

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: P458814

Luminaire Tested: **GALN-SA3C-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19137 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

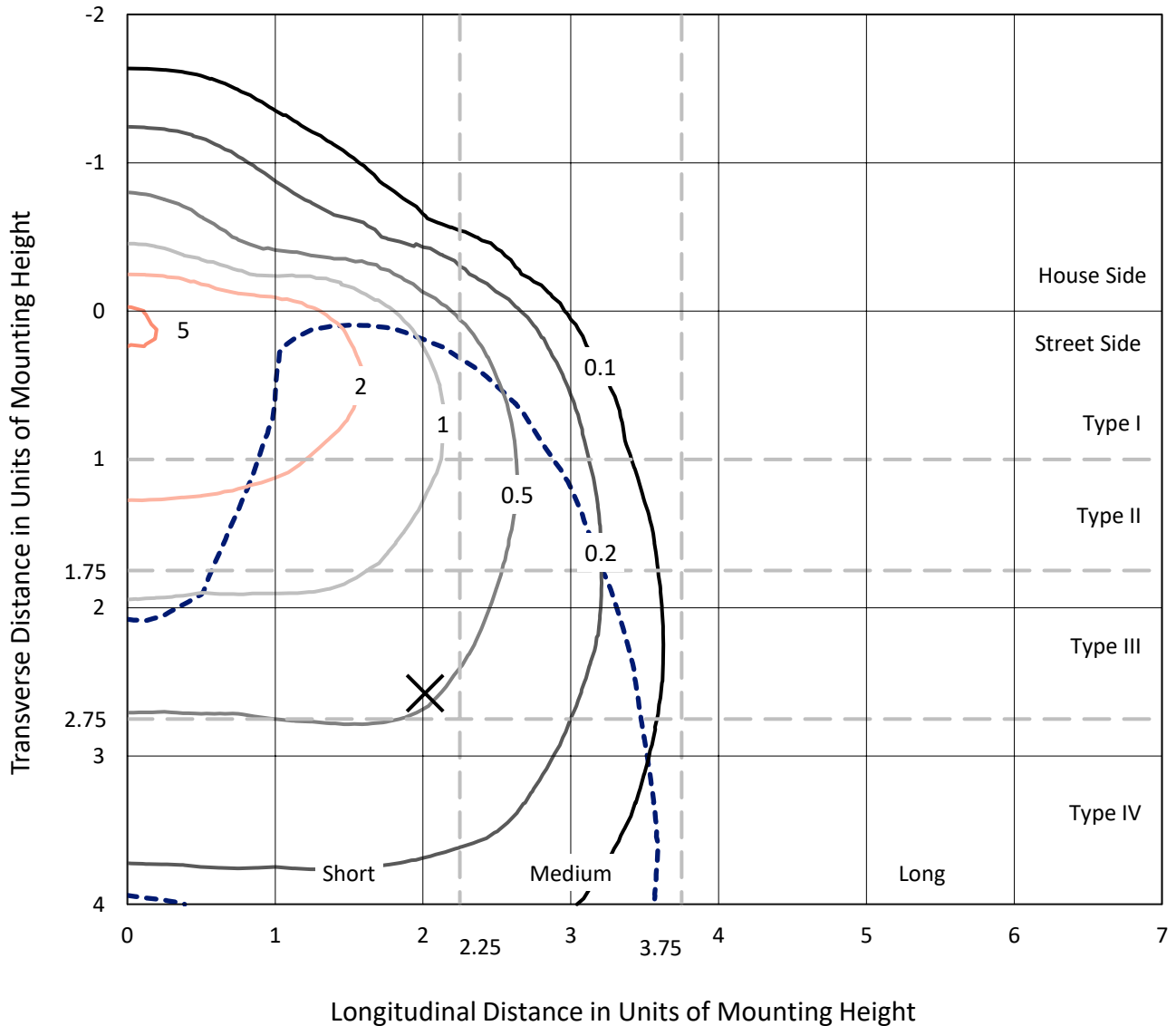
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458814  
 CATALOG NUMBER: GALN-SA3C-735-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

