

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: P528913

Luminaire Tested: **GALN-SA4A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528913  
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-SA4A-735-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 9317 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

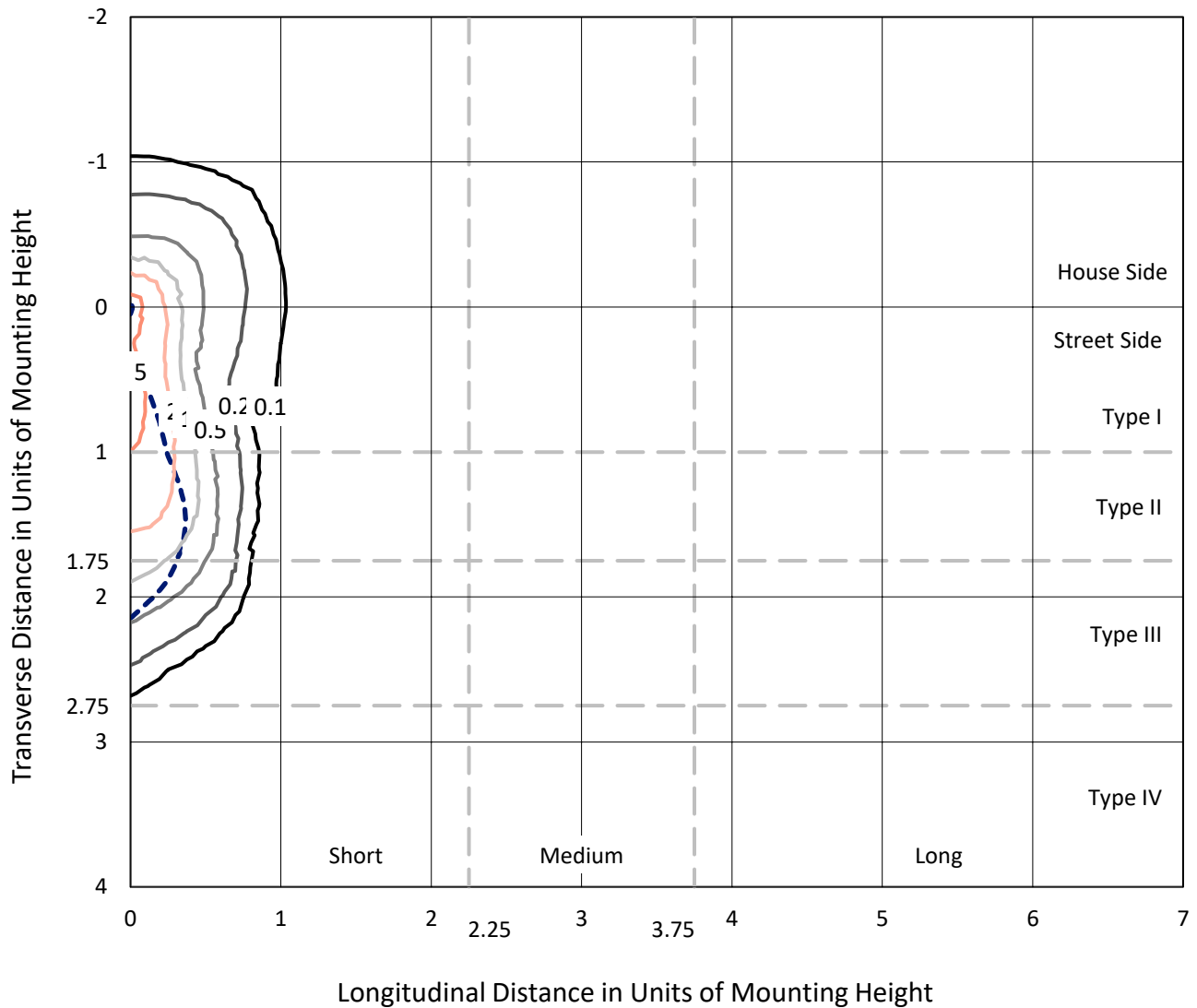
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

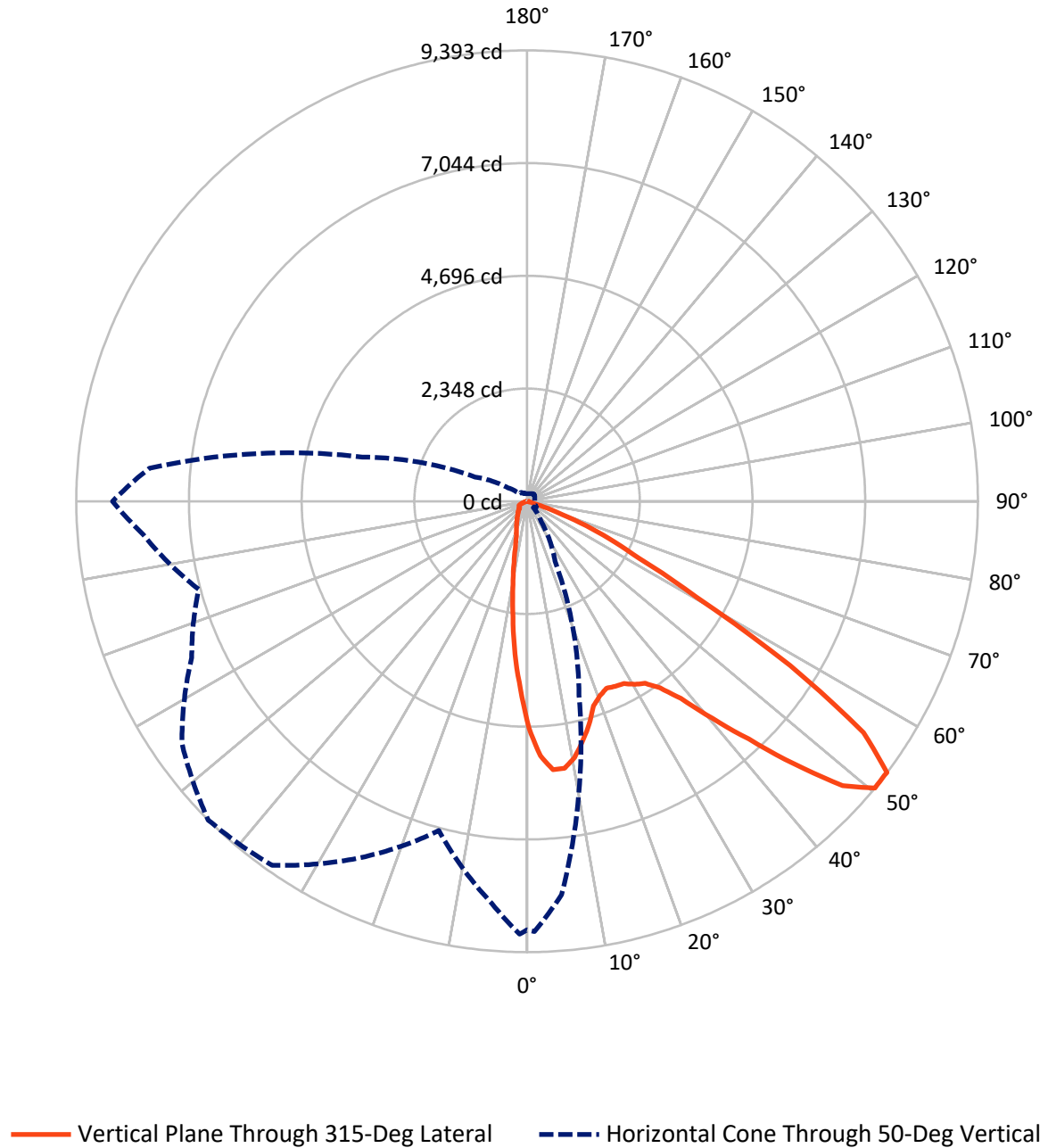
× Max cd  
 - - - 1/2 Max cd



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	1866.2	0.0	1866.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	7450.8	0.0	7450.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	9317.0	0.0	9317.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.4	3.7
10°-20°	684.5	7.3
20°-30°	1028.3	11.0
30°-40°	1543.4	16.6
40°-50°	2169.2	23.3
50°-60°	2339.8	25.1
60°-70°	1086.4	11.7
70°-80°	102.2	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°	9317.0	100.0
0°-180°	9317.0	100.0

**Coefficient of Utilization**



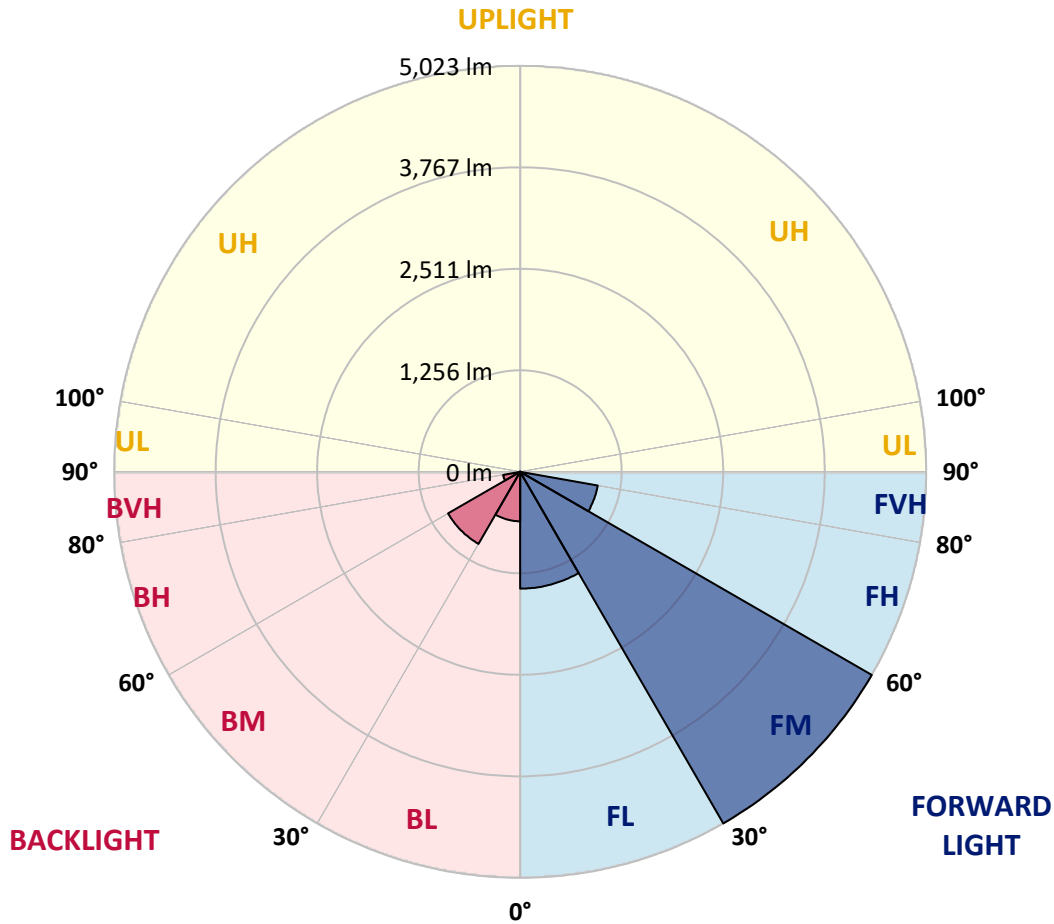
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.5	15.5			
FM (30°-60°)	5022.6	53.9			
FH (60°-80°)	974.3	10.5			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	611.7	6.6	B2/1000		
BM (30°-60°)	1029.9	11.1	B2/2500		
BH (60°-80°)	214.3	2.3	B1/500		G1/500
BVH (80°-90°)	10.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9
2.5°	4911.6	4835.8	4739.7	4660.2	4541.9	4303.4	4238.7	4161.1	4096.4	4009.5	3887.5
5°	4466.1	4442.1	4397.7	4098.2	3882.0	3593.6	3357.0	3257.1	3125.9	3018.7	2941.0
7.5°	4126.0	4029.8	3889.3	3588.0	3242.4	2933.6	2671.2	2517.7	2344.0	2284.8	2179.4
