

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: P457164

Luminaire Tested: **GALN-SA8C-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34096 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 429
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

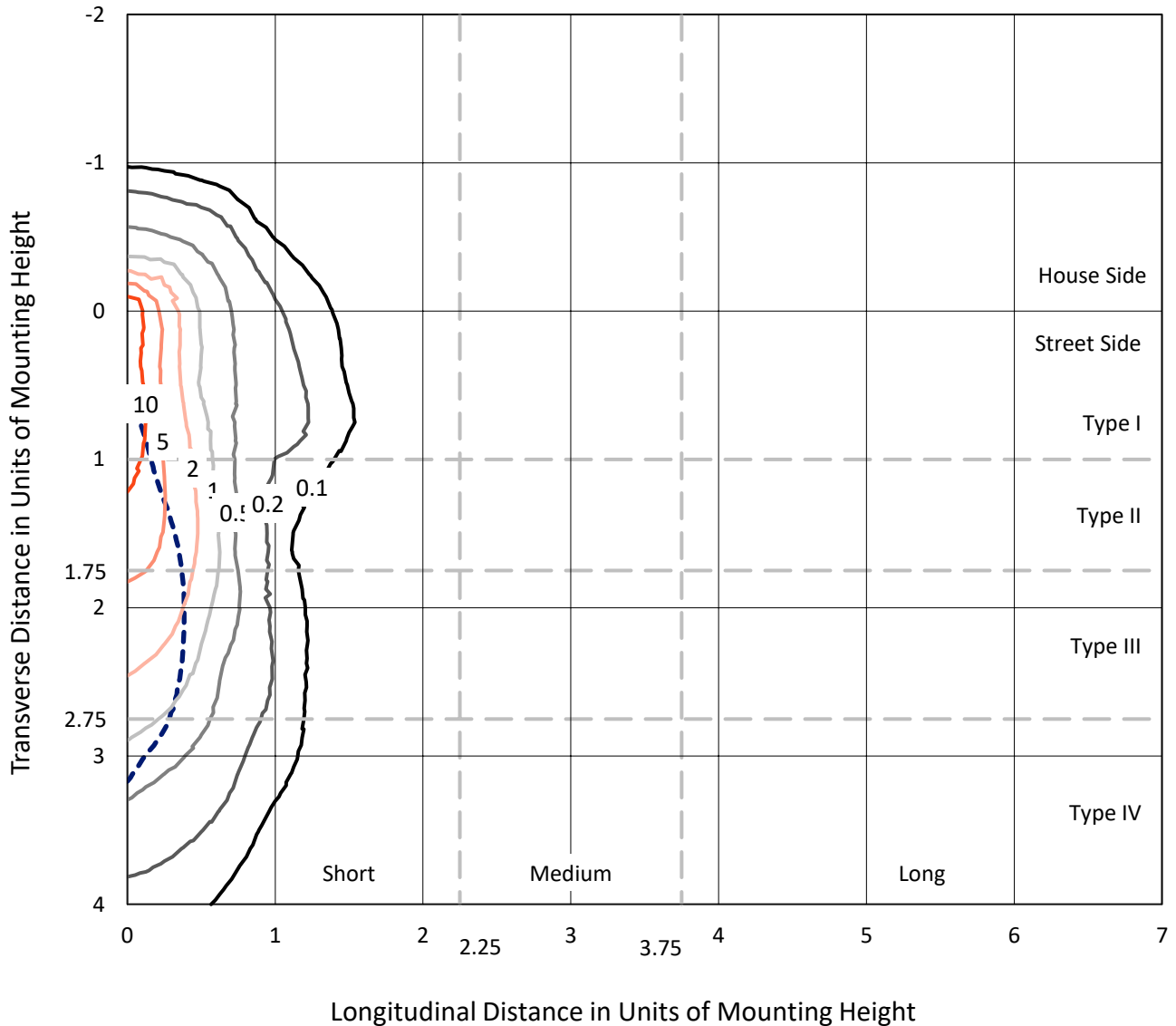




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Iso-Footcandle Lines of Horizontal Illumination

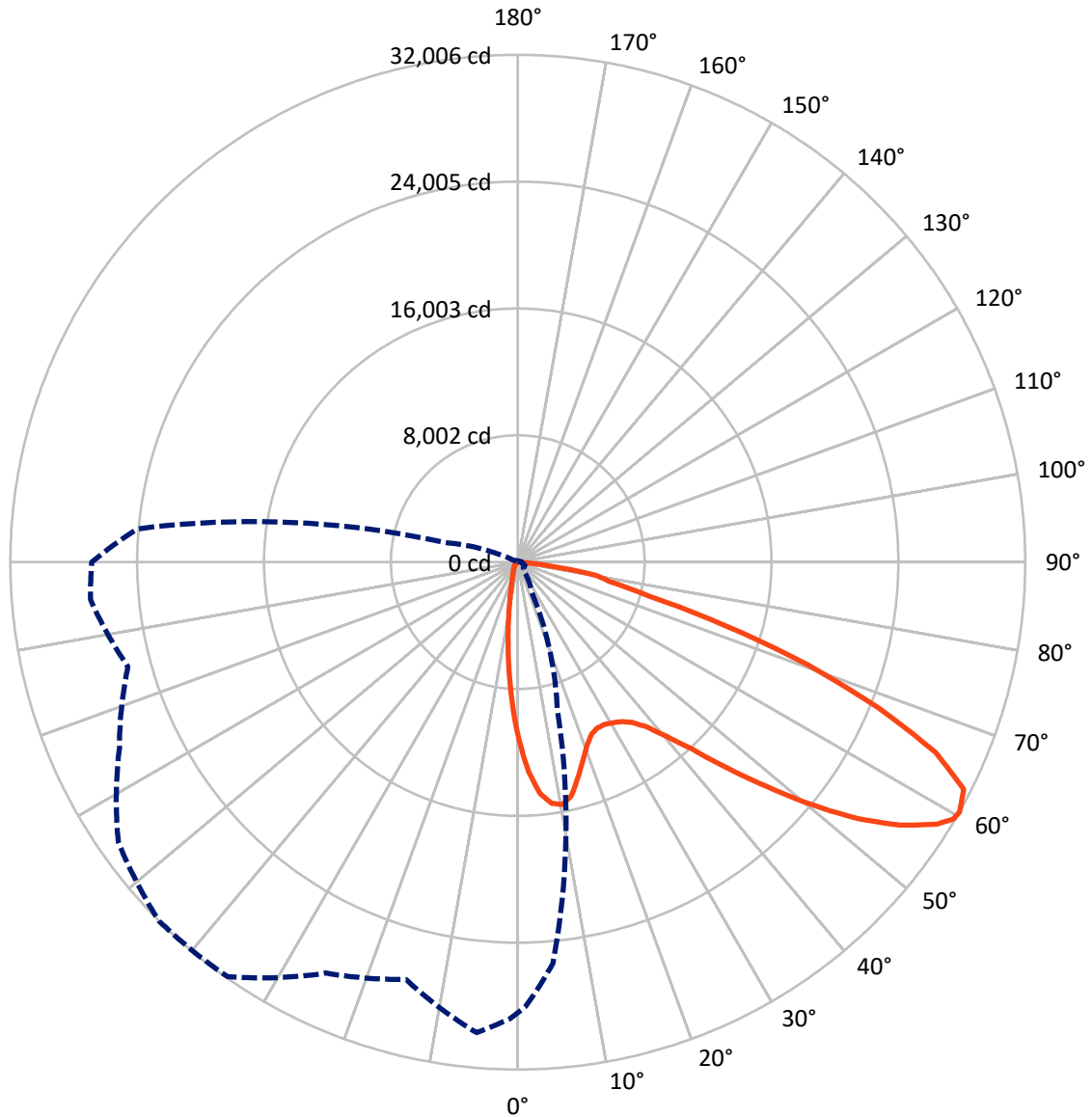
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4205.4	0.0	4205.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	29890.6	0.0	29890.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	34096.0	0.0	34096.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.2	2.5
10°-20°	1664.6	4.9
20°-30°	2440.8	7.2
30°-40°	3629.8	10.6
40°-50°	5282.5	15.5
50°-60°	7617.8	22.3
60°-70°	8378.8	24.6
70°-80°	3753.0	11.0
80°-90°	490.4	1.4
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°	34096.0	100.0
0°-180°	34096.0	100.0



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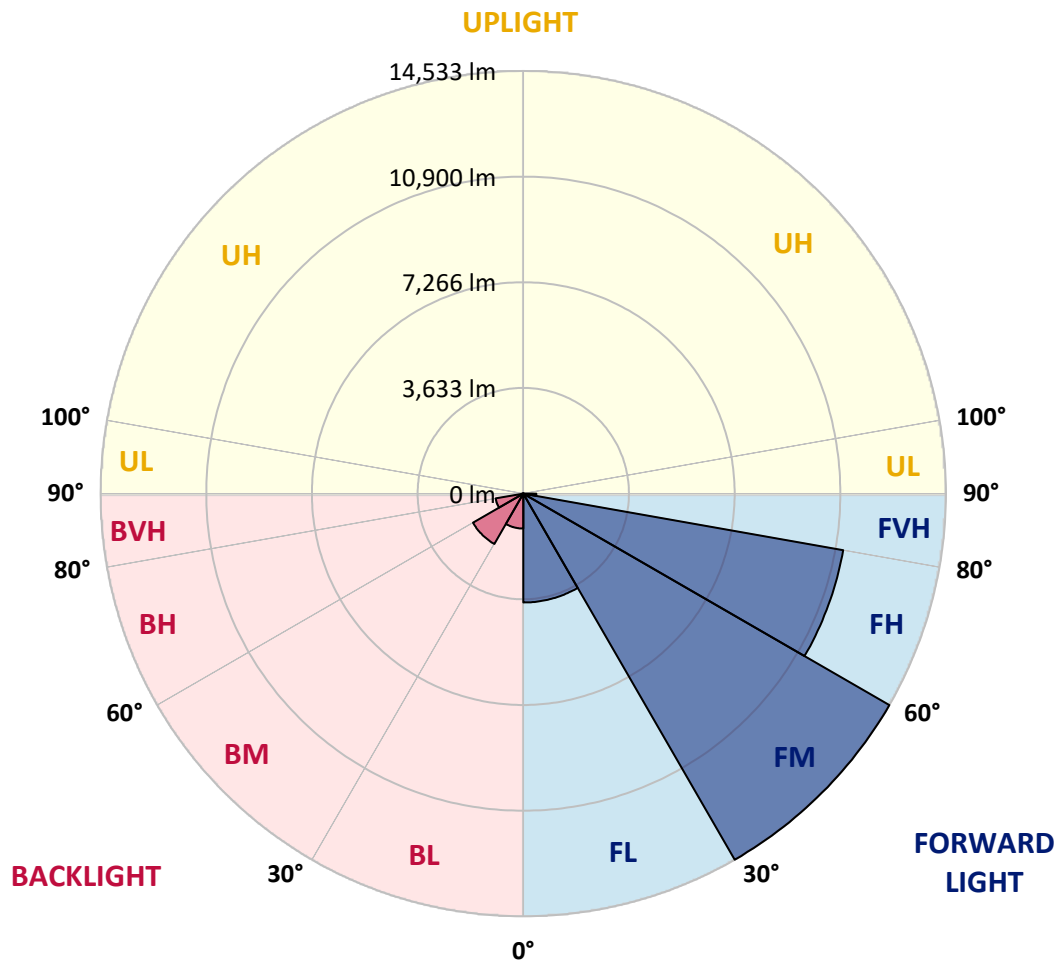
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3741.9	11.0			
FM	(30°-60°)	14532.8	42.6			
FH	(60°-80°)	11167.4	32.8			G4/12000
FVH	(80°-90°)	448.5	1.3			G3/500
BL	(0°-30°)	1201.6	3.5	B3/2500		
BM	(30°-60°)	1997.5	5.9	B2/2500		
BH	(60°-80°)	964.4	2.8	B2/1000		G2/1000
BVH	(80°-90°)	41.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2
2.5°	12388.9	12334.5	12210.0	11831.6	11502.5	11072.2	10636.8	10294.7	10084.8	9698.6	9522.3
5°	12002.7	12028.6	11668.4	10890.8	10025.1	9434.2	8788.8	8275.7	7710.7	7353.0	6977.2
