

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: P533539

Luminaire Tested: **GALN-SA9A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19167 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

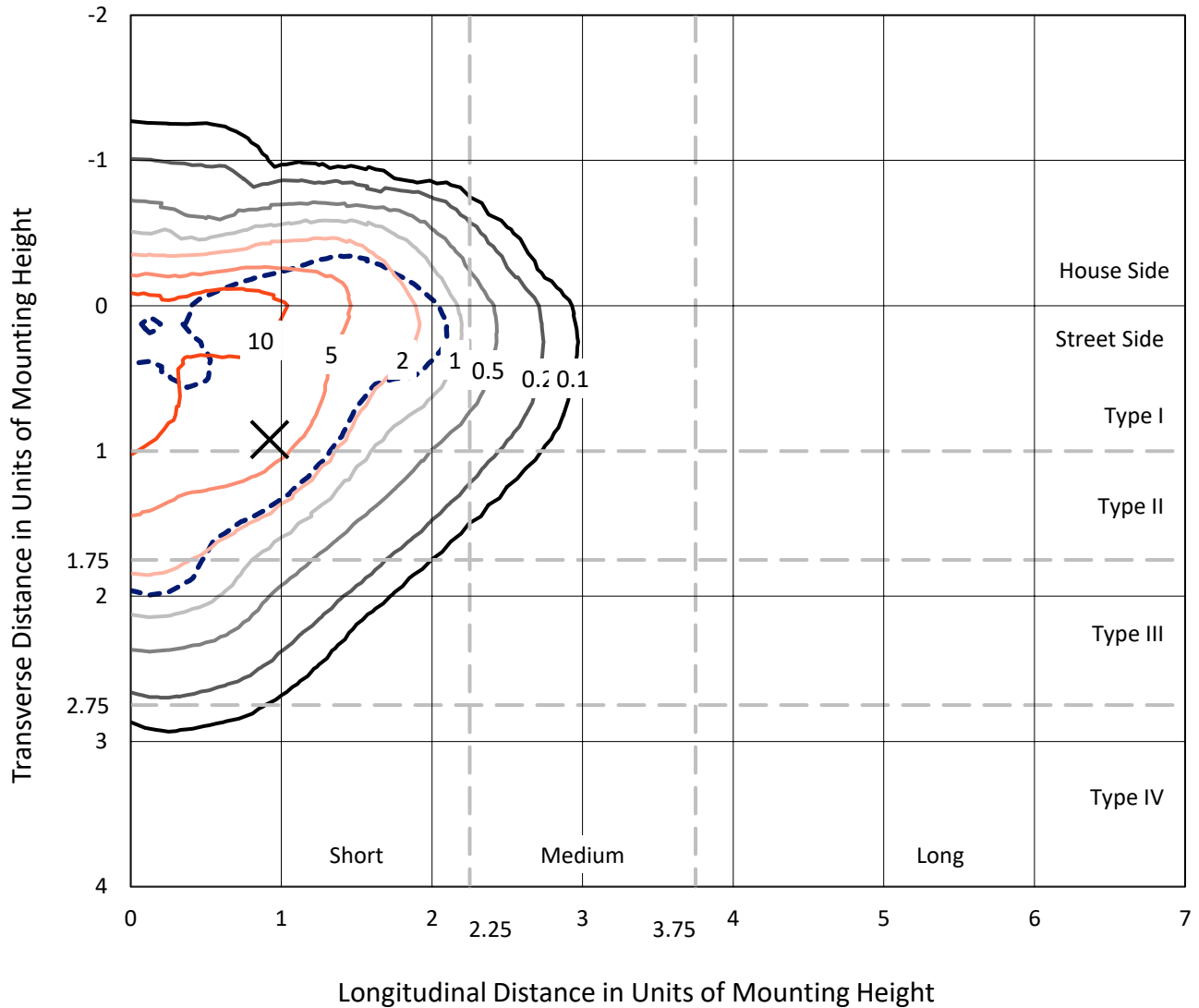
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

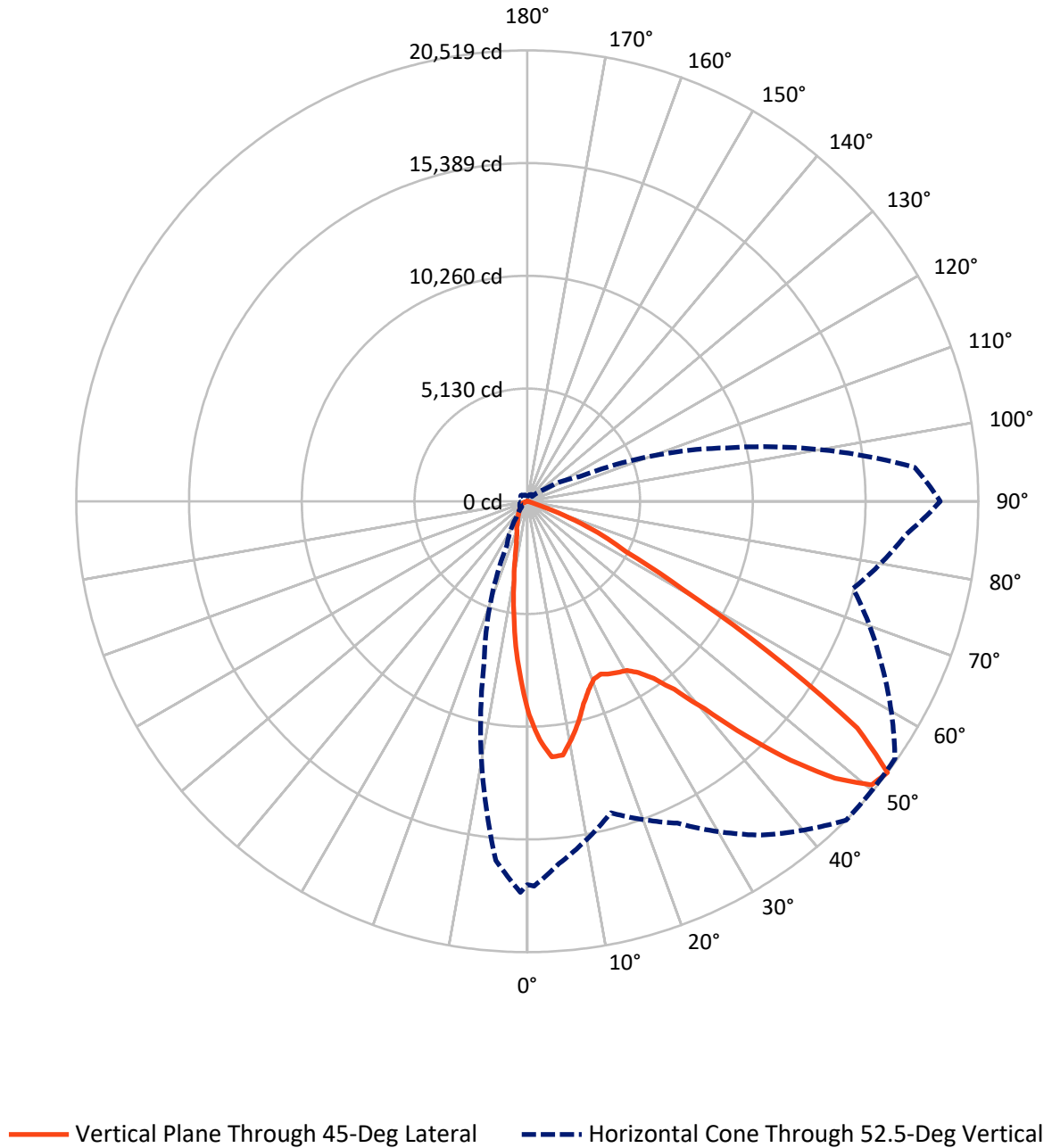
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	3889.9	0.0	3889.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	15277.0	0.0	15277.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	19167.0	0.0	19167.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	708.8	3.7
10°-20°	1398.4	7.3
20°-30°	2128.1	11.1
30°-40°	3180.6	16.6
40°-50°	4529.5	23.6
50°-60°	4869.1	25.4
60°-70°	2157.6	11.3
70°-80°	174.6	0.9
80°-90°	20.3	0.1
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°	19167.0	100.0
0°-180°	19167.0	100.0

**Coefficient of Utilization**

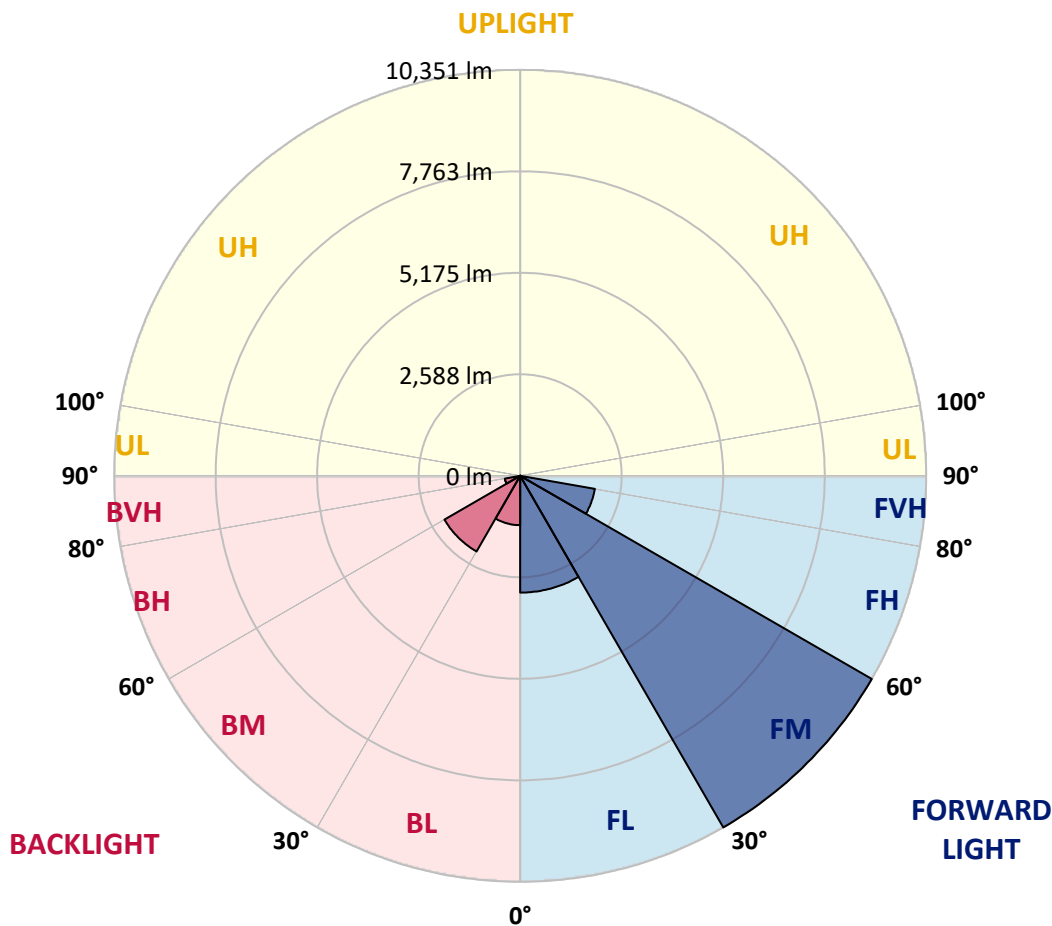


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2977.0	15.5			
FM (30°-60°)	10350.8	54.0			
FH (60°-80°)	1934.2	10.1			G2/5000
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	1258.2	6.6	B3/2500		
BM (30°-60°)	2228.5	11.6	B2/2500		
BH (60°-80°)	398.0	2.1	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6
2.5°	10284.0	10314.2	10480.1	10687.4	10796.7	11045.5	10872.1	10917.4	10823.1	10491.4	10231.3
5°	9971.1	9967.4	10178.5	10691.2	11177.5	11671.3	11686.4	11422.5	10958.8	10449.9	9722.3
7.5°	9028.7	9175.7	9394.4	10212.4	11113.4	11482.8	11660.0	11350.9	10638.4	9910.8	9122.9
10°	8316.2	8391.6	8761.0	9748.7	10408.4	10902.3	11011.6	10834.4	10287.8	9379.3	8497.1
12.5°	7905.3	7943.0	8376.5	9205.9	9903.3	10269.0	10321.7	10404.7	10012.6	9160.6	8101.3