10°	3761.8	3784.0	3576.9	3153.6	2735.9	2486.3	2323.6	2175.7	2018.6	1915.1	1765.4
12.5°	3645.3	3573.2	3414.3	2891.1	2534.4	2301.4	2103.6	1920.6	1754.3	1587.9	1443.7
15°	3721.1	3610.2	3388.4	2835.7	2379.1	2088.9	1841.2	1593.4	1440.0	1227.4	1077.7
17.5°	3992.9	3904.1	3606.5	2894.8	2299.6	1885.5	1517.7	1262.6	1027.8	835.5	759.8
20°	4445.8	4320.1	3946.7	2970.6	2181.3	1639.7	1231.1	916.9	695.1	613.7	571.2
22.5°	4889.4	4821.0	4349.6	3116.7	2075.9	1421.5	924.3	617.4	519.4	504.7	476.9
25°	5734.2	5529.0	4965.2	3381.0	1994.6	1216.3	696.9	497.3	440.0	428.9	432.6
27.5°	6237.0	6065.1	5534.6	3556.6	1904.0	1059.2	589.7	456.6	417.8	393.7	384.5
30°	6719.5	6519.8	5817.4	3660.1	1709.9	892.8	523.1	438.1	428.9	393.7	382.6
32.5°	7091.0	6895.1	6225.9	3815.4	1630.4	785.6	430.7	342.0	318.0	314.3	347.5
35°	7660.4	7451.5	6575.3	3900.4	1569.4	730.2	373.4	305.0	277.3	266.2	268.0
37.5°	8190.9	8048.6	6898.8	3933.7	1504.7	713.5	334.6	273.6	249.6	242.2	240.3
40°	8634.6	8316.6	7205.6	3968.8	1477.0	682.1	310.6	249.6	232.9	221.8	221.8
42.5°	8837.9	8514.4	7549.5	3948.5	1469.6	632.2	310.6	229.2	216.3	205.2	203.3
45°	8793.6	8662.3	7702.9	3939.3	1469.6	582.3	282.8	223.7	205.2	190.4	186.7
47.5°	8908.2	8736.2	7895.2	3978.1	1440.0	547.2	238.5	234.8	194.1	175.6	171.9
50°	8928.5	8961.8	8229.7	4179.6	1375.3	502.8	186.7	231.1	186.7	159.0	155.3
52°	9061.6	8854.6	8331.4	4286.8	1306.9	469.5	157.1	197.8	179.3	147.9	144.2
52.5°	8878.6	9013.5	8355.4	4325.6	1314.3	447.3	151.6	194.1	175.6	147.9	138.6
55°	8673.4	8802.8	8257.5	4408.8	1205.3	351.2	118.3	140.5	159.0	129.4	123.9
57.5°	7538.4	7669.6	7176.1	4037.2	981.6	247.7	98.0	105.4	140.5	120.2	114.6
