

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: P651086

Luminaire Tested: **GALN-SA8C-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31577 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

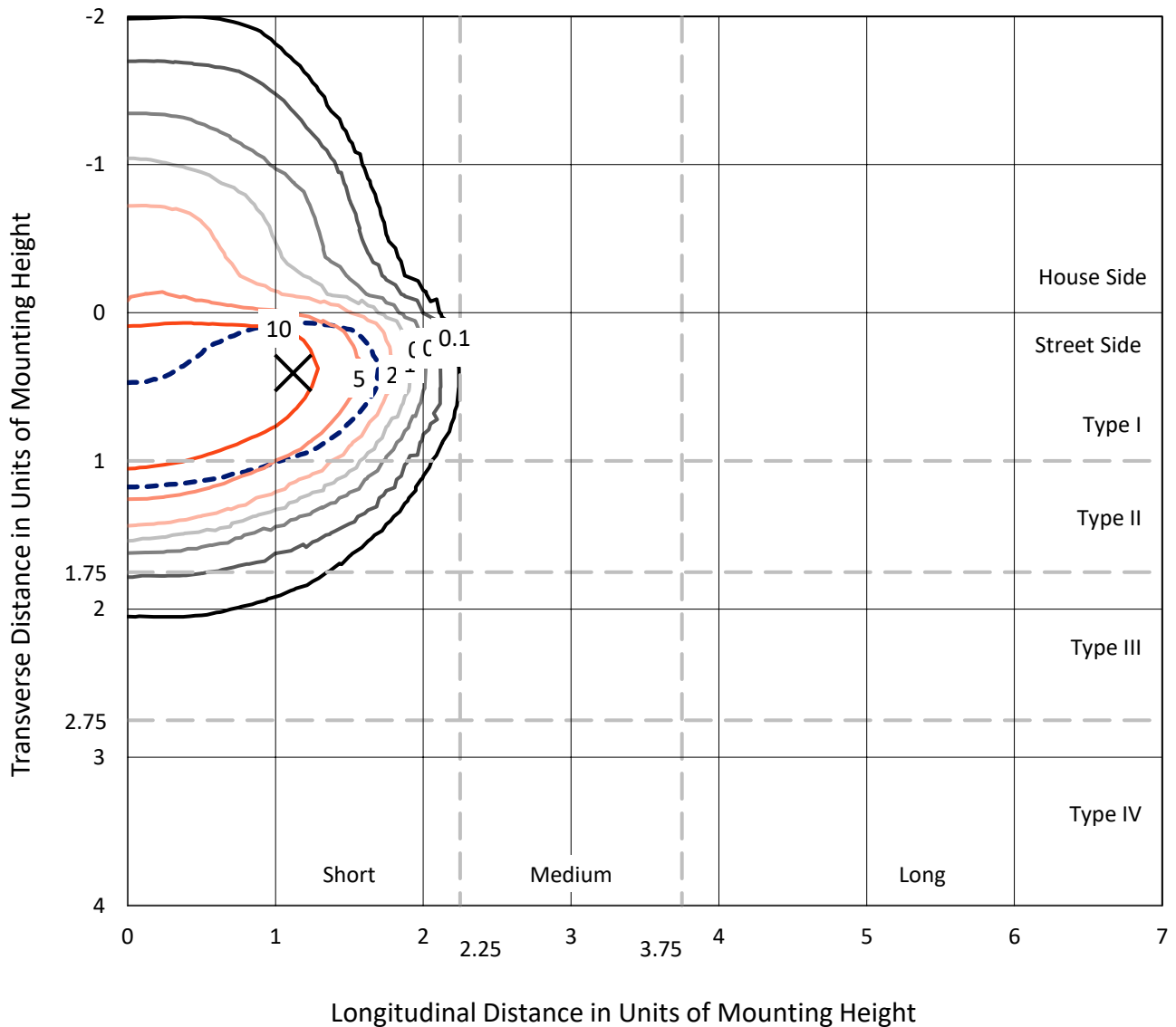
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651086  
 CATALOG NUMBER: GALN-SA8C-840-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