7.5°	10994.5	10942.6	10551.3	9467.9	8415.6	7560.3	6743.9	6080.4	5663.1	5328.8	5048.9
10°	10131.4	10092.5	9592.3	8197.9	7067.9	6427.7	5875.6	5295.1	4846.7	4356.8	3965.5
12.5°	9589.7	9501.6	8926.2	7469.6	6549.5	5953.4	5352.1	4748.2	4128.8	3633.7	3159.4
15°	9408.3	9281.3	8641.1	7218.2	6217.8	5461.0	4706.7	4012.1	3299.4	2752.5	2394.8
17.5°	9737.5	9527.5	8845.9	7174.1	5821.2	4818.2	3890.3	2985.8	2244.5	1827.2	1606.9
20°	10491.7	10250.6	9364.2	7130.1	5380.6	4097.7	2957.3	2109.7	1552.5	1324.4	1202.6
22.5°	11611.3	11279.6	10131.4	7200.1	4973.7	3395.3	2135.7	1490.3	1233.7	1091.2	1005.6
25°	12956.5	12679.2	11103.3	7448.9	4652.3	2843.2	1651.0	1218.2	1039.3	951.2	886.4
27.5°	14431.2	13988.0	12360.4	7746.9	4359.4	2415.6	1448.8	1088.6	925.3	844.9	811.2
30°	15480.9	15136.2	13412.6	7954.3	3994.0	2094.2	1324.4	1073.0	927.9	832.0	769.8
32.5°	16517.6	16077.0	14293.9	8050.2	3727.0	1871.3	1145.6	935.6	813.8	764.6	702.4
35°	17626.9	17165.6	15172.5	7998.3	3527.5	1723.6	1039.3	834.6	697.2	614.3	552.1
37.5°	18749.2	18261.9	16045.9	7811.7	3403.1	1663.9	956.4	793.1	658.3	572.8	505.4
40°	20081.4	19430.8	16864.9	7658.8	3273.5	1632.8	902.0	767.2	629.8	539.1	471.7
42.5°	21170.0	20550.5	17639.9	7578.5	3185.3	1560.3	902.0	746.4	611.7	510.6	440.6
45°	22201.5	21558.7	18477.1	7643.3	3149.1	1469.6	912.3	743.9	598.7	489.9	419.9
47.5°	23064.6	22507.3	19337.5	7886.9	3102.4	1371.1	857.9	780.1	590.9	471.7	399.1
50°	24083.2	23544.1	20475.3	8379.3	3019.5	1272.6	790.5	839.7	588.3	456.2	381.0
52.5°	25519.0	24935.9	22046.0	8939.2	2887.3	1122.3	728.3	832.0	578.0	430.2	362.9
55°	27273.7	26802.0	23865.4	9610.5	2705.9	953.8	629.8	738.7	546.9	386.2	331.8
