

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: P456979

Luminaire Tested: **GALN-SA8B-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37646 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

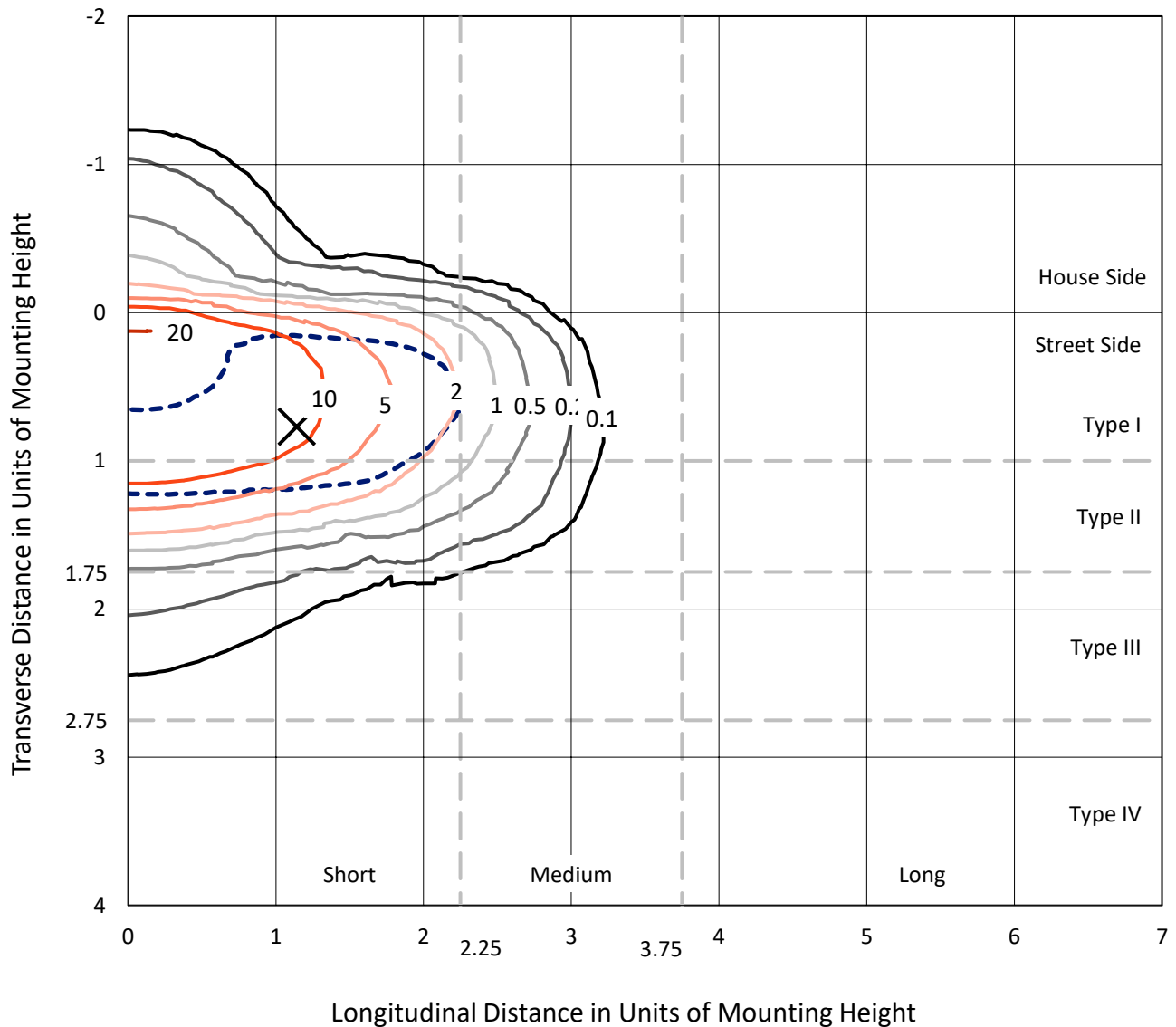
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456979  
 CATALOG NUMBER: GALN-SA8B-740-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

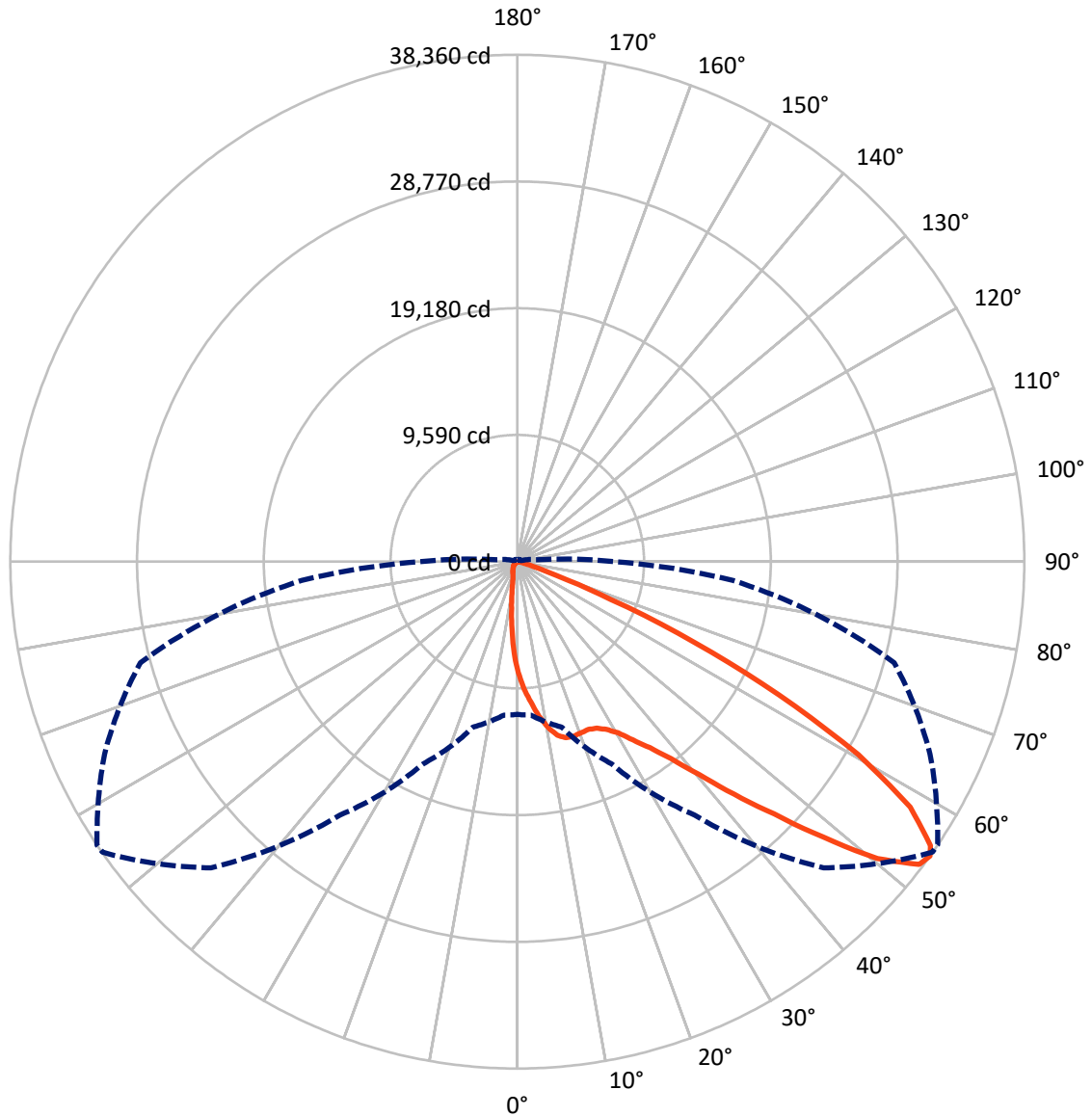
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P456979  
CATALOG NUMBER: GALN-SA8B-740-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P456979  
 CATALOG NUMBER: GALN-SA8B-740-U-AFL-HSS

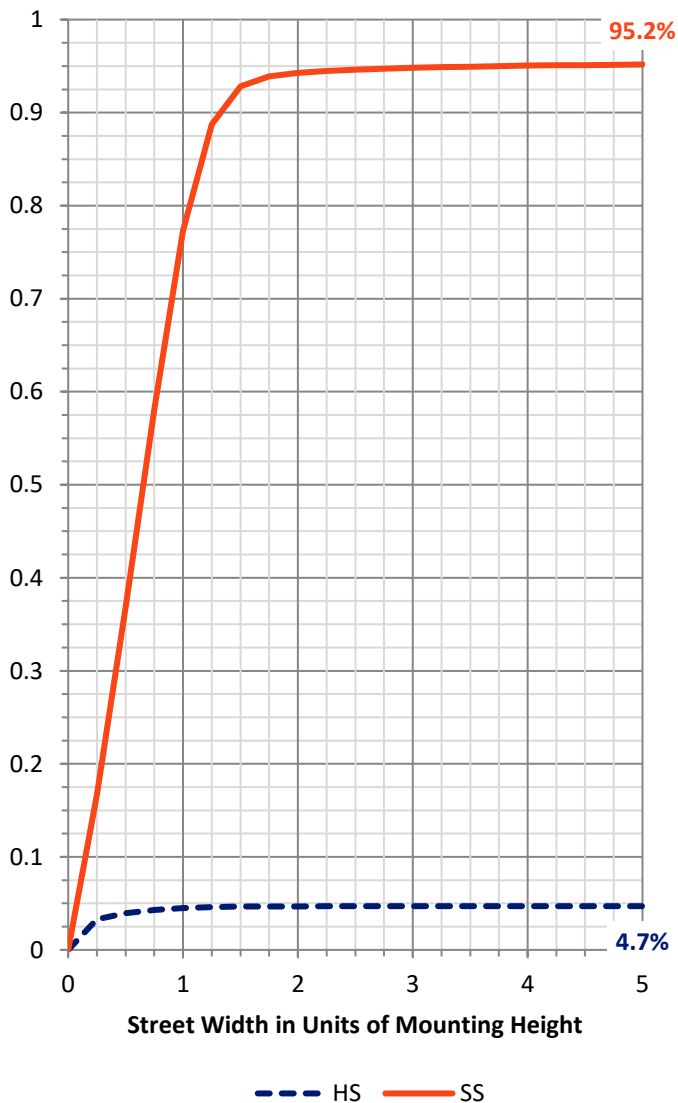
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1780.2	0.0	1780.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	35865.8	0.0	35865.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	37646.0	0.0	37646.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	739.1	2.0
10°-20°	1998.0	5.3
20°-30°	3460.3	9.2
30°-40°	5973.1	15.9
40°-50°	10166.4	27.0
50°-60°	10060.9	26.7
60°-70°	4592.0	12.2
70°-80°	589.7	1.6
80°-90°	66.5	0.2
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°	37646.0	100.0
0°-180°	37646.0	100.0



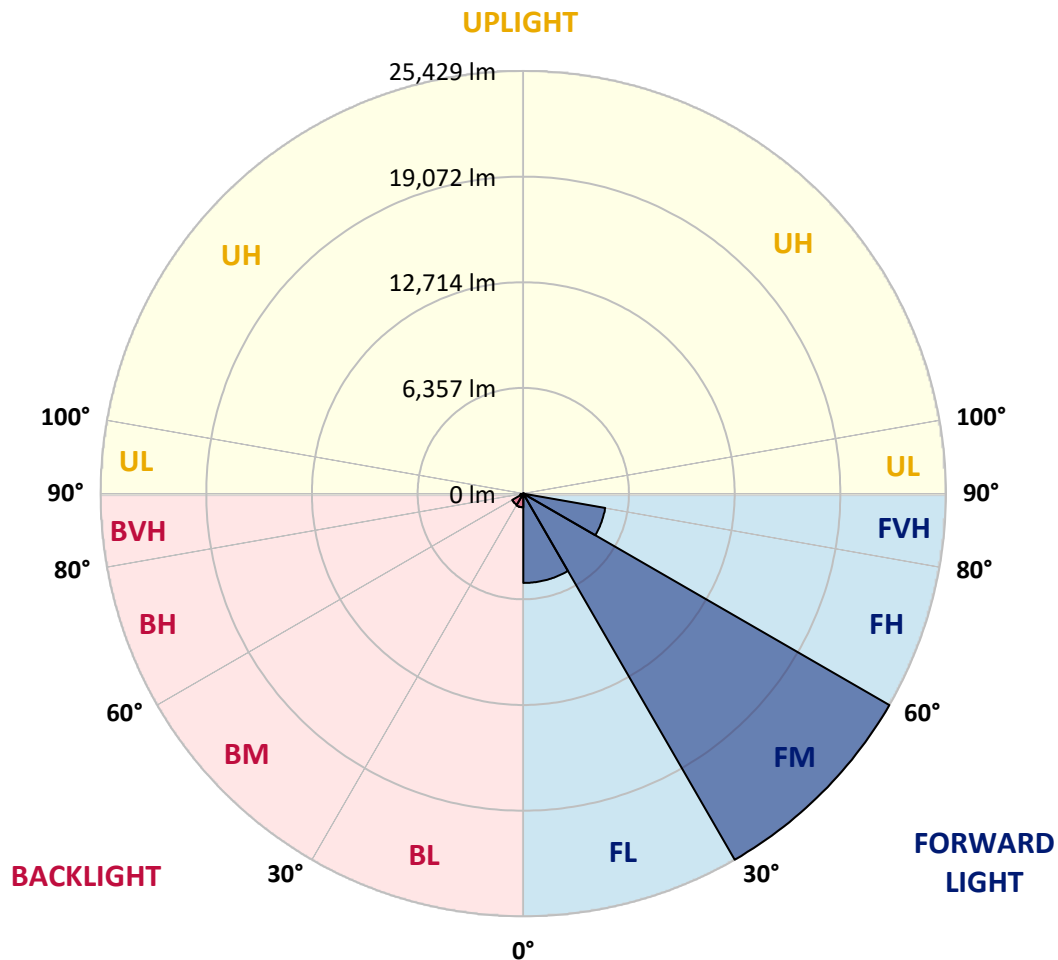
REPORT NUMBER: P456979  
