

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: P453012

Luminaire Tested: **GALN-SA4A-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16330 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

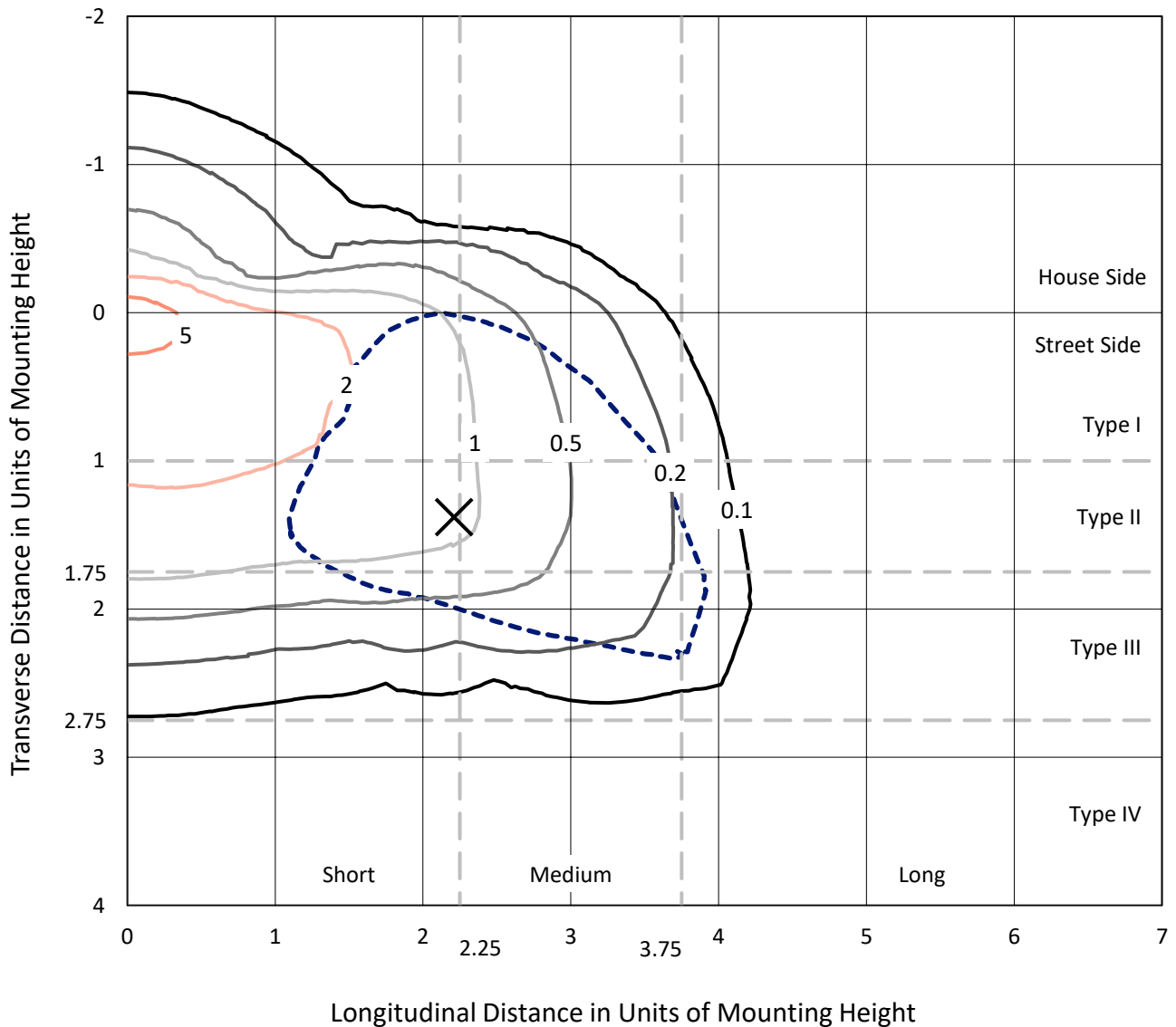
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453012  
 CATALOG NUMBER: GALN-SA4A-730-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

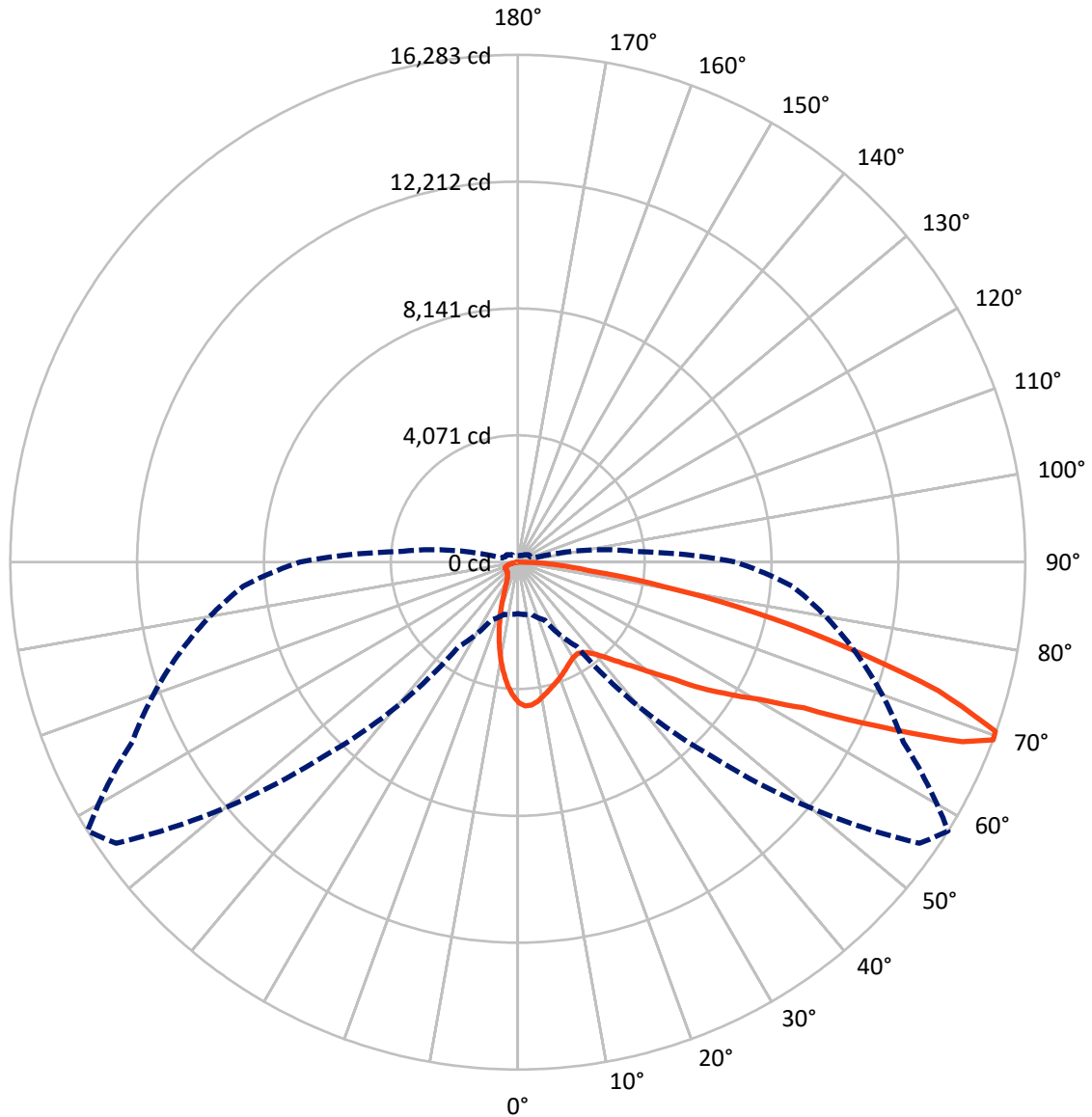
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P453012  
CATALOG NUMBER: GALN-SA4A-730-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P453012

CATALOG NUMBER: GALN-SA4A-730-U-SL3

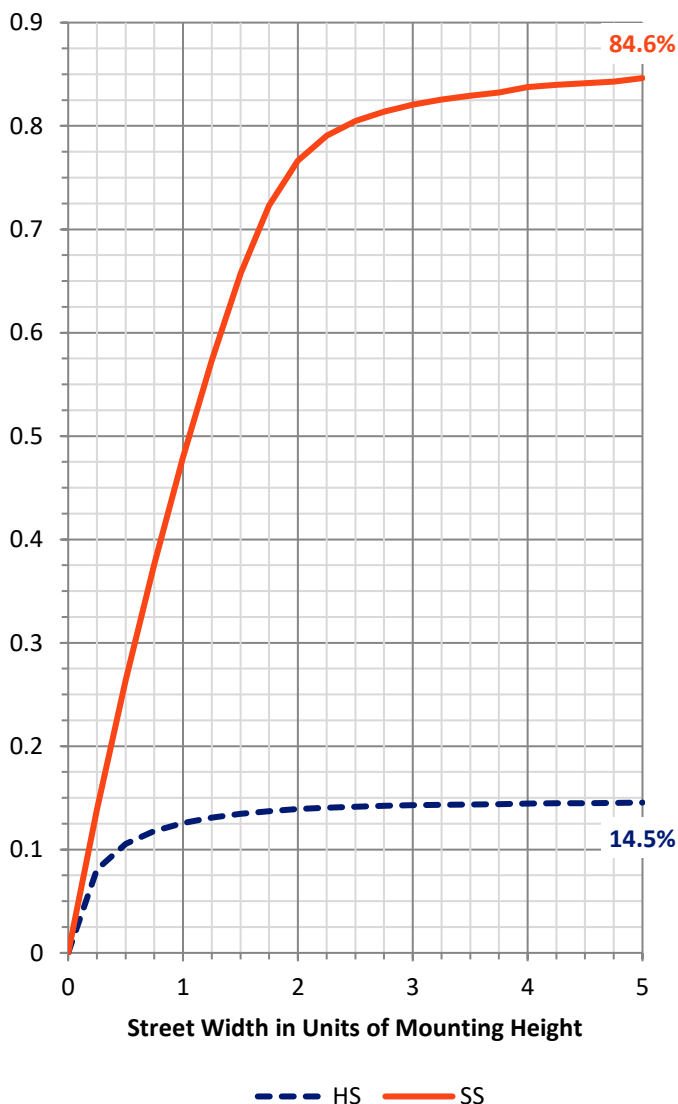
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2393.2	0.0	2393.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13936.8	0.0	13936.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	16330.0	0.0	16330.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.2	2.3
10°-20°	841.5	5.2
20°-30°	1087.2	6.7
30°-40°	1412.1	8.6
40°-50°	2053.0	12.6
50°-60°	3276.0	20.1
60°-70°	4376.3	26.8
70°-80°	2522.7	15.4
80°-90°	377.9	2.3
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°	16330.0	100.0
0°-180°	16330.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453012

