

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: P529953

Luminaire Tested: **GALN-SA5A-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529953  
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-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 9307 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

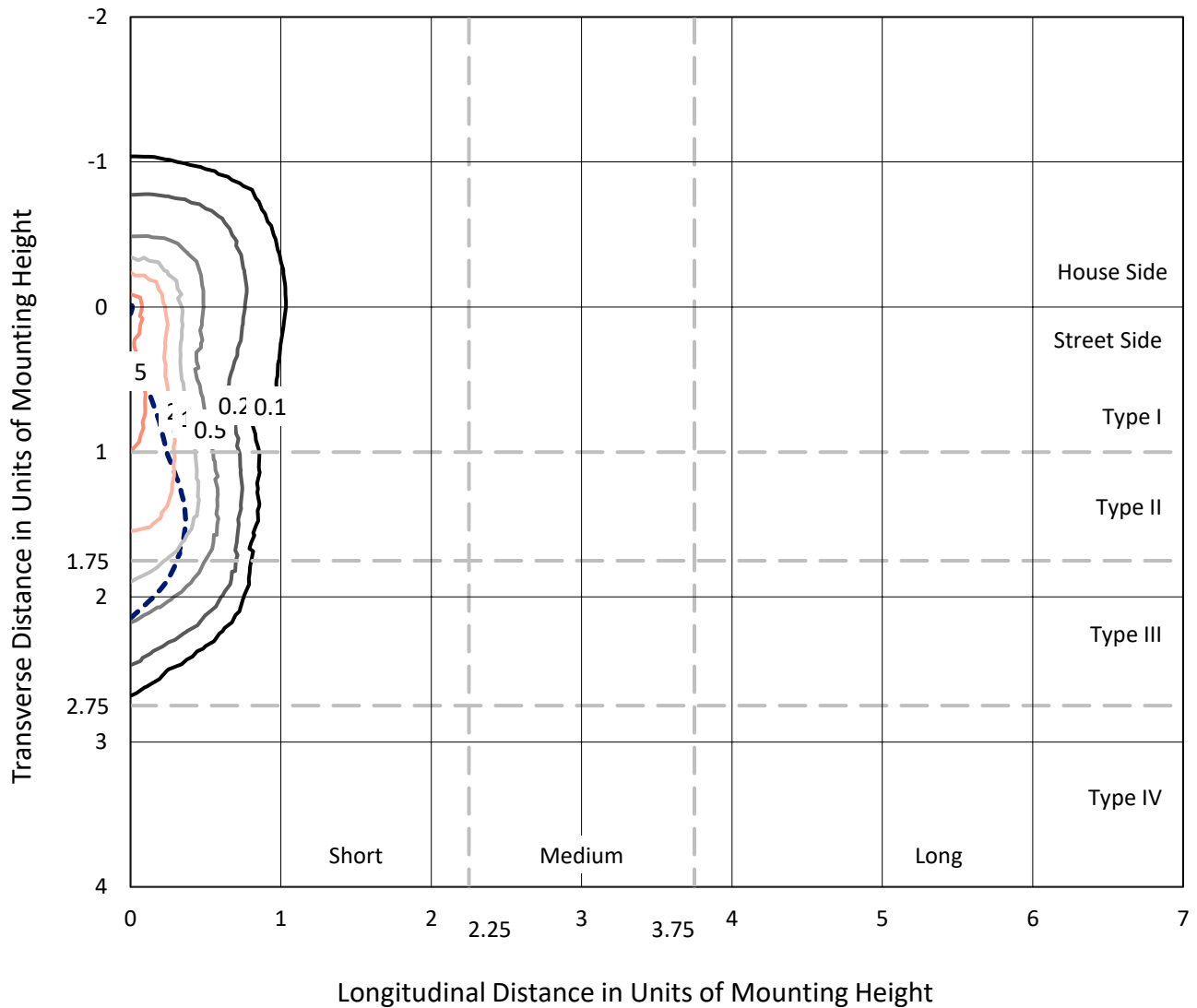
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

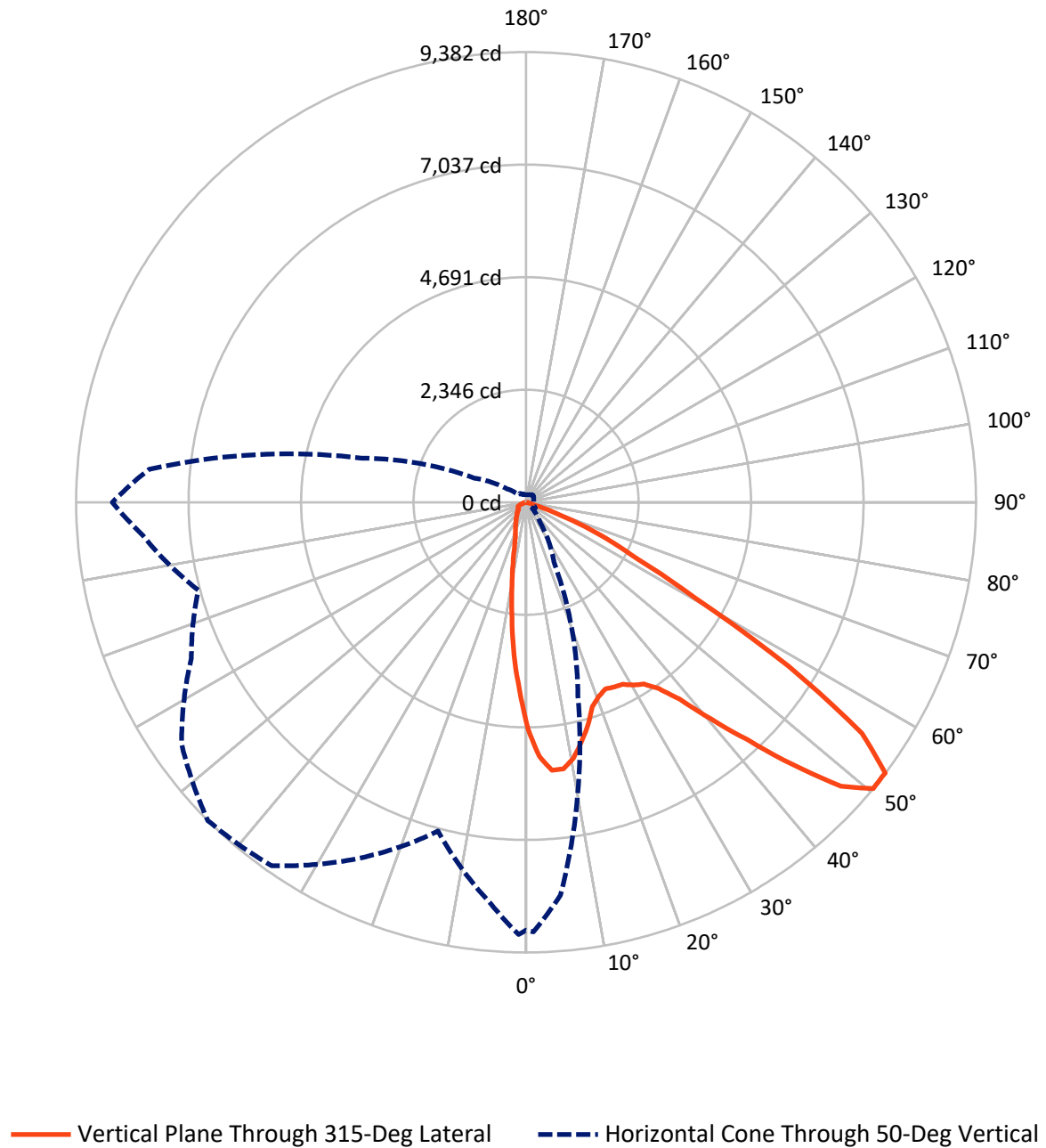
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	1864.2	0.0	1864.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	7442.8	0.0	7442.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	9307.0	0.0	9307.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.0	3.7
10°-20°	683.7	7.3
20°-30°	1027.2	11.0
30°-40°	1541.8	16.6
40°-50°	2166.8	23.3
50°-60°	2337.3	25.1
60°-70°	1085.2	11.7
70°-80°	102.1	1.1
80°-90°	18.8	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°	9307.0	100.0
0°-180°	9307.0	100.0

**Coefficient of Utilization**



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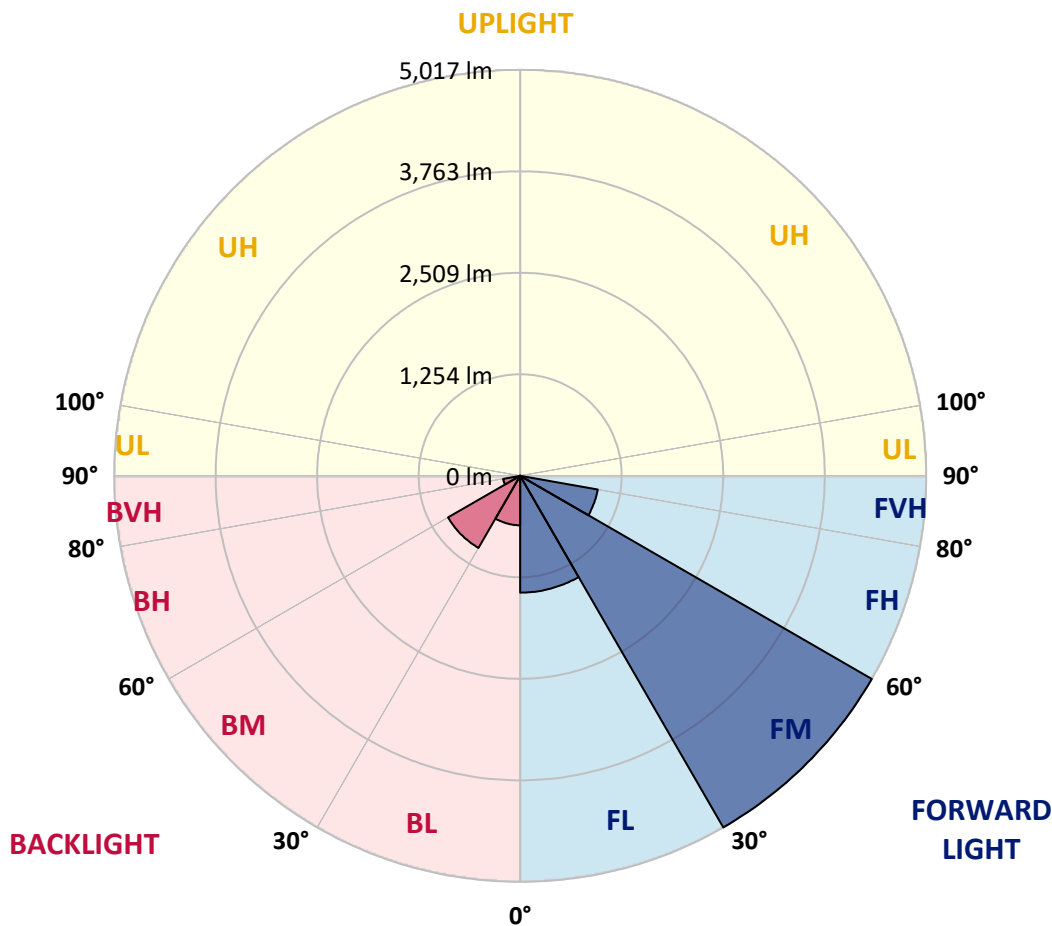
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.9	15.5			
FM (30°-60°)	5017.2	53.9			
FH (60°-80°)	973.3	10.5			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	611.0	6.6	B2/1000		
BM (30°-60°)	1028.8	11.1	B2/2500		
BH (60°-80°)	214.1	2.3	B1/500		G1/500
BVH (80°-90°)	10.3	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8
2.5°	4906.3	4830.6	4734.6	4655.2	4537.0	4298.8	4234.2	4156.6	4092.0	4005.2	3883.3
5°	4461.3	4437.3	4393.0	4093.8	3877.8	3589.7	3353.4	3253.6	3122.5	3015.4	2937.9
7.5°	4121.5	4025.5	3885.2	3584.2	3238.9	2930.5	2668.3	2515.0	2341.4	2282.4	2177.1
10°	3757.8	3779.9	3573.1	3150.2	2732.9	2483.6	2321.1	2173.4	2016.4	1913.0	1763.5
