

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: P651561

Luminaire Tested: **GALN-SA8D-840-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651561  
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-SA8D-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA 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: 42996.1 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

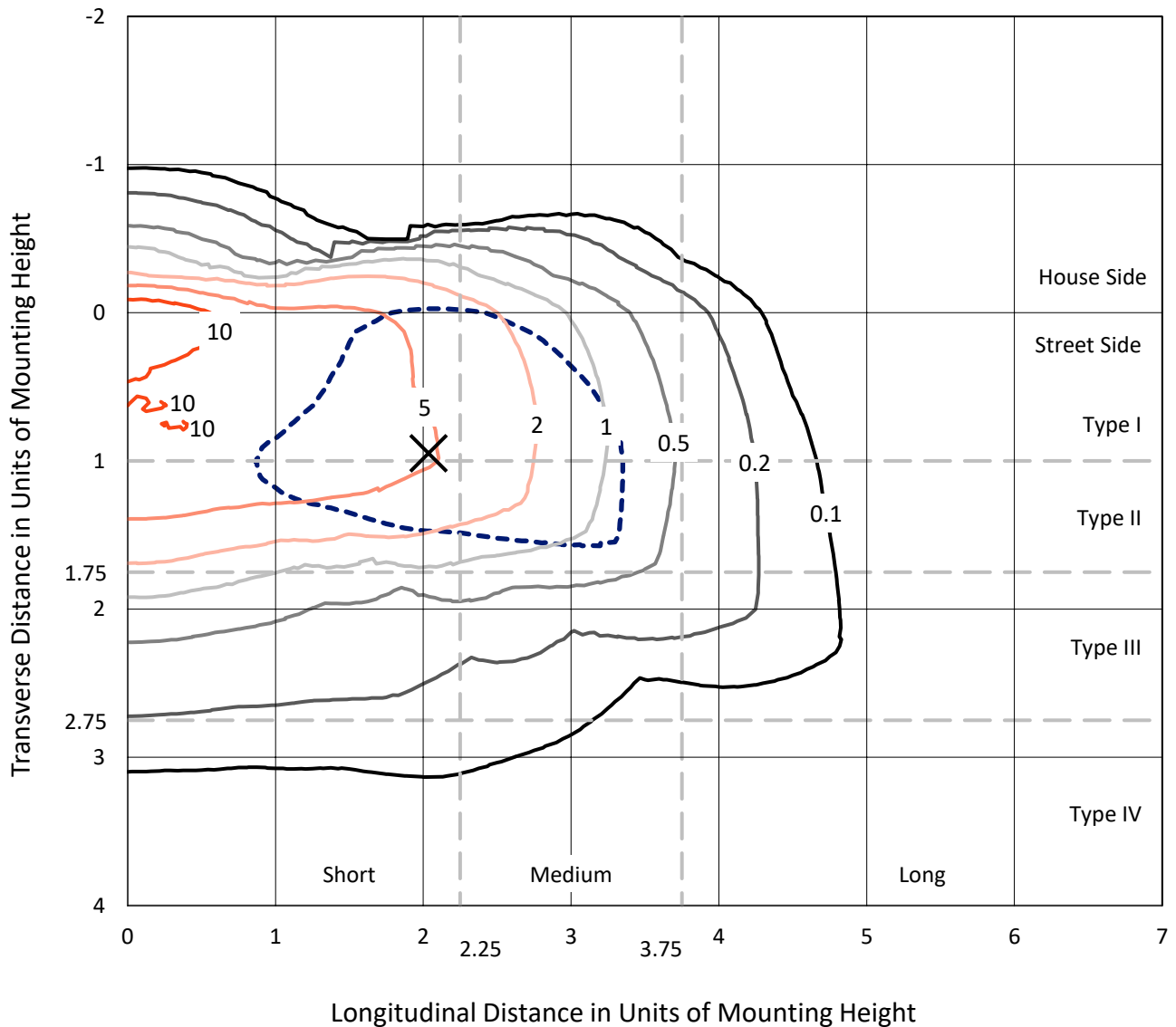
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651561  
 CATALOG NUMBER: GALN-SA8D-840-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

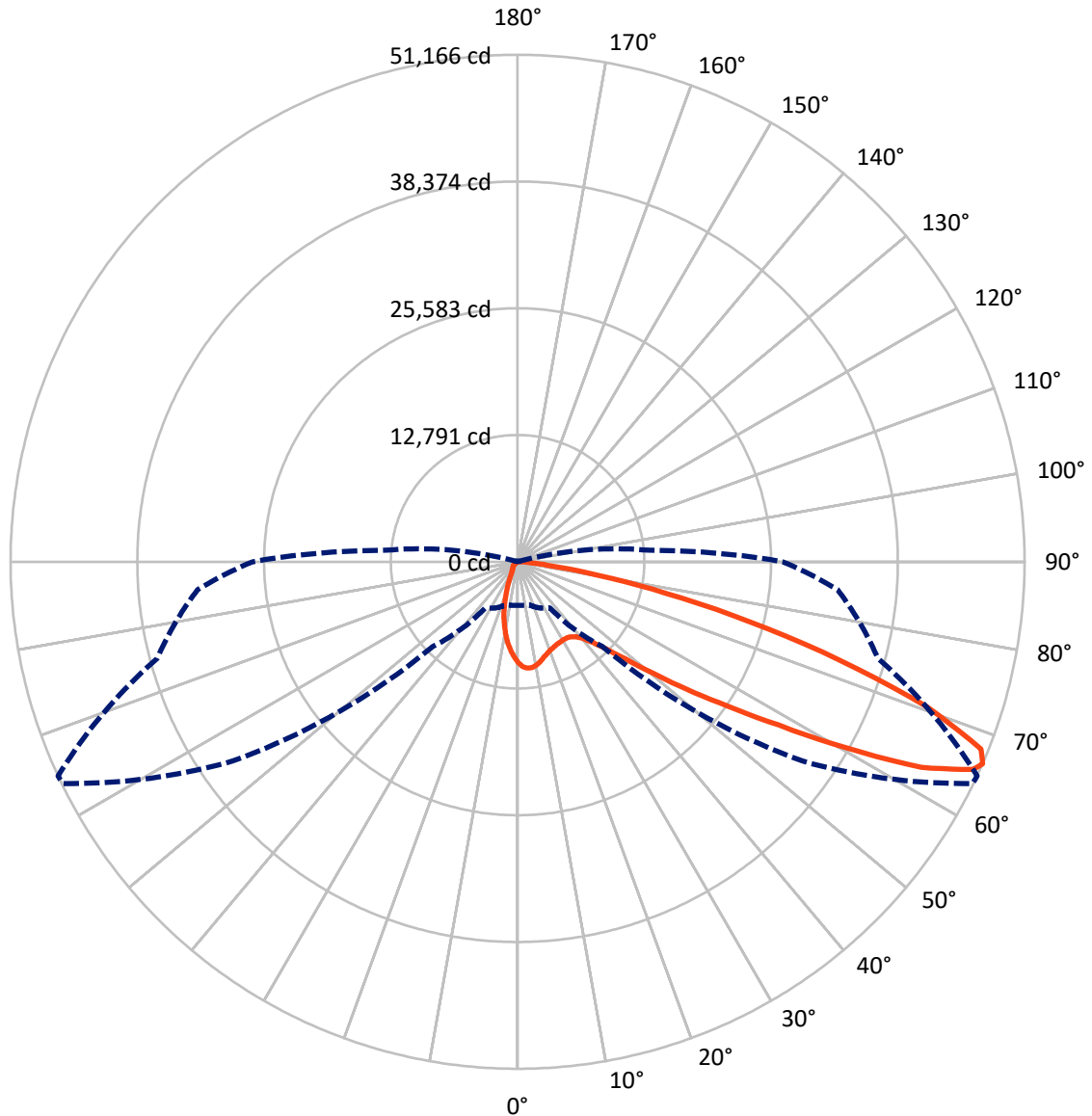
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P651561  
CATALOG NUMBER: GALN-SA8D-840-U-SL2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P651561  
 CATALOG NUMBER: GALN-SA8D-840-U-SL2-HSS

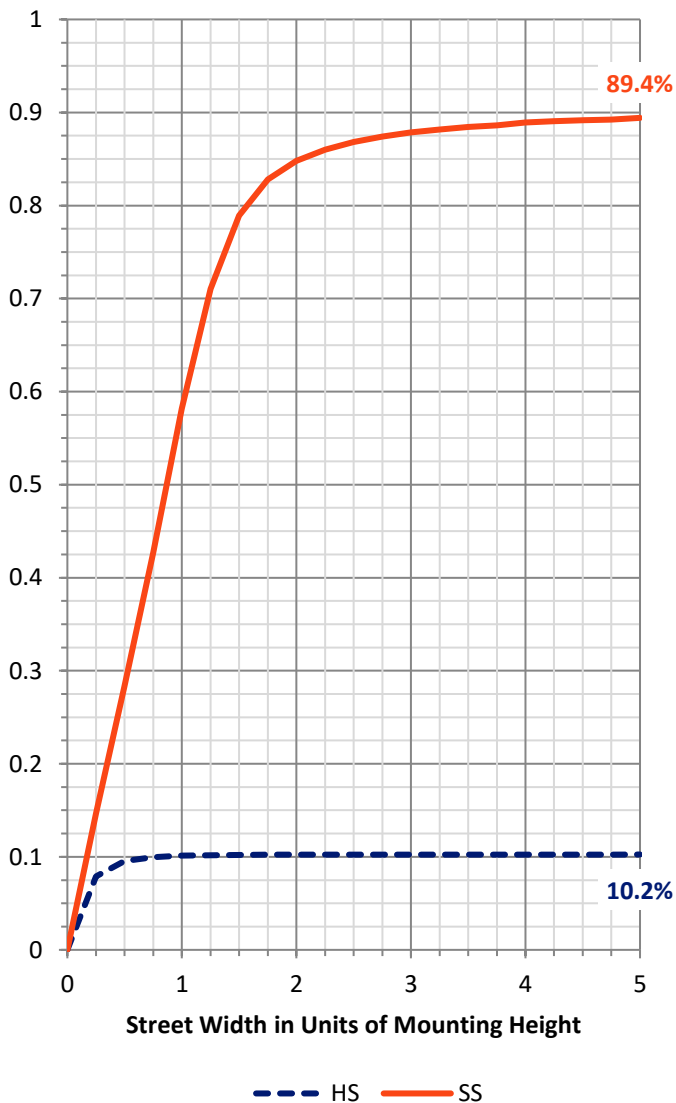
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4446.4	0.0	4446.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	38549.7	0.0	38549.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	42996.1	0.0	42996.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	833.9	1.9
10°-20°	1816.9	4.2
20°-30°	2602.7	6.1
30°-40°	3801.5	8.8
40°-50°	6374.4	14.8
50°-60°	10637.8	24.7
60°-70°	11291.7	26.3
70°-80°	5114.0	11.9