15°	7909.1	7939.2	8523.5	9217.2	9492.4	9394.4	9567.8	9564.0	9733.6	9119.2	8433.1
17.5°	8478.3	8512.2	9040.0	9383.0	9262.4	9032.5	9021.1	9194.6	9552.7	9635.6	8934.4
20°	9458.4	9537.6	9925.9	9907.1	9228.5	8764.8	8636.6	8768.6	9601.7	10072.9	9944.7
22.5°	10777.9	10887.2	11158.6	10638.4	9383.0	8583.8	8542.4	8798.7	9925.9	11049.3	11090.8
25°	12308.4	12493.1	12625.1	11957.8	9933.4	8896.7	8700.7	9141.8	10363.2	12108.6	12549.7
27.5°	13322.5	13514.8	13484.6	12530.8	10302.9	8979.7	8813.8	9224.7	10743.9	12361.2	13311.2
30°	14114.2	14231.0	14442.1	12840.0	10672.3	9213.4	8930.7	9575.3	10868.4	12798.5	14231.0
32.5°	15037.8	15116.9	15132.0	13386.6	11241.6	9507.5	9292.6	10012.6	11418.7	13216.9	15045.3
35°	15968.9	16085.8	15840.7	14061.4	11592.2	10054.1	9895.7	10770.3	11859.8	13650.5	15942.5
37.5°	16979.2	17039.5	16474.1	14340.3	12093.5	10943.7	10857.0	11588.4	12625.1	14434.6	16937.7
40°	17827.4	17884.0	17148.8	14683.4	12621.3	12187.8	12410.2	13149.1	13665.5	14943.5	17435.4
42.5°	18298.6	18430.6	17375.0	14494.9	13680.6	13597.7	14585.4	14845.5	14871.9	15086.8	17880.2
45°	18426.8	18366.5	17001.8	14649.5	14608.0	15916.1	16813.3	17156.4	16070.7	15350.7	17993.3
47.5°	17835.0	17914.1	16451.4	14513.8	15825.6	17672.9	18834.0	19471.0	16964.1	15120.7	17714.3
50°	17356.2	17254.4	16274.3	14415.7	16153.6	18502.2	20292.9	20436.1	17785.9	15403.4	17409.0
52.5°	17450.4	17514.5	16557.0	14675.9	16161.2	18551.2	20519.1	20421.0	17812.3	15339.3	17299.6
55°	17650.2	17367.5	16436.4	14102.8	15079.2	17182.8	18211.9	18061.1	16440.1	14657.0	17032.0
57.5°	15230.0	15667.3	15113.2	12591.2	12376.3	12945.5	12926.7	13390.4	12263.2	12613.8	15505.2
60°	12361.2	12436.6	12643.9	10770.3	8565.0	8369.0	8097.5	7803.5	8252.1	10785.4	14102.8