12.5°	3641.4	3569.4	3410.6	2888.0	2531.6	2299.0	2101.4	1918.6	1752.4	1586.2	1442.2
15°	3717.1	3606.3	3384.8	2832.6	2376.5	2086.6	1839.2	1591.7	1438.5	1226.1	1076.5
17.5°	3988.6	3899.9	3602.6	2891.7	2297.1	1883.5	1516.0	1261.2	1026.7	834.6	758.9
20°	4441.0	4315.4	3942.4	2967.4	2178.9	1637.9	1229.8	915.9	694.3	613.1	570.6
22.5°	4884.2	4815.8	4345.0	3113.3	2073.7	1420.0	923.3	616.8	518.9	504.1	476.4
25°	5728.0	5523.1	4959.9	3377.4	1992.4	1215.0	696.2	496.7	439.5	428.4	432.1
27.5°	6230.3	6058.6	5528.6	3552.8	1902.0	1058.1	589.1	456.1	417.3	393.3	384.1
30°	6712.3	6512.8	5811.1	3656.2	1708.1	891.9	522.6	437.6	428.4	393.3	382.2
32.5°	7083.4	6887.7	6219.2	3811.3	1628.7	784.8	430.2	341.6	317.6	313.9	347.2
35°	7652.2	7443.5	6568.2	3896.3	1567.7	729.4	373.0	304.7	277.0	265.9	267.8
37.5°	8182.1	8039.9	6891.4	3929.5	1503.1	712.8	334.2	273.3	249.3	241.9	240.1
40°	8625.3	8307.7	7197.9	3964.6	1475.4	681.4	310.2	249.3	232.7	221.6	221.6
42.5°	8828.4	8505.3	7541.4	3944.3	1468.0	631.5	310.2	229.0	216.0	205.0	203.1
45°	8784.1	8653.0	7694.6	3935.0	1468.0	581.7	282.5	223.4	205.0	190.2	186.5
47.5°	8898.6	8726.9	7886.7	3973.8	1438.5	546.6	238.2	234.5	193.9	175.4	171.7
50°	8918.9	8952.2	8220.9	4175.1	1373.8	502.3	186.5	230.8	186.5	158.8	155.1
52°	9051.9	8845.1	8322.5	4282.2	1305.5	469.0	157.0	197.6	179.1	147.7	144.0
52.5°	8869.1	9003.9	8346.5	4321.0	1312.9	446.9	151.4	193.9	175.4	147.7	138.5
55°	8664.1	8793.3	8248.6	4404.1	1204.0	350.8	118.2	140.3	158.8	129.3	123.7
57.5°	7530.3	7661.4	7168.4	4032.9	980.5	247.4	97.9	105.3	140.3	120.0	114.5
60°	6693.8	6599.6	6016.1	3364.4	696.2	138.5	77.6	81.2	153.3	110.8	108.9
62.5°	6117.7	5916.4	5028.2	2598.1	424.7	92.3	60.9	62.8	118.2	103.4	103.4