60°	6701.0	6606.7	6022.6	3368.1	696.9	138.6	77.6	81.3	153.4	110.9	109.1
62.5°	6124.2	5922.8	5033.6	2600.9	425.2	92.4	61.0	62.9	118.3	103.5	103.5
65°	4530.8	4305.3	3344.0	1573.1	208.9	64.7	46.2	49.9	73.9	88.7	88.7
67.5°	2586.1	2499.2	1615.6	709.8	86.9	40.7	35.1	38.8	57.3	72.1	68.4
70°	1188.6	1066.6	621.1	149.7	40.7	27.7	27.7	31.4	46.2	53.6	49.9
72.5°	347.5	329.0	151.6	24.0	16.6	16.6	18.5	24.0	35.1	40.7	37.0
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	29.6	46.2	48.1	35.1
80°	1.8	1.8	0.0	1.8	5.5	11.1	18.5	33.3	51.8	55.5	29.6
82.5°	0.0	0.0	0.0	1.8	7.4	14.8	22.2	35.1	48.1	59.2	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°	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9
2.5°	3974.4	3926.3	3907.8	3924.5	3918.9	3913.4	4015.1	3992.9	3989.2	4022.4	4015.1
5°	2983.6	2898.5	3131.4	3037.2	3135.1	3194.3	3205.4	3210.9	3279.3	3207.2	3301.5
7.5°	2125.8	2148.0	2146.2	2209.0	2321.8	2421.6	2480.8	2434.5	2430.8	2421.6	2380.9
10°	1698.8	1660.0	1652.6	1637.8	1672.9	1758.0	1830.1	1772.8	1732.1	1787.5	1770.9
12.5°	1388.3	1334.7	1305.1	1245.9	1247.8	1305.1	1305.1	1305.1	1345.7	1377.2	1401.2
15°	1064.8	1020.4	1020.4	961.2	948.3	950.2	979.7	983.4	1048.1	1066.6	1075.9
17.5°	745.0	720.9	748.7	772.7	757.9	761.6	772.7	776.4	785.6	778.2	796.7
20°	573.1	569.4	576.7	619.3	650.7	669.2	656.2	637.7	626.7	600.8	600.8
22.5°	486.2	493.6	506.5	541.6	582.3	593.4	578.6	536.1	502.8	499.1	501.0
25°	432.6	440.0	460.3	482.5	504.7	523.1	508.4	476.9	458.4	441.8	441.8
27.5°	399.3	403.0	414.1	430.7	449.2	464.0	458.4	441.8	421.5	414.1	397.4
30°	373.4	379.0	391.9	395.6	412.2	419.6	410.4	406.7	393.7	384.5	379.0
32.5°	360.5	358.6	367.9	371.6	373.4	379.0	367.9	373.4	371.6	356.8	351.2