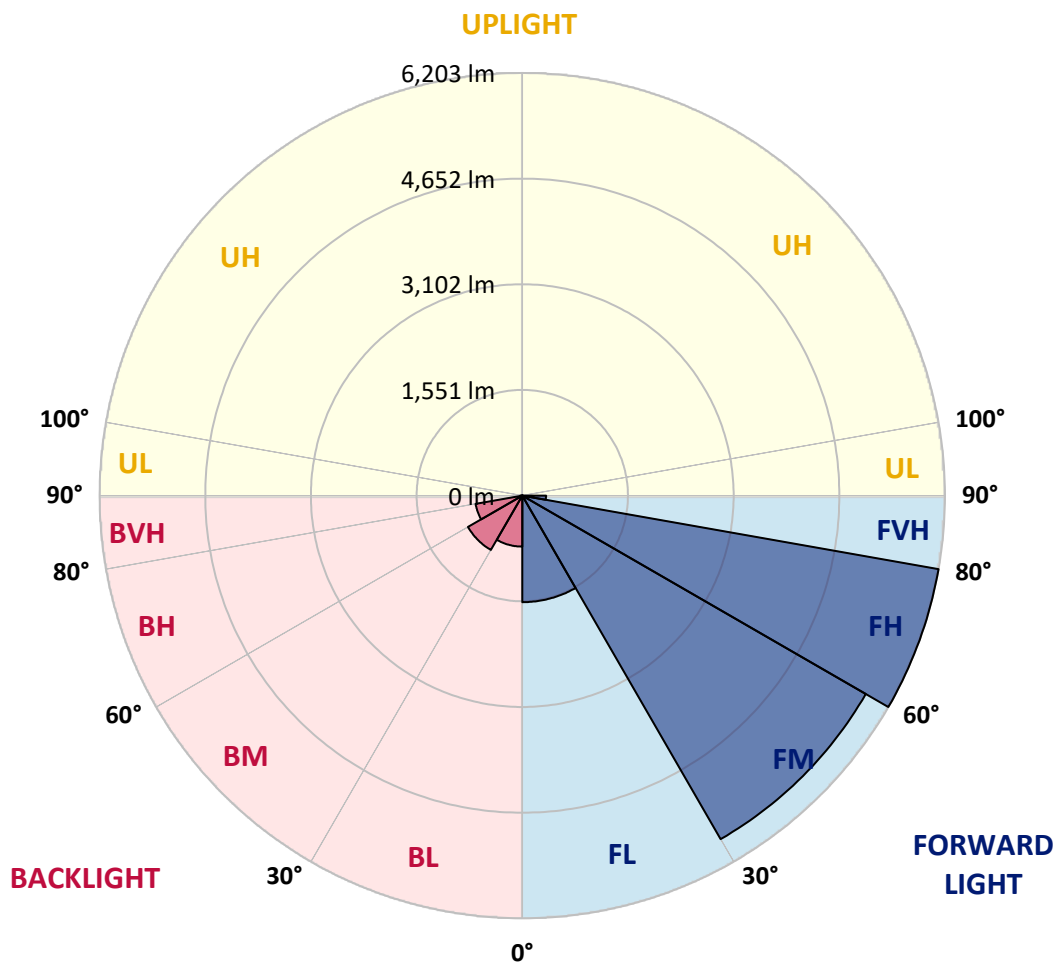
CATALOG NUMBER: GALN-SA4A-730-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.0	9.6			
FM (30°-60°)	5820.8	35.6			
FH (60°-80°)	6203.1	38.0			G3/7500
FVH (80°-90°)	348.9	2.1			G3/500
BL (0°-30°)	748.0	4.6	B2/1000		
BM (30°-60°)	920.3	5.6	B1/1000		
BH (60°-80°)	695.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P453012

CATALOG NUMBER: GALN-SA4A-730-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7
2.5°	4680.2	4693.0	4689.3	4684.8	4677.5	4657.5	4624.7	4619.2	4598.3	4553.6	4498.1
5°	4608.3	4619.2	4620.1	4626.5	4635.6	4632.0	4608.3	4605.6	4574.6	4514.5	4421.6
7.5°	4361.5	4376.0	4407.9	4443.4	4475.3	4505.4	4512.7	4517.2	4498.1	4428.9	4305.0
10°	4083.7	4098.3	4112.8	4165.7	4244.0	4318.7	4380.6	4388.8	4393.4	4329.6	4178.4
12.5°	3775.9	3805.9	3836.9	3915.2	4020.0	4137.4	4246.7	4264.0	4295.0	4246.7	4069.1
15°	3514.5	3545.5	3590.1	3660.2	3786.8	3956.2	4110.1	4138.3	4199.4	4174.8	3967.1
17.5°	3333.3	3344.2	3375.2	3455.3	3591.9	3770.4	3976.2	4032.7	4130.2	4123.8	3879.7
20°	3190.3	3203.9	3223.1	3272.2	3414.3	3602.8	3851.5	3924.3	4056.4	4078.2	3793.2
22.5°	3130.2	3140.2	3137.5	3163.9	3260.4	3449.8	3724.9	3811.4	3990.8	4047.3	3713.0
25°	3133.8	3142.9	3129.3	3122.9	3180.3	3315.0	3592.8	3703.0	3938.0	4026.3	3640.2