57.5°	28398.5	27996.8	25228.7	9900.7	2428.5	780.1	554.6	619.4	500.2	344.7	295.5
59°	28530.7	28167.9	25513.8	9804.8	2247.1	712.7	518.4	531.3	487.3	321.4	274.7
60°	28419.3	28043.4	25399.8	9618.2	2078.6	666.1	487.3	471.7	489.9	308.4	259.2
62.5°	27703.9	27061.1	24293.1	8672.2	1816.9	611.7	432.8	386.2	432.8	277.3	230.7
65°	26322.5	25358.3	22103.0	7340.0	1713.2	580.6	368.0	324.0	329.2	243.6	199.6
67.5°	23909.5	22693.9	19187.2	5963.8	1669.1	583.2	311.0	290.3	254.0	207.3	176.2
70°	20094.3	18881.4	15395.4	4906.3	1648.4	583.2	264.4	248.8	212.5	173.7	152.9
72.5°	14239.4	12933.2	10385.4	3854.0	1485.1	580.6	225.5	225.5	173.7	145.1	124.4
75°	8045.0	8055.4	6528.8	2726.6	1233.7	479.5	181.4	178.8	127.0	111.4	93.3
77.5°	4688.6	4605.7	4400.9	1171.5	572.8	217.7	127.0	108.9	88.1	80.3	67.4
80°	2410.4	1982.7	1930.9	425.1	204.8	137.4	88.1	62.2	57.0	51.8	46.7
82.5°	712.7	715.3	637.6	171.1	114.0	90.7	44.1	33.7	31.1	28.5	28.5
85°	49.2	31.1	36.3	51.8	70.0	36.3	2.6	7.8	7.8	10.4	13.0
87.5°	5.2	2.6	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°	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2
2.5°	9327.9	9442.0	9229.5	9234.6	9058.4	9115.4	8908.1	8975.5	8853.6	8946.9	9221.7
5°	7018.6	7044.6	6873.5	6819.1	6845.0	6951.3	6992.7	6803.5	6883.9	6725.8	6715.4
7.5°	4945.2	4976.3	4877.8	4864.8	5051.4	5007.4	5087.7	4893.3	4709.3	4789.7	4641.9
10°	3841.1	3711.5	3509.3	3452.3	3416.0	3439.3	3439.3	3263.1	3237.2	3167.2	3273.5
12.5°	3032.4	2874.3	2682.5	2423.3	2358.6	2353.4	2257.5	2102.0	2052.7	1993.1	2081.2
15°	2203.0	2138.2	1977.6	1832.4	1684.7	1656.2	1500.7	1373.7	1205.2	1181.9	1174.1