35°	271.7	286.5	310.6	330.9	336.4	343.8	342.0	334.6	314.3	297.6	277.3
37.5°	244.0	253.3	266.2	282.8	305.0	314.3	310.6	292.1	268.0	256.9	253.3
40°	225.5	231.1	242.2	253.3	275.4	292.1	279.1	262.5	244.0	234.8	229.2
42.5°	208.9	210.7	216.3	227.4	244.0	269.9	247.7	225.5	218.1	212.6	208.9
45°	190.4	190.4	197.8	203.3	221.8	245.9	223.7	203.3	199.6	195.9	194.1
47.5°	175.6	177.5	181.2	188.6	203.3	220.0	205.2	188.6	179.3	177.5	173.8
50°	157.1	159.0	166.4	173.8	192.2	201.5	192.2	173.8	164.5	159.0	159.0
52°	142.3	147.9	155.3	170.1	183.0	197.8	186.7	166.4	155.3	149.7	146.0
52.5°	140.5	144.2	151.6	168.2	183.0	195.9	184.9	164.5	151.6	147.9	144.2
55°	125.7	131.2	144.2	164.5	181.2	195.9	181.2	162.7	144.2	134.9	131.2
57.5°	120.2	123.9	140.5	166.4	179.3	195.9	181.2	162.7	144.2	127.5	123.9
60°	114.6	122.0	140.5	160.8	177.5	197.8	183.0	160.8	140.5	120.2	120.2
62.5°	109.1	114.6	138.6	157.1	170.1	190.4	175.6	157.1	134.9	114.6	112.8
65°	94.3	103.5	122.0	131.2	146.0	164.5	149.7	136.8	118.3	101.7	99.8
67.5°	72.1	75.8	90.6	101.7	110.9	127.5	120.2	103.5	90.6	77.6	77.6
70°	49.9	53.6	64.7	70.2	79.5	88.7	83.2	70.2	61.0	53.6	51.8
72.5°	35.1	37.0	40.7	44.4	48.1	51.8	49.9	40.7	35.1	33.3	31.4
75°	27.7	31.4	33.3	31.4	29.6	27.7	27.7	24.0	20.3	18.5	18.5
77.5°	27.7	29.6	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°	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9
2.5°	4081.6	4151.8	4284.9	4418.0	4499.4	4595.5	4769.3	4861.7	4981.8	5041.0	5157.5
5°	3288.6	3454.9	3514.1	3665.7	3828.3	3991.0	4249.8	4534.5	4771.1	4933.8	5144.5
7.5°	2399.4	2438.2	2667.5	2769.1	3035.3	3331.1	3684.2	4042.8	4342.2	4608.4	4769.3
10°	1798.6	1941.0	2085.2	2279.3	2493.7	2798.7	3137.0	3532.6	3920.8	4187.0	4390.3