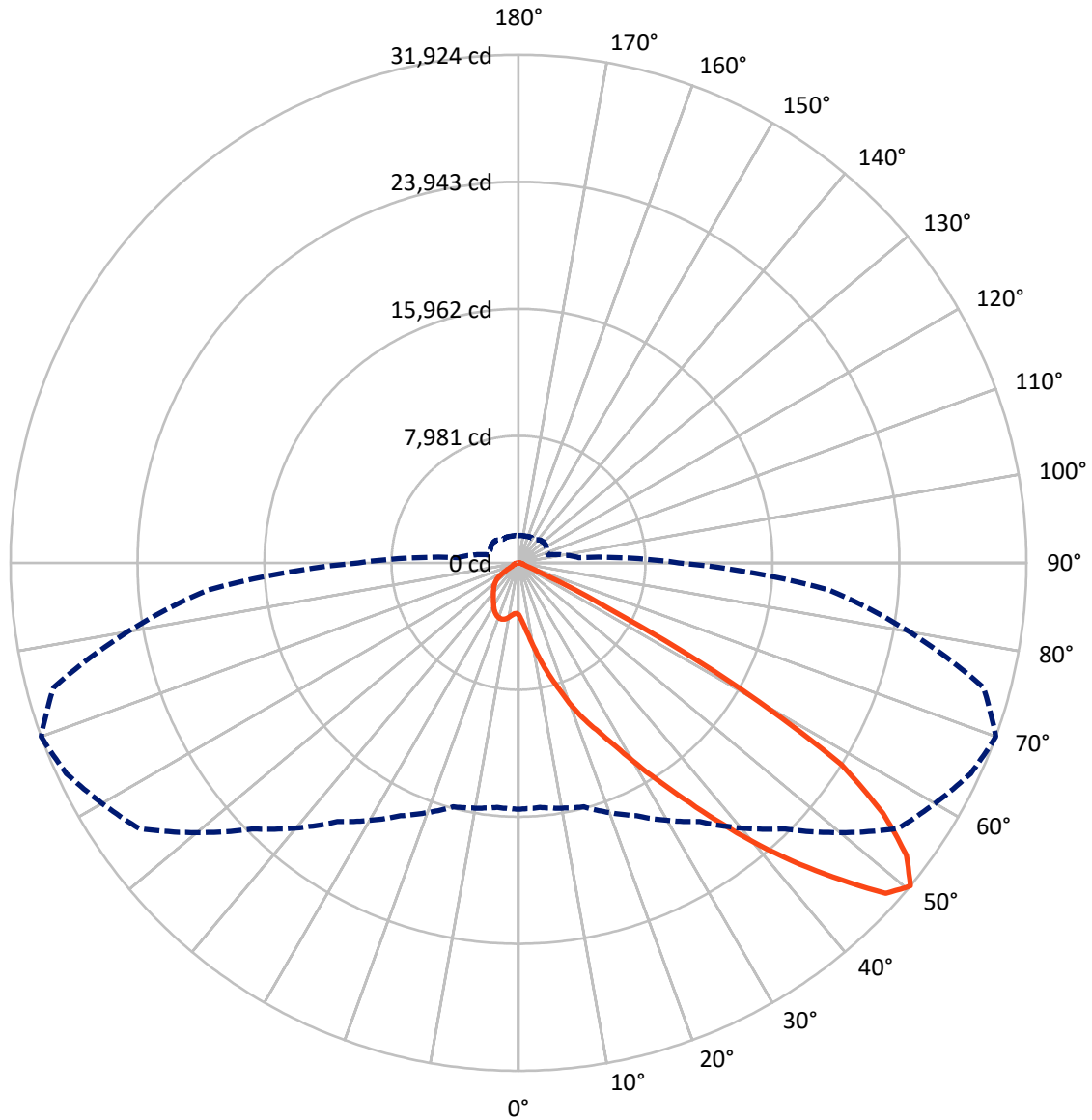
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type I - Short - N/A

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CATALOG NUMBER: GALN-SA8C-840-U-T2R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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CATALOG NUMBER: GALN-SA8C-840-U-T2R-GRSBK