27.5°	3194.8	3201.2	3175.7	3150.2	3154.8	3231.3	3483.5	3605.6	3893.4	4035.4	3579.2
30°	3276.8	3288.6	3272.2	3241.3	3207.6	3211.2	3413.4	3533.6	3872.4	4067.3	3550.0
32.5°	3382.4	3393.4	3386.1	3361.5	3317.8	3269.5	3396.1	3507.2	3874.2	4132.0	3543.6
35°	3493.6	3515.4	3527.2	3525.4	3489.9	3406.1	3464.4	3556.4	3918.0	4240.3	3581.0
37.5°	3619.2	3637.4	3688.4	3721.2	3688.4	3591.0	3618.3	3682.1	4014.5	4397.0	3662.9
40°	3741.3	3768.6	3843.3	3945.3	3932.5	3846.9	3853.3	3895.2	4184.8	4630.1	3823.2
42.5°	3868.8	3901.6	4031.8	4183.0	4213.0	4146.5	4163.8	4201.2	4427.0	4953.4	4098.3
45°	4032.7	4071.9	4232.2	4420.7	4539.1	4498.1	4547.3	4565.5	4751.3	5374.2	4460.7
47.5°	4244.0	4289.5	4487.2	4722.1	4889.7	4927.0	5012.6	5001.7	5152.9	5872.4	4930.7
50°	4600.1	4625.6	4812.3	5051.8	5282.2	5450.7	5543.6	5560.9	5651.1	6356.9	5456.2
52.5°	5023.6	5046.3	5181.1	5390.6	5679.3	6036.3	6265.8	6209.3	6231.2	6947.0	6070.9
55°	5499.9	5538.1	5623.7	5763.1	6137.4	6662.9	7123.7	7137.4	6895.1	7511.7	6660.2
57.5°	5868.7	5933.4	6080.0	6278.6	6753.0	7359.6	7978.9	7988.0	7678.3	8114.6	7310.4
60°	5682.9	5759.4	6094.6	6578.2	7560.9	8575.4	9000.7	8948.8	8440.6	8801.3	8103.7
62.5°	4881.5	4895.2	5382.4	6138.3	7809.5	10202.0	10521.6	10302.2	9457.9	9671.9	8909.6
