

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: P530263

Luminaire Tested: **GALN-SA5C-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530263
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-SA5C-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 16278 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

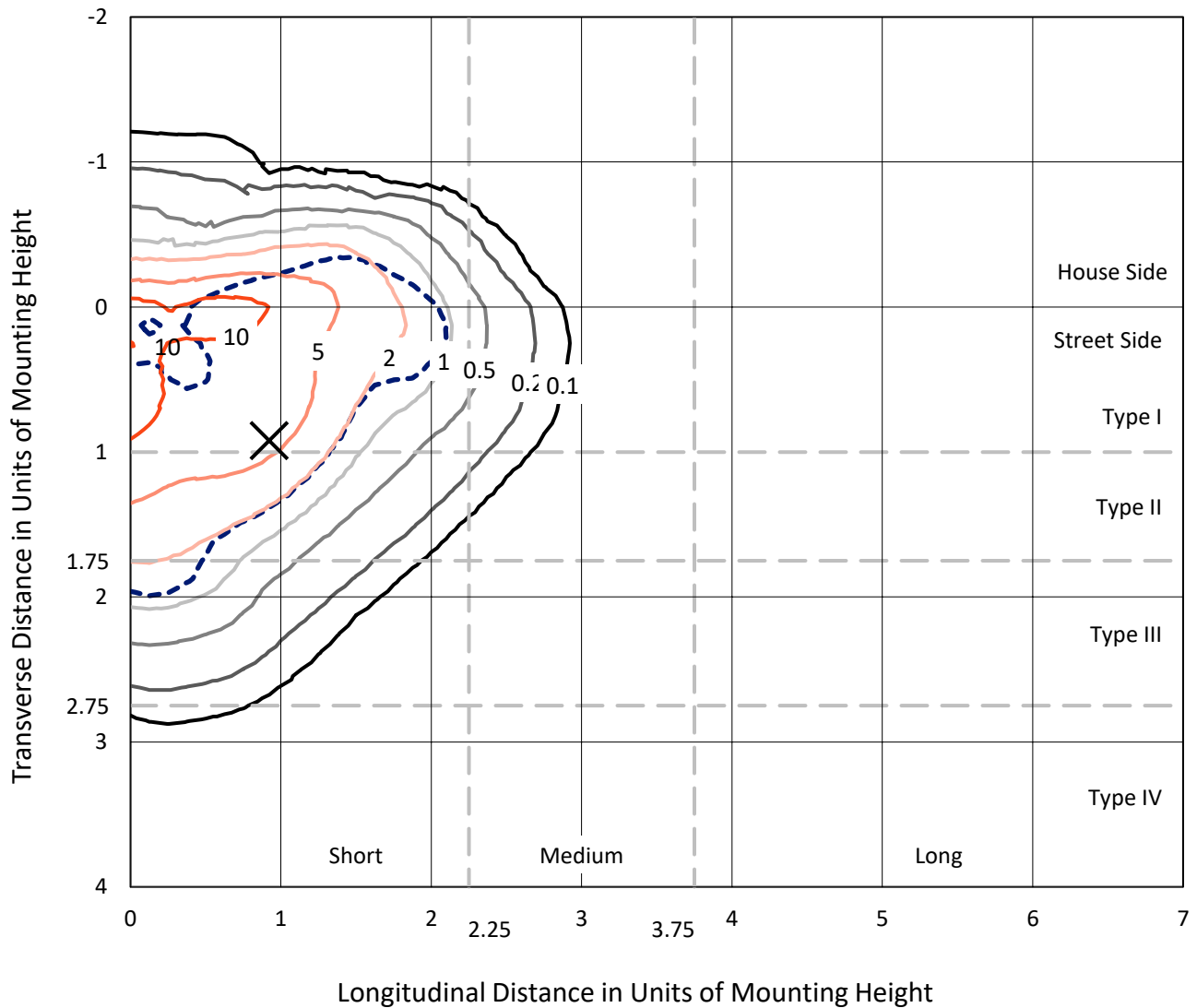
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

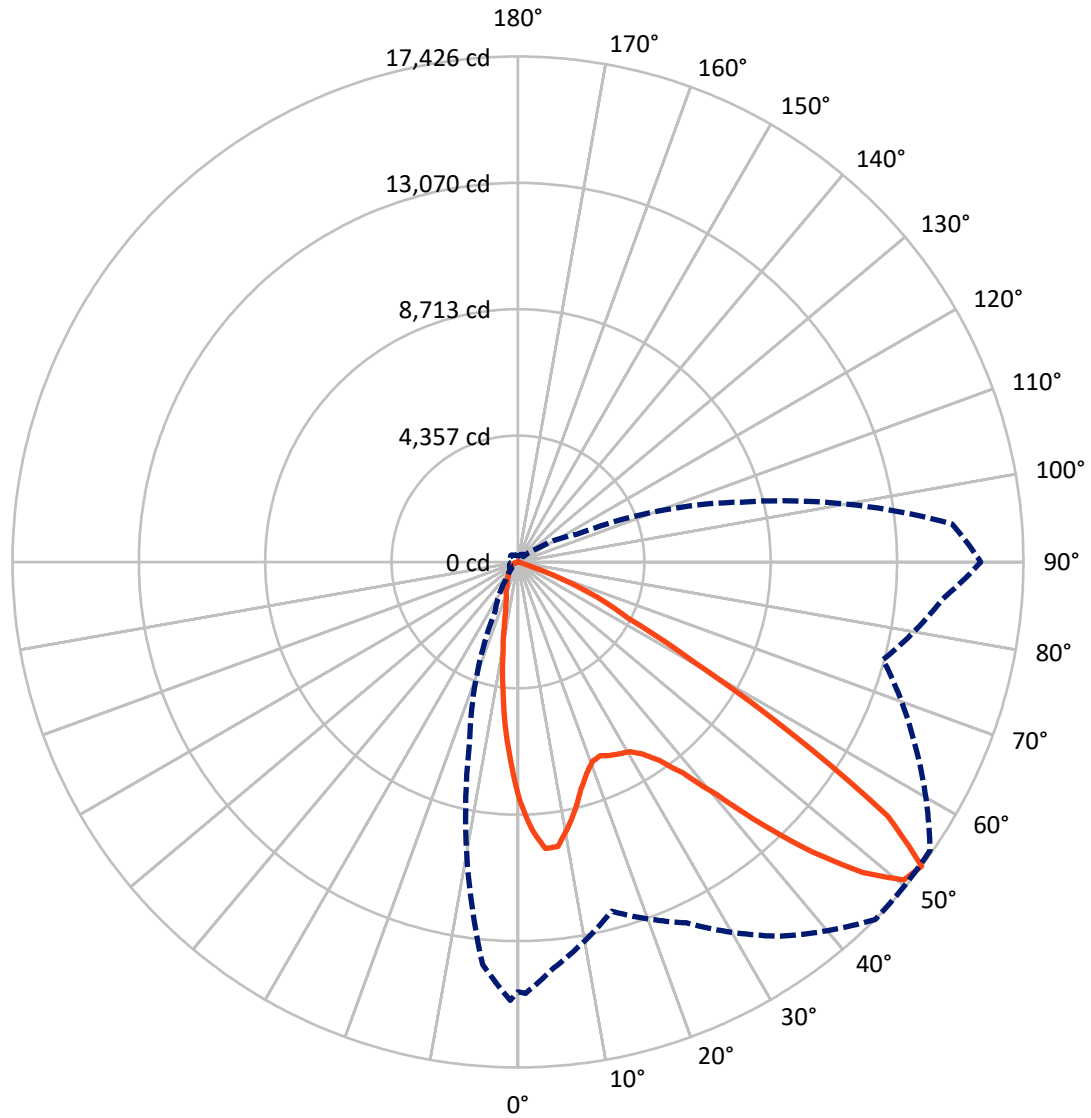
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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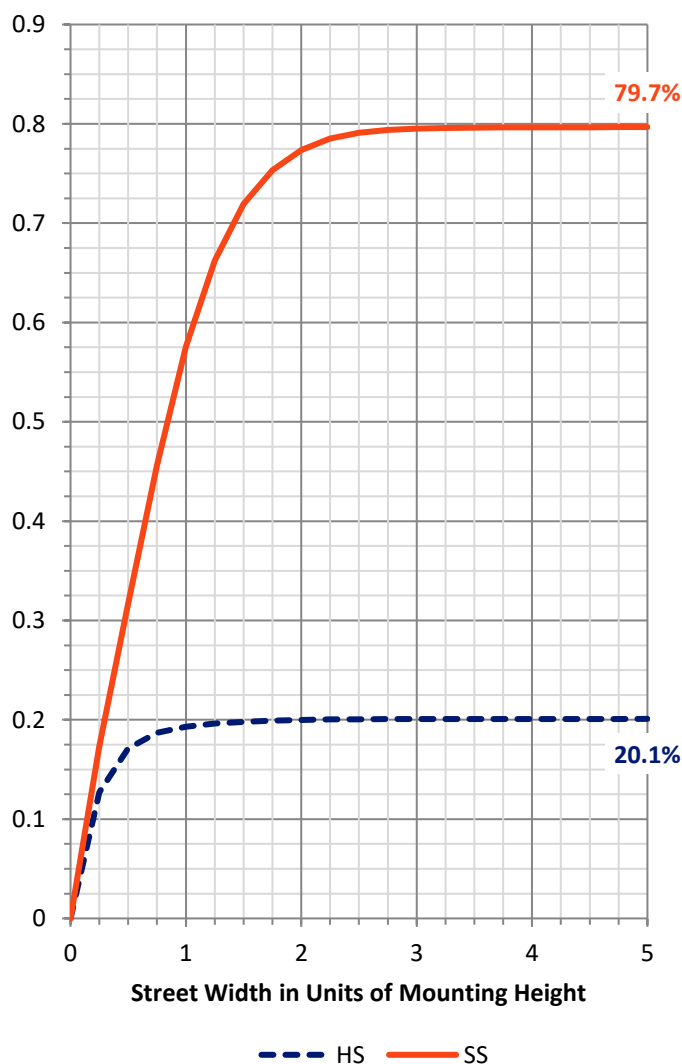
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3303.6	0.0	3303.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12974.4	0.0	12974.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	16278.0	0.0	16278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.9	3.7
10°-20°	1187.6	7.3
20°-30°	1807.3	11.1
30°-40°	2701.2	16.6
40°-50°	3846.8	23.6
50°-60°	4135.2	25.4
60°-70°	1832.4	11.3
70°-80°	148.2	0.9
80°-90°	17.3	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°	16278.0	100.0
0°-180°	16278.0	100.0

Coefficient of Utilization

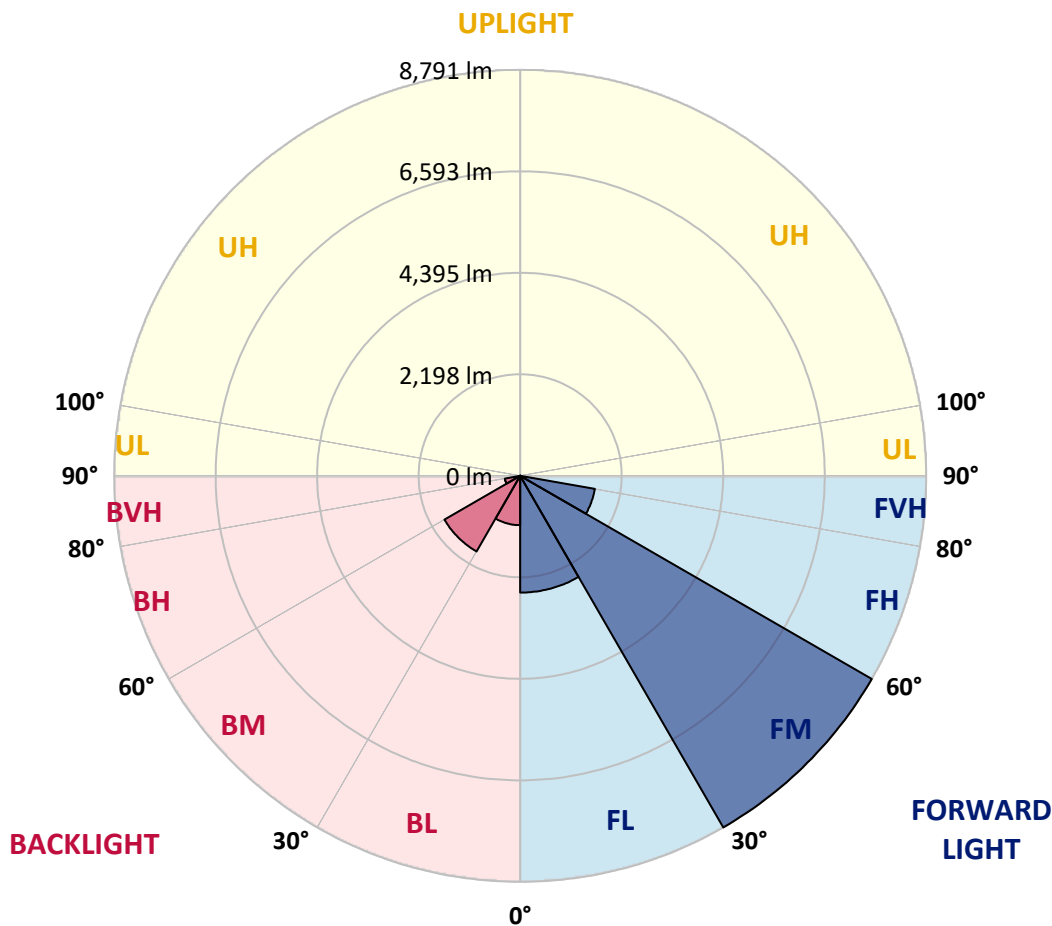


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2528.3	15.5			
FM (30°-60°)	8790.6	54.0			
FH (60°-80°)	1642.6	10.1			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1068.5	6.6	B3/2500		
BM (30°-60°)	1892.6	11.6	B2/2500		
BH (60°-80°)	338.0	2.1	B1/500		G1/500