80°-90°	523.3	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°	42996.1	100.0
0°-180°	42996.1	100.0

**Coefficient of Utilization**

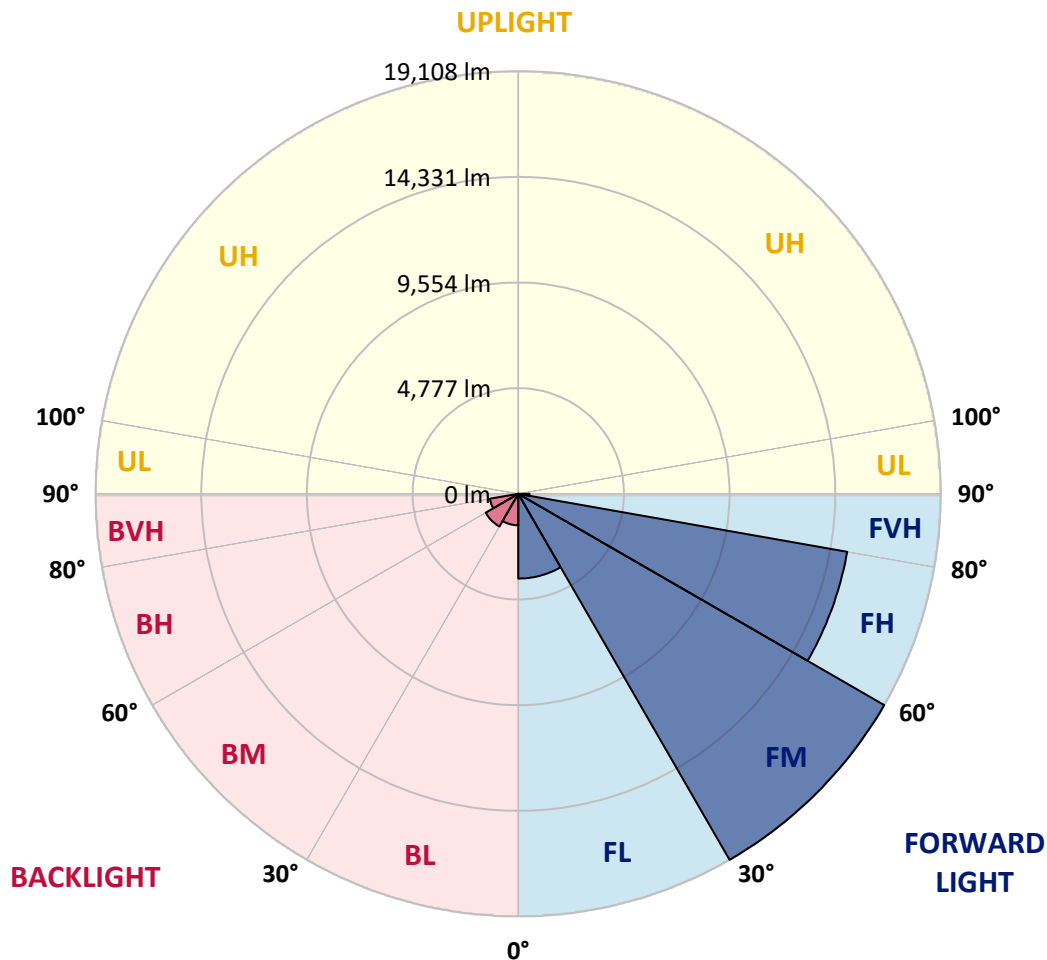


REPORT NUMBER: P651561  
 CATALOG NUMBER: GALN-SA8D-840-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3831.1	8.9			
FM (30°-60°)	19108.5	44.4			
FH (60°-80°)	15103.6	35.1			G5
FVH (80°-90°)	506.6	1.2			G4/750
BL (0°-30°)	1422.4	3.3	B3/2500		
BM (30°-60°)	1705.2	4.0	B2/2500		
BH (60°-80°)	1302.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	16.7	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: P651561

CATALOG NUMBER: GALN-SA8D-840-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9
2.5°	10744.8	10756.5	10770.9	10791.3	10805.8	10762.3	10701.3	10631.6	10617.0	10468.9	10288.9
5°	10169.8	10187.3	10315.0	10384.8	10541.5	10683.8	10773.9	10785.5	10779.7	10640.2	10352.8
7.5°	9350.9	9400.3	9525.2	9647.1	9940.5	10210.5	10529.9	10753.5	10768.1	10730.3	10373.1
10°	8685.8	8717.8	8781.7	9022.8	9266.7	9679.1	10126.3	10547.3	10582.2	10733.2	10355.7
12.5°	8166.0	8212.5	8290.9	8476.8	8770.1	9159.2	9667.5	10233.7	10306.3	10678.0	10306.3
15°	7803.1	7826.3	7904.7	8087.6	8372.2	8732.4	9246.4	9905.6	9969.5	10605.4	10297.6
17.5°	7631.7	7657.9	7713.1	7858.2	8093.4	8427.4	8929.8	9641.3	9722.6	10559.0	10329.6
