

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: P647196

Luminaire Tested: **GALN-SA9C-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36101 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

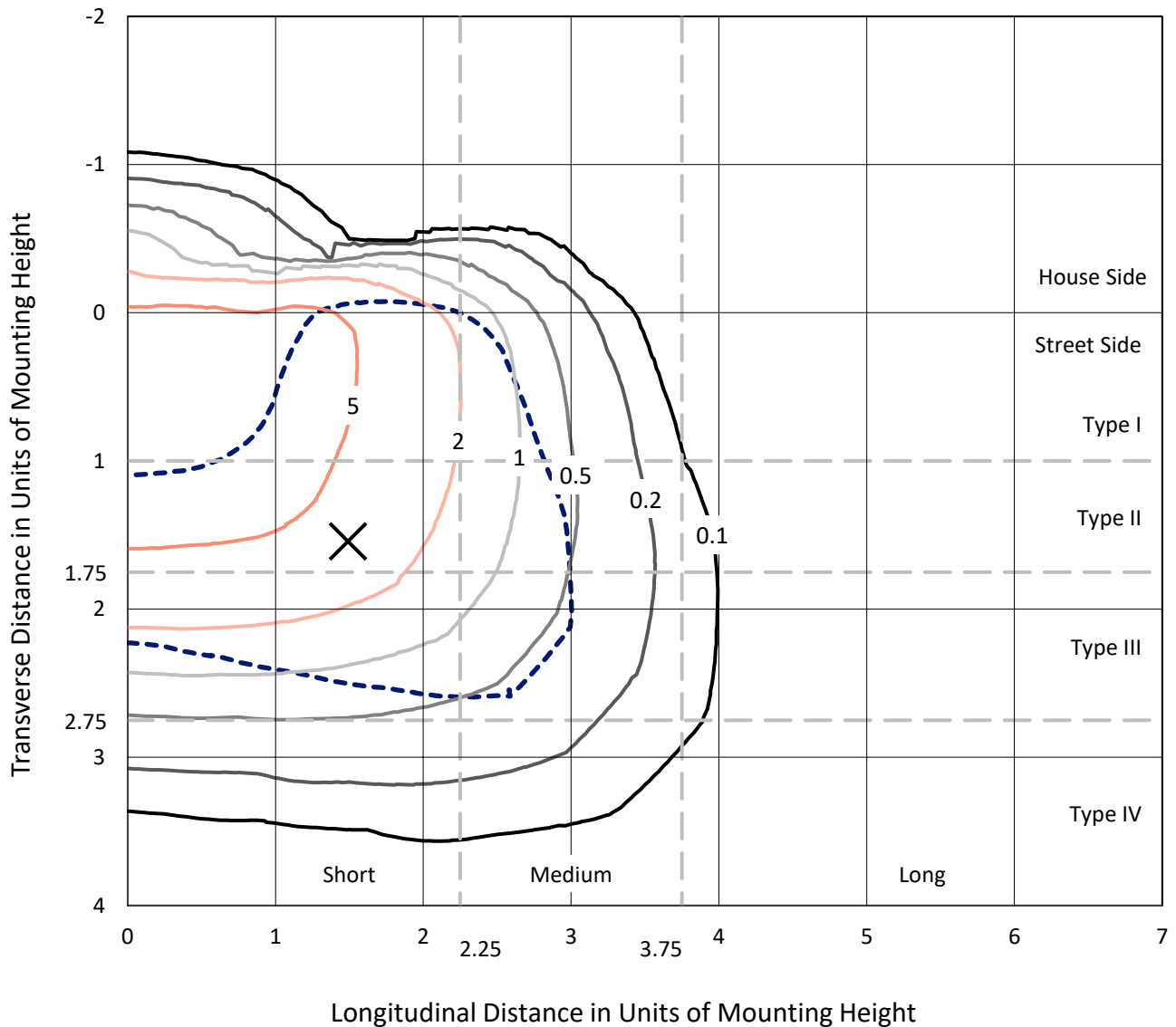
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647196  
 CATALOG NUMBER: GALN-SA9C-835-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