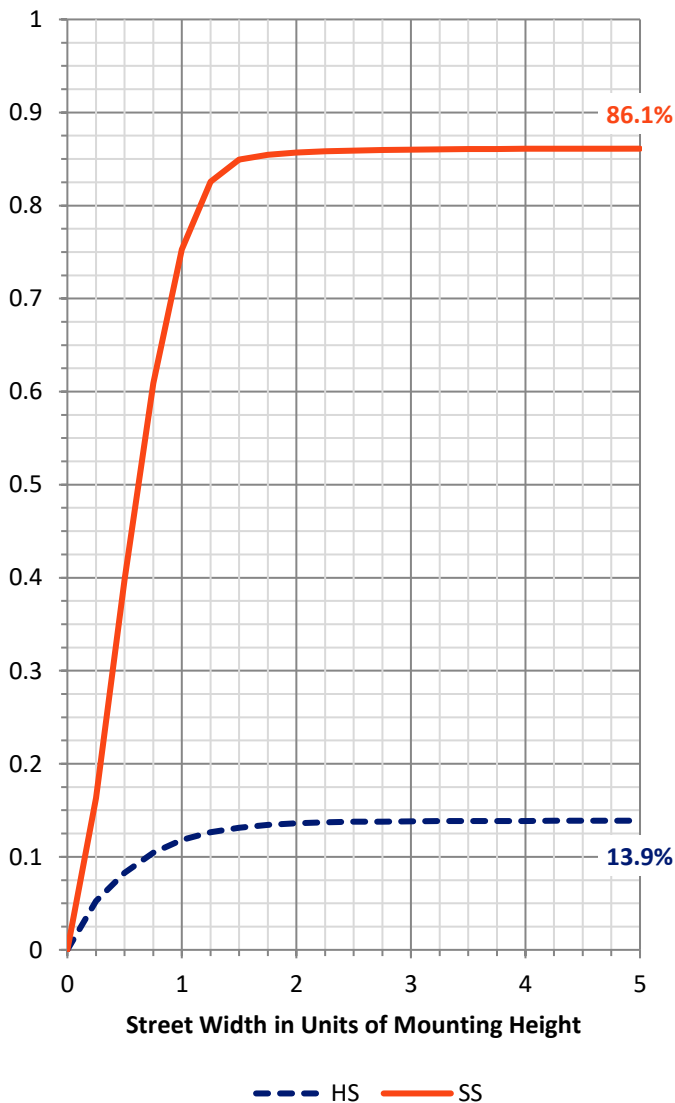
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4409.9	0.0	4409.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	27167.1	0.0	27167.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	31577.0	0.0	31577.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.3	1.3
10°-20°	1839.8	5.8
20°-30°	3859.5	12.2
30°-40°	6652.5	21.1
40°-50°	9722.6	30.8
50°-60°	7572.3	24.0
60°-70°	1283.0	4.1
70°-80°	176.3	0.6
80°-90°	45.6	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°	31577.0	100.0
0°-180°	31577.0	100.0