 CATALOG NUMBER: GALN-SA8B-740-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5374.1	14.3			
FM (30°-60°)	25428.9	67.5			
FH (60°-80°)	5003.5	13.3			G3/7500
FVH (80°-90°)	59.3	0.2			G1/100
BL (0°-30°)	823.3	2.2	B2/1000		
BM (30°-60°)	771.5	2.0	B1/1000		
BH (60°-80°)	178.3	0.5	B1/500		G1/500
BVH (80°-90°)	7.1	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-G3**

Type II Short





REPORT NUMBER: P456979

CATALOG NUMBER: GALN-SA8B-740-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9
2.5°	10629.4	10555.8	10454.2	10375.5	10190.0	9923.4	9641.4	9641.4	9369.7	8991.2	8605.1
5°	12260.1	12211.8	12112.7	11909.5	11701.3	11327.9	10761.5	10662.5	10177.3	9491.6	8770.2
7.5°	12923.0	12945.8	12950.9	12897.6	12798.5	12430.2	11868.9	11800.3	11025.7	10106.2	8986.1
10°	12288.0	12399.7	12509.0	12729.9	13042.3	13131.2	12813.7	12742.6	11980.7	10728.5	9219.8
12.5°	11343.2	11404.1	11465.1	11813.0	12440.4	13159.2	13491.9	13489.4	12844.2	11348.2	9517.0
15°	10903.7	10957.1	10962.2	11117.1	11660.6	12707.1	13781.4	13819.5	13687.5	12112.7	9837.0
17.5°	10995.2	11038.4	11002.8	11040.9	11325.4	12209.3	13748.4	13875.4	14370.7	12846.8	10126.5
20°	11592.1	11675.9	11538.7	11432.0	11518.4	12077.2	13636.7	13814.5	14853.3	13563.0	10390.7
