

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: P458229

Luminaire Tested: **GALN-SA9C-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38345 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

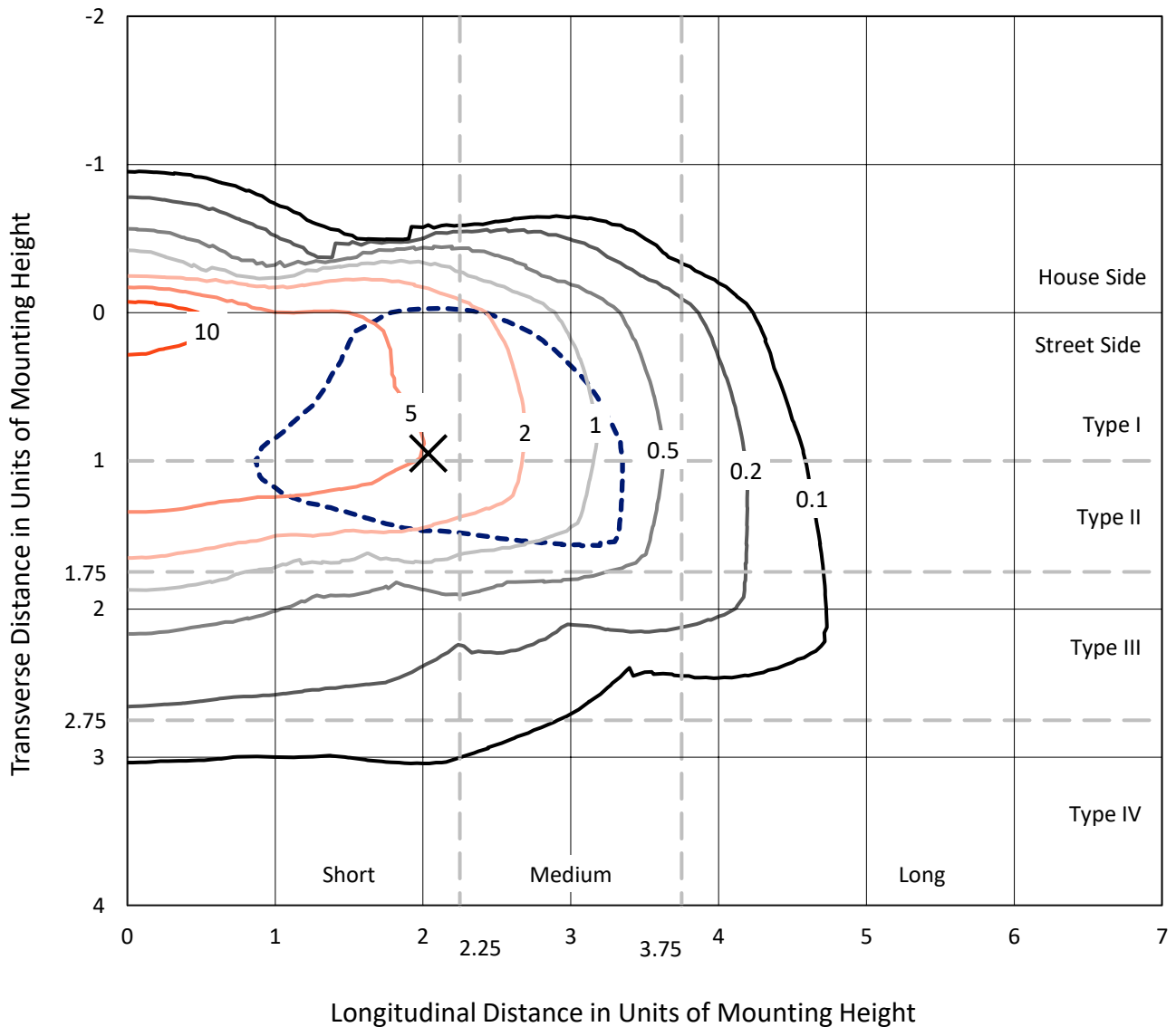
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458229
 CATALOG NUMBER: GALN-SA9C-827-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

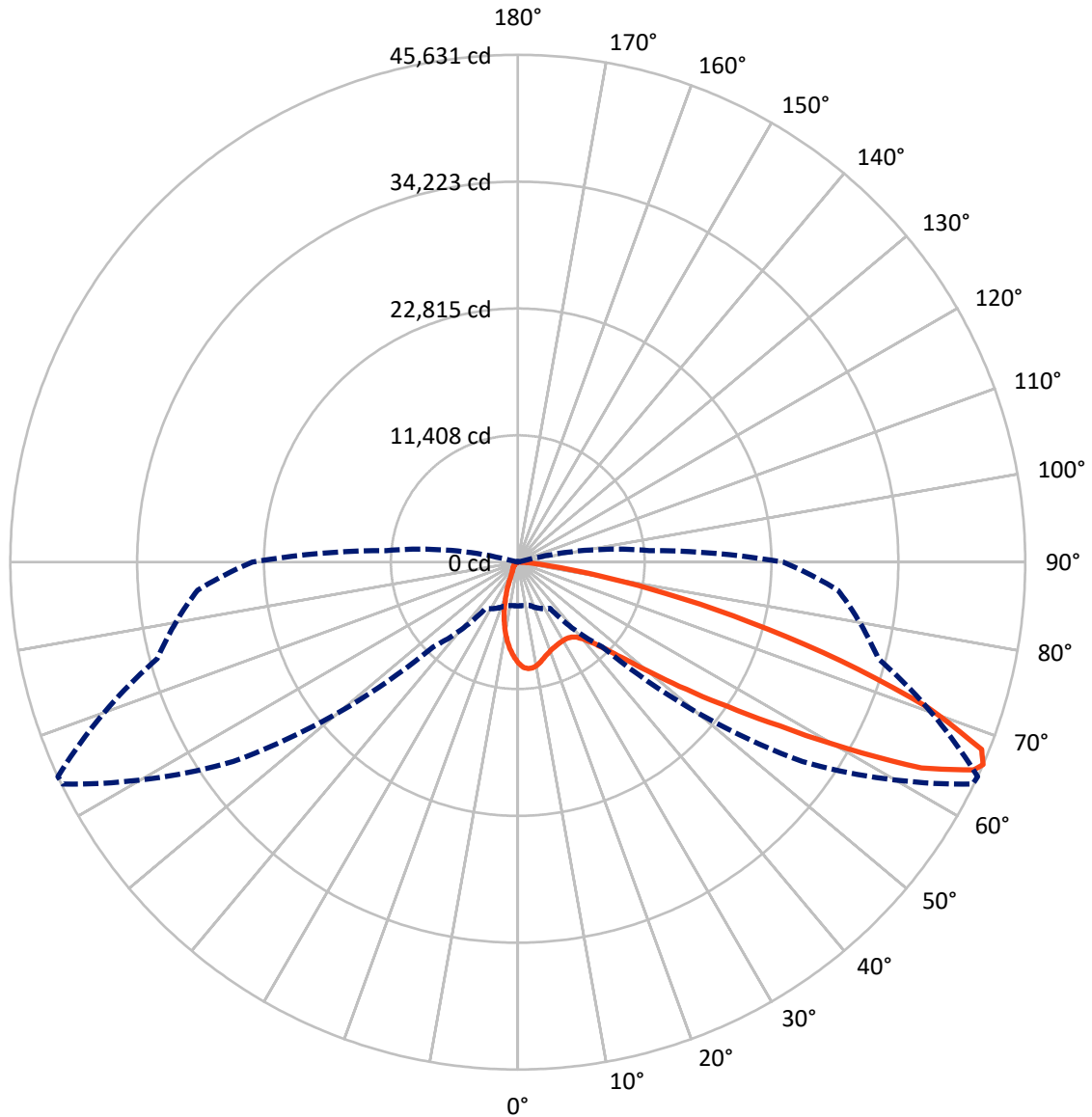
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

REPORT NUMBER: P458229
CATALOG NUMBER: GALN-SA9C-827-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P458229

CATALOG NUMBER: GALN-SA9C-827-U-SL2-HSS

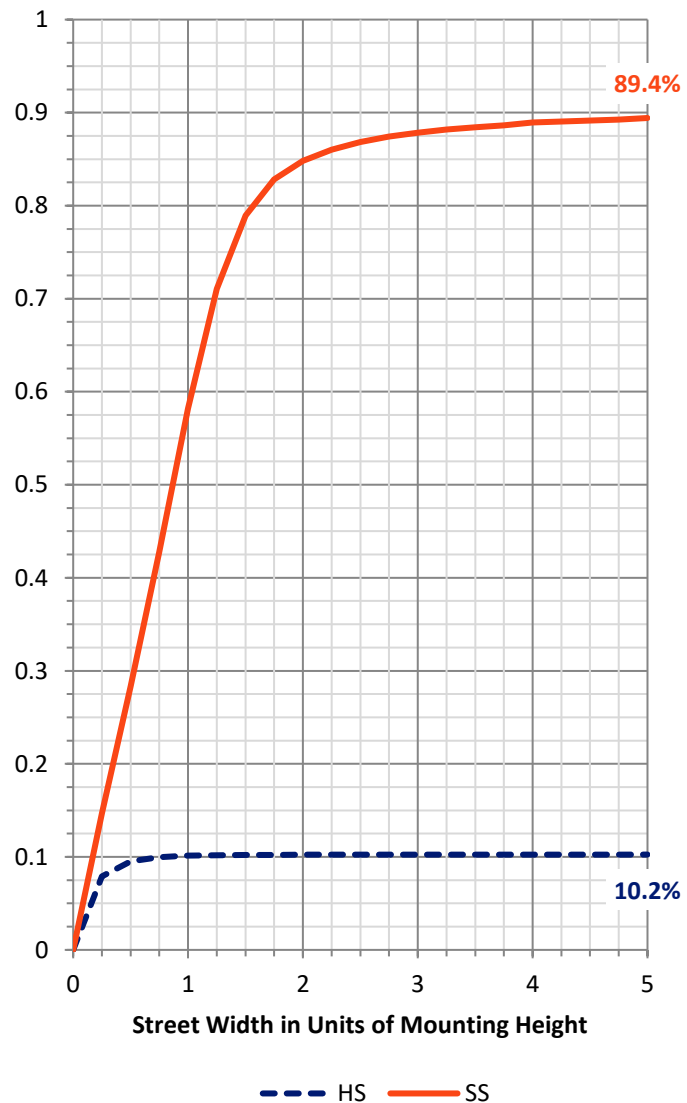
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3965.4	0.0	3965.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	34379.6	0.0	34379.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	38345.0	0.0	38345.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.7	1.9
10°-20°	1620.3	4.2
20°-30°	2321.2	6.1
30°-40°	3390.2	8.8
40°-50°	5684.8	14.8
50°-60°	9487.1	24.7
60°-70°	10070.2	26.3
70°-80°	4560.8	11.9
80°-90°	466.7	1.2
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°	38345.0	100.0
0°-180°	38345.0	100.0



REPORT NUMBER: P458229

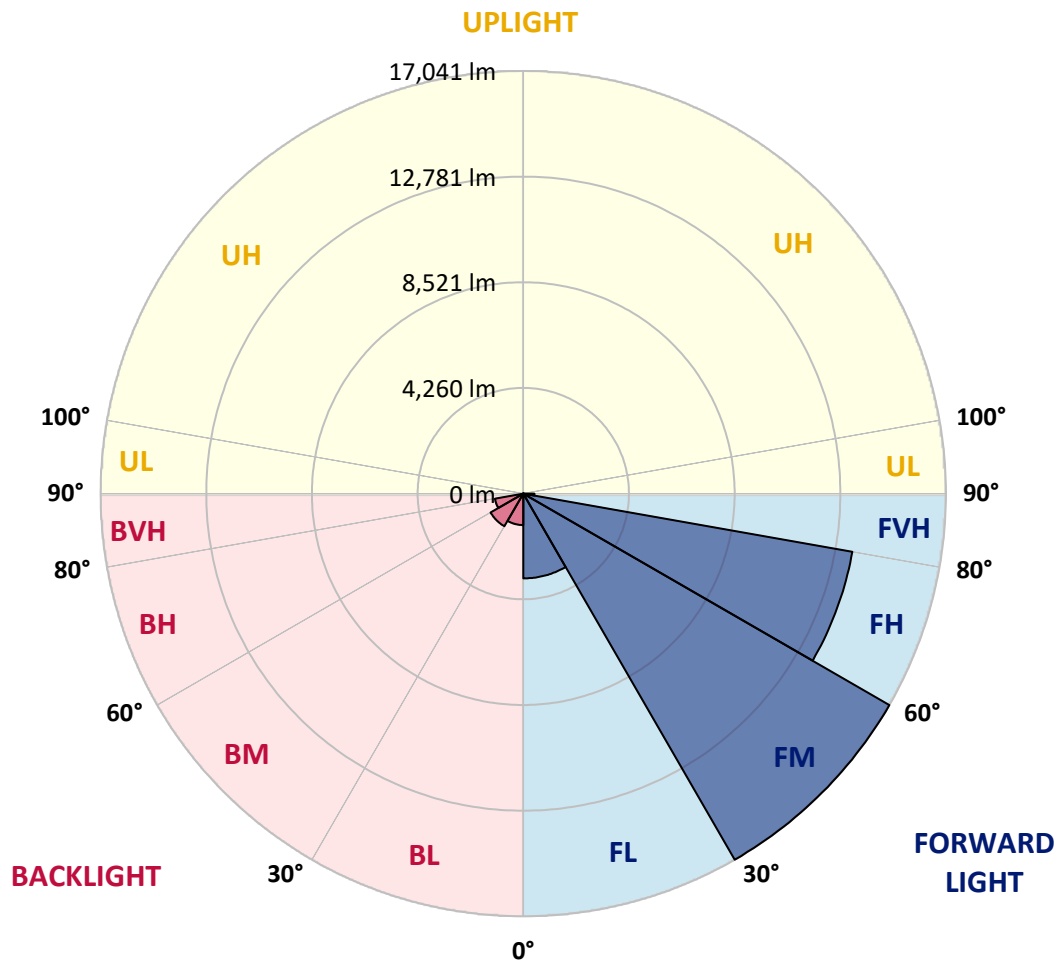