**Coefficient of Utilization**



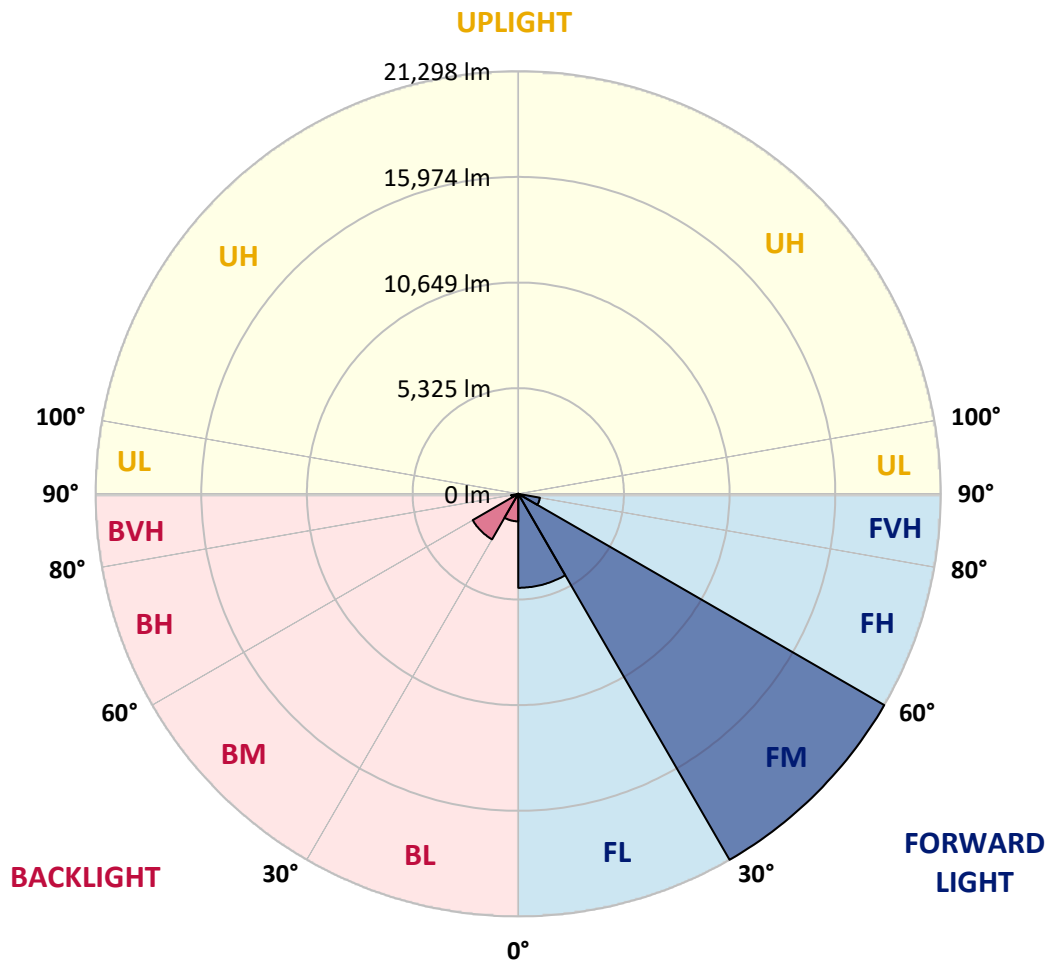
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 CATALOG NUMBER: GALN-SA8C-840-U-T2R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4736.9	15.0			
FM (30°-60°)	21298.2	67.4			
FH (60°-80°)	1110.9	3.5			G1/1800
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1387.7	4.4	B3/2500		
BM (30°-60°)	2649.3	8.4	B3/5000		
BH (60°-80°)	348.4	1.1	B1/500		G1/500
BVH (80°-90°)	24.5	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-G1**