20°	7678.2	7701.5	7704.3	7779.8	7939.5	8221.3	8697.5	9394.5	9499.0	10529.9	10381.8
22.5°	7942.5	7945.3	7910.5	7875.6	7930.9	8134.2	8555.2	9237.6	9345.1	10524.1	10442.8
25°	8337.4	8346.1	8288.1	8166.0	8055.7	8160.2	8523.3	9136.0	9231.8	10509.6	10480.5
27.5°	8883.3	8880.5	8863.0	8659.8	8346.1	8276.4	8549.4	9080.9	9162.1	10468.9	10495.1
30°	9647.1	9623.9	9586.1	9356.7	8877.5	8558.1	8659.8	9046.0	9121.5	10410.8	10457.3
32.5°	10399.2	10486.3	10480.5	10262.7	9664.5	9060.5	8889.2	9092.5	9147.6	10373.1	10402.2
35°	11276.3	11273.4	11497.0	11415.6	10715.8	9702.3	9281.2	9246.4	9289.9	10399.2	10376.0
37.5°	12089.4	12164.9	12513.3	12597.6	11958.7	10608.4	9835.8	9577.4	9591.9	10576.4	10439.9
40°	13102.9	13248.1	13767.9	14049.6	13486.2	11952.9	10654.8	10184.3	10187.3	11012.0	10681.0
42.5°	14409.7	14639.1	15124.0	15594.5	15292.5	13544.3	11883.2	11145.6	11139.8	11778.6	11232.7
45°	15998.2	16157.9	16709.7	17456.0	17264.3	15765.9	13672.1	12635.4	12559.8	13036.1	12211.3
47.5°	17368.8	17586.7	18147.1	18998.0	19869.2	18478.2	15809.4	14682.7	14633.3	15036.9	13889.9
50°	17967.1	18158.8	18748.2	19941.8	22053.0	22038.5	18992.2	17670.8	17586.7	17804.5	16486.0
52.5°	17310.8	17490.9	18086.1	19573.0	23081.1	26377.1	23603.8	21419.9	21318.3	21039.5	19587.6
55°	15063.1	15211.2	16091.1	17798.7	22686.1	29269.5	29957.8	26051.8	25656.9	24573.7	23098.5