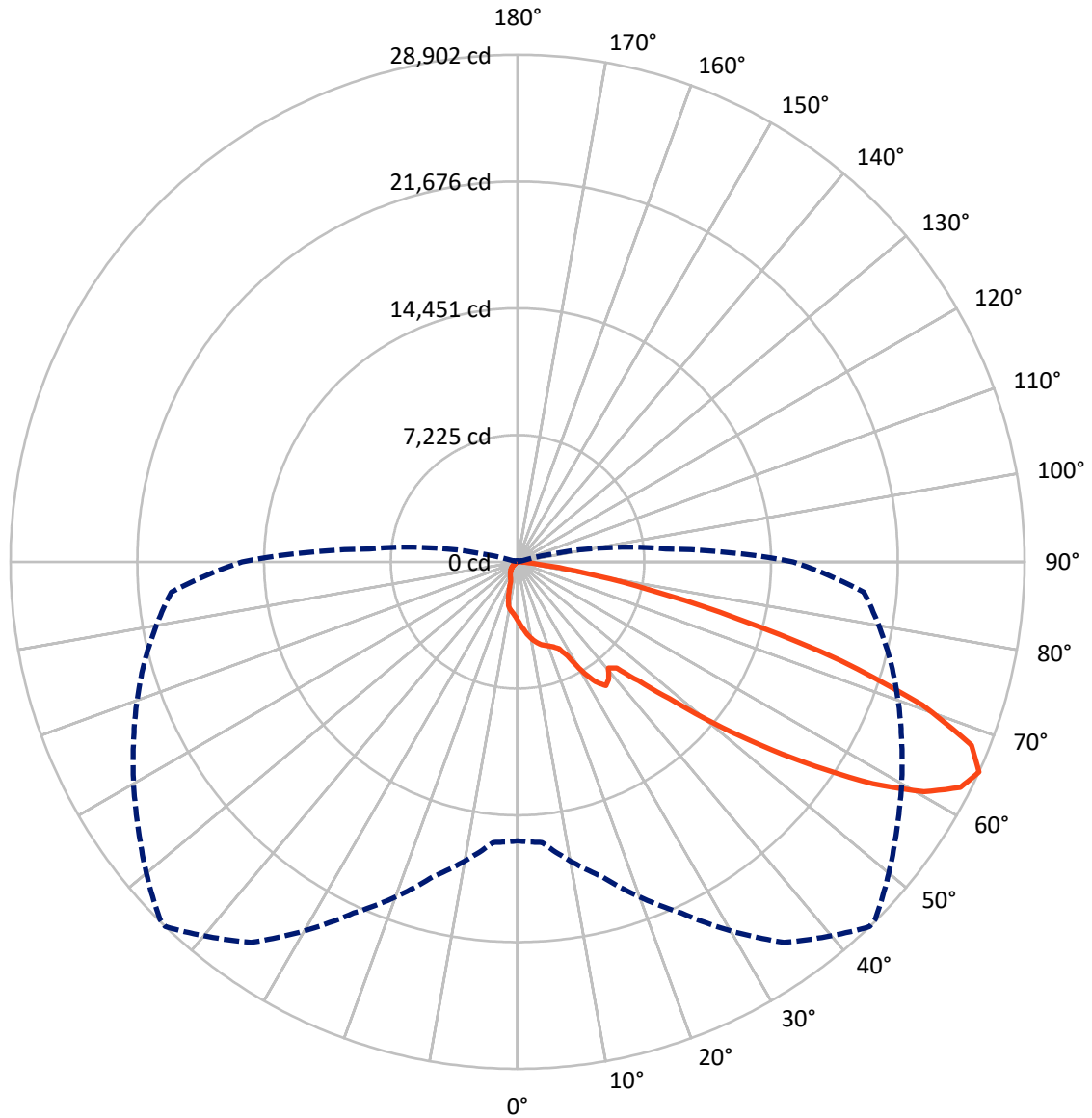
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P647196  
CATALOG NUMBER: GALN-SA9C-835-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GALN-SA9C-835-U-T4W-HSS