12.5°	1445.6	1558.3	1750.6	1959.5	2223.8	2425.3	2765.4	3157.3	3660.1	3920.8	4188.8
15°	1094.3	1238.5	1456.7	1672.9	1952.1	2164.7	2508.5	3002.0	3649.0	4007.7	4238.7
17.5°	811.5	909.5	1105.4	1347.6	1632.3	1931.7	2395.7	2985.4	3772.9	4199.9	4438.4
20°	621.1	654.4	778.2	994.5	1303.2	1695.1	2212.7	3057.5	4138.9	4667.6	4909.7
22.5°	502.8	517.6	565.7	715.4	1014.9	1488.1	2125.8	3107.4	4551.1	5227.7	5551.2
25°	438.1	434.4	465.8	530.5	793.0	1294.0	2014.9	3296.0	5055.8	5885.8	6176.0
27.5°	399.3	399.3	414.1	460.3	658.1	1168.3	1944.7	3430.9	5564.1	6464.4	6621.5
30°	379.0	382.6	425.2	440.0	547.2	1018.6	1828.2	3567.7	6050.3	6834.1	7050.4
32.5°	351.2	336.4	327.2	364.2	460.3	883.6	1711.8	3625.0	6444.0	7287.0	7471.8
35°	269.9	262.5	273.6	301.3	395.6	769.0	1582.4	3689.7	6896.9	7812.0	7848.9
37.5°	244.0	242.2	249.6	273.6	332.7	669.2	1489.9	3673.1	7242.6	8246.4	8146.6
40°	225.5	225.5	231.1	251.4	297.6	598.9	1393.8	3658.3	7577.2	8734.4	8442.3
42.5°	210.7	210.7	220.0	232.9	282.8	552.7	1321.7	3637.9	7858.2	9033.9	8616.1
45°	190.4	195.9	210.7	223.7	286.5	521.3	1268.1	3560.3	7954.3	9030.2	8532.9
47.5°	175.6	183.0	197.8	216.3	258.8	512.0	1231.1	3491.9	7921.0	8808.3	8272.3
50°	159.0	168.2	188.6	220.0	220.0	493.6	1192.3	3552.9	7897.0	8636.4	8022.7
52°	147.9	155.3	181.2	214.4	192.2	454.7	1168.3	3671.2	7995.0	8614.2	7911.8
52.5°	146.0	151.6	175.6	210.7	183.0	447.3	1151.6	3698.9	8026.4	8558.8	7987.6
55°	129.4	136.8	160.8	164.5	149.7	367.9	1098.0	3761.8	7871.1	8449.7	7915.5
57.5°	122.0	125.7	142.3	134.9	129.4	277.3	944.6	3663.8	6991.2	7505.1	7364.6
60°	112.8	116.5	133.1	105.4	109.1	194.1	709.8	3181.4	5614.0	6253.6	6506.9