62.5°	10872.1	10781.6	11520.5	9797.7	6046.8	5062.8	5017.6	5198.6	6367.2	10287.8	13228.2
65°	7901.5	8014.6	8549.9	7603.7	4538.8	3864.1	3796.2	4331.5	5153.3	8244.6	10095.5
67.5°	4825.4	5044.0	5093.0	4689.6	3079.9	2446.6	2348.6	2834.9	3720.8	5334.3	5918.6
70°	2228.0	2491.8	2740.6	2559.7	1783.1	1006.5	950.0	1191.3	1877.4	3068.6	3140.2
72.5°	674.8	678.6	950.0	991.5	576.8	226.2	199.8	263.9	637.1	1014.1	1066.9
75°	49.0	52.8	128.2	147.0	109.3	56.5	60.3	71.6	135.7	226.2	169.6
77.5°	3.8	3.8	3.8	18.8	33.9	37.7	49.0	56.5	71.6	82.9	75.4
80°	3.8	0.0	3.8	15.1	26.4	37.7	45.2	52.8	56.5	64.1	56.5
82.5°	0.0	0.0	0.0	11.3	26.4	37.7	41.5	56.5	64.1	75.4	64.1
85°	0.0	0.0	0.0	11.3	26.4	41.5	37.7	18.8	0.0	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°	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6
2.5°	10276.5	10129.5	9794.0	9624.3	9224.7	9168.2	8776.1	8712.0	8580.1	8508.5	8335.0
5°	9401.9	9224.7	8678.1	8218.2	7682.9	7309.7	7023.1	6763.0	6612.2	6472.8	6536.8
7.5°	8689.4	8172.9	7566.0	6797.0	6178.7	5779.1	5341.8	4983.7	4772.6	4629.3	4663.3
10°	7943.0	7607.5	6763.0	5899.7	5153.3	4870.6	4527.5	4252.3	3954.5	3698.2	3577.5
12.5°	7709.3	7211.6	6152.3	5274.0	4708.5	4433.3	4041.2	3724.6	3343.8	3030.9	2921.6
15°	7750.7	7272.0	5986.5	5047.8	4380.5	3905.5	3438.1	3046.0	2627.6	2408.9	2295.8
17.5°	8425.5	7596.2	6095.8	4810.3	3924.4	3264.7	2687.9	2190.3	1877.4	1651.2	1602.2
20°	9254.9	8297.3	6329.5	4636.9	3551.2	2597.4	1964.1	1534.3	1274.2	1236.5	1225.2
22.5°	10468.8	9443.4	6830.9	4520.0	3095.0	2024.4	1345.8	1115.9	1044.2	1036.7	1040.5
25°	12165.2	10879.7	7377.5	4422.0	2752.0	1560.7	1100.8	946.2	923.6	912.3	931.1