17.5°	1549.9	1454.0	1451.4	1368.5	1282.9	1225.9	1080.8	935.6	870.9	863.1	863.1
20°	1161.1	1127.4	1073.0	1062.6	1036.7	971.9	842.3	764.6	733.5	736.1	746.4
22.5°	977.1	953.8	904.5	881.2	870.9	813.8	717.9	666.1	650.5	650.5	653.1
25°	873.4	852.7	798.3	762.0	749.0	707.6	632.4	593.5	580.6	580.6	580.6
27.5°	795.7	769.8	712.7	681.6	658.3	611.7	565.0	526.1	513.2	513.2	515.8
30°	741.3	712.7	660.9	619.4	583.2	541.7	502.8	469.1	453.6	451.0	453.6
32.5°	668.7	642.8	590.9	565.0	523.5	474.3	443.2	412.1	396.5	399.1	396.5
35°	521.0	513.2	476.9	484.7	461.3	419.9	391.4	357.7	339.5	336.9	342.1
37.5°	474.3	443.2	401.7	404.3	396.5	381.0	334.3	298.1	285.1	285.1	287.7
40°	438.0	406.9	360.3	336.9	339.5	339.5	290.3	251.4	238.4	235.9	241.0
42.5°	406.9	375.8	324.0	285.1	274.7	287.7	246.2	207.3	194.4	189.2	194.4
45°	386.2	352.5	292.9	248.8	217.7	233.3	202.2	171.1	155.5	155.5	152.9
47.5°	365.4	334.3	269.5	215.1	181.4	173.7	165.9	137.4	121.8	119.2	121.8
50°	347.3	316.2	243.6	186.6	152.9	134.8	134.8	108.9	98.5	93.3	95.9
52.5°	329.2	295.5	220.3	165.9	132.2	108.9	95.9	88.1	80.3	77.8	80.3
55°	303.2	269.5	197.0	142.5	114.0	90.7	75.2	72.6	67.4	62.2	67.4
57.5°	272.1	241.0	173.7	121.8	90.7	70.0	62.2	59.6	54.4	51.8	51.8
59°	254.0	225.5	160.7	106.3	80.3	62.2	57.0	54.4	49.2	44.1	46.7
60°	243.6	220.3	152.9	98.5	72.6	57.0	51.8	49.2	44.1	41.5	44.1
62.5°	215.1	197.0	134.8	80.3	57.0	41.5	36.3	38.9	36.3	33.7	36.3
65°	189.2	173.7	114.0	62.2	44.1	28.5	25.9	33.7	31.1	28.5	31.1
67.5°	168.5	150.3	95.9	46.7	31.1	15.6	18.1	28.5	28.5	25.9	28.5
70°	145.1	129.6	77.8	33.7	15.6	7.8	13.0	20.7	25.9	23.3	25.9