65°	4525.9	4300.7	3340.4	1571.4	208.7	64.6	46.2	49.9	73.9	88.6	88.6
67.5°	2583.3	2496.6	1613.9	709.1	86.8	40.6	35.1	38.8	57.2	72.0	68.3
70°	1187.3	1065.5	620.4	149.6	40.6	27.7	27.7	31.4	46.2	53.6	49.9
72.5°	347.2	328.7	151.4	24.0	16.6	16.6	18.5	24.0	35.1	40.6	36.9
75°	25.9	16.6	11.1	7.4	7.4	11.1	14.8	24.0	35.1	38.8	31.4
77.5°	1.8	3.7	1.8	1.8	5.5	11.1	16.6	29.5	46.2	48.0	35.1
80°	1.8	1.8	0.0	1.8	5.5	11.1	18.5	33.2	51.7	55.4	29.5
82.5°	0.0	0.0	0.0	1.8	7.4	14.8	22.2	35.1	48.0	59.1	31.4
85°	0.0	0.0	0.0	1.8	11.1	20.3	25.9	9.2	5.5	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°	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8
2.5°	3970.1	3922.1	3903.6	3920.3	3914.7	3909.2	4010.7	3988.6	3984.9	4018.1	4010.7
5°	2980.4	2895.4	3128.1	3033.9	3131.8	3190.9	3201.9	3207.5	3275.8	3203.8	3298.0
7.5°	2123.6	2145.7	2143.9	2206.6	2319.3	2419.0	2478.1	2431.9	2428.2	2419.0	2378.4
10°	1697.0	1658.2	1650.8	1636.1	1671.1	1756.1	1828.1	1770.9	1730.2	1785.6	1769.0
12.5°	1386.8	1333.2	1303.7	1244.6	1246.4	1303.7	1303.7	1303.7	1344.3	1375.7	1399.7
15°	1063.6	1019.3	1019.3	960.2	947.3	949.1	978.7	982.4	1047.0	1065.5	1074.7
17.5°	744.2	720.2	747.9	771.9	757.1	760.8	771.9	775.6	784.8	777.4	795.9
20°	572.4	568.7	576.1	618.6	650.0	668.5	655.5	637.1	626.0	600.1	600.1
22.5°	485.6	493.0	506.0	541.0	581.7	592.7	578.0	535.5	502.3	498.6	500.4
25°	432.1	439.5	459.8	482.0	504.1	522.6	507.8	476.4	457.9	441.3	441.3
27.5°	398.9	402.6	413.6	430.2	448.7	463.5	457.9	441.3	421.0	413.6	397.0
30°	373.0	378.5	391.5	395.2	411.8	419.2	409.9	406.2	393.3	384.1	378.5
32.5°	360.1	358.2	367.5	371.2	373.0	378.5	367.5	373.0	371.2	356.4	350.8
35°	271.4	286.2	310.2	330.5	336.1	343.5	341.6	334.2	313.9	297.3	277.0
37.5°	243.7	253.0	265.9	282.5	304.7	313.9	310.2	291.8	267.8	256.7	253.0