27.5°	12900.3	11746.7	7667.8	4210.9	2439.1	1406.1	1085.7	938.7	874.6	855.7	867.1
30°	13808.8	12323.5	8123.9	3849.0	1979.1	1157.3	1014.1	1021.6	991.5	897.2	867.1
32.5°	15015.1	13043.5	8353.9	3592.6	1768.0	957.5	742.7	682.3	761.5	776.6	803.0
35°	15787.9	13774.9	8470.8	3441.8	1658.7	818.0	629.6	573.0	554.2	557.9	573.0
37.5°	17224.2	14762.6	8617.8	3283.5	1575.8	712.5	569.2	516.5	490.1	490.1	505.2
40°	18083.8	15546.7	8817.6	3196.8	1492.8	648.4	516.5	471.2	448.6	448.6	456.1
42.5°	18298.6	15935.0	8749.7	3166.6	1398.6	633.3	471.2	437.3	410.9	407.1	403.4
45°	18683.2	16526.8	8761.0	3132.7	1300.6	576.8	444.8	407.1	369.4	365.7	361.9
47.5°	19105.4	16952.8	8783.6	3000.8	1206.3	482.5	463.7	377.0	331.7	324.2	324.2
50°	18743.5	17292.1	8979.7	2868.8	1085.7	392.1	456.1	354.4	294.0	282.7	286.5
52.5°	18788.7	17691.7	9394.4	2684.1	934.9	312.9	369.4	335.5	267.7	248.8	252.6
55°	18064.9	17269.5	9450.9	2488.1	731.3	241.3	282.7	294.0	226.2	218.6	218.6
57.5°	15550.4	14623.1	8338.8	2016.8	482.5	199.8	203.6	256.3	196.0	188.5	192.3
60°	13307.4	11739.2	6710.3	1330.7	301.6	158.3	147.0	260.1	173.4	169.6	181.0
62.5°	12131.2	9646.9	5089.2	825.6	207.3	120.6	101.8	211.1	150.8	150.8	165.9
65°	8764.8	6480.3	2959.3	433.5	147.0	94.2	75.4	120.6	124.4	128.2	135.7
67.5°	5428.5	3272.2	1247.8	211.1	98.0	64.1	49.0	75.4	82.9	82.9	90.5
70°	2680.3	1304.4	414.7	120.6	75.4	52.8	33.9	41.5	41.5	37.7	41.5
72.5°	829.4	392.1	105.6	75.4	52.8	33.9	18.8	15.1	7.5	0.0	3.8
75°	94.2	75.4	67.9	52.8	33.9	15.1	3.8	0.0	0.0	0.0	0.0
77.5°	56.5	64.1	64.1	52.8	33.9	11.3	0.0	0.0	0.0	0.0	0.0
80°	45.2	49.0	52.8	49.0	30.2	15.1	0.0	0.0	0.0	0.0	0.0
82.5°	56.5	64.1	71.6	64.1	41.5	18.8	7.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.3	3.8	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6