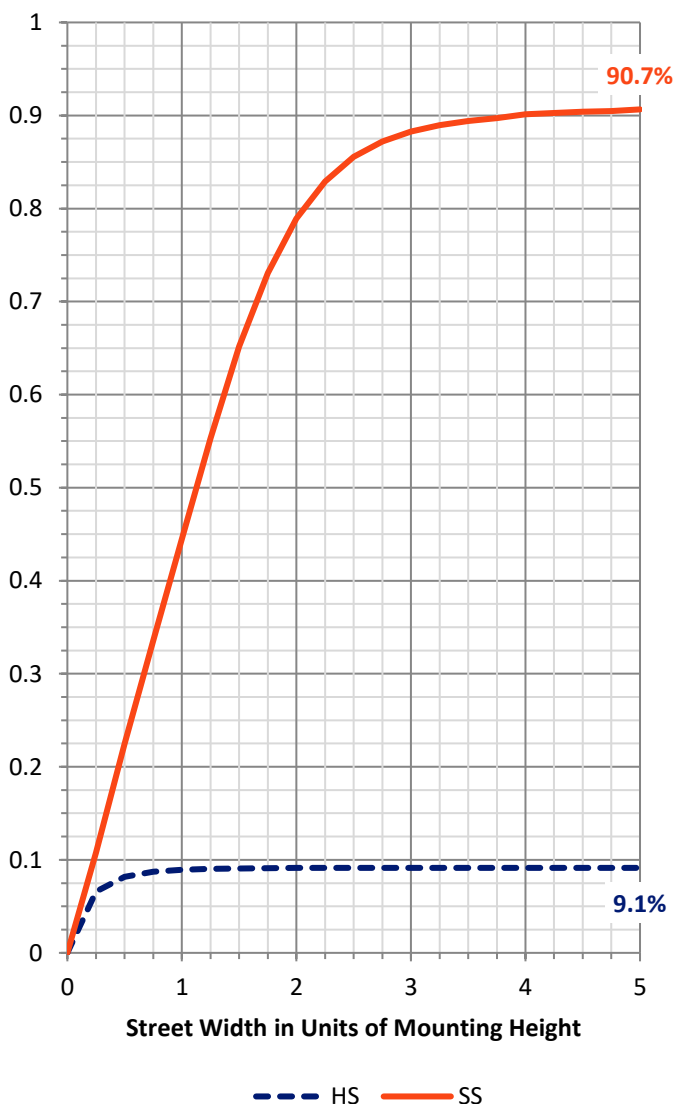
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3326.2	0.0	3326.2
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	32774.8	0.0	32774.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	36101.0	0.0	36101.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.2	0.9
10°-20°	1005.8	2.8
20°-30°	1705.4	4.7
30°-40°	2835.6	7.9
40°-50°	4950.9	13.7
50°-60°	9672.4	26.8
60°-70°	11222.2	31.1
70°-80°	4086.6	11.3
80°-90°	287.9	0.8
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°	36101.0	100.0
0°-180°	36101.0	100.0