40°	225.3	230.8	241.9	253.0	275.1	291.8	278.8	262.2	243.7	234.5	229.0
42.5°	208.7	210.5	216.0	227.1	243.7	269.6	247.4	225.3	217.9	212.4	208.7
45°	190.2	190.2	197.6	203.1	221.6	245.6	223.4	203.1	199.4	195.7	193.9
47.5°	175.4	177.3	181.0	188.3	203.1	219.7	205.0	188.3	179.1	177.3	173.6
50°	157.0	158.8	166.2	173.6	192.0	201.3	192.0	173.6	164.3	158.8	158.8
52°	142.2	147.7	155.1	169.9	182.8	197.6	186.5	166.2	155.1	149.6	145.9
52.5°	140.3	144.0	151.4	168.0	182.8	195.7	184.7	164.3	151.4	147.7	144.0
55°	125.6	131.1	144.0	164.3	181.0	195.7	181.0	162.5	144.0	134.8	131.1
57.5°	120.0	123.7	140.3	166.2	179.1	195.7	181.0	162.5	144.0	127.4	123.7
60°	114.5	121.9	140.3	160.7	177.3	197.6	182.8	160.7	140.3	120.0	120.0
62.5°	108.9	114.5	138.5	157.0	169.9	190.2	175.4	157.0	134.8	114.5	112.6
65°	94.2	103.4	121.9	131.1	145.9	164.3	149.6	136.6	118.2	101.6	99.7
67.5°	72.0	75.7	90.5	101.6	110.8	127.4	120.0	103.4	90.5	77.6	77.6
70°	49.9	53.6	64.6	70.2	79.4	88.6	83.1	70.2	60.9	53.6	51.7
72.5°	35.1	36.9	40.6	44.3	48.0	51.7	49.9	40.6	35.1	33.2	31.4
75°	27.7	31.4	33.2	31.4	29.5	27.7	27.7	24.0	20.3	18.5	18.5
77.5°	27.7	29.5	27.7	24.0	20.3	18.5	16.6	14.8	11.1	9.2	11.1
80°	24.0	24.0	24.0	20.3	18.5	16.6	14.8	12.9	11.1	9.2	9.2
82.5°	25.9	25.9	24.0	20.3	20.3	16.6	16.6	14.8	12.9	9.2	9.2
85°	0.0	0.0	0.0	3.7	9.2	16.6	16.6	14.8	12.9	11.1	11.1
87.5°	0.0	0.0	0.0	0.0	1.8	3.7	7.4	9.2	11.1	11.1	11.1
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°	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8
2.5°	4077.2	4147.4	4280.3	4413.3	4494.5	4590.6	4764.1	4856.5	4976.5	5035.6	5151.9
5°	3285.0	3451.2	3510.3	3661.7	3824.2	3986.7	4245.3	4529.6	4766.0	4928.5	5139.0
7.5°	2396.8	2435.6	2664.6	2766.2	3032.1	3327.5	3680.2	4038.4	4337.6	4603.5	4764.1
