

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: P528647

Luminaire Tested: **GALN-SA3D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12276 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

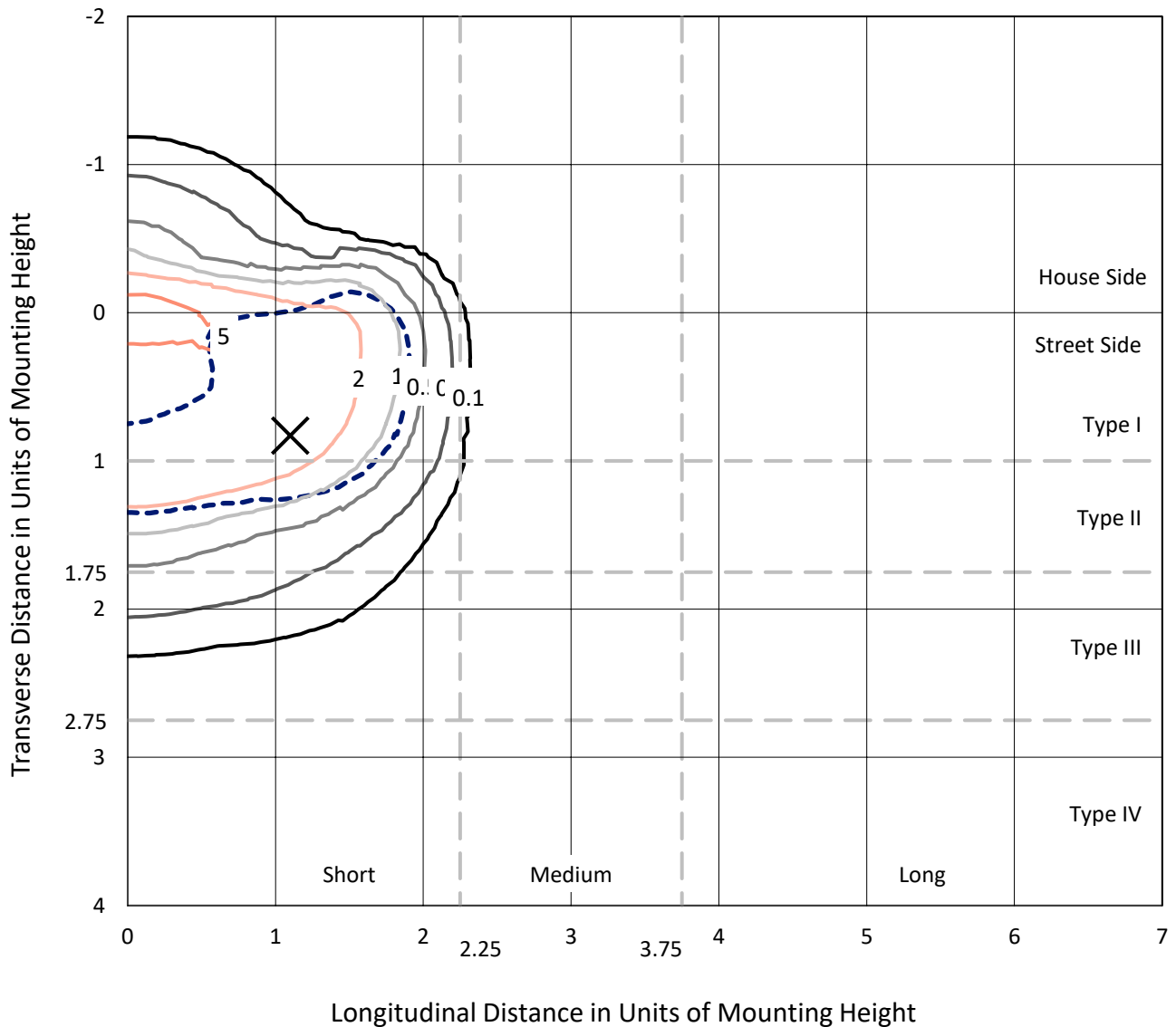
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528647  
 CATALOG NUMBER: GALN-SA3D-730-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

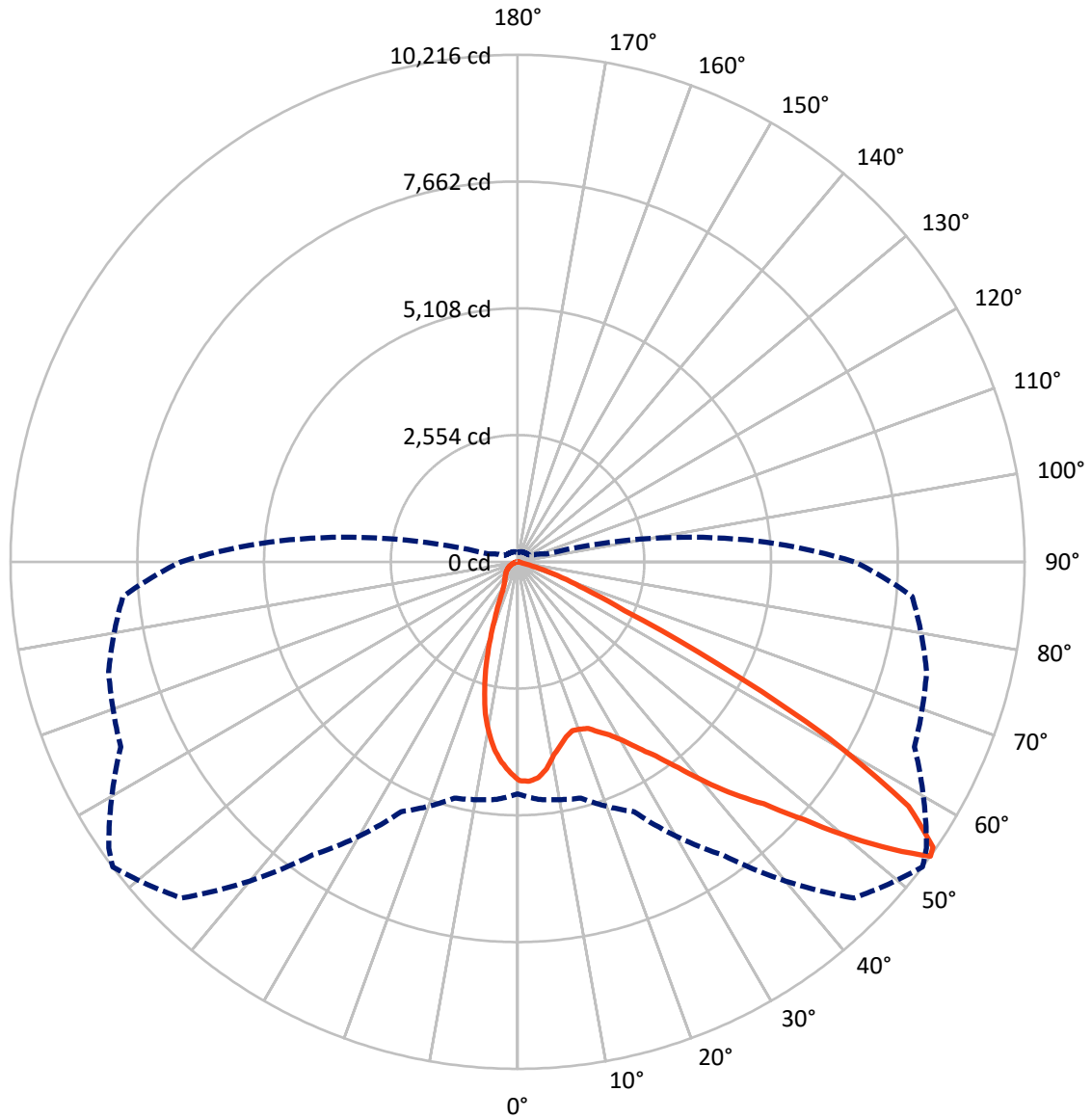
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P528647  
CATALOG NUMBER: GALN-SA3D-730-U-SL2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P528647  
 CATALOG NUMBER: GALN-SA3D-730-U-SL2-GRSBK

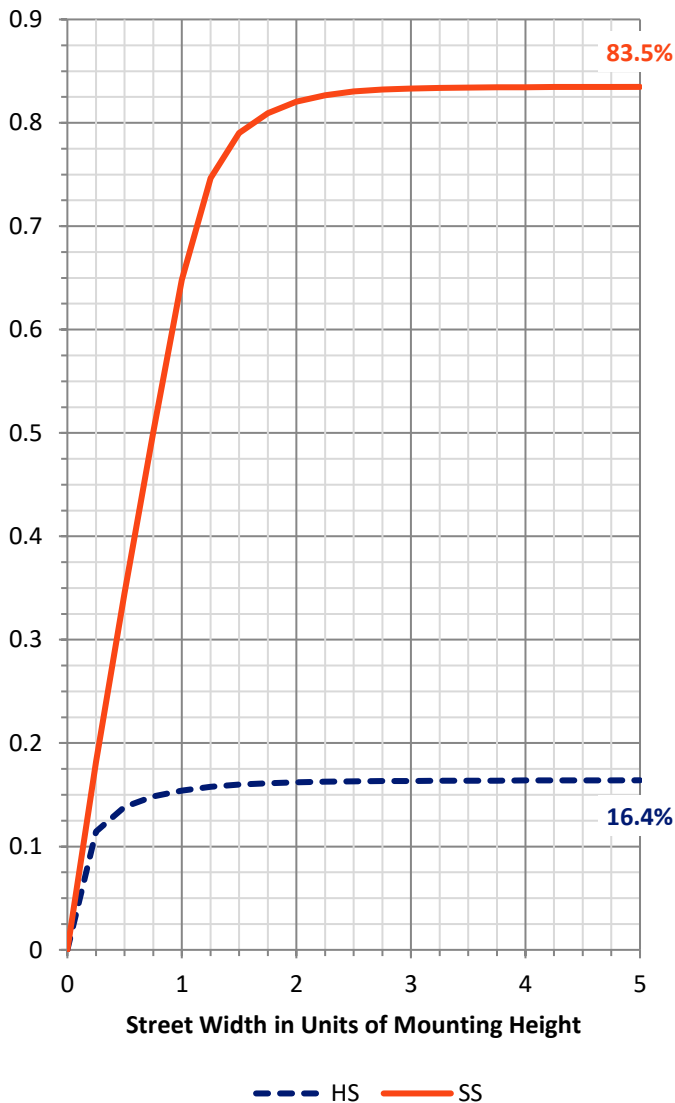
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2031.1	0.0	2031.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10244.9	0.0	10244.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12276.0	0.0	12276.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.3	3.1
10°-20°	867.3	7.1
20°-30°	1232.7	10.0
30°-40°	1902.4	15.5
40°-50°	2982.7	24.3
50°-60°	3464.9	28.2
60°-70°	1309.2	10.7
70°-80°	124.5	1.0
80°-90°	14.0	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°	12276.0	100.0
0°-180°	12276.0	100.0