62.5°	109.1	107.2	125.7	85.0	92.4	140.5	501.0	2586.1	4325.6	5148.2	5586.3
65°	96.1	94.3	90.6	72.1	79.5	109.1	299.5	1687.7	3048.3	3894.9	4135.2
67.5°	73.9	77.6	66.5	57.3	66.5	85.0	166.4	756.1	1599.0	2336.6	2530.7
70°	51.8	55.5	53.6	49.9	59.2	70.2	96.1	258.8	661.8	1227.4	1353.1
72.5°	31.4	38.8	40.7	42.5	51.8	61.0	68.4	83.2	175.6	434.4	539.8
75°	18.5	25.9	31.4	37.0	42.5	51.8	57.3	59.2	61.0	81.3	131.2
77.5°	12.9	18.5	27.7	35.1	42.5	51.8	61.0	64.7	61.0	57.3	61.0
80°	11.1	18.5	25.9	33.3	44.4	53.6	61.0	61.0	59.2	51.8	55.5
82.5°	11.1	18.5	27.7	35.1	42.5	51.8	59.2	61.0	55.5	51.8	53.6
85°	12.9	20.3	29.6	37.0	46.2	42.5	38.8	31.4	29.6	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: P528913

CATALOG NUMBER: GALN-SA4A-735-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9	4724.9
2.5°	5163.0	5310.9	5305.3	5309.0	5286.9	5137.1	5065.0	4882.0	4933.8	4911.6
5°	5360.8	5506.8	5632.5	5617.7	5447.7	5244.3	4943.0	4658.3	4580.7	4466.1
7.5°	5163.0	5514.2	5630.7	5614.0	5362.6	5102.0	4621.4	4336.7	4201.8	4126.0
10°	4848.7	5255.4	5399.6	5429.2	5259.1	4863.5	4421.7	3965.1	3893.0	3761.8
12.5°	4669.4	4965.2	5053.9	5133.4	5074.3	4778.5	4270.2	3832.0	3732.2	3645.3
15°	4523.4	4699.0	4736.0	4826.6	4861.7	4702.7	4349.6	3976.2	3730.4	3721.1
17.5°	4658.3	4586.3	4451.3	4479.0	4589.9	4704.6	4554.8	4260.9	4022.4	3992.9
20°	4882.0	4564.1	4259.1	4327.5	4419.9	4771.1	4865.4	4658.3	4521.6	4445.8
22.5°	5139.0	4602.9	4198.1	4231.3	4406.9	4920.8	5368.2	5253.6	4998.5	4889.4
25°	5614.0	4710.1	4246.1	4268.3	4508.6	5129.7	5822.9	5908.0	5756.4	5734.2
27.5°	6078.0	4987.4	4351.5	4301.6	4560.4	5333.1	6098.4	6555.0	6288.8	6237.0
30°	6314.6	5212.9	4508.6	4423.6	4774.8	5456.9	6264.7	6976.4	6743.5	6719.5