72.5°	119.2	101.1	59.6	23.3	7.8	0.0	7.8	18.1	25.9	23.3	25.9
75°	93.3	75.2	44.1	13.0	0.0	0.0	2.6	15.6	25.9	23.3	25.9
77.5°	67.4	54.4	25.9	2.6	0.0	0.0	2.6	15.6	25.9	23.3	25.9
80°	44.1	38.9	10.4	0.0	0.0	0.0	2.6	15.6	25.9	25.9	28.5
82.5°	28.5	20.7	0.0	0.0	0.0	0.0	5.2	20.7	28.5	31.1	31.1
85°	13.0	0.0	0.0	0.0	0.0	0.0	10.4	25.9	33.7	33.7	33.7
87.5°	0.0	0.0	0.0	0.0	0.0	5.2	18.1	31.1	38.9	38.9	38.9
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°	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2
2.5°	9268.3	9431.6	9662.3	10017.4	10305.1	10758.6	11105.9	11580.2	12059.7	12204.9	12430.3
5°	6821.7	7031.6	7555.1	8032.0	8332.7	9291.7	9898.1	10854.5	11712.4	12124.5	12572.9
7.5°	4737.8	4986.7	5385.8	6051.9	6684.3	7464.4	8444.1	9537.9	10794.9	11383.3	12015.7
10°	3325.3	3636.3	4198.7	4745.6	5541.3	6282.6	7249.3	8457.1	9843.7	10538.3	11331.4
12.5°	2099.4	2376.7	3120.5	3734.8	4727.5	5588.0	6479.5	7573.3	9180.2	9893.0	10724.9
15°	1200.0	1433.3	1780.6	2568.5	3670.0	4807.8	5919.7	7189.7	8840.7	9719.3	10618.7
17.5°	894.2	956.4	1111.9	1557.7	2560.7	3890.3	5403.9	7073.1	9071.4	10102.9	11129.3
20°	751.6	793.1	865.7	1041.9	1632.8	2996.1	4901.1	7093.8	9817.8	11113.7	12088.2
22.5°	673.9	699.8	759.4	873.4	1114.5	2182.3	4312.8	7215.6	10722.3	12355.2	13480.0
25°	590.9	624.6	676.5	775.0	927.9	1513.6	3732.2	7487.8	11989.7	13931.0	14988.5
27.5°	526.1	557.2	609.1	699.8	813.8	1155.9	3055.8	7721.0	13327.1	15517.2	16382.9
30°	461.3	492.4	544.3	616.9	720.5	935.6	2327.5	7858.4	14625.6	16706.8	17372.9
32.5°	406.9	432.8	482.1	546.9	632.4	793.1	1835.0	7715.8	15618.3	17787.6	18233.4
35°	352.5	383.6	425.1	484.7	559.8	676.5	1526.6	7223.4	16471.0	18899.5	19060.2