BVH (80°-90°)	4.5	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7
2.5°	8733.9	8759.6	8900.4	9076.5	9169.4	9380.7	9233.4	9271.8	9191.8	8910.0	8689.1
5°	8468.2	8465.0	8644.3	9079.7	9492.7	9912.1	9924.9	9700.8	9307.0	8874.8	8256.9
7.5°	7667.8	7792.7	7978.4	8673.1	9438.3	9752.0	9902.5	9640.0	9034.9	8417.0	7747.9
10°	7062.7	7126.7	7440.5	8279.3	8839.6	9259.0	9351.8	9201.4	8737.1	7965.6	7216.4
12.5°	6713.7	6745.8	7113.9	7818.3	8410.6	8721.1	8766.0	8836.4	8503.4	7779.9	6880.2
15°	6716.9	6742.6	7238.8	7827.9	8061.6	7978.4	8125.6	8122.4	8266.5	7744.6	7162.0
17.5°	7200.4	7229.2	7677.4	7968.8	7866.3	7671.0	7661.4	7808.7	8112.8	8183.3	7587.8
20°	8032.8	8100.0	8429.8	8413.8	7837.5	7443.7	7334.8	7446.9	8154.5	8554.7	8445.8
22.5°	9153.3	9246.2	9476.7	9034.9	7968.8	7290.0	7254.8	7472.5	8429.8	9383.9	9419.1
25°	10453.2	10610.1	10722.1	10155.4	8436.2	7555.8	7389.3	7763.9	8801.2	10283.5	10658.1
27.5°	11314.4	11477.7	11452.1	10642.1	8749.9	7626.2	7485.3	7834.3	9124.5	10498.0	11304.8
30°	11986.8	12086.0	12265.3	10904.6	9063.7	7824.7	7584.6	8132.0	9230.2	10869.4	12086.0
32.5°	12771.1	12838.4	12851.2	11368.9	9547.1	8074.4	7891.9	8503.4	9697.6	11224.8	12777.6
35°	13561.9	13661.2	13453.1	11941.9	9844.9	8538.6	8404.2	9146.9	10072.2	11593.0	13539.5
37.5°	14420.0	14471.2	13991.0	12178.9	10270.7	9294.2	9220.6	9841.7	10722.1	12258.9	14384.8
40°	15140.3	15188.3	14564.0	12470.2	10718.9	10350.7	10539.6	11167.2	11605.8	12691.1	14807.4
42.5°	15540.5	15652.6	14756.1	12310.1	11618.6	11548.1	12387.0	12607.9	12630.3	12812.8	15185.1