22.5°	12663.9	12709.6	12536.9	12244.8	12092.4	12354.0	13606.2	13781.4	15264.7	14149.7	10543.1
25°	13855.1	13839.9	13649.4	13321.7	13001.7	12912.8	13806.8	13964.3	15605.1	14678.0	10588.8
27.5°	15046.3	15092.0	14772.0	14365.6	13982.1	13751.0	14256.4	14373.2	15988.6	15280.0	10644.7
30°	16430.6	16356.9	16041.9	15577.1	15137.7	14815.2	14980.3	15013.3	16516.9	16077.5	10792.0
32.5°	18231.3	18028.1	17675.1	16862.3	16547.4	16001.3	16041.9	16082.6	17159.5	16867.4	10969.8
35°	20674.7	20664.5	19973.7	18879.0	18112.0	17433.8	17256.0	17289.0	18132.3	18040.8	11363.5
37.5°	23615.9	23656.5	22869.2	21766.9	20354.7	19277.8	18912.0	18917.1	19610.5	19661.3	11962.9
40°	26011.0	26117.7	25647.8	24903.6	23509.2	21825.3	21210.6	21154.7	21688.1	21624.6	12818.8
42.5°	27042.2	27141.3	27316.5	27575.6	26808.5	25419.2	23968.9	24045.1	24207.7	23763.2	13778.9
45°	26536.8	26694.2	27382.6	28982.7	29704.0	29236.7	27507.0	27240.3	26552.0	26087.2	14744.1
47.5°	24431.2	24814.7	25965.3	28629.6	31154.3	32734.1	31499.7	31146.7	28898.9	27783.9	15358.7
50°	20969.3	20992.2	22594.9	26000.9	30402.5	34941.3	35576.2	35312.1	31085.7	28736.3	15668.6
52.5°	15201.2	15701.6	17169.7	21114.1	27146.3	34606.0	38174.6	38065.3	33341.1	29224.0	16115.6
54°	11556.5	11653.0	12958.5	16872.5	23405.1	32764.6	38334.6	38360.0	34461.2	29518.6	16379.8