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3416.7	8.9			
FM (30°-60°)	17041.4	44.4			
FH (60°-80°)	13469.7	35.1			G5
FVH (80°-90°)	451.8	1.2			G3/500
BL (0°-30°)	1268.5	3.3	B3/2500		
BM (30°-60°)	1520.8	4.0	B2/2500		
BH (60°-80°)	1161.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	14.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P458229

CATALOG NUMBER: GALN-SA9C-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0
2.5°	9582.5	9592.9	9605.8	9623.9	9636.9	9598.0	9543.7	9481.5	9468.5	9336.5	9175.9
5°	9069.7	9085.2	9199.2	9261.4	9401.2	9528.1	9608.4	9618.8	9613.6	9489.3	9232.9
7.5°	8339.4	8383.4	8494.8	8603.5	8865.1	9106.0	9390.8	9590.3	9603.2	9569.5	9251.0
10°	7746.3	7774.8	7831.7	8046.7	8264.3	8632.0	9030.9	9406.4	9437.5	9572.1	9235.5
12.5°	7282.7	7324.1	7394.1	7559.8	7821.4	8168.4	8621.7	9126.7	9191.4	9522.9	9191.4
15°	6959.0	6979.7	7049.6	7212.8	7466.6	7787.7	8246.1	8834.0	8891.0	9458.2	9183.7
17.5°	6806.2	6829.5	6878.7	7008.2	7218.0	7515.8	7963.8	8598.3	8670.9	9416.7	9212.1
20°	6847.6	6868.3	6870.9	6938.2	7080.7	7331.9	7756.6	8378.2	8471.4	9390.8	9258.8
22.5°	7083.3	7085.9	7054.8	7023.7	7072.9	7254.2	7629.7	8238.4	8334.2	9385.7	9313.2
25°	7435.5	7443.3	7391.5	7282.7	7184.3	7277.5	7601.3	8147.7	8233.2	9372.7	9346.8