45°	15649.4	15598.2	14439.2	12441.4	12406.2	13517.1	14279.1	14570.4	13648.4	13036.9	15281.2
47.5°	15146.7	15214.0	13971.7	12326.1	13440.3	15009.1	15995.2	16536.2	14407.2	12841.6	15044.3
50°	14740.1	14653.7	13821.3	12242.9	13718.8	15713.4	17234.2	17355.8	15105.1	13081.7	14784.9
52.5°	14820.2	14874.6	14061.4	12463.8	13725.2	15755.0	17426.3	17343.0	15127.5	13027.3	14692.1
55°	14989.9	14749.7	13958.9	11977.2	12806.4	14592.9	15466.9	15338.8	13962.1	12447.8	14464.8
57.5°	12934.4	13305.8	12835.2	10693.3	10510.8	10994.3	10978.3	11372.1	10414.8	10712.5	13168.1
60°	10498.0	10562.1	10738.1	9146.9	7274.0	7107.5	6877.0	6627.3	7008.3	9159.8	11977.2
62.5°	9233.4	9156.6	9784.1	8320.9	5135.4	4299.7	4261.3	4415.0	5407.5	8737.1	11234.4
65°	6710.5	6806.6	7261.2	6457.6	3854.7	3281.6	3224.0	3678.6	4376.6	7001.9	8573.9
67.5°	4098.0	4283.7	4325.3	3982.8	2615.7	2077.8	1994.6	2407.6	3160.0	4530.3	5026.5
70°	1892.1	2116.3	2327.6	2173.9	1514.4	854.8	806.8	1011.7	1594.4	2606.1	2666.9
72.5°	573.1	576.3	806.8	842.0	489.8	192.1	169.7	224.1	541.1	861.2	906.1
75°	41.6	44.8	108.9	124.9	92.8	48.0	51.2	60.8	115.3	192.1	144.1
77.5°	3.2	3.2	3.2	16.0	28.8	32.0	41.6	48.0	60.8	70.4	64.0
80°	3.2	0.0	3.2	12.8	22.4	32.0	38.4	44.8	48.0	54.4	48.0
82.5°	0.0	0.0	0.0	9.6	22.4	32.0	35.2	48.0	54.4	64.0	54.4
85°	0.0	0.0	0.0	9.6	22.4	35.2	32.0	16.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7
2.5°	8727.5	8602.7	8317.7	8173.7	7834.3	7786.3	7453.3	7398.9	7286.8	7226.0	7078.7
5°	7984.8	7834.3	7370.1	6979.5	6524.8	6207.9	5964.6	5743.7	5615.6	5497.1	5551.6
