

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: P651044

Luminaire Tested: **GALN-SA7C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29654.5 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

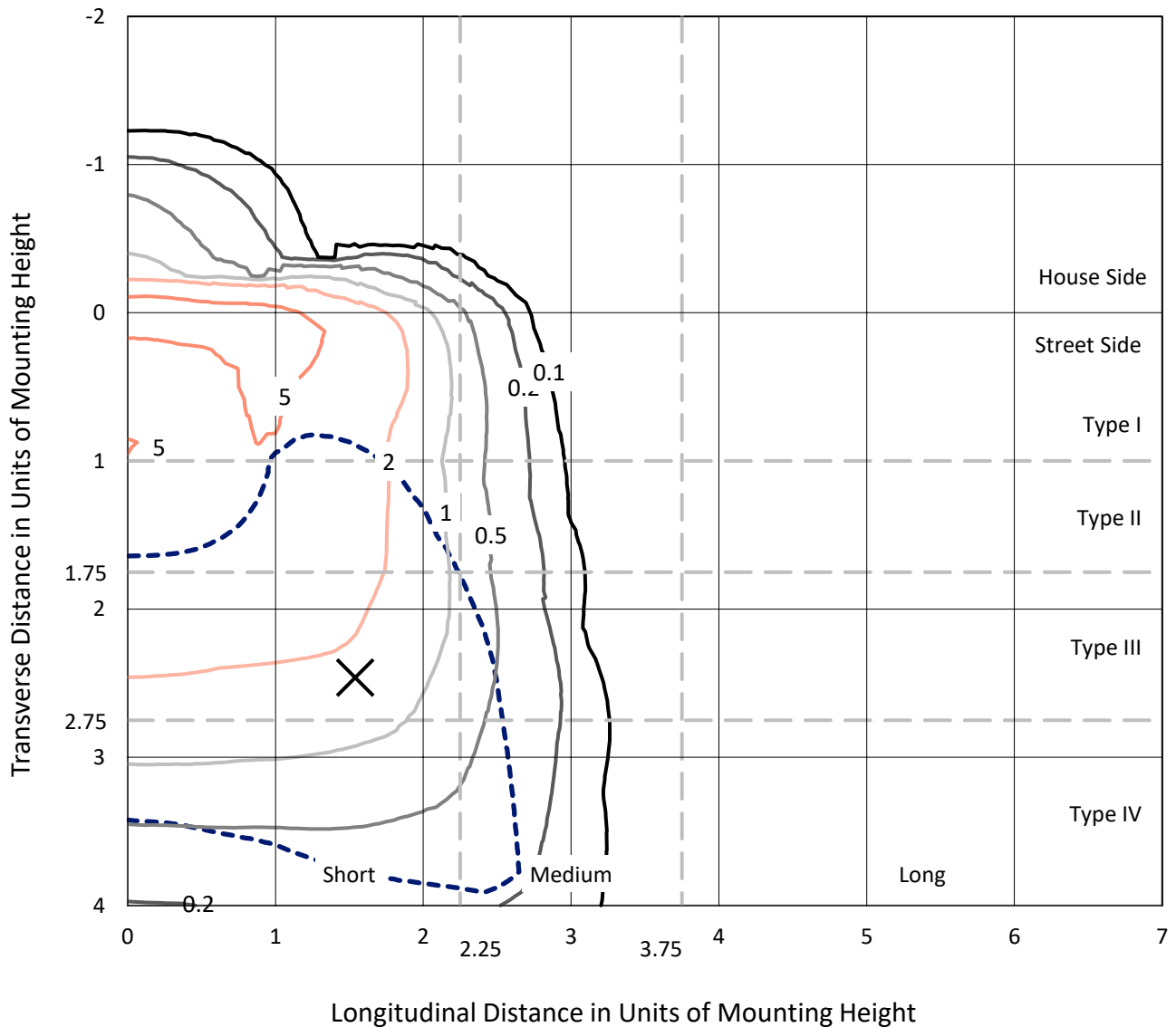
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651044  
 CATALOG NUMBER: GALN-SA7C-840-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