2.5°	8263.4	8180.5	8297.3	8123.9	8120.2	8123.9	8074.9	8029.7	8101.3	8293.6	8312.4
5°	6306.9	6484.1	6540.6	6725.3	6623.5	6472.8	6502.9	6401.1	6649.9	6759.3	6672.6
7.5°	4591.6	4580.3	4961.1	4983.7	5032.7	5036.5	5028.9	4829.1	4625.6	4670.8	4806.5
10°	3562.5	3370.2	3554.9	3536.1	3656.7	3622.8	3671.8	3456.9	3528.5	3528.5	3615.2
12.5°	2902.8	2699.2	2665.3	2616.2	2665.3	2684.1	2703.0	2661.5	2782.1	2838.7	2899.0
15°	2216.6	2103.6	2073.4	1979.1	1994.2	2047.0	2092.2	2111.1	2073.4	2160.1	2167.6
17.5°	1609.7	1605.9	1624.8	1621.0	1605.9	1594.6	1590.9	1541.9	1526.8	1534.3	1564.5
20°	1221.4	1251.6	1315.7	1379.7	1413.7	1372.2	1315.7	1232.7	1198.8	1206.3	1210.1
22.5°	1044.2	1089.5	1176.2	1247.8	1281.7	1206.3	1104.6	1032.9	1017.8	1014.1	1010.3
25°	946.2	999.0	1063.1	1085.7	1081.9	1036.7	961.3	931.1	923.6	916.1	882.1
27.5°	893.4	912.3	923.6	950.0	961.3	931.1	912.3	867.1	859.5	859.5	836.9
30°	863.3	852.0	867.1	848.2	863.3	840.7	844.4	844.4	825.6	833.1	833.1
32.5°	803.0	806.7	806.7	769.0	780.3	754.0	780.3	803.0	806.7	810.5	840.7
35°	588.1	655.9	689.9	689.9	701.2	682.3	678.6	652.2	618.2	584.3	569.2
37.5°	516.5	542.9	588.1	614.5	633.3	618.2	584.3	542.9	524.0	508.9	493.8
40°	459.9	482.5	512.7	542.9	580.6	561.7	508.9	490.1	467.5	467.5	452.4
42.5°	414.7	426.0	444.8	490.1	531.5	493.8	456.1	441.1	429.8	426.0	422.2
45°	373.2	377.0	395.8	433.5	482.5	444.8	407.1	388.3	392.1	395.8	392.1
47.5°	335.5	343.1	354.4	399.6	429.8	410.9	369.4	358.1	358.1	358.1	361.9
50°	290.3	309.1	331.7	369.4	392.1	380.8	346.8	331.7	324.2	324.2	328.0
52.5°	260.1	275.2	305.4	350.6	380.8	361.9	328.0	305.4	290.3	286.5	294.0
55°	226.2	252.6	301.6	335.5	377.0	358.1	320.4	294.0	267.7	263.9	263.9