27.5°	7922.4	7919.8	7904.3	7723.0	7443.3	7381.1	7624.6	8098.5	8171.0	9336.5	9359.8
30°	8603.5	8582.8	8549.1	8344.5	7917.2	7632.3	7723.0	8067.4	8134.8	9284.7	9326.1
32.5°	9274.3	9352.0	9346.8	9152.6	8619.1	8080.4	7927.6	8108.9	8158.1	9251.0	9276.9
35°	10056.4	10053.9	10253.3	10180.8	9556.6	8652.7	8277.2	8246.1	8285.0	9274.3	9253.6
37.5°	10781.6	10848.9	11159.7	11234.8	10665.1	9460.8	8771.9	8541.4	8554.3	9432.3	9310.6
40°	11685.5	11815.0	12278.5	12529.8	12027.3	10659.9	9502.2	9082.7	9085.2	9820.8	9525.5
42.5°	12850.9	13055.5	13488.0	13907.6	13638.2	12079.1	10597.7	9939.9	9934.7	10504.5	10017.6
45°	14267.6	14410.0	14902.1	15567.7	15396.7	14060.4	12193.1	11268.5	11201.2	11625.9	10890.4
47.5°	15490.0	15684.2	16184.1	16942.9	17719.9	16479.3	14099.2	13094.4	13050.3	13410.3	12387.3
50°	16023.5	16194.4	16720.2	17784.6	19667.4	19654.5	16937.7	15759.3	15684.2	15878.5	14702.7
52.5°	15438.2	15598.8	16129.7	17455.7	20584.2	23523.7	21050.4	19102.8	19012.2	18763.6	17468.6
55°	13433.6	13565.7	14350.4	15873.3	20232.0	26103.2	26717.0	23233.7	22881.5	21915.4	20599.8
57.5°	10696.1	10628.8	11115.7	12884.6	18165.3	26968.3	32533.9	28379.7	27750.4	24640.0	23249.2
60°	7412.2	7619.4	7816.2	8981.6	13658.9	25468.7	36151.9	34849.2	34020.5	27320.5	25787.3