10°	1796.7	1938.9	2082.9	2276.8	2491.0	2795.7	3133.6	3528.8	3916.6	4182.5	4385.6
12.5°	1444.0	1556.7	1748.7	1957.4	2221.4	2422.7	2762.5	3153.9	3656.2	3916.6	4184.3
15°	1093.2	1237.2	1455.1	1671.1	1950.0	2162.3	2505.8	2998.8	3645.1	4003.4	4234.2
17.5°	810.6	908.5	1104.2	1346.1	1630.5	1929.7	2393.1	2982.2	3768.8	4195.4	4433.6
20°	620.4	653.7	777.4	993.5	1301.8	1693.3	2210.3	3054.2	4134.5	4662.6	4904.5
22.5°	502.3	517.0	565.0	714.6	1013.8	1486.5	2123.6	3104.1	4546.2	5222.1	5545.2
25°	437.6	433.9	465.3	530.0	792.2	1292.6	2012.8	3292.4	5050.4	5879.5	6169.4
27.5°	398.9	398.9	413.6	459.8	657.4	1167.0	1942.6	3427.2	5558.2	6457.4	6614.4
30°	378.5	382.2	424.7	439.5	546.6	1017.5	1826.3	3563.9	6043.8	6826.8	7042.8
32.5°	350.8	336.1	326.8	363.8	459.8	882.7	1709.9	3621.1	6437.1	7279.2	7463.8
35°	269.6	262.2	273.3	301.0	395.2	768.2	1580.7	3685.7	6889.5	7803.6	7840.5
37.5°	243.7	241.9	249.3	273.3	332.4	668.5	1488.3	3669.1	7234.8	8237.5	8137.8
40°	225.3	225.3	230.8	251.1	297.3	598.3	1392.3	3654.4	7569.1	8725.0	8433.3
42.5°	210.5	210.5	219.7	232.7	282.5	552.1	1320.3	3634.0	7849.8	9024.2	8606.8
45°	190.2	195.7	210.5	223.4	286.2	520.7	1266.7	3556.5	7945.8	9020.5	8523.7
47.5°	175.4	182.8	197.6	216.0	258.5	511.5	1229.8	3488.2	7912.5	8798.9	8263.4
50°	158.8	168.0	188.3	219.7	219.7	493.0	1191.0	3549.1	7888.5	8627.2	8014.1
52°	147.7	155.1	181.0	214.2	192.0	454.3	1167.0	3667.3	7986.4	8605.0	7903.3
52.5°	145.9	151.4	175.4	210.5	182.8	446.9	1150.4	3695.0	8017.8	8549.6	7979.0
55°	129.3	136.6	160.7	164.3	149.6	367.5	1096.9	3757.8	7862.7	8440.7	7907.0
57.5°	121.9	125.6	142.2	134.8	129.3	277.0	943.6	3659.9	6983.7	7497.1	7356.7
60°	112.6	116.3	133.0	105.3	108.9	193.9	709.1	3177.9	5608.0	6246.9	6499.9