57.5°	203.6	245.0	290.3	331.7	365.7	350.6	320.4	286.5	252.6	248.8	248.8
60°	192.3	237.5	282.7	320.4	365.7	343.1	316.7	279.0	241.3	241.3	237.5
62.5°	181.0	222.4	267.7	305.4	350.6	331.7	305.4	267.7	230.0	230.0	222.4
65°	150.8	192.3	222.4	256.3	305.4	286.5	260.1	233.7	203.6	196.0	199.8
67.5°	105.6	131.9	162.1	196.0	226.2	218.6	207.3	188.5	162.1	158.3	154.6
70°	52.8	71.6	98.0	131.9	158.3	150.8	143.3	128.2	113.1	109.3	109.3
72.5°	7.5	22.6	41.5	60.3	82.9	86.7	82.9	79.2	75.4	71.6	75.4
75°	0.0	0.0	0.0	15.1	33.9	41.5	49.0	56.5	56.5	49.0	60.3
77.5°	0.0	0.0	0.0	0.0	3.8	18.8	37.7	49.0	60.3	52.8	71.6
80°	0.0	0.0	0.0	0.0	3.8	22.6	37.7	52.8	60.3	52.8	75.4
82.5°	0.0	0.0	0.0	0.0	3.8	26.4	37.7	49.0	56.5	52.8	67.9
85°	0.0	0.0	0.0	0.0	11.3	22.6	15.1	7.5	3.8	3.8	11.3
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: P533539  
 CATALOG NUMBER: GALN-SA9A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6	9718.6
2.5°	8418.0	8685.6	8972.1	9081.5	9420.7	9677.1	9850.5	10223.7	10280.3	10284.0
5°	6763.0	6898.7	7388.8	7618.8	8123.9	8516.0	8934.4	9537.6	9941.0	9971.1
7.5°	4806.5	5183.5	5390.8	5990.2	6612.2	7226.7	7848.7	8549.9	9017.4	9028.7
10°	3867.8	4112.9	4482.3	4930.9	5454.9	6080.7	6910.1	7724.3	8199.3	8316.2
12.5°	3113.9	3543.6	3965.8	4429.5	4829.1	5300.3	6193.8	7279.5	7671.6	7905.3
15°	2397.6	2789.7	3287.3	3830.1	4282.5	4912.1	5929.9	7170.2	7829.9	7909.1
17.5°	1768.0	2118.6	2578.5	3091.2	3769.8	4663.3	5975.1	7724.3	8346.4	8478.3
20°	1270.4	1474.0	1835.9	2431.5	3294.8	4373.0	6020.4	8286.0	9232.3	9458.4
22.5°	1006.5	1089.5	1327.0	1854.7	2763.3	4067.6	6340.8	9360.4	10449.9	10777.9
25°	874.6	919.8	1032.9	1462.7	2427.8	4037.5	6853.5	10649.7	12070.9	12308.4