57.5°	11993.6	11918.1	12464.0	14447.5	20368.7	30239.4	36480.1	31822.1	31116.4	27628.7	26069.2
60°	8311.3	8543.6	8764.3	10071.1	15315.7	28558.0	40537.0	39076.3	38147.0	30634.4	28915.2
62.5°	6110.0	6263.9	6409.2	7013.2	9629.7	22802.3	41254.3	46528.0	45703.2	33825.9	31630.4
65°	4832.3	4843.9	4901.9	5497.3	6345.3	14827.8	37807.2	50730.1	50518.1	36898.3	32731.0
66°	4402.5	4405.4	4495.4	5134.3	5694.7	12074.8	35045.6	51049.5	51165.7	37635.9	32408.7
67.5°	3847.8	3836.2	3966.9	4614.5	5186.5	8706.2	30102.9	49754.3	50442.6	38202.2	31250.0
70°	2982.4	2967.9	3127.6	3871.0	4777.1	5808.0	20008.6	42720.9	43830.1	37043.5	27649.1
72.5°	1986.4	1998.0	2271.0	3055.0	4559.3	5114.0	12037.1	32498.8	34066.9	30590.8	21751.0
75°	1158.7	1179.0	1489.7	2271.0	3958.2	4875.9	6812.8	23174.0	24175.9	21123.7	13550.1
77.5°	606.9	615.6	833.4	1498.5	3034.7	4527.4	4539.0	14804.6	15275.1	10265.7	5363.7
80°	322.4	313.6	447.2	903.1	2088.0	3975.6	3682.3	7838.0	8148.6	3049.2	1356.2
82.5°	121.9	133.6	238.1	592.4	1234.2	2854.6	3171.2	3464.5	3357.0	670.9	569.2
85°	23.2	29.0	101.7	351.4	621.5	1193.5	2337.7	1698.8	1573.9	252.6	328.2
87.5°	2.9	5.8	29.0	84.2	90.0	403.7	691.1	470.5	406.5	92.9	136.5
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: P651561  
 CATALOG NUMBER: GALN-SA8D-840-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9	10195.9
