72.5°	35.7	44.1	46.2	48.3	58.8	69.3	77.7	94.5	199.6	493.7	613.4
75°	21.0	29.4	35.7	42.0	48.3	58.8	65.1	67.2	69.3	92.4	149.2
77.5°	14.7	21.0	31.5	39.9	48.3	58.8	69.3	73.5	69.3	65.1	69.3
80°	12.6	21.0	29.4	37.8	50.4	60.9	69.3	69.3	67.2	58.8	63.0
82.5°	12.6	21.0	31.5	39.9	48.3	58.8	67.2	69.3	63.0	58.8	60.9
85°	14.7	23.1	33.6	42.0	52.5	48.3	44.1	35.7	33.6	27.3	29.4
87.5°	14.7	21.0	21.0	23.1	25.2	25.2	25.2	23.1	18.9	16.8	16.8
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: P529797

CATALOG NUMBER: GALN-SA5A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5	5369.5
2.5°	5867.3	6035.4	6029.1	6033.3	6008.1	5837.9	5756.0	5548.0	5606.8	5581.6
5°	6092.1	6258.1	6400.9	6384.1	6190.8	5959.8	5617.3	5293.8	5205.6	5075.3
7.5°	5867.3	6266.5	6398.8	6379.9	6094.2	5798.0	5251.8	4928.3	4774.9	4688.8
10°	5510.2	5972.4	6136.2	6169.8	5976.6	5527.0	5024.9	4506.1	4424.1	4275.0
12.5°	5306.4	5642.5	5743.4	5833.7	5766.5	5430.4	4852.7	4354.8	4241.4	4142.6
15°	5140.5	5340.0	5382.1	5485.0	5524.9	5344.2	4943.0	4518.7	4239.3	4228.8
17.5°	5293.8	5211.9	5058.5	5090.1	5216.1	5346.3	5176.2	4842.2	4571.2	4537.6
20°	5548.0	5186.7	4840.1	4917.8	5022.8	5422.0	5529.1	5293.8	5138.4	5052.2
22.5°	5840.0	5230.8	4770.7	4808.6	5008.1	5592.1	6100.5	5970.3	5680.4	5556.4
25°	6379.9	5352.6	4825.4	4850.6	5123.7	5829.5	6617.3	6713.9	6541.7	6516.4
27.5°	6907.2	5667.8	4945.1	4888.4	5182.5	6060.6	6930.3	7449.2	7146.7	7087.8
30°	7176.1	5924.0	5123.7	5027.0	5426.2	6201.3	7119.4	7928.1	7663.4	7636.1
32.5°	7587.8	6157.2	5262.3	5138.4	5562.7	6375.7	7472.3	8451.2	8194.9	8058.4
35°	7760.1	6411.4	5566.9	5422.0	5953.5	6619.4	7652.9	8917.6	8837.7	8705.4
37.5°	8092.0	6684.5	5926.1	5917.7	6426.1	6936.6	7978.5	9552.0	9537.3	9308.3
40°	8119.3	6982.8	6493.3	6758.0	7157.2	7489.1	8264.2	9728.5	9967.9	9812.5
42.5°	8161.3	7505.9	7474.4	7692.9	8035.3	7963.8	8274.8	9770.5	10136.0	10043.6
45°	8180.2	8029.0	8472.2	8875.6	9018.4	8585.7	8176.0	9690.6	10224.2	9993.1
47.5°	8029.0	8478.5	9278.9	10058.3	10100.3	8968.0	8134.0	9608.7	10276.7	10123.4
50°	8050.0	8760.0	9976.3	10673.8	10520.4	9306.2	8068.9	9558.3	10249.4	10146.5
52°	7999.6	8766.3	10075.1	10661.2	10554.0	9119.2	7957.5	9365.0	10224.2	10297.7
52.5°	8056.3	8728.5	9972.1	10669.6	10530.9	9211.7	7942.8	9472.2	10238.9	10089.8
55°	7860.9	8279.0	9369.2	9665.4	9644.4	8360.9	7491.2	9117.1	9854.5	9856.6
57.5°	7104.6	7176.1	7348.3	7342.0	7245.4	6573.2	6407.2	8384.0	8785.2	8566.8
60°	6260.2	5253.9	4789.7	4600.6	4493.4	4384.2	5667.8	7669.7	7707.6	7615.1
62.5°	5409.4	3642.7	3025.0	2972.5	2997.7	3396.9	5478.7	7386.1	7159.3	6959.7
65°	4365.3	2655.3	2197.4	2128.0	2373.8	2804.5	4434.6	5663.6	5314.8	5148.9
67.5°	2741.4	1936.9	1485.2	1355.0	1651.2	1930.6	2913.7	3558.6	3167.9	2938.9
70°	1626.0	1081.9	672.2	602.9	678.5	1029.4	1632.3	1775.1	1468.4	1350.8
72.5°	640.7	397.0	187.0	159.7	166.0	361.3	600.8	586.1	443.3	394.9
75°	172.3	119.7	65.1	52.5	44.1	67.2	96.6	63.0	23.1	29.4
77.5°	79.8	71.4	56.7	44.1	33.6	25.2	12.6	4.2	4.2	2.1
80°	69.3	60.9	52.5	44.1	33.6	21.0	10.5	2.1	2.1	2.1
82.5°	65.1	56.7	48.3	39.9	31.5	21.0	10.5	2.1	0.0	0.0
85°	27.3	35.7	39.9	37.8	33.6	21.0	10.5	2.1	0.0	0.0
87.5°	14.7	12.6	10.5	8.4	6.3	4.2	4.2	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)