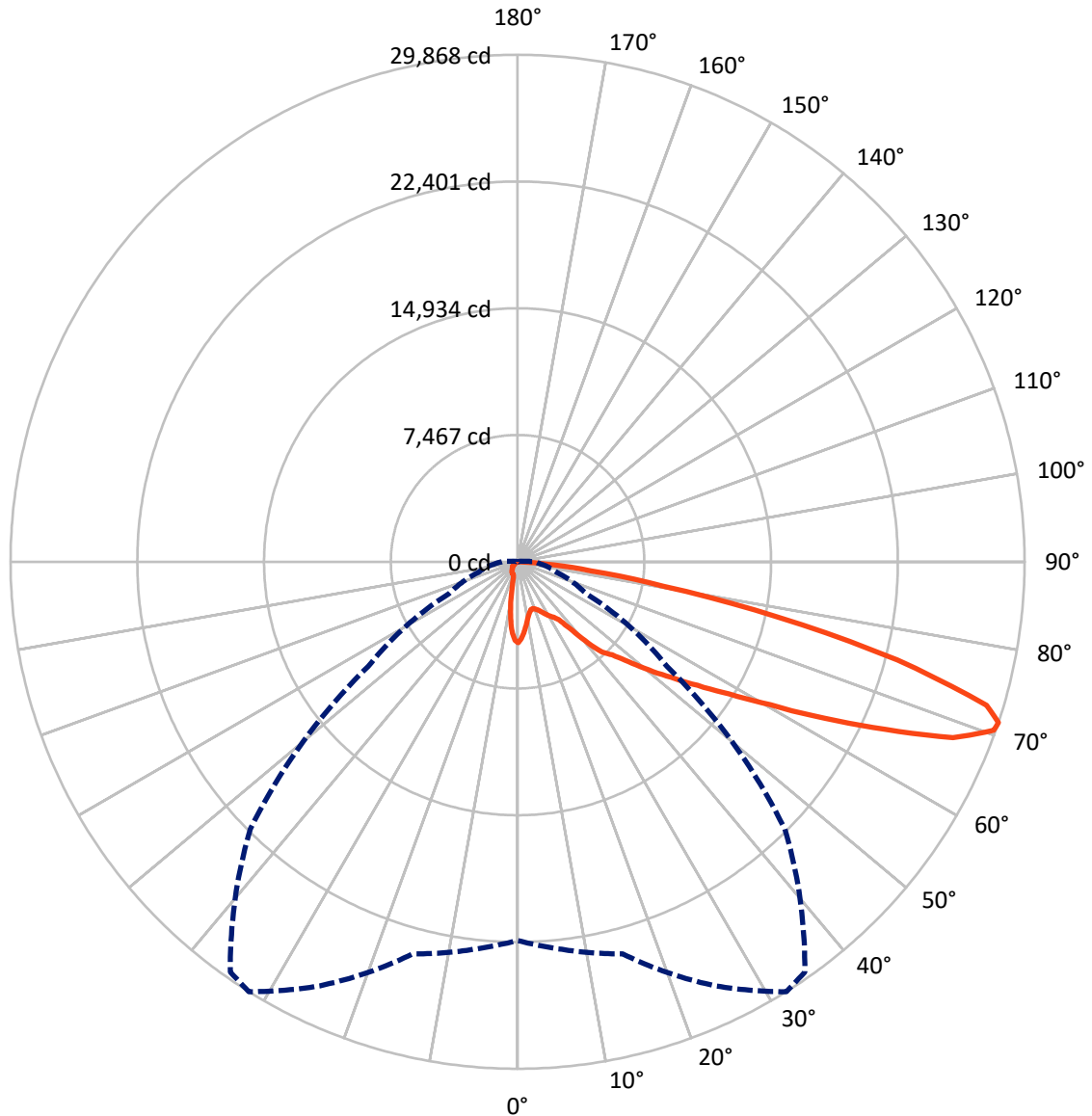
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P651044  
CATALOG NUMBER: GALN-SA7C-840-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P651044  
 CATALOG NUMBER: GALN-SA7C-840-U-T4FT-HSS