65°	3159.3	3248.6	3634.7	4693.9	6992.6	11104.5	13186.4	12679.2	10884.1	10660.1	9584.5
67.5°	1994.5	1971.7	2132.0	2680.3	4809.6	10309.4	15460.5	15380.4	12749.3	11283.9	9423.3
69°	1653.9	1679.4	1734.0	2054.6	3309.6	8802.2	15729.2	16282.9	13653.6	11234.7	8837.7
70°	1500.0	1511.8	1569.2	1821.5	2553.7	7372.3	15288.4	16258.3	14008.8	11028.9	8413.3
72.5°	1190.3	1189.4	1287.8	1515.5	1908.9	4208.5	12553.5	14115.4	13611.7	10070.8	6951.6
75°	904.4	918.9	1027.3	1282.3	1758.6	2299.6	8760.3	10870.4	10871.4	7954.3	4337.8
77.5°	652.1	661.2	787.8	1076.5	1656.6	1864.3	5835.0	7796.7	7329.5	3644.7	1363.4
80°	427.1	432.6	529.1	852.4	1493.6	1758.6	3459.9	4772.2	3457.1	967.2	450.8
82.5°	234.1	261.4	323.3	551.9	1198.5	1624.7	2102.9	2415.2	1296.9	430.8	235.0
85°	117.5	124.8	182.1	322.4	783.2	1344.2	1464.5	1385.2	669.4	214.0	122.0
87.5°	34.6	43.7	75.6	124.8	317.8	700.3	815.1	731.3	257.7	77.4	25.5
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: P453012  
 CATALOG NUMBER: GALN-SA4A-730-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7	4512.7
2.5°	4475.3	4458.9	4386.1	4320.5	4260.4	4196.6	4142.9	4095.5	4100.1	4101.0	4052.7
5°	4373.3	4336.0	4197.5	4068.2	3958.9	3820.5	3702.1	3625.6	3587.4	3536.4	3554.6