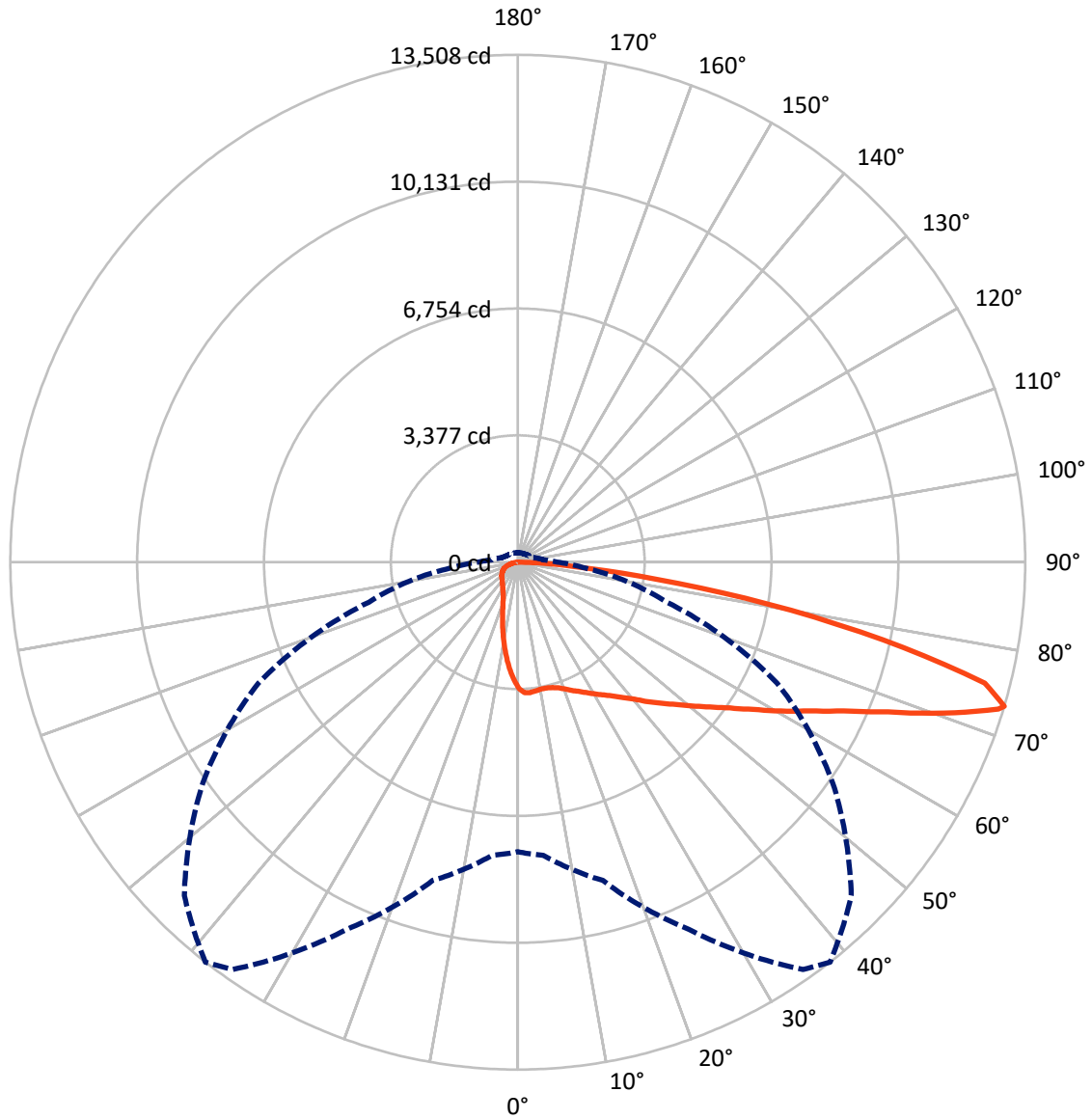
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P458814  
CATALOG NUMBER: GALN-SA3C-735-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical



REPORT NUMBER: P458814

CATALOG NUMBER: GALN-SA3C-735-U-SL4

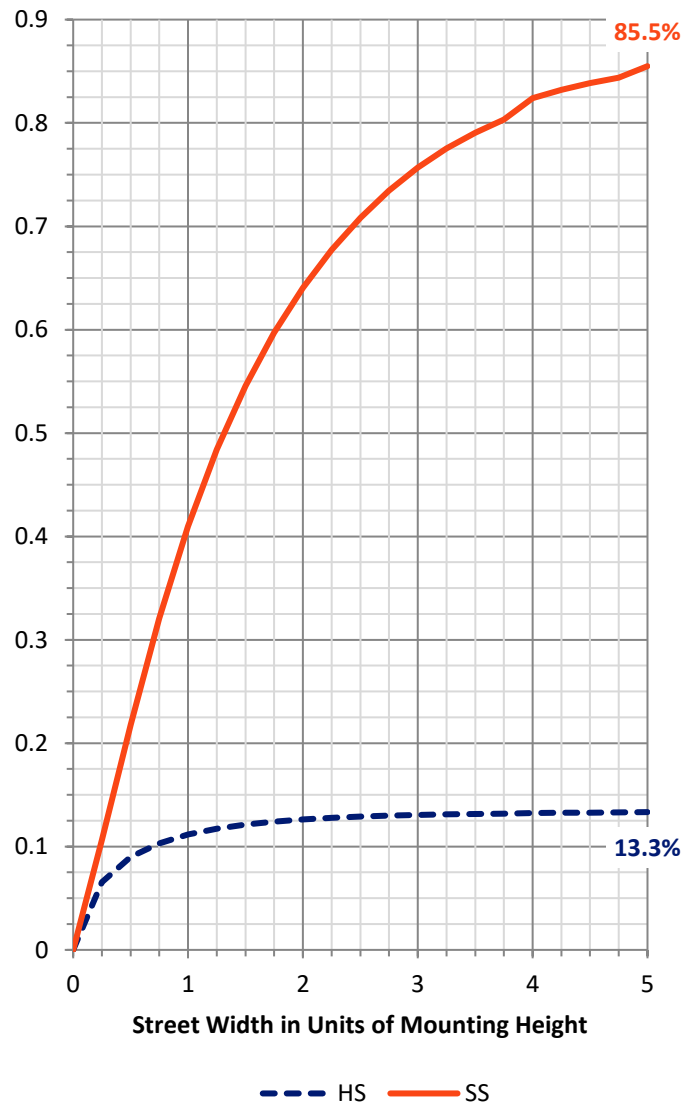
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2572.6	0.0	2572.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	16564.4	0.0	16564.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	19137.0	0.0	19137.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.5	1.5
10°-20°	752.6	3.9
20°-30°	1171.9	6.1
30°-40°	1718.9	9.0
40°-50°	2549.7	13.3
50°-60°	3612.5	18.9
60°-70°	4582.5	23.9
70°-80°	3814.6	19.9
80°-90°	640.9	3.3
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°	19137.0	100.0
0°-180°	19137.0	100.0