7.5°	7379.7	6941.1	6425.6	5772.5	5247.4	4908.0	4536.7	4232.5	4053.2	3931.6	3960.4
10°	6745.8	6460.8	5743.7	5010.5	4376.6	4136.5	3845.1	3611.4	3358.5	3140.8	3038.3
12.5°	6547.3	6124.6	5225.0	4479.0	3998.8	3765.1	3432.1	3163.2	2839.8	2574.1	2481.2
15°	6582.5	6175.9	5084.1	4286.9	3720.2	3316.8	2919.9	2586.9	2231.5	2045.8	1949.8
17.5°	7155.6	6451.2	5177.0	4085.2	3332.9	2772.6	2282.7	1860.1	1594.4	1402.3	1360.7
20°	7859.9	7046.7	5375.5	3938.0	3015.9	2205.9	1668.0	1303.0	1082.1	1050.1	1040.5
22.5°	8890.8	8020.0	5801.3	3838.7	2628.5	1719.3	1143.0	947.7	886.8	880.4	883.6
25°	10331.5	9239.8	6265.5	3755.5	2337.2	1325.5	934.9	803.6	784.4	774.8	790.8
27.5°	10955.8	9976.2	6512.0	3576.2	2071.4	1194.2	922.1	797.2	742.8	726.8	736.4
30°	11727.4	10466.0	6899.4	3268.8	1680.8	982.9	861.2	867.6	842.0	762.0	736.4
32.5°	12751.9	11077.5	7094.7	3051.1	1501.5	813.2	630.7	579.5	646.7	659.5	681.9
35°	13408.3	11698.6	7194.0	2923.1	1408.7	694.7	534.7	486.6	470.6	473.8	486.6
37.5°	14628.1	12537.4	7318.8	2788.6	1338.3	605.1	483.4	438.6	416.2	416.2	429.0
40°	15358.0	13203.4	7488.5	2714.9	1267.8	550.7	438.6	400.2	381.0	381.0	387.4
42.5°	15540.5	13533.1	7430.9	2689.3	1187.8	537.9	400.2	371.4	349.0	345.8	342.6
45°	15867.1	14035.8	7440.5	2660.5	1104.5	489.8	377.8	345.8	313.8	310.6	307.4
47.5°	16225.7	14397.6	7459.7	2548.5	1024.5	409.8	393.8	320.2	281.7	275.3	275.3
50°	15918.3	14685.7	7626.2	2436.4	922.1	333.0	387.4	300.9	249.7	240.1	243.3