32.5°	6677.0	5418.1	4630.6	4521.6	4895.0	5610.3	6575.3	7436.7	7211.2	7091.0
35°	6828.5	5641.8	4898.7	4771.1	5238.8	5824.8	6734.3	7847.1	7776.8	7660.4
37.5°	7120.6	5882.1	5214.8	5207.4	5654.7	6103.9	7020.8	8405.4	8392.4	8190.9
40°	7144.6	6144.6	5713.9	5946.8	6298.0	6590.1	7272.2	8560.6	8771.4	8634.6
42.5°	7181.6	6604.9	6577.1	6769.4	7070.7	7007.9	7281.4	8597.6	8919.3	8837.9
45°	7198.3	7065.2	7455.2	7810.1	7935.8	7555.0	7194.6	8527.4	8996.9	8793.6
47.5°	7065.2	7460.7	8165.0	8850.9	8887.8	7891.5	7157.6	8455.3	9043.1	8908.2
50°	7083.6	7708.5	8778.8	9392.5	9257.5	8189.1	7100.3	8410.9	9019.1	8928.5
52°	7039.3	7714.0	8865.6	9381.4	9287.1	8024.6	7002.3	8240.8	8996.9	9061.6
52.5°	7089.2	7680.7	8775.1	9388.8	9266.8	8105.9	6989.4	8335.1	9009.8	8878.6
55°	6917.3	7285.1	8244.5	8505.2	8486.7	7357.2	6591.9	8022.7	8671.5	8673.4
57.5°	6251.8	6314.6	6466.2	6460.7	6375.6	5784.1	5638.1	7377.6	7730.6	7538.4
60°	5508.7	4623.2	4214.7	4048.3	3954.0	3857.9	4987.4	6749.1	6782.3	6701.0
62.5°	4760.0	3205.4	2661.9	2615.7	2637.9	2989.1	4821.0	6499.5	6299.9	6124.2
65°	3841.3	2336.6	1933.6	1872.6	2088.9	2467.8	3902.3	4983.7	4676.8	4530.8
67.5°	2412.4	1704.4	1306.9	1192.3	1453.0	1698.8	2563.9	3131.4	2787.6	2586.1
70°	1430.8	952.0	591.5	530.5	597.1	905.8	1436.3	1562.0	1292.1	1188.6
72.5°	563.8	349.4	164.5	140.5	146.0	318.0	528.7	515.7	390.0	347.5
75°	151.6	105.4	57.3	46.2	38.8	59.2	85.0	55.5	20.3	25.9
77.5°	70.2	62.9	49.9	38.8	29.6	22.2	11.1	3.7	3.7	1.8
80°	61.0	53.6	46.2	38.8	29.6	18.5	9.2	1.8	1.8	1.8
82.5°	57.3	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	33.3	29.6	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)