62.5°	108.9	107.1	125.6	84.9	92.3	140.3	500.4	2583.3	4321.0	5142.7	5580.3
65°	96.0	94.2	90.5	72.0	79.4	108.9	299.1	1685.9	3045.0	3890.7	4130.8
67.5°	73.9	77.6	66.5	57.2	66.5	84.9	166.2	755.2	1597.3	2334.1	2527.9
70°	51.7	55.4	53.6	49.9	59.1	70.2	96.0	258.5	661.1	1226.1	1351.7
72.5°	31.4	38.8	40.6	42.5	51.7	60.9	68.3	83.1	175.4	433.9	539.2
75°	18.5	25.9	31.4	36.9	42.5	51.7	57.2	59.1	60.9	81.2	131.1
77.5°	12.9	18.5	27.7	35.1	42.5	51.7	60.9	64.6	60.9	57.2	60.9
80°	11.1	18.5	25.9	33.2	44.3	53.6	60.9	60.9	59.1	51.7	55.4
82.5°	11.1	18.5	27.7	35.1	42.5	51.7	59.1	60.9	55.4	51.7	53.6
85°	12.9	20.3	29.5	36.9	46.2	42.5	38.8	31.4	29.5	24.0	25.9
87.5°	12.9	18.5	18.5	20.3	22.2	22.2	22.2	20.3	16.6	14.8	14.8
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: P529953

CATALOG NUMBER: GALN-SA5A-827-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8	4719.8
2.5°	5157.5	5305.2	5299.6	5303.3	5281.2	5131.6	5059.6	4876.8	4928.5	4906.3
5°	5355.0	5500.9	5626.5	5611.7	5441.8	5238.7	4937.7	4653.3	4575.8	4461.3
7.5°	5157.5	5508.3	5624.6	5608.0	5356.9	5096.5	4616.4	4332.0	4197.2	4121.5
10°	4843.5	5249.8	5393.8	5423.4	5253.5	4858.3	4417.0	3960.9	3888.9	3757.8
12.5°	4664.4	4959.9	5048.5	5127.9	5068.8	4773.4	4265.6	3827.9	3728.2	3641.4
15°	4518.5	4694.0	4730.9	4821.4	4856.5	4697.7	4345.0	3972.0	3726.4	3717.1
17.5°	4653.3	4581.3	4446.5	4474.2	4585.0	4699.5	4549.9	4256.3	4018.1	3988.6
20°	4876.8	4559.2	4254.5	4322.8	4415.1	4766.0	4860.2	4653.3	4516.7	4441.0
22.5°	5133.5	4597.9	4193.6	4226.8	4402.2	4915.6	5362.4	5247.9	4993.1	4884.2
25°	5608.0	4705.0	4241.6	4263.7	4503.8	5124.2	5816.7	5901.6	5750.2	5728.0
27.5°	6071.5	4982.0	4346.8	4297.0	4555.5	5327.3	6091.8	6547.9	6282.0	6230.3