37.5°	295.5	331.8	375.8	430.2	489.9	622.0	1225.9	6679.1	17383.3	20286.1	20021.8
40°	248.8	282.5	324.0	383.6	438.0	570.2	943.4	6098.5	18368.2	21587.2	21071.5
42.5°	202.2	238.4	287.7	342.1	432.8	497.6	730.9	5497.2	19252.0	22719.9	22020.1
45°	160.7	191.8	243.6	313.6	430.2	427.6	565.0	4903.7	19918.1	23528.5	22727.6
47.5°	127.0	152.9	204.8	305.8	396.5	362.9	453.6	4535.7	20617.9	24256.8	23269.3
50°	101.1	127.0	176.2	318.8	347.3	311.0	381.0	4595.3	21294.4	24627.4	23492.2
52.5°	85.5	111.4	152.9	251.4	267.0	272.1	334.3	4870.0	22167.8	25024.0	23935.4
55°	75.2	98.5	129.6	176.2	207.3	243.6	305.8	5069.6	23336.7	25874.1	24912.5
57.5°	59.6	85.5	116.6	150.3	171.1	212.5	282.5	5085.1	24394.2	26965.3	26211.0
59°	54.4	77.8	108.9	142.5	152.9	191.8	267.0	4953.0	24433.0	27128.5	26807.2
60°	49.2	75.2	103.7	132.2	145.1	181.4	254.0	4800.0	24080.6	26869.4	27053.4
62.5°	41.5	64.8	90.7	106.3	124.4	150.3	220.3	4245.4	22372.6	25695.3	26597.2
65°	36.3	57.0	77.8	88.1	103.7	129.6	194.4	3397.9	20485.7	24103.9	25290.9
67.5°	33.7	51.8	67.4	75.2	90.7	119.2	173.7	2400.0	18041.6	22084.9	23328.9
70°	31.1	49.2	59.6	70.0	80.3	101.1	147.7	1399.6	13897.3	18544.4	19858.5
72.5°	31.1	46.7	51.8	59.6	70.0	90.7	137.4	756.8	9501.6	14146.1	15843.8
75°	31.1	44.1	46.7	51.8	62.2	82.9	121.8	396.5	6142.6	9828.2	12129.7
77.5°	31.1	41.5	46.7	49.2	59.6	72.6	106.3	248.8	4092.5	6883.9	8197.9
80°	33.7	41.5	44.1	49.2	57.0	67.4	88.1	165.9	2405.2	4141.7	4989.2
82.5°	36.3	41.5	46.7	51.8	59.6	64.8	77.8	103.7	1109.3	2739.5	3099.8
85°	38.9	44.1	49.2	54.4	62.2	64.8	72.6	75.2	181.4	1236.3	1671.7