55°	9473.8	9242.7	10614.2	14373.2	20852.5	31136.5	37811.3	37933.3	34964.1	29671.0	16575.3
57.5°	4490.5	4493.1	5542.0	7581.6	13060.1	24177.2	34613.6	35045.4	35020.0	29932.6	17177.3
60°	2273.2	2288.4	2519.6	3500.0	6451.3	16072.4	28619.5	29648.1	32325.2	29970.7	17375.4
62.5°	1590.0	1572.2	1534.1	1683.9	2715.1	8168.3	21307.1	22201.2	27463.8	28520.4	16745.5
65°	1361.4	1323.3	1216.6	1193.7	1371.5	3253.6	13270.9	14728.8	20969.3	24695.4	14952.3
67.5°	1163.3	1148.0	1051.5	993.1	970.2	1417.3	6847.5	7614.6	14332.6	17751.3	11325.4
70°	988.0	980.4	922.0	848.3	784.8	848.3	2539.9	3146.9	7988.0	9557.6	5343.9
72.5°	802.6	810.2	820.4	726.4	660.4	602.0	1084.5	1262.3	3342.5	3416.2	1869.4
75°	703.5	695.9	695.9	632.4	551.2	447.0	596.9	642.6	1023.6	949.9	434.3
77.5°	495.3	477.5	558.8	520.7	459.7	317.5	340.3	360.7	424.2	363.2	203.2
80°	342.9	342.9	358.1	467.3	414.0	231.1	208.3	223.5	251.4	215.9	116.8
82.5°	193.0	198.1	233.7	248.9	241.3	154.9	137.2	139.7	167.6	147.3	73.7
85°	22.9	38.1	134.6	132.1	99.1	68.6	76.2	78.7	104.1	91.4	43.2
87.5°	2.5	5.1	27.9	35.6	25.4	27.9	27.9	27.9	35.6	40.6	30.5
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: P456979

CATALOG NUMBER: GALN-SA8B-740-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9	8363.9