REPORT NUMBER: P458814

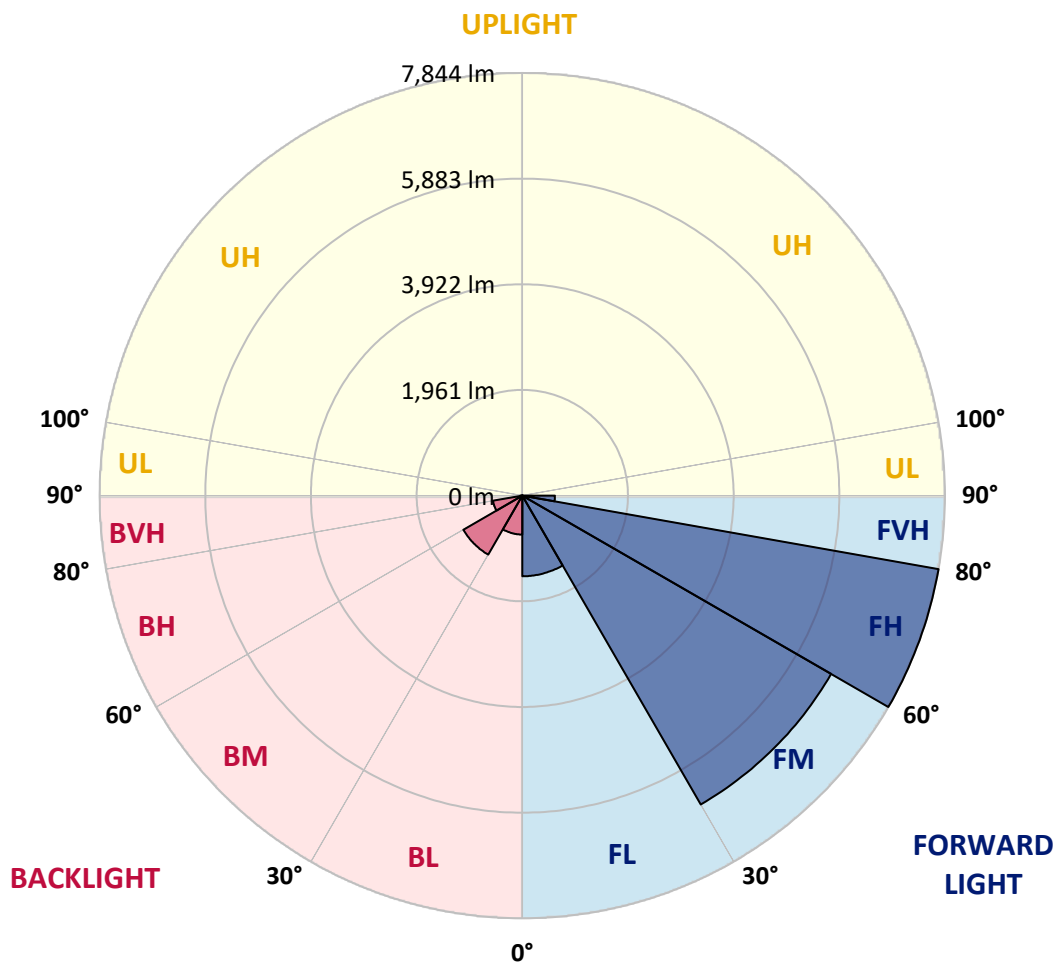
CATALOG NUMBER: GALN-SA3C-735-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.0	7.8			
FM (30°-60°)	6618.1	34.6			
FH (60°-80°)	7844.2	41.0			G4/12000
FVH (80°-90°)	606.2	3.2			G4/750
BL (0°-30°)	721.9	3.8	B2/1000		
BM (30°-60°)	1263.0	6.6	B2/2500		
BH (60°-80°)	553.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.8	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-G4**