62.5°	5449.1	5586.3	5715.8	6254.5	8588.0	20335.6	36791.6	41494.8	40759.3	30166.7	28208.8
65°	4309.5	4319.9	4371.7	4902.6	5658.9	13223.8	33717.4	45242.3	45053.3	32906.8	29190.4
66°	3926.2	3928.8	4009.1	4578.9	5078.7	10768.7	31254.5	45527.2	45630.8	33564.6	28902.9
67.5°	3431.6	3421.2	3537.8	4115.3	4625.5	7764.4	26846.5	44372.1	44985.9	34069.7	27869.5
70°	2659.8	2646.8	2789.3	3452.3	4260.3	5179.7	17844.2	38099.5	39088.8	33036.3	24658.1
72.5°	1771.5	1781.8	2025.3	2724.5	4066.1	4560.8	10735.0	28983.2	30381.7	27281.6	19398.1
75°	1033.4	1051.5	1328.6	2025.3	3530.0	4348.4	6075.8	20667.1	21560.6	18838.7	12084.3
77.5°	541.3	549.1	743.3	1336.4	2706.4	4037.6	4048.0	13203.1	13622.7	9155.2	4783.5
80°	287.5	279.7	398.8	805.4	1862.1	3545.5	3283.9	6990.0	7267.2	2719.4	1209.5
82.5°	108.8	119.1	212.4	528.3	1100.7	2545.8	2828.1	3089.7	2993.9	598.3	507.6
85°	20.7	25.9	90.6	313.4	554.2	1064.4	2084.8	1515.1	1403.7	225.3	292.7
87.5°	2.6	5.2	25.9	75.1	80.3	360.0	616.4	419.6	362.6	82.9	121.7
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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CATALOG NUMBER: GALN-SA9C-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0	9093.0
2.5°	9098.2	9028.3	8795.2	8564.7	8329.0	8116.6	7971.6	7735.9	7676.4	7590.9	7541.7