87.5°	41.5	46.7	51.8	57.0	67.4	67.4	67.4	67.4	62.2	132.2	336.9
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: P457164

CATALOG NUMBER: GALN-SA8C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2	11269.2
2.5°	12715.4	13008.3	13213.1	13264.9	13117.2	13049.8	12863.2	12572.9	12396.7	12388.9
5°	13399.7	14086.5	14563.4	14643.8	14358.7	13876.6	13303.8	12565.1	12132.3	12002.7
7.5°	13283.1	14485.7	15252.8	15364.3	14884.8	13964.7	12855.4	11665.8	11194.1	10994.5
10°	12803.6	14270.5	15366.9	15543.1	14902.9	13607.0	12197.1	10870.1	10284.3	10131.4
12.5°	12394.1	13876.6	14851.1	15094.7	14610.1	13316.7	11803.1	10359.5	9732.3	9589.7
15°	12215.2	13410.1	14006.2	14130.6	14050.2	13135.3	11761.7	10281.7	9563.8	9408.3
17.5°	12394.1	13013.5	13088.7	13215.7	13394.5	13117.2	12160.8	10704.2	9929.2	9737.5
20°	12863.2	12668.8	12357.8	12412.2	12821.7	13192.3	12871.0	11639.8	10696.4	10491.7
22.5°	13661.5	12583.3	11878.3	11831.6	12350.0	13443.7	13912.9	12907.2	11813.5	11611.3
25°	14641.2	12798.4	11702.0	11601.0	12166.0	13811.8	15045.5	14459.7	13264.9	12956.5
27.5°	15709.0	13244.2	11702.0	11603.6	12150.4	14138.4	16014.8	15833.4	14768.2	14431.2
30°	16294.7	13612.2	11870.5	11759.1	12342.2	14327.6	16533.2	17054.1	15898.2	15480.9
32.5°	16818.3	14122.8	12199.7	11989.7	12744.0	14607.5	16997.1	18090.9	16797.6	16517.6
35°	17300.4	14669.7	12653.2	12409.6	13272.7	14991.1	17510.3	19179.4	18049.4	17626.9
37.5°	17831.7	15304.7	13360.8	13153.5	14156.5	15737.5	18119.4	20610.1	19280.5	18749.2
40°	18409.7	16040.7	14524.5	14436.4	15561.3	16582.4	18889.2	22136.7	20685.3	20081.4
42.5°	18998.0	16888.3	15950.0	16095.2	17152.6	17766.9	19679.7	23310.8	21836.0	21170.0