**Coefficient of Utilization**



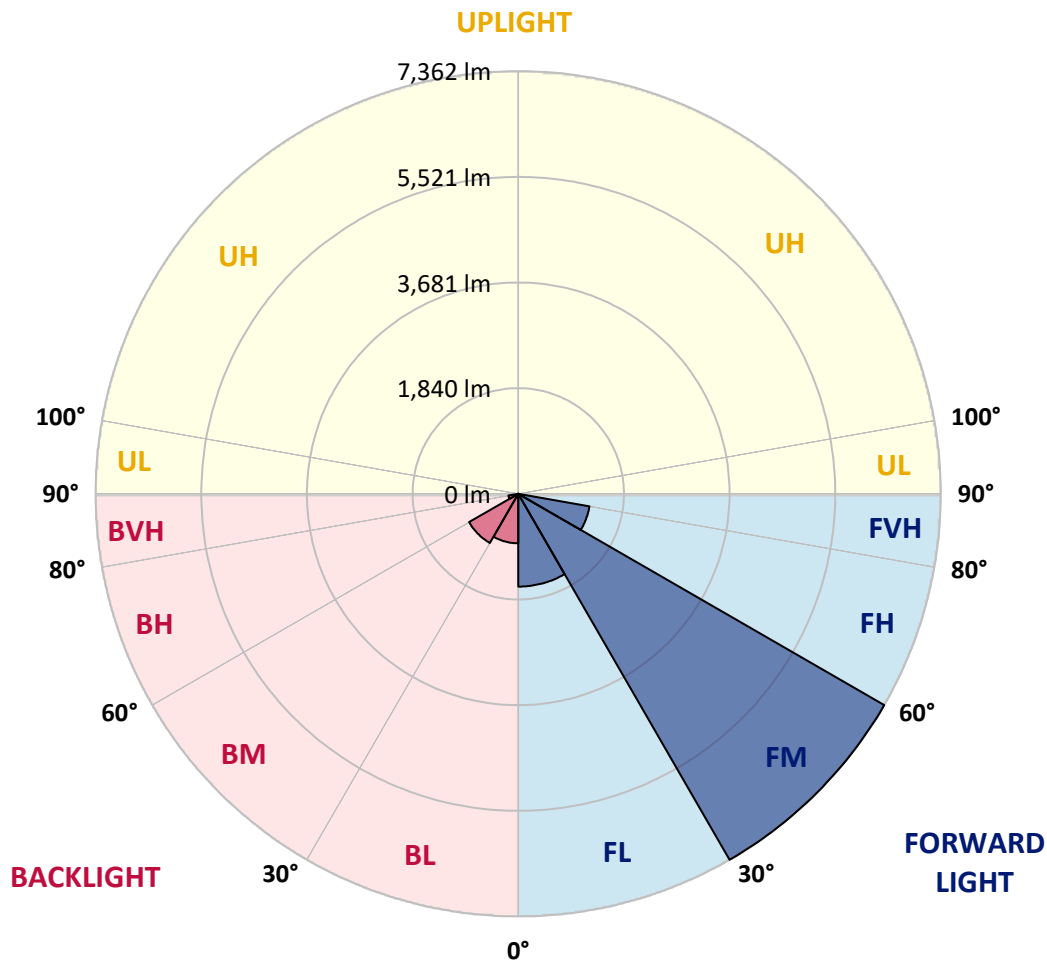
REPORT NUMBER: P528647  
 CATALOG NUMBER: GALN-SA3D-730-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.4	13.2			
FM (30°-60°)	7361.5	60.0			
FH (60°-80°)	1259.7	10.3			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	861.9	7.0	B2/1000		
BM (30°-60°)	988.4	8.1	B1/1000		
BH (60°-80°)	174.0	1.4	B1/500		G1/500
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P528647

CATALOG NUMBER: GALN-SA3D-730-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3
2.5°	4386.5	4347.6	4386.5	4391.0	4418.5	4443.6	4427.6	4464.2	4443.6	4420.8	4413.9
5°	4032.0	4084.6	4086.9	4169.2	4150.9	4301.8	4368.2	4349.9	4461.9	4455.1	4439.1
7.5°	3714.1	3693.5	3720.9	3817.0	3938.2	4112.0	4208.1	4205.8	4365.9	4480.2	4468.8
10°	3419.1	3416.8	3474.0	3549.4	3652.3	3835.3	3967.9	4034.3	4283.5	4457.4	4482.5
12.5°	3220.1	3210.9	3272.7	3334.4	3496.8	3638.6	3807.9	3839.9	4125.7	4377.3	4418.5
15°	3089.7	3110.3	3114.9	3233.8	3336.7	3524.3	3656.9	3723.2	4052.6	4313.3	4471.1
17.5°	3066.9	3094.3	3096.6	3194.9	3304.7	3462.5	3579.2	3668.3	3990.8	4345.3	4473.4
20°	3112.6	3096.6	3110.3	3172.1	3279.6	3430.5	3599.7	3629.5	3970.2	4361.3	4498.5
22.5°	3243.0	3238.4	3204.1	3254.4	3329.9	3487.7	3647.8	3693.5	4029.7	4443.6	4519.1