30°	6307.9	5207.3	4503.8	4418.8	4769.7	5451.1	6258.0	6968.9	6736.3	6712.3
32.5°	6669.8	5412.3	4625.6	4516.7	4889.7	5604.3	6568.2	7428.7	7203.5	7083.4
35°	6821.2	5635.7	4893.4	4766.0	5233.2	5818.5	6727.0	7838.7	7768.5	7652.2
37.5°	7113.0	5875.8	5209.2	5201.8	5648.6	6097.4	7013.3	8396.3	8383.4	8182.1
40°	7137.0	6138.0	5707.7	5940.4	6291.2	6583.0	7264.4	8551.4	8762.0	8625.3
42.5°	7173.9	6597.8	6570.1	6762.1	7063.1	7000.3	7273.6	8588.4	8909.7	8828.4
45°	7190.5	7057.6	7447.2	7801.7	7927.3	7546.9	7186.8	8518.2	8987.2	8784.1
47.5°	7057.6	7452.7	8156.3	8841.4	8878.3	7883.0	7149.9	8446.2	9033.4	8898.6
50°	7076.0	7700.2	8769.3	9382.4	9247.6	8180.3	7092.7	8401.9	9009.4	8918.9
52°	7031.7	7705.7	8856.1	9371.3	9277.1	8015.9	6994.8	8232.0	8987.2	9051.9
52.5°	7081.6	7672.5	8765.6	9378.7	9256.8	8097.2	6981.9	8326.2	9000.2	8869.1
55°	6909.8	7277.3	8235.7	8496.0	8477.6	7349.3	6584.9	8014.1	8662.2	8664.1
57.5°	6245.1	6307.9	6459.3	6453.7	6368.8	5777.9	5632.0	7369.6	7722.3	7530.3
60°	5502.8	4618.3	4210.2	4044.0	3949.8	3853.8	4982.0	6741.8	6775.0	6693.8
62.5°	4754.9	3201.9	2659.1	2612.9	2635.0	2985.9	4815.8	6492.5	6293.1	6117.7
65°	3837.2	2334.1	1931.5	1870.6	2086.6	2465.2	3898.1	4978.3	4671.8	4525.9
67.5°	2409.8	1702.5	1305.5	1191.0	1451.4	1697.0	2561.2	3128.1	2784.6	2583.3
70°	1429.2	951.0	590.9	530.0	596.4	904.8	1434.8	1560.3	1290.7	1187.3
72.5°	563.2	349.0	164.3	140.3	145.9	317.6	528.1	515.2	389.6	347.2
75°	151.4	105.3	57.2	46.2	38.8	59.1	84.9	55.4	20.3	25.9
77.5°	70.2	62.8	49.9	38.8	29.5	22.2	11.1	3.7	3.7	1.8
80°	60.9	53.6	46.2	38.8	29.5	18.5	9.2	1.8	1.8	1.8
82.5°	57.2	49.9	42.5	35.1	27.7	18.5	9.2	1.8	0.0	0.0
85°	24.0	31.4	35.1	33.2	29.5	18.5	9.2	1.8	0.0	0.0
87.5°	12.9	11.1	9.2	7.4	5.5	3.7	3.7	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)