Type I Short





REPORT NUMBER: P651086

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7
2.5°	4283.1	4252.0	4184.5	4059.9	4008.0	3883.4	3810.7	3670.5	3582.2	3483.6	3374.6
5°	6032.7	5871.8	5773.1	5632.9	5222.9	4968.5	4547.9	4189.7	4023.5	3841.9	3592.7
7.5°	7839.5	7735.6	7600.6	7299.5	7019.2	6489.6	5767.9	4978.8	4641.4	4329.9	3836.6
10°	9334.7	9043.9	9028.3	8805.1	8498.8	7865.4	6998.4	6017.2	5414.9	4958.0	4184.5
12.5°	10378.2	10113.4	10232.8	10206.9	9921.3	9339.8	8337.8	7039.9	6411.7	5700.5	4542.7
15°	11328.3	11219.2	11182.9	11151.7	11037.5	10606.6	9708.4	8286.0	7377.3	6520.8	4947.7
17.5°	12257.6	11977.2	12112.2	12138.2	12127.7	11738.4	10897.3	9469.7	8400.2	7387.8	5373.4
20°	13083.0	13109.0	12927.3	12890.9	12859.8	12844.3	12023.9	10642.9	9656.5	8296.3	5928.9
22.5°	14142.2	13960.4	14121.4	14017.5	13815.0	13690.5	13062.2	11681.2	10746.8	9391.8	6494.8
25°	15393.3	15538.7	15159.7	15118.2	14895.0	14464.0	13898.1	12844.3	11795.5	10409.3	7107.4
27.5°	16935.3	16680.9	16582.2	16353.7	15948.8	15767.2	15102.6	14043.5	13062.2	11478.8	7699.3
30°	18259.1	18191.7	17698.4	17428.5	17075.4	17070.3	16140.9	15668.5	14713.2	13155.7	8514.4
32.5°	19339.0	19043.1	18861.4	18674.5	18389.0	18466.8	17682.9	17433.7	16473.2	14713.2	9474.8
35°	20060.6	19847.8	19738.8	19453.3	19370.2	19718.0	19390.9	19287.1	18498.0	16904.1	10601.4
37.5°	20289.1	20356.6	20335.8	19977.6	20154.1	21093.8	21514.3	21244.3	20829.0	19214.4	11821.4
40°	20491.6	20538.3	20434.4	20854.9	21358.5	22428.0	23949.2	23502.8	23347.0	21555.8	13519.2
42.5°	20605.8	20569.4	20569.4	21296.3	22059.4	24208.8	26301.0	26005.1	25885.7	24047.9	15481.5
45°	20112.6	19759.5	20138.5	21124.9	22661.7	25086.2	28180.4	28590.6	28419.2	27012.3	17776.3
47.5°	18269.5	18487.5	18700.4	20019.1	21929.7	24816.2	29333.0	30729.6	31046.3	29504.3	19281.9
50°	15481.5	15434.9	15876.1	17537.5	19858.2	23653.3	29109.8	31347.3	31923.6	30251.9	19598.6
52.5°	11260.7	11603.4	12081.0	13732.0	16483.6	20642.1	26228.4	29753.5	30521.9	29333.0	19390.9
55°	6557.1	6178.1	7252.8	8649.3	11245.2	15569.9	22173.6	26373.8	27796.2	27661.2	18342.2
57.5°	2627.0	2543.9	2912.6	3924.9	5866.6	9651.3	16125.3	21670.0	23949.2	25335.4	16120.2
60°	1152.6	1126.6	1323.9	1599.1	2398.5	4449.3	8820.7	13477.6	15855.4	17703.6	11094.6
62.5°	830.7	820.3	919.0	1017.6	1266.8	1936.5	3706.9	5430.5	6770.0	8176.9	4968.5
65°	669.7	695.7	763.2	815.1	934.5	1074.7	1308.3	1510.8	1853.4	1920.9	1095.4
67.5°	545.1	565.9	628.2	685.3	706.1	581.5	602.2	529.6	529.6	472.5	379.0
70°	399.7	404.9	477.6	545.1	436.1	233.6	410.2	410.2	368.6	353.1	321.9
72.5°	295.9	301.1	358.3	337.5	171.3	145.4	301.1	332.3	301.1	285.5	259.6
75°	218.1	223.2	186.9	77.9	72.7	93.4	176.5	228.4	218.1	212.9	197.3
77.5°	41.5	31.1	26.0	36.3	51.9	77.9	114.2	140.2	145.4	155.8	145.4
80°	5.2	5.2	15.6	31.1	57.1	83.1	119.4	135.0	140.2	145.4	135.0
82.5°	0.0	5.2	15.6	31.1	57.1	77.9	103.9	119.4	129.8	135.0	129.8
85°	0.0	5.2	10.3	26.0	46.8	57.1	51.9	36.3	31.1	36.3	26.0
87.5°	0.0	0.0	5.2	5.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
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: P651086