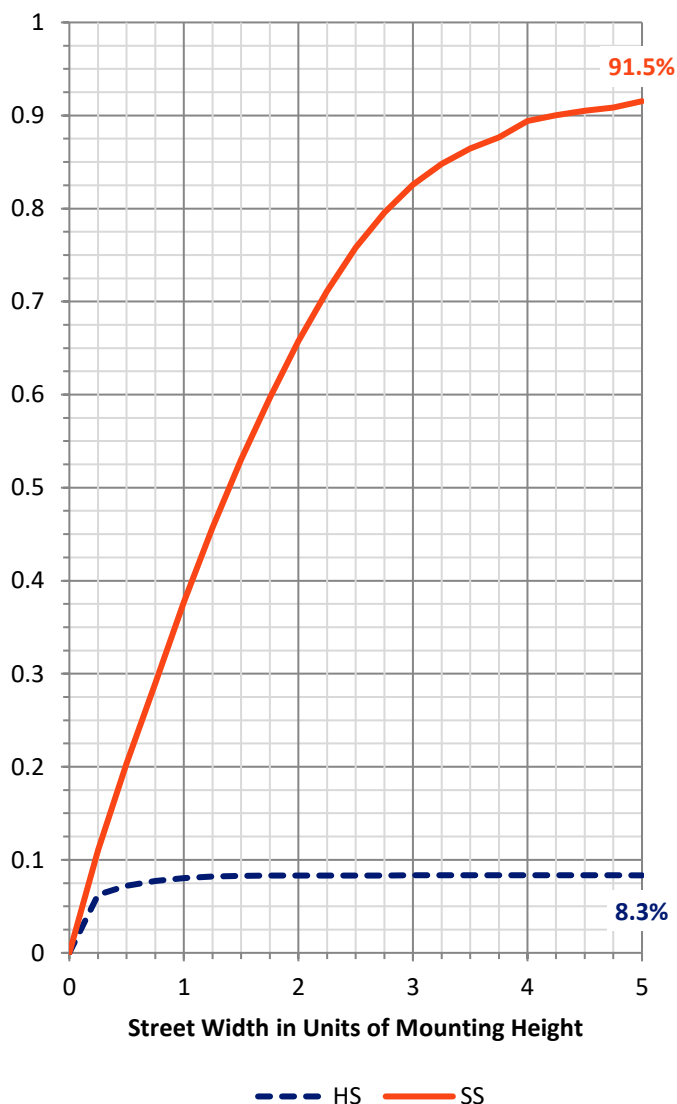
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2483.9	0.0	2483.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	27170.6	0.0	27170.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	29654.5	0.0	29654.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.8	1.3
10°-20°	841.6	2.8
20°-30°	1309.3	4.4
30°-40°	2181.2	7.4
40°-50°	4057.5	13.7
50°-60°	6514.4	22.0
60°-70°	8762.2	29.5
70°-80°	5198.7	17.5
80°-90°	401.8	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°	29654.5	100.0
0°-180°	29654.5	100.0