2.5°	10201.8	10123.4	9862.0	9603.5	9339.3	9101.1	8938.6	8674.2	8607.5	8511.7	8456.5
5°	10181.5	9998.5	9496.1	8947.2	8436.2	7884.4	7463.3	7056.7	6838.9	6728.6	6688.0
7.5°	10123.4	9833.0	9048.9	8189.3	7370.4	6545.7	5828.4	5282.4	4931.0	4690.0	4527.4
10°	10007.2	9606.5	8529.1	7347.1	6110.0	5021.0	4112.1	3420.9	2886.6	2718.1	2724.0
12.5°	9888.1	9353.8	7948.3	6412.0	4878.7	3505.1	2541.0	1995.0	1739.5	1655.3	1637.8
15°	9777.8	9112.7	7379.1	5506.0	3633.0	2271.0	1637.8	1446.2	1376.5	1362.0	1359.1
17.5°	9719.7	8889.2	6772.2	4469.2	2535.2	1542.1	1312.6	1260.3	1240.0	1225.5	1219.7
20°	9670.3	8694.6	6191.4	3499.3	1733.7	1263.3	1176.1	1126.8	1091.9	1077.4	1068.7
22.5°	9635.5	8494.2	5590.2	2709.4	1327.1	1121.0	1042.5	978.7	929.3	911.9	900.2
25°	9583.2	8273.5	4983.3	1980.6	1118.0	996.1	906.0	830.6	766.7	734.7	728.9
27.5°	9507.8	8023.7	4318.3	1466.5	998.9	885.7	775.4	682.5	618.6	583.7	586.6
30°	9385.7	7762.4	3653.2	1164.5	903.1	772.5	653.4	563.4	502.4	476.3	473.3
32.5°	9240.6	7445.9	3043.4	998.9	816.0	670.9	546.0	467.5	421.1	400.7	397.9
35°	9104.1	7126.5	2421.9	897.3	726.0	577.9	458.8	392.1	357.2	339.8	342.7
37.5°	9028.6	6841.9	1887.6	816.0	653.4	496.6	394.9	336.9	304.9	290.4	287.5
40°	9077.9	6609.5	1501.4	743.4	572.0	426.9	339.8	290.4	258.4	238.1	238.1
42.5°	9310.2	6507.9	1211.0	673.7	496.6	368.8	296.2	249.8	214.9	194.6	197.5