52.5°	15956.7	15025.1	7978.4	2279.5	794.0	265.7	313.8	284.9	227.3	211.3	214.5
55°	15342.0	14666.5	8026.4	2113.1	621.1	204.9	240.1	249.7	192.1	185.7	185.7
57.5°	13206.6	12419.0	7081.9	1712.9	409.8	169.7	172.9	217.7	166.5	160.1	163.3
60°	11301.6	9969.8	5698.8	1130.2	256.1	134.5	124.9	220.9	147.3	144.1	153.7
62.5°	10302.7	8192.9	4322.1	701.1	176.1	102.5	86.4	179.3	128.1	128.1	140.9
65°	7443.7	5503.5	2513.2	368.2	124.9	80.0	64.0	102.5	105.7	108.9	115.3
67.5°	4610.3	2779.0	1059.7	179.3	83.2	54.4	41.6	64.0	70.4	70.4	76.8
70°	2276.3	1107.8	352.2	102.5	64.0	44.8	28.8	35.2	35.2	32.0	35.2
72.5°	704.4	333.0	89.6	64.0	44.8	28.8	16.0	12.8	6.4	0.0	3.2
75°	80.0	64.0	57.6	44.8	28.8	12.8	3.2	0.0	0.0	0.0	0.0
77.5°	48.0	54.4	54.4	44.8	28.8	9.6	0.0	0.0	0.0	0.0	0.0
80°	38.4	41.6	44.8	41.6	25.6	12.8	0.0	0.0	0.0	0.0	0.0
82.5°	48.0	54.4	60.8	54.4	35.2	16.0	6.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.6	3.2	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°	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7
2.5°	7017.9	6947.5	7046.7	6899.4	6896.2	6899.4	6857.8	6819.4	6880.2	7043.5	7059.5
5°	5356.3	5506.7	5554.8	5711.6	5625.2	5497.1	5522.7	5436.3	5647.6	5740.5	5666.8
7.5°	3899.5	3889.9	4213.3	4232.5	4274.1	4277.3	4270.9	4101.2	3928.4	3966.8	4082.0
10°	3025.5	2862.2	3019.1	3003.1	3105.5	3076.7	3118.4	2935.9	2996.7	2996.7	3070.3
12.5°	2465.2	2292.3	2263.5	2221.9	2263.5	2279.5	2295.5	2260.3	2362.8	2410.8	2462.0
15°	1882.5	1786.5	1760.9	1680.8	1693.6	1738.5	1776.9	1792.9	1760.9	1834.5	1840.9