**Coefficient of Utilization**

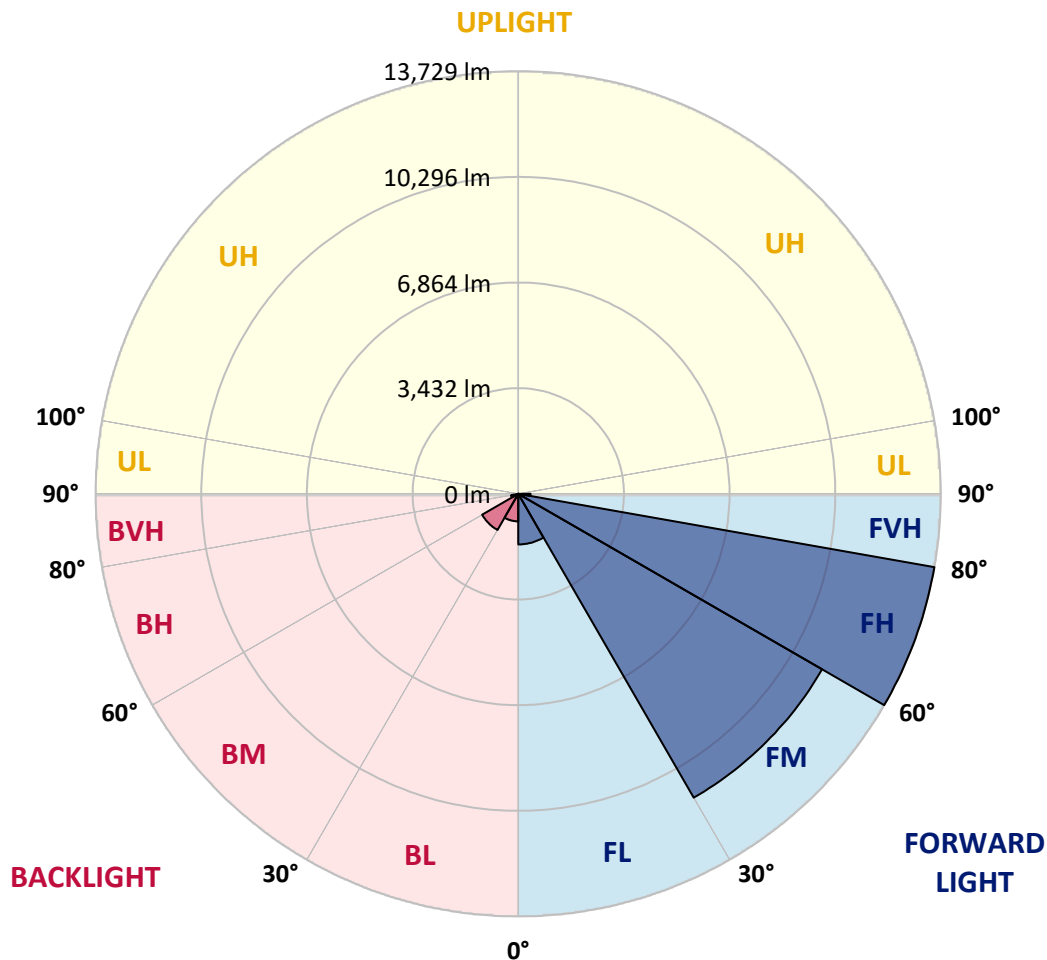


REPORT NUMBER: P651044  
 CATALOG NUMBER: GALN-SA7C-840-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1643.7	5.5			
FM (30°-60°)	11398.1	38.4			
FH (60°-80°)	13728.6	46.3			G5
FVH (80°-90°)	400.3	1.3			G3/500
BL (0°-30°)	895.0	3.0	B2/1000		
BM (30°-60°)	1355.0	4.6	B2/2500		
BH (60°-80°)	232.3	0.8	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