45°	10018.8	6615.3	1013.5	609.8	426.9	319.4	255.6	206.2	174.3	159.7	156.8
47.5°	11195.0	7019.0	877.0	543.0	365.9	273.0	214.9	171.3	139.4	127.7	124.9
50°	13251.0	7852.4	775.4	476.3	310.7	232.3	177.1	136.5	110.3	98.7	98.7
52.5°	16079.5	9670.3	702.7	400.7	261.4	197.5	145.2	110.3	87.1	78.4	75.5
55°	19035.8	11587.0	665.0	336.9	217.8	162.6	116.1	87.1	66.8	58.1	55.2
57.5°	21878.8	13091.3	621.5	273.0	174.3	124.9	90.0	66.8	46.4	40.6	37.8
60°	24605.6	14308.0	528.6	217.8	136.5	90.0	66.8	46.4	32.0	26.2	26.2
62.5°	27045.0	15016.6	415.3	174.3	104.5	63.9	43.6	34.8	23.2	17.4	17.4
65°	27329.6	14096.1	313.6	133.6	75.5	40.6	26.2	26.2	17.4	11.6	11.6
66°	26757.5	13314.9	275.8	121.9	66.8	34.8	23.2	20.4	14.5	8.7	8.7
67.5°	25479.8	11981.9	238.1	104.5	55.2	26.2	17.4	17.4	11.6	5.8	5.8
70°	22015.3	9786.5	188.7	78.4	40.6	20.4	11.6	11.6	8.7	5.8	5.8
72.5°	16779.4	7306.4	153.9	58.1	29.0	14.5	8.7	8.7	8.7	5.8	5.8
75°	10120.4	3935.0	119.1	43.6	26.2	11.6	5.8	8.7	11.6	8.7	5.8
77.5°	3728.7	1338.8	92.9	34.8	20.4	11.6	5.8	5.8	11.6	8.7	8.7
80°	914.8	348.5	66.8	29.0	20.4	11.6	5.8	5.8	11.6	11.6	11.6
82.5°	423.9	148.1	46.4	26.2	20.4	11.6	5.8	5.8	8.7	11.6	11.6
85°	244.0	69.7	37.8	29.0	20.4	11.6	5.8	5.8	8.7	11.6	11.6
87.5°	98.7	34.8	34.8	29.0	23.2	14.5	5.8	5.8	5.8	8.7	8.7
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)