Type IV Short





REPORT NUMBER: P458814

CATALOG NUMBER: GALN-SA3C-735-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0
2.5°	3497.1	3514.4	3505.8	3493.9	3486.3	3478.8	3468.0	3436.6	3411.8	3384.7	3342.6
5°	3523.1	3533.9	3526.3	3511.2	3493.9	3486.3	3465.8	3424.7	3384.7	3339.4	3276.7
7.5°	3507.9	3512.3	3503.6	3485.2	3470.1	3456.1	3432.3	3386.9	3338.3	3283.2	3201.0
10°	3453.9	3470.1	3470.1	3455.0	3439.9	3432.3	3408.5	3365.3	3321.0	3258.3	3161.0
12.5°	3409.6	3426.9	3440.9	3436.6	3435.5	3435.5	3417.2	3384.7	3332.9	3273.4	3157.8
15°	3379.3	3399.9	3430.1	3447.4	3458.2	3461.5	3453.9	3425.8	3372.9	3303.7	3170.8
17.5°	3372.9	3397.7	3452.8	3490.6	3518.7	3517.7	3515.5	3476.6	3418.2	3346.9	3187.0
20°	3402.0	3434.5	3511.2	3570.6	3611.7	3604.1	3592.2	3541.4	3473.4	3393.4	3202.1
22.5°	3489.6	3523.1	3607.4	3672.2	3712.2	3712.2	3676.5	3609.5	3537.1	3447.4	3222.6
25°	3614.9	3651.7	3741.4	3807.3	3825.7	3811.6	3776.0	3694.9	3611.7	3525.2	3265.9
27.5°	3768.4	3812.7	3895.9	3951.0	3945.6	3934.8	3898.1	3794.3	3711.1	3632.2	3339.4
30°	3959.7	3992.1	4078.5	4091.5	4072.1	4069.9	4018.0	3914.3	3836.5	3776.0	3444.2
32.5°	4140.1	4169.3	4238.5	4243.9	4209.3	4213.6	4165.0	4069.9	4025.6	4004.0	3620.3
35°	4331.4	4346.6	4406.0	4399.5	4376.8	4373.6	4354.1	4263.3	4277.4	4316.3	3870.0
37.5°	4491.4	4521.6	4555.1	4560.5	4559.5	4570.3	4583.2	4540.0	4621.1	4743.2	4197.4
40°	4638.3	4664.3	4714.0	4731.3	4773.4	4795.1	4839.4	4840.4	5027.4	5228.4	4600.5
42.5°	4737.8	4782.1	4875.0	4906.4	5009.0	5073.9	5139.8	5210.0	5481.3	5739.6	5076.0
45°	4824.2	4882.6	5037.1	5134.4	5273.8	5352.7	5492.1	5639.1	6029.2	6367.5	5559.1
47.5°	4955.0	5006.9	5184.1	5355.9	5566.7	5657.4	5866.0	6085.4	6595.5	6966.2	6021.6
50°	5136.6	5167.9	5348.4	5628.3	5897.4	6014.1	6289.7	6606.3	7200.7	7557.3	6428.0
52.5°	5368.9	5381.9	5525.6	5898.4	6252.9	6397.7	6763.0	7132.6	7730.2	8070.6	6750.0
55°	5643.4	5621.8	5734.2	6184.8	6659.3	6848.4	7240.7	7665.4	8325.7	8485.6	6984.5
57.5°	5914.7	5881.1	5970.8	6532.8	7160.7	7388.7	7845.9	8214.4	8857.4	8873.6	7148.8
60°	6202.1	6177.3	6284.2	6941.3	7775.6	8045.8	8468.3	8783.9	9371.8	9143.8	7174.7
62.5°	6497.1	6457.2	6609.5	7400.6	8468.3	8713.7	9123.2	9389.1	9876.5	9244.3	6925.1
65°	6783.5	6765.2	7000.8	7946.4	9257.2	9536.1	9933.8	10114.2	10280.7	9093.0	6305.9
67.5°	7088.3	7125.0	7501.1	8674.8	10286.1	10636.2	11065.3	10895.6	10396.3	8376.5	5310.5
70°	7553.0	7576.8	8158.2	9629.0	11612.1	12034.6	12242.1	11173.3	9838.7	7015.9	3992.1
72.5°	7752.9	7857.7	8745.0	10630.8	13118.6	13376.9	12637.7	10554.1	8196.0	4765.9	2097.6
73°	7708.6	7834.0	8772.0	10783.2	13236.4	13507.6	12553.4	10235.3	7618.9	4104.5	1798.3
75°	7156.4	7310.9	8420.8	10655.7	13007.3	12845.2	11198.2	8723.4	5148.4	1866.4	819.2
77.5°	5646.6	5690.9	6672.2	8604.5	10242.8	9942.4	8380.8	5452.1	2103.0	693.8	464.7
80°	2832.5	2995.7	3760.8	4929.1	6849.5	6751.1	5290.0	2578.5	876.4	407.4	308.0
82.5°	1362.8	1478.4	1831.8	2403.5	3784.6	3694.9	2619.6	1409.2	556.6	237.8	181.6