CATALOG NUMBER: GALN-SA8C-840-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7	3270.7
2.5°	3312.3	3291.5	3218.8	3141.0	3073.4	3104.6	3073.4	3047.5	3057.9	3047.5	3037.1
5°	3494.0	3400.6	3244.8	3177.3	3120.2	3115.0	3099.4	3094.2	3099.4	3099.4	3052.7
7.5°	3665.3	3514.8	3348.6	3275.9	3208.5	3213.6	3177.3	3177.3	3172.1	3146.2	3135.8
10°	3924.9	3722.4	3509.6	3379.8	3296.7	3281.2	3244.8	3208.5	3208.5	3208.5	3156.5
12.5°	4210.5	3956.1	3665.3	3514.8	3416.1	3338.3	3281.2	3270.7	3213.6	3203.3	3177.3
15°	4459.7	4137.8	3769.2	3561.5	3436.9	3333.1	3244.8	3187.7	3161.7	3146.2	3125.4
17.5°	4703.6	4293.6	3826.3	3561.5	3426.5	3307.1	3213.6	3161.7	3099.4	3109.8	3068.3
20°	5030.8	4459.7	3841.9	3494.0	3327.8	3213.6	3089.1	3063.1	3026.8	2995.6	3006.0
22.5°	5347.4	4579.1	3795.1	3410.9	3172.1	3037.1	2974.9	2943.7	2928.1	2902.1	2865.8
25°	5632.9	4708.8	3722.4	3260.4	3006.0	2907.3	2850.2	2845.0	2808.7	2808.7	2741.2
27.5°	5923.7	4755.6	3597.8	3083.9	2860.6	2803.5	2777.6	2767.1	2751.6	2715.3	2668.5
30°	6255.9	4771.2	3416.1	2902.1	2730.8	2668.5	2704.8	2730.8	2663.4	2595.8	2616.6
32.5°	6531.1	4734.8	3198.1	2730.8	2637.4	2606.3	2678.9	2704.8	2627.0	2554.3	2518.0
35°	6863.4	4646.5	2985.2	2595.8	2543.9	2606.3	2668.5	2668.5	2512.7	2424.5	2403.7
37.5°	7367.0	4547.9	2787.9	2481.6	2445.3	2575.1	2658.1	2601.0	2357.0	2248.0	2222.0
40°	7906.9	4485.6	2595.8	2367.4	2393.4	2523.2	2569.8	2393.4	2144.1	2076.7	2055.9
42.5°	8690.9	4361.0	2424.5	2268.8	2346.6	2450.5	2450.5	2133.8	2040.4	2004.0	1998.8
45°	9666.9	4272.8	2274.0	2185.7	2279.1	2305.1	2222.0	1998.8	1931.3	1920.9	1926.1
47.5°	10144.6	4101.4	2118.2	2087.0	2154.6	2159.8	1941.7	1889.8	1832.6	1817.1	1806.7
50°	10071.9	3795.1	1915.7	1957.3	2050.7	1998.8	1770.4	1780.7	1728.8	1723.6	1697.6
52.5°	9563.1	3312.3	1713.3	1811.9	1915.7	1765.2	1630.2	1619.8	1619.8	1552.3	1526.3
55°	8478.0	2668.5	1469.2	1593.9	1718.4	1484.8	1448.5	1438.1	1412.1	1349.8	1334.2
57.5°	6712.9	1957.3	1105.8	1240.8	1458.9	1261.6	1256.4	1209.7	1142.2	1095.4	1095.4
60°	3992.4	1126.6	695.7	758.0	965.6	1022.7	1136.9	1116.2	1002.0	929.3	908.5
62.5°	1822.3	581.5	441.3	451.7	519.1	664.6	893.0	1033.2	872.2	747.6	737.2
65°	612.6	430.9	363.4	347.8	358.3	399.7	534.7	732.0	695.7	576.3	555.5
67.5°	373.8	384.2	342.6	316.7	316.7	311.5	306.3	332.3	410.2	399.7	404.9
70°	321.9	353.1	316.7	285.5	275.2	259.6	218.1	181.7	155.8	181.7	192.1
72.5°	259.6	280.4	270.0	244.0	218.1	197.3	155.8	119.4	88.2	77.9	77.9
75°	192.1	207.6	218.1	186.9	166.1	140.2	114.2	77.9	46.8	31.1	31.1
77.5°	140.2	155.8	161.0	145.4	124.6	98.6	72.7	51.9	26.0	10.3	10.3
80°	119.4	140.2	155.8	145.4	129.8	93.4	67.5	36.3	20.8	5.2	5.2
82.5°	114.2	140.2	155.8	140.2	124.6	88.2	67.5	41.5	15.6	5.2	5.2
85°	26.0	36.3	46.8	57.1	67.5	67.5	51.9	31.1	15.6	5.2	5.2
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	5.2	5.2	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)