17.5°	1367.1	1363.9	1379.9	1376.7	1363.9	1354.3	1351.1	1309.5	1296.6	1303.0	1328.7
20°	1037.3	1062.9	1117.4	1171.8	1200.6	1165.4	1117.4	1046.9	1018.1	1024.5	1027.7
22.5°	886.8	925.3	998.9	1059.7	1088.5	1024.5	938.1	877.2	864.4	861.2	858.0
25°	803.6	848.4	902.8	922.1	918.9	880.4	816.4	790.8	784.4	778.0	749.2
27.5°	758.8	774.8	784.4	806.8	816.4	790.8	774.8	736.4	730.0	730.0	710.8
30°	733.2	723.6	736.4	720.4	733.2	714.0	717.2	717.2	701.1	707.6	707.6
32.5°	681.9	685.1	685.1	653.1	662.7	640.3	662.7	681.9	685.1	688.3	714.0
35°	499.4	557.1	585.9	585.9	595.5	579.5	576.3	553.9	525.1	496.2	483.4
37.5°	438.6	461.0	499.4	521.9	537.9	525.1	496.2	461.0	445.0	432.2	419.4
40°	390.6	409.8	435.4	461.0	493.0	477.0	432.2	416.2	397.0	397.0	384.2
42.5°	352.2	361.8	377.8	416.2	451.4	419.4	387.4	374.6	365.0	361.8	358.6
45°	317.0	320.2	336.2	368.2	409.8	377.8	345.8	329.8	333.0	336.2	333.0
47.5°	284.9	291.3	300.9	339.4	365.0	349.0	313.8	304.2	304.2	304.2	307.4
50°	246.5	262.5	281.7	313.8	333.0	323.4	294.5	281.7	275.3	275.3	278.5
52.5°	220.9	233.7	259.3	297.7	323.4	307.4	278.5	259.3	246.5	243.3	249.7
55°	192.1	214.5	256.1	284.9	320.2	304.2	272.1	249.7	227.3	224.1	224.1
57.5°	172.9	208.1	246.5	281.7	310.6	297.7	272.1	243.3	214.5	211.3	211.3
60°	163.3	201.7	240.1	272.1	310.6	291.3	268.9	236.9	204.9	204.9	201.7
62.5°	153.7	188.9	227.3	259.3	297.7	281.7	259.3	227.3	195.3	195.3	188.9
65°	128.1	163.3	188.9	217.7	259.3	243.3	220.9	198.5	172.9	166.5	169.7
67.5°	89.6	112.1	137.7	166.5	192.1	185.7	176.1	160.1	137.7	134.5	131.3