7.5°	4234.9	4162.9	3970.8	3755.8	3554.6	3375.2	3180.3	3046.4	2960.8	2877.9	2888.8
10°	4091.9	3976.2	3696.6	3412.5	3152.0	2865.1	2616.5	2403.4	2244.9	2185.7	2146.6
12.5°	3945.3	3793.2	3438.0	3060.0	2700.3	2357.0	2004.5	1775.9	1601.1	1508.2	1520.0
15°	3811.4	3626.5	3168.4	2707.6	2240.4	1831.5	1479.9	1262.3	1140.2	1114.7	1129.3
17.5°	3687.5	3445.3	2916.2	2365.2	1819.6	1373.4	1112.0	989.1	939.9	926.2	925.3
20°	3560.0	3291.4	2632.9	1999.0	1418.0	1064.6	912.5	855.2	846.1	851.5	852.4
22.5°	3430.7	3101.0	2341.5	1635.7	1129.3	870.7	797.8	782.3	789.6	802.4	804.2
25°	3311.4	2933.5	2061.0	1316.9	901.6	765.0	729.5	729.5	745.9	765.0	765.9
27.5°	3213.0	2771.3	1781.4	1045.5	755.0	688.5	676.7	683.0	705.8	720.4	721.3
30°	3132.0	2620.2	1517.3	837.9	663.9	627.5	624.8	635.7	652.1	665.7	666.7
32.5°	3071.0	2487.2	1270.5	704.0	601.1	581.0	580.1	588.3	597.4	601.1	604.7
35°	3047.3	2377.0	1044.6	619.3	559.2	546.4	546.4	545.5	549.2	551.0	552.8
37.5°	3066.4	2292.3	869.7	564.7	528.2	519.1	513.7	508.2	506.4	506.4	507.3
40°	3147.5	2247.7	739.5	529.1	506.4	492.7	482.7	476.3	469.9	471.8	473.6
42.5°	3319.6	2255.9	651.2	505.5	487.2	468.1	453.5	446.3	441.7	447.2	446.3
45°	3593.7	2337.8	594.7	489.1	468.1	443.5	429.9	422.6	422.6	430.8	433.5
47.5°	3977.1	2494.5	564.7	476.3	453.5	424.4	410.7	405.3	407.1	420.8	421.7