25°	3387.0	3412.2	3380.2	3373.3	3425.9	3581.4	3794.1	3853.6	4228.7	4592.3	4583.1
27.5°	3656.9	3631.8	3631.8	3599.7	3586.0	3661.5	3951.9	4050.3	4450.5	4784.4	4656.3
30°	3915.3	3942.8	3922.2	3933.6	3842.2	3835.3	4176.1	4297.3	4843.9	5077.1	4811.8
32.5°	4324.7	4288.1	4322.4	4292.7	4171.5	4048.0	4480.2	4606.0	5319.6	5413.3	5045.1
35°	4665.5	4649.5	4795.8	4791.3	4594.6	4473.4	4802.7	4990.2	5651.2	5815.8	5319.6
37.5°	5150.3	5120.6	5287.5	5367.6	5191.5	5010.8	5264.7	5481.9	5959.9	6138.3	5600.9
40°	5648.9	5724.4	5948.5	6081.1	5893.6	5653.5	5829.6	5895.9	6165.7	6348.7	5793.0
42.5°	6280.1	6389.9	6618.6	6732.9	6716.9	6456.2	6403.6	6401.3	6314.4	6289.2	5934.8
45°	6886.2	6845.0	7197.2	7446.5	7647.7	7572.3	6957.0	6888.4	6550.0	6378.4	5971.4
47.5°	7151.4	7137.7	7377.9	7821.5	8507.6	8601.4	7762.1	7496.8	6947.9	6753.5	6170.3
50°	6808.4	6879.3	7117.1	7608.8	8660.9	9376.7	8750.1	8393.3	7412.2	7210.9	6641.4
52.5°	5687.8	5735.8	5962.2	6586.6	8139.4	9834.1	9696.9	9491.0	8265.2	7931.3	7462.5
54°	4676.9	4805.0	4928.5	5555.1	7210.9	9580.2	10216.0	10058.2	8821.0	8530.5	7979.3
55°	4073.1	4148.6	4237.8	4862.2	6568.3	9150.3	10156.6	10170.3	9193.7	8718.0	8327.0