45°	19531.9	17971.7	17803.2	18521.1	19008.4	18922.8	20265.4	24137.6	22839.1	22201.5
47.5°	20205.8	19550.1	20045.1	21151.8	21164.8	20179.9	20708.6	24814.0	23702.2	23064.6
50°	20960.0	21413.6	22940.2	24067.6	23764.4	21416.2	21227.0	25614.9	24593.7	24083.2
52.5°	21833.5	23500.0	25614.9	26866.8	26159.2	22763.9	22090.0	26480.6	26008.9	25519.0
55°	22849.4	24922.9	28281.9	29279.7	28567.0	24438.2	23401.5	27654.7	27608.0	27273.7
57.5°	23997.6	26426.2	29826.6	31177.0	30542.0	26402.8	25233.9	28761.4	28585.1	28398.5
59°	24904.8	27198.5	30508.3	31907.8	31524.3	27779.1	26465.0	29450.8	28810.6	28530.7
60°	25454.2	27722.1	30759.7	32006.3	31918.2	28598.1	27245.2	29787.7	28808.0	28419.3
62.5°	27084.5	28637.0	30663.8	31568.3	31913.0	30168.7	29533.7	30158.4	28274.1	27703.9
65°	27665.0	28333.7	29075.0	28963.5	29259.0	30088.4	30995.5	29751.5	27133.7	26322.5
67.5°	26535.0	25008.4	25270.2	24526.4	24381.2	26750.1	30402.0	27760.9	24902.2	23909.5
70°	22367.4	19158.7	19026.5	19368.6	18430.4	21657.2	27299.6	23927.6	21219.2	20094.3
72.5°	17606.2	13539.6	12425.2	13684.8	13656.3	16522.8	22678.4	16979.0	14335.3	14239.4
75°	13845.5	9426.4	8273.1	8477.8	8871.8	11961.2	18062.4	10782.0	8827.7	8045.0
77.5°	9294.3	6679.1	6230.7	5979.3	6404.4	7679.6	11427.3	5847.1	4950.4	4688.6
80°	5357.3	4851.9	5510.2	5002.2	5230.3	4838.9	5683.9	2682.5	2226.4	2410.4
82.5°	3486.0	2762.9	2944.3	2187.5	2991.0	3016.9	1824.6	793.1	671.3	712.7
85°	2179.7	1295.9	728.3	518.4	1031.5	1897.2	570.2	49.2	57.0	49.2
87.5°	565.0	215.1	90.7	134.8	165.9	147.7	132.2	7.8	2.6	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)