50°	4445.3	2766.8	559.2	469.9	446.3	410.7	395.3	389.8	394.3	408.9	410.7
52.5°	4961.6	3117.4	585.6	470.8	439.9	402.5	382.5	374.3	378.9	390.7	394.3
55°	5573.7	3556.4	653.9	474.5	430.8	398.0	373.4	355.2	360.6	368.8	369.8
57.5°	6198.4	4110.1	774.1	475.4	423.5	389.8	357.9	334.2	334.2	339.7	342.4
60°	6961.6	4713.0	932.6	476.3	424.4	378.0	337.0	310.6	306.9	309.6	310.6
62.5°	7719.3	5217.6	959.0	473.6	433.5	366.1	314.2	286.9	280.5	279.6	277.8
65°	8053.6	5123.8	786.0	460.8	443.5	358.8	296.0	264.1	253.2	249.5	249.5
67.5°	7509.0	4334.2	591.1	443.5	437.1	351.5	278.7	245.0	232.2	224.9	224.9
69°	6997.1	3855.1	531.0	431.7	420.8	339.7	267.8	235.0	219.5	211.3	208.6
70°	6601.9	3525.4	505.5	421.7	405.3	326.0	259.6	227.7	210.4	201.3	199.4
72.5°	5268.6	2765.9	442.6	383.4	345.2	274.1	230.4	204.9	188.5	178.5	175.8
75°	3036.4	1499.1	367.0	333.3	277.8	213.1	194.9	178.5	165.8	156.6	153.9
77.5°	934.4	579.2	265.9	263.2	204.0	164.8	155.7	149.4	140.3	130.2	128.4
80°	393.4	295.1	180.3	177.6	135.7	114.8	112.0	111.1	107.5	99.3	96.5
82.5°	215.8	166.7	125.7	109.3	82.0	66.5	69.2	70.1	67.4	59.2	53.7
85°	105.6	91.1	61.0	49.2	37.3	23.7	22.8	27.3	25.5	18.2	20.0
87.5°	20.9	25.5	16.4	7.3	3.6	0.0	0.0	0.0	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)