57.5°	2975.4	3028.0	2936.5	3213.2	4510.0	7430.5	9289.8	9660.3	9696.9	8999.3	8539.7
60°	2273.3	2296.1	2193.2	2236.7	2803.9	5100.0	7185.7	7631.7	8747.8	7865.0	7233.8
62.5°	1763.3	1767.8	1765.6	1841.0	1932.5	3000.5	4494.0	4889.6	6030.8	5584.8	4912.5
65°	1299.0	1278.4	1315.0	1543.7	1648.9	1886.8	2367.0	2655.2	3277.3	2767.3	1978.3
67.5°	841.6	848.5	885.1	1148.1	1413.4	1447.7	1456.8	1433.9	1436.2	791.3	496.3
70°	505.4	516.9	505.4	649.5	1010.9	1038.3	949.1	926.2	722.7	187.5	185.2
72.5°	299.6	283.6	253.9	279.0	420.8	503.1	452.8	450.5	283.6	109.8	109.8
75°	125.8	114.3	93.8	84.6	112.1	107.5	107.5	96.1	75.5	73.2	68.6
77.5°	25.2	25.2	18.3	20.6	27.4	32.0	38.9	38.9	45.7	45.7	43.5
80°	0.0	2.3	6.9	13.7	20.6	29.7	34.3	34.3	38.9	38.9	32.0
82.5°	0.0	2.3	6.9	13.7	18.3	27.4	34.3	34.3	38.9	41.2	34.3
85°	0.0	2.3	6.9	11.4	18.3	22.9	22.9	20.6	16.0	13.7	9.1
87.5°	0.0	0.0	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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: P528647

CATALOG NUMBER: GALN-SA3D-730-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3	4409.3
2.5°	4429.9	4427.6	4372.7	4283.5	4263.0	4187.5	4178.3	4132.6	4157.8	4073.1	4064.0
5°	4393.3	4365.9	4299.6	4242.4	4075.4	3956.5	3862.7	3748.4	3682.1	3693.5	3650.0