5°	9080.1	8916.9	8468.9	7979.4	7523.6	7031.5	6656.0	6293.4	6099.1	6000.7	5964.5
7.5°	9028.3	8769.3	8070.0	7303.4	6573.1	5837.6	5197.9	4711.0	4397.6	4182.6	4037.6
10°	8924.7	8567.3	7606.4	6552.4	5449.1	4477.9	3667.2	3050.9	2574.3	2424.1	2429.3
12.5°	8818.5	8342.0	7088.5	5718.4	4351.0	3126.0	2266.1	1779.2	1551.3	1476.2	1460.7
15°	8720.1	8127.0	6580.8	4910.4	3239.9	2025.3	1460.7	1289.8	1227.6	1214.6	1212.1
17.5°	8668.3	7927.6	6039.6	3985.8	2261.0	1375.2	1170.6	1124.0	1105.9	1092.9	1087.7
20°	8624.2	7754.1	5521.6	3120.8	1546.1	1126.6	1048.9	1004.9	973.8	960.8	953.1
22.5°	8593.2	7575.4	4985.5	2416.3	1183.6	999.7	929.8	872.8	828.8	813.2	802.9
25°	8546.6	7378.5	4444.2	1766.3	997.1	888.3	808.0	740.7	683.7	655.2	650.1
27.5°	8479.2	7155.8	3851.1	1307.9	890.9	789.9	691.5	608.6	551.6	520.6	523.2
30°	8370.4	6922.7	3258.0	1038.5	805.4	688.9	582.7	502.4	448.0	424.7	422.1
32.5°	8240.9	6640.4	2714.2	890.9	727.8	598.3	486.9	417.0	375.5	357.4	354.8
35°	8119.2	6355.5	2159.9	800.3	647.5	515.4	409.2	349.6	318.6	303.0	305.6
37.5°	8051.9	6101.7	1683.4	727.8	582.7	442.9	352.2	300.4	271.9	259.0	256.4
40°	8095.9	5894.5	1339.0	663.0	510.2	380.7	303.0	259.0	230.5	212.4	212.4
42.5°	8303.1	5803.9	1080.0	600.8	442.9	328.9	264.2	222.7	191.6	173.5	176.1