85°	877.5	964.0	1166.1	1146.6	1556.2	1486.0	1176.9	1066.6	329.6	124.3	126.4
87.5°	579.3	634.4	760.8	608.4	566.3	512.3	519.8	600.9	64.8	47.6	17.3
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: P458814  
 CATALOG NUMBER: GALN-SA3C-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0
2.5°	3325.3	3311.3	3264.8	3219.4	3176.2	3135.1	3108.1	3072.4	3048.6	3055.1	3064.9
5°	3242.1	3210.7	3128.6	3048.6	2973.0	2883.3	2810.9	2752.5	2708.2	2692.0	2688.8
7.5°	3154.6	3101.6	2983.8	2846.6	2718.0	2606.6	2478.0	2414.3	2339.7	2313.8	2305.1
10°	3101.6	3030.3	2864.9	2673.6	2480.2	2295.4	2156.0	2042.5	1939.9	1920.4	1910.7
12.5°	3086.5	2992.4	2769.8	2523.4	2266.2	2039.3	1832.9	1683.7	1584.3	1561.6	1528.1
15°	3077.8	2961.1	2681.2	2372.1	2045.8	1769.1	1551.9	1377.9	1287.1	1226.6	1227.7
17.5°	3070.3	2925.4	2581.8	2206.8	1855.6	1536.8	1296.8	1140.1	1056.9	1024.5	1021.3
20°	3059.5	2883.3	2467.2	2032.8	1638.3	1324.9	1107.7	991.0	934.8	907.8	906.7
22.5°	3055.1	2842.2	2354.8	1855.6	1446.0	1161.7	982.4	900.2	864.6	846.2	846.2
25°	3065.9	2813.1	2237.0	1687.0	1275.2	1022.3	895.9	839.7	819.2	809.4	806.2
27.5°	3099.4	2800.1	2120.3	1518.4	1118.5	927.2	837.5	798.6	783.5	775.9	777.0
30°	3163.2	2799.0	2005.8	1352.0	1001.8	854.8	791.1	764.1	752.2	747.8	746.8
32.5°	3265.9	2822.8	1893.4	1214.7	903.5	794.3	747.8	728.4	723.0	719.7	718.7
35°	3439.9	2889.8	1782.1	1089.3	827.8	740.3	706.8	697.0	689.5	692.7	693.8
37.5°	3674.4	3005.4	1676.2	991.0	770.5	700.3	672.2	663.5	659.2	662.5	665.7
40°	3988.9	3171.8	1587.5	912.1	729.5	666.8	641.9	634.4	630.0	635.4	636.5
42.5°	4335.8	3364.2	1514.1	850.5	696.0	638.7	614.9	606.3	603.0	606.3	607.4
45°	4692.4	3587.9	1476.2	806.2	667.9	618.2	593.3	583.6	576.0	573.8	577.1
47.5°	5043.6	3782.4	1475.2	779.2	645.2	599.8	572.8	562.0	552.2	546.8	545.8
50°	5330.0	3937.0	1501.1	767.3	625.7	579.3	552.2	541.4	528.5	517.7	519.8
52.5°	5546.1	4037.5	1513.0	761.9	614.9	557.6	530.6	520.9	505.8	491.7	491.7
55°	5685.5	4061.3	1483.8	756.5	606.3	534.9	505.8	497.1	482.0	467.9	467.9
57.5°	5733.1	3987.8	1379.0	743.5	597.6	515.5	480.9	473.3	461.5	447.4	445.2
60°	5622.9	3739.2	1195.3	704.6	580.3	495.0	453.9	450.7	446.3	434.4	433.4
62.5°	5198.1	3211.8	995.3	653.8	551.2	473.3	429.0	434.4	437.7	431.2	430.1
65°	4491.4	2607.7	850.5	583.6	512.3	443.1	402.0	416.1	424.7	424.7	422.6
67.5°	3643.0	2002.5	716.5	523.1	463.6	402.0	371.8	382.6	389.1	386.9	392.3
70°	2589.3	1356.3	583.6	453.9	402.0	355.5	332.9	332.9	328.5	326.4	326.4
72.5°	1255.8	774.9	473.3	379.3	342.6	303.7	285.3	277.7	269.1	268.0	262.6
73°	1049.4	694.9	451.7	365.3	328.5	296.1	275.6	263.7	258.3	254.0	252.9
75°	638.7	527.4	377.2	308.0	279.9	255.0	236.7	225.9	220.5	217.2	216.1
77.5°	420.4	393.4	292.9	235.6	214.0	198.8	191.3	180.5	177.2	172.9	172.9
80°	313.4	300.4	209.7	166.4	153.5	140.5	138.3	136.2	127.5	122.1	120.0
82.5°	202.1	214.0	142.7	111.3	97.3	86.5	87.5	90.8	82.1	74.6	72.4
85°	143.7	154.5	86.5	50.8	41.1	35.7	40.0	35.7	36.7	29.2	23.8
87.5°	23.8	41.1	15.1	6.5	3.2	2.2	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)