27.5°	844.4	852.0	950.0	1342.1	2246.8	3837.7	7049.5	11565.8	13081.2	13322.5
30°	889.7	1010.3	1017.8	1134.7	1911.3	3441.8	7151.3	12451.7	13937.0	14114.2
32.5°	769.0	731.3	757.7	878.4	1681.3	3211.9	7343.6	13224.5	14913.4	15037.8
35°	535.3	561.7	622.0	761.5	1470.2	2970.6	7392.6	14076.5	15840.7	15968.9
37.5°	493.8	508.9	557.9	648.4	1293.0	2834.9	7324.7	14698.5	16802.0	16979.2
40°	459.9	478.8	505.2	588.1	1161.1	2684.1	7230.5	15260.2	17390.1	17827.4
42.5°	433.5	448.6	471.2	561.7	1048.0	2533.3	7098.5	16051.8	17917.9	18298.6
45°	403.4	426.0	452.4	546.6	983.9	2431.5	7000.5	16002.8	18223.2	18426.8
47.5°	373.2	410.9	441.1	508.9	965.1	2382.5	7042.0	15818.1	17974.4	17835.0
50°	343.1	392.1	444.8	422.2	919.8	2284.5	7091.0	16070.7	17382.6	17356.2
52.5°	316.7	373.2	414.7	346.8	818.0	2190.3	7566.0	16402.4	17801.0	17450.4
55°	279.0	335.5	331.7	279.0	663.5	2118.6	7939.2	16410.0	17518.3	17650.2
57.5°	252.6	297.8	260.1	233.7	490.1	1771.8	7332.3	13759.8	14996.3	15230.0
60°	233.7	290.3	196.0	184.7	320.4	1278.0	6401.1	10657.2	11920.1	12361.2
62.5°	214.9	275.2	154.6	150.8	222.4	908.5	5262.6	8919.4	10272.7	10872.1
65°	188.5	196.0	124.4	116.9	158.3	490.1	3204.3	6141.0	7679.1	7901.5
67.5°	154.6	150.8	101.8	94.2	105.6	237.5	1413.7	3076.2	4452.1	4825.4
70°	124.4	124.4	86.7	75.4	75.4	109.3	369.4	1225.2	2013.1	2228.0
72.5°	90.5	94.2	67.9	60.3	56.5	52.8	60.3	245.0	527.8	674.8
75°	79.2	82.9	67.9	52.8	41.5	33.9	26.4	22.6	30.2	49.0
77.5°	86.7	86.7	71.6	49.0	37.7	26.4	15.1	7.5	7.5	3.8
80°	109.3	113.1	94.2	64.1	45.2	30.2	18.8	7.5	3.8	3.8
82.5°	116.9	128.2	105.6	79.2	56.5	33.9	18.8	3.8	0.0	0.0
85°	30.2	49.0	82.9	71.6	56.5	33.9	18.8	3.8	0.0	0.0
87.5°	0.0	3.8	11.3	11.3	15.1	15.1	11.3	3.8	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)