45°	8935.0	5899.7	903.9	543.9	380.7	284.9	227.9	183.9	155.4	142.4	139.9
47.5°	9983.9	6259.7	782.1	484.3	326.3	243.4	191.6	152.8	124.3	114.0	111.4
50°	11817.6	7003.0	691.5	424.7	277.1	207.2	158.0	121.7	98.4	88.1	88.1
52.5°	14340.1	8624.2	626.7	357.4	233.1	176.1	129.5	98.4	77.7	69.9	67.3
55°	16976.6	10333.6	593.1	300.4	194.2	145.0	103.6	77.7	59.6	51.8	49.2
57.5°	19512.0	11675.1	554.2	243.4	155.4	111.4	80.3	59.6	41.4	36.3	33.7
60°	21943.9	12760.3	471.4	194.2	121.7	80.3	59.6	41.4	28.5	23.3	23.3
62.5°	24119.4	13392.2	370.4	155.4	93.2	57.0	38.8	31.1	20.7	15.5	15.5
65°	24373.2	12571.2	279.7	119.1	67.3	36.3	23.3	23.3	15.5	10.4	10.4
66°	23863.0	11874.5	246.0	108.8	59.6	31.1	20.7	18.1	12.9	7.8	7.8
67.5°	22723.5	10685.8	212.4	93.2	49.2	23.3	15.5	15.5	10.4	5.2	5.2
70°	19633.8	8727.8	168.3	69.9	36.3	18.1	10.4	10.4	7.8	5.2	5.2
72.5°	14964.2	6516.1	137.3	51.8	25.9	12.9	7.8	7.8	7.8	5.2	5.2
75°	9025.7	3509.3	106.2	38.8	23.3	10.4	5.2	7.8	10.4	7.8	5.2
77.5°	3325.4	1193.9	82.9	31.1	18.1	10.4	5.2	5.2	10.4	7.8	7.8
80°	815.8	310.8	59.6	25.9	18.1	10.4	5.2	5.2	10.4	10.4	10.4
82.5°	378.1	132.1	41.4	23.3	18.1	10.4	5.2	5.2	7.8	10.4	10.4
85°	217.5	62.2	33.7	25.9	18.1	10.4	5.2	5.2	7.8	10.4	10.4
87.5°	88.1	31.1	31.1	25.9	20.7	12.9	5.2	5.2	5.2	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)