7.5°	4445.9	4375.0	4258.4	4059.4	3855.9	3647.8	3535.7	3302.4	3217.8	3092.0	3073.7
10°	4391.0	4338.4	4157.8	3828.4	3547.1	3247.5	2984.5	2726.1	2529.4	2444.8	2426.5
12.5°	4386.5	4295.0	3993.1	3627.2	3220.1	2790.1	2408.2	2085.7	1891.3	1781.6	1756.4
15°	4315.6	4205.8	3807.9	3316.1	2753.5	2218.4	1802.2	1491.1	1342.5	1278.4	1296.7
17.5°	4322.4	4157.8	3622.6	2986.8	2293.9	1628.3	1230.4	1070.3	1031.4	1047.4	1047.4
20°	4315.6	4050.3	3398.5	2607.2	1756.4	1129.8	903.4	846.2	871.3	921.7	910.2
22.5°	4279.0	4000.0	3192.6	2207.0	1292.2	837.0	725.0	727.3	766.1	827.9	841.6
25°	4306.4	3887.9	2931.9	1802.2	942.2	667.8	628.9	644.9	686.1	731.8	741.0
27.5°	4285.8	3807.9	2659.8	1399.6	688.4	574.0	571.7	590.0	608.3	642.6	642.6
30°	4308.7	3734.7	2392.2	1040.6	567.2	526.0	516.9	530.6	548.9	555.7	553.5
32.5°	4393.3	3679.8	2083.5	777.6	500.9	480.3	480.3	480.3	478.0	487.1	489.4
35°	4578.6	3688.9	1811.3	601.5	457.4	441.4	434.5	425.4	420.8	425.4	427.7
37.5°	4779.8	3684.4	1530.0	512.3	425.4	411.7	395.7	381.9	379.6	384.2	377.4
40°	4869.0	3727.8	1269.3	459.7	395.7	379.6	354.5	343.0	345.3	349.9	345.3
42.5°	4990.2	3741.5	1100.0	418.5	368.2	343.0	327.0	313.3	311.0	317.9	315.6
45°	4987.9	3663.8	921.7	395.7	343.0	315.6	295.0	283.6	283.6	288.2	290.4