REPORT NUMBER: P651044

CATALOG NUMBER: GALN-SA7C-840-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9
2.5°	4422.9	4468.4	4461.6	4477.6	4516.3	4532.1	4575.5	4623.2	4689.2	4734.7	4764.3
5°	3960.8	3994.9	3999.5	4079.2	4117.9	4161.1	4288.6	4427.4	4582.3	4705.1	4787.1
7.5°	3466.9	3485.0	3521.5	3626.2	3724.0	3767.3	3960.8	4202.1	4445.7	4675.5	4823.6
10°	3059.4	3079.9	3145.8	3257.4	3348.4	3405.4	3674.0	3976.8	4318.2	4659.6	4875.9
12.5°	2827.2	2838.5	2863.6	2963.8	3079.9	3141.3	3430.4	3776.4	4215.8	4666.5	4964.7
15°	2811.3	2806.8	2777.2	2818.1	2922.8	2986.6	3268.8	3639.8	4124.7	4689.2	5069.4
17.5°	2895.5	2884.1	2813.6	2813.6	2900.0	2952.4	3200.5	3567.0	4079.2	4741.6	5217.3
20°	3025.2	3007.0	2890.9	2881.9	2966.0	3020.7	3241.5	3571.6	4088.3	4839.5	5415.4
22.5°	3189.2	3168.6	2993.4	2997.9	3089.0	3143.6	3359.9	3653.5	4145.2	4960.1	5627.0
25°	3403.1	3380.3	3173.2	3164.1	3259.7	3307.5	3535.1	3799.2	4224.8	5110.3	5904.8
27.5°	3687.6	3639.8	3391.8	3378.0	3480.5	3542.0	3746.8	3994.9	4366.0	5317.5	6278.1
30°	3922.1	3869.8	3633.0	3596.6	3705.9	3753.6	3965.4	4259.0	4643.7	5679.4	6794.9
32.5°	4229.4	4152.0	3874.3	3778.7	3894.8	3956.2	4281.8	4750.7	5055.8	6061.8	7409.5
35°	4921.4	4873.6	4534.4	4199.8	4193.0	4270.4	4748.5	5246.9	5479.1	6658.3	8247.1
37.5°	5911.6	5877.5	5517.8	5069.4	4939.6	4903.2	5315.2	5793.2	6155.2	7477.8	9221.4
40°	7061.2	6981.5	6651.5	6271.3	6102.8	5995.8	5984.5	6605.9	7038.4	8590.9	10236.7
42.5°	7885.2	7739.6	7338.9	7311.6	7275.2	7163.6	6840.4	7794.1	8178.8	9788.2	11322.5
45°	8750.2	8529.4	7933.0	7830.6	7816.9	7810.1	8133.3	9200.9	9421.7	11085.7	12437.9
47.5°	9421.7	9246.5	8757.0	8711.5	8768.4	8923.2	9842.8	10694.2	10648.7	12242.1	13373.4
50°	10316.3	10184.3	9640.2	9726.8	10020.4	10273.1	11770.9	12321.7	11657.1	13152.7	14054.0
52.5°	11372.5	11129.0	10623.6	10858.1	11308.8	11729.9	13817.3	13746.7	12365.1	13837.8	14561.7
55°	12287.6	12114.6	11941.6	12185.2	12859.0	13384.8	15665.7	14814.4	12879.5	14388.7	14784.8
57.5°	13835.5	13794.6	13617.0	13865.1	14682.3	15228.7	17320.6	15642.9	13209.5	14675.4	14523.0
60°	16125.5	16059.5	15729.4	16045.9	17111.2	17969.3	18845.7	16387.3	13284.7	14563.9	13769.5
62.5°	18879.9	18654.5	18372.2	18838.9	20300.3	20678.2	20282.1	16828.9	13004.6	13676.2	11953.0
65°	21452.1	21219.9	21226.8	22210.1	23801.3	24058.5	21957.5	16762.9	12185.2	11452.2	8816.2
67.5°	23421.2	23382.4	23660.2	25579.1	27659.6	27482.1	23455.3	15775.0	9756.4	7423.1	4684.7
70°	23521.3	23596.4	24393.1	27632.3	29744.7	29462.5	23327.8	12822.6	6082.4	3414.5	1846.1
71°	22310.3	22815.7	23917.4	27568.6	29867.7	29501.2	22253.4	10739.7	4461.6	2381.0	1331.6
72.5°	19011.9	19278.2	21659.3	25945.6	28895.7	28112.6	19528.6	7527.8	2856.8	1456.9	764.8
75°	10471.1	11126.7	14504.7	20354.9	23111.5	22424.1	12726.9	3576.1	1425.0	796.7	316.4
77.5°	4985.2	4857.7	7077.1	12105.5	15670.3	15633.9	6412.5	1588.9	830.8	539.5	159.4
80°	1425.0	1602.5	2708.9	5754.5	8700.1	8795.8	2463.0	767.2	575.9	421.1	81.9
82.5°	430.3	439.3	994.7	2545.0	4327.3	4079.2	924.2	391.6	414.3	334.6	47.8
85°	75.1	93.4	293.7	896.8	1650.4	1252.0	232.2	186.6	273.2	220.8	27.3
87.5°	4.5	6.8	97.9	102.4	145.7	84.2	41.0	27.3	59.2	59.2	15.9
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: P651044