2.5°	8396.9	8203.8	7744.1	7210.7	6870.4	6316.7	5849.4	5511.6	5427.7	5265.2	5313.5
5°	8386.7	7985.4	7048.2	6057.6	5001.0	4213.7	3627.0	3164.7	2961.5	2826.9	2732.9
7.5°	8391.8	7764.4	6260.8	4683.6	3421.2	2649.1	2105.6	1823.6	1635.7	1557.0	1567.1
10°	8407.0	7515.5	5346.5	3469.5	2308.8	1711.9	1379.2	1244.5	1181.0	1170.9	1168.3
12.5°	8442.6	7243.8	4472.7	2575.4	1615.4	1244.5	1117.6	1071.8	1051.5	1051.5	1043.9
15°	8480.7	6944.1	3746.3	1915.1	1244.5	1069.3	1010.9	988.0	975.3	975.3	972.8
17.5°	8480.7	6598.6	3068.2	1485.8	1071.8	982.9	937.2	906.7	896.6	896.6	894.0
20°	8427.4	6197.3	2466.2	1196.3	972.8	901.7	855.9	822.9	810.2	805.1	802.6
22.5°	8241.9	5661.4	1963.3	1028.7	891.5	830.5	772.1	734.0	723.9	718.8	721.3
25°	7911.8	5056.9	1554.4	904.2	817.8	744.2	693.4	665.5	655.3	655.3	657.8
27.5°	7571.4	4424.5	1231.8	810.2	728.9	662.9	622.3	604.5	602.0	609.6	612.1
30°	7256.5	3789.5	998.2	734.0	650.2	594.3	566.4	561.3	561.3	563.9	566.4
32.5°	6906.0	3233.3	835.6	668.0	586.7	538.5	523.2	523.2	528.3	528.3	533.4
35°	6685.0	2755.8	734.0	604.5	538.5	497.8	487.7	490.2	497.8	508.0	513.1
37.5°	6565.6	2374.8	668.0	553.7	492.7	464.8	454.6	459.7	477.5	495.3	497.8
40°	6575.8	2087.8	614.7	510.5	457.2	426.7	419.1	434.3	452.1	469.9	472.4
42.5°	6687.5	1874.4	563.9	459.7	426.7	383.5	381.0	396.2	403.8	421.6	424.2