47.5°	5134.3	3652.3	791.3	375.1	324.8	297.3	272.2	263.0	260.7	260.7	256.1
50°	5475.1	3812.4	690.7	352.2	301.9	276.7	256.1	244.7	235.6	231.0	228.7
52.5°	6140.6	4311.0	612.9	324.8	276.7	256.1	237.8	228.7	217.3	205.8	203.5
54°	6785.5	4825.6	608.3	301.9	256.1	242.4	226.4	221.8	208.1	192.1	187.5
55°	7076.0	5125.2	624.4	283.6	242.4	233.3	219.6	215.0	201.3	183.0	180.7
57.5°	7316.1	5241.8	615.2	235.6	219.6	217.3	205.8	199.0	183.0	157.8	153.2
60°	5889.0	3963.4	441.4	208.1	201.3	196.7	187.5	183.0	162.4	134.9	132.6
62.5°	3720.9	2280.1	281.3	183.0	176.1	169.2	157.8	153.2	134.9	107.5	100.6
65°	1584.9	944.5	189.8	162.4	150.9	139.5	130.4	123.5	107.5	80.0	77.8
67.5°	411.7	336.2	157.8	141.8	125.8	109.8	102.9	91.5	73.2	54.9	52.6
70°	185.2	169.2	132.6	118.9	100.6	84.6	75.5	64.0	48.0	36.6	34.3
72.5°	109.8	107.5	100.6	89.2	75.5	64.0	54.9	43.5	32.0	20.6	20.6
75°	68.6	66.3	68.6	61.7	52.6	48.0	41.2	29.7	18.3	9.1	9.1
77.5°	41.2	41.2	41.2	38.9	36.6	36.6	29.7	18.3	9.1	2.3	2.3
80°	32.0	32.0	34.3	32.0	32.0	32.0	25.2	13.7	4.6	0.0	0.0
82.5°	32.0	34.3	38.9	36.6	32.0	27.4	22.9	13.7	4.6	0.0	0.0
85°	9.1	6.9	11.4	16.0	22.9	20.6	16.0	11.4	4.6	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3	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)