70°	44.8	60.8	83.2	112.1	134.5	128.1	121.7	108.9	96.0	92.8	92.8
72.5°	6.4	19.2	35.2	51.2	70.4	73.6	70.4	67.2	64.0	60.8	64.0
75°	0.0	0.0	0.0	12.8	28.8	35.2	41.6	48.0	48.0	41.6	51.2
77.5°	0.0	0.0	0.0	0.0	3.2	16.0	32.0	41.6	51.2	44.8	60.8
80°	0.0	0.0	0.0	0.0	3.2	19.2	32.0	44.8	51.2	44.8	64.0
82.5°	0.0	0.0	0.0	0.0	3.2	22.4	32.0	41.6	48.0	44.8	57.6
85°	0.0	0.0	0.0	0.0	9.6	19.2	12.8	6.4	3.2	3.2	9.6
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: P530263
 CATALOG NUMBER: GALN-SA5C-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7	8253.7
2.5°	7149.2	7376.5	7619.8	7712.6	8000.8	8218.5	8365.8	8682.7	8730.7	8733.9
5°	5743.7	5858.9	6275.1	6470.4	6899.4	7232.4	7587.8	8100.0	8442.6	8468.2
7.5°	4082.0	4402.2	4578.3	5087.3	5615.6	6137.5	6665.7	7261.2	7658.2	7667.8
10°	3284.8	3492.9	3806.7	4187.7	4632.7	5164.2	5868.5	6560.1	6963.5	7062.7
12.5°	2644.5	3009.5	3368.1	3761.9	4101.2	4501.4	5260.2	6182.3	6515.2	6713.7
15°	2036.2	2369.2	2791.8	3252.8	3637.0	4171.7	5036.1	6089.4	6649.7	6716.9
17.5°	1501.5	1799.3	2189.9	2625.3	3201.6	3960.4	5074.5	6560.1	7088.3	7200.4
20°	1078.9	1251.8	1559.2	2065.0	2798.2	3713.8	5112.9	7037.1	7840.7	8032.8
22.5°	854.8	925.3	1127.0	1575.2	2346.8	3454.5	5385.1	7949.6	8874.8	9153.3
25°	742.8	781.2	877.2	1242.2	2061.8	3428.9	5820.5	9044.5	10251.5	10453.2
27.5°	717.2	723.6	806.8	1139.8	1908.1	3259.2	5987.0	9822.5	11109.5	11314.4
30°	755.6	858.0	864.4	963.7	1623.2	2923.1	6073.4	10574.9	11836.3	11986.8
32.5°	653.1	621.1	643.5	746.0	1427.9	2727.8	6236.7	11231.2	12665.5	12771.1