CATALOG NUMBER: GALN-SA7C-840-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9
2.5°	4784.9	4798.5	4789.4	4768.9	4734.7	4693.8	4639.1	4593.6	4554.9	4534.4	4559.5
5°	4814.5	4832.6	4787.1	4684.7	4529.9	4361.4	4170.3	4022.3	3906.2	3869.8	3856.1
7.5°	4860.0	4871.3	4748.5	4520.8	4193.0	3794.7	3446.3	3152.7	2925.1	2856.8	2756.6
10°	4919.2	4912.3	4680.2	4256.7	3680.8	3082.2	2542.7	2142.0	1839.3	1730.0	1720.9
12.5°	5010.2	4973.8	4593.6	3897.1	3070.7	2287.7	1620.8	1267.9	1076.7	1013.0	999.3
15°	5124.0	5037.5	4457.0	3475.9	2351.4	1477.3	999.3	892.3	867.2	862.7	858.2
17.5°	5258.4	5121.8	4277.2	2959.2	1652.6	958.3	835.4	833.1	835.4	830.8	828.6
20°	5440.4	5210.5	4063.2	2346.9	1092.6	808.1	796.7	796.7	798.9	796.7	796.7
22.5°	5633.9	5315.2	3799.2	1791.5	824.0	767.2	764.8	769.4	774.0	771.7	771.7
25°	5873.0	5451.8	3450.9	1226.9	737.6	733.0	735.3	744.4	753.5	755.7	753.5
27.5°	6218.9	5620.2	3077.6	844.5	676.1	680.6	703.4	726.1	739.8	742.1	742.1
30°	6608.2	5806.9	2590.4	685.2	626.0	626.0	653.3	696.5	726.1	730.7	733.0
32.5°	7109.0	6023.2	2050.9	616.9	578.2	573.6	598.7	651.0	705.7	721.6	721.6
35°	7728.1	6278.1	1525.2	573.6	544.0	532.7	546.3	589.5	660.1	705.7	710.2
37.5°	8454.3	6519.4	1115.4	535.0	512.2	496.3	505.4	539.5	596.4	664.7	682.9
40°	9125.8	6733.4	833.1	503.1	480.3	468.9	475.8	491.6	539.5	603.2	614.6
42.5°	9858.8	6899.6	662.4	468.9	448.4	443.9	443.9	450.7	482.6	519.0	521.3
45°	10589.5	6958.8	555.4	428.0	414.3	418.8	416.5	412.0	425.7	421.1	421.1
47.5°	11110.8	6888.1	459.9	389.2	389.2	396.1	384.7	368.8	362.0	334.6	336.9
50°	11468.1	6630.9	377.9	343.7	362.0	371.0	348.3	323.3	298.2	268.6	261.8
52.5°	11616.1	6173.4	309.6	284.5	320.9	332.4	305.0	275.4	236.7	211.7	204.9
55°	11520.5	5608.9	257.3	232.2	270.9	284.5	257.3	223.1	179.8	152.5	147.9
57.5°	11099.3	4935.1	218.5	184.3	216.2	225.4	207.1	170.7	127.5	100.2	100.2
60°	10371.0	4238.6	177.5	145.7	161.6	175.3	157.1	123.0	86.5	61.5	56.9
62.5°	8893.6	3441.8	143.4	113.8	113.8	125.2	109.2	88.8	54.7	31.9	29.6
65°	6421.5	2360.5	113.8	84.2	81.9	81.9	68.3	59.2	31.9	13.6	9.1
67.5°	3489.6	1331.6	91.1	63.7	56.9	54.7	43.2	34.1	13.6	2.3	0.0
70°	1372.6	512.2	70.6	43.2	36.4	34.1	22.8	15.9	9.1	0.0	0.0
71°	931.0	352.8	61.5	36.4	29.6	25.1	18.2	13.6	6.8	0.0	0.0
72.5°	532.7	218.5	47.8	27.3	22.8	18.2	13.6	9.1	6.8	0.0	0.0
75°	232.2	111.5	29.6	20.5	15.9	11.4	9.1	6.8	2.3	0.0	0.0
77.5°	118.3	61.5	20.5	15.9	9.1	6.8	4.5	2.3	0.0	0.0	0.0
80°	66.0	31.9	13.6	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0
82.5°	36.4	18.2	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	11.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	4.5	0.0	0.0	0.0	0.0	2.3	2.3	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

(END OF REPORT)