45°	6819.6	1719.5	510.5	406.4	370.8	332.7	335.3	348.0	358.1	386.1	391.1
47.5°	6860.2	1612.8	449.6	345.4	304.8	292.1	294.6	302.2	322.6	348.0	350.5
50°	6906.0	1546.8	391.1	292.1	259.1	256.5	259.1	264.1	276.8	287.0	284.5
52.5°	7101.5	1544.3	342.9	254.0	221.0	226.1	228.6	226.1	215.9	200.7	195.6
54°	7284.4	1551.9	320.0	236.2	203.2	210.8	208.3	195.6	170.2	154.9	147.3
55°	7431.7	1559.5	307.3	223.5	193.0	195.6	198.1	172.7	139.7	124.5	119.4
57.5°	7721.3	1541.7	276.8	195.6	170.2	160.0	157.5	114.3	76.2	66.0	61.0
60°	7576.5	1391.9	251.4	167.6	144.8	129.5	106.7	63.5	38.1	27.9	27.9
62.5°	7007.6	1181.0	223.5	137.2	119.4	99.1	55.9	35.6	17.8	10.2	7.6
65°	6268.4	993.1	200.7	109.2	94.0	63.5	30.5	22.9	7.6	0.0	0.0
67.5°	4660.7	736.6	170.2	86.4	71.1	40.6	20.3	12.7	2.5	0.0	0.0
70°	2158.9	449.6	144.8	66.0	50.8	30.5	15.2	7.6	0.0	0.0	0.0
72.5°	619.7	281.9	119.4	48.3	35.6	25.4	12.7	5.1	2.5	0.0	0.0
75°	215.9	226.1	88.9	35.6	27.9	17.8	10.2	5.1	2.5	0.0	0.0
77.5°	129.5	182.9	55.9	30.5	22.9	15.2	10.2	5.1	2.5	2.5	0.0
80°	73.7	121.9	35.6	25.4	20.3	12.7	7.6	5.1	2.5	2.5	0.0
82.5°	40.6	58.4	27.9	22.9	17.8	12.7	7.6	5.1	2.5	2.5	2.5
85°	33.0	30.5	22.9	20.3	15.2	10.2	7.6	2.5	0.0	0.0	0.0
87.5°	25.4	20.3	20.3	20.3	15.2	10.2	7.6	2.5	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)