35°	454.6	477.0	528.3	646.7	1248.6	2522.9	6278.3	11954.7	13453.1	13561.9
37.5°	419.4	432.2	473.8	550.7	1098.1	2407.6	6220.7	12483.0	14269.5	14420.0
40°	390.6	406.6	429.0	499.4	986.1	2279.5	6140.7	12960.0	14768.9	15140.3
42.5°	368.2	381.0	400.2	477.0	890.0	2151.5	6028.6	13632.4	15217.2	15540.5
45°	342.6	361.8	384.2	464.2	835.6	2065.0	5945.4	13590.8	15476.5	15649.4
47.5°	317.0	349.0	374.6	432.2	819.6	2023.4	5980.6	13433.9	15265.2	15146.7
50°	291.3	333.0	377.8	358.6	781.2	1940.2	6022.2	13648.4	14762.5	14740.1
52.5°	268.9	317.0	352.2	294.5	694.7	1860.1	6425.6	13930.1	15117.9	14820.2
55°	236.9	284.9	281.7	236.9	563.5	1799.3	6742.6	13936.5	14877.8	14989.9
57.5°	214.5	252.9	220.9	198.5	416.2	1504.7	6227.1	11685.8	12735.9	12934.4
60°	198.5	246.5	166.5	156.9	272.1	1085.3	5436.3	9050.9	10123.4	10498.0
62.5°	182.5	233.7	131.3	128.1	188.9	771.6	4469.4	7575.0	8724.3	9233.4
65°	160.1	166.5	105.7	99.2	134.5	416.2	2721.4	5215.4	6521.6	6710.5
67.5°	131.3	128.1	86.4	80.0	89.6	201.7	1200.6	2612.5	3781.1	4098.0
70°	105.7	105.7	73.6	64.0	64.0	92.8	313.8	1040.5	1709.6	1892.1
72.5°	76.8	80.0	57.6	51.2	48.0	44.8	51.2	208.1	448.2	573.1
75°	67.2	70.4	57.6	44.8	35.2	28.8	22.4	19.2	25.6	41.6
77.5°	73.6	73.6	60.8	41.6	32.0	22.4	12.8	6.4	6.4	3.2
80°	92.8	96.0	80.0	54.4	38.4	25.6	16.0	6.4	3.2	3.2
82.5°	99.2	108.9	89.6	67.2	48.0	28.8	16.0	3.2	0.0	0.0
85°	25.6	41.6	70.4	60.8	48.0	28.8	16.0	3.2	0.0	0.0
87.5°	0.0	3.2	9.6	9.6	12.8	12.8	9.6	3.2	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)