**Coefficient of Utilization**



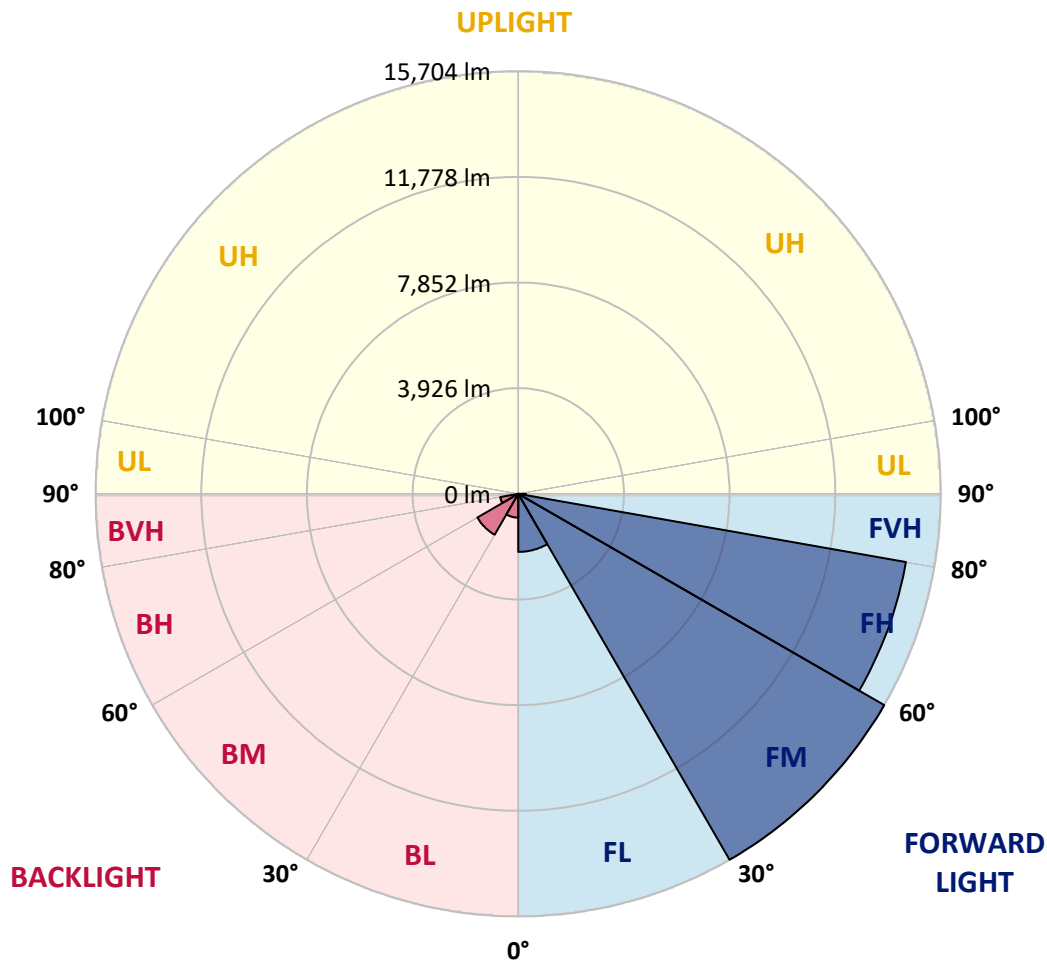
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 CATALOG NUMBER: GALN-SA9C-835-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.2	6.0			
FM (30°-60°)	15704.0	43.5			
FH (60°-80°)	14627.7	40.5			G5
FVH (80°-90°)	284.0	0.8			G3/500
BL (0°-30°)	886.2	2.5	B2/1000		
BM (30°-60°)	1754.9	4.9	B2/2500		
BH (60°-80°)	681.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.9	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9
2.5°	3782.0	3765.4	3757.1	3713.0	3679.9	3638.5	3638.5	3586.1	3525.5	3459.2	3398.5
5°	4204.1	4176.4	4140.6	4102.0	4024.8	3914.4	3914.4	3804.0	3677.1	3564.1	3440.0
7.5°	4609.5	4584.7	4524.0	4449.6	4322.6	4206.8	4198.5	4038.6	3886.8	3715.8	3539.2
10°	4965.4	4946.1	4893.7	4750.2	4617.8	4466.1	4463.3	4284.0	4107.5	3897.9	3679.9
12.5°	5213.7	5216.4	5147.4	5009.6	4838.5	4695.1	4684.1	4507.5	4322.6	4096.5	3828.9
15°	5390.3	5390.3	5318.5	5164.0	5009.6	4882.6	4871.6	4717.1	4526.8	4281.3	3991.7
17.5°	5439.9	5456.4	5379.2	5241.2	5117.1	5006.8	5004.0	4874.4	4722.7	4485.4	4157.2
20°	5420.6	5437.2	5376.5	5268.9	5183.3	5119.9	5111.6	5059.2	4918.5	4695.1	4333.7
22.5°	5379.2	5395.7	5351.6	5288.1	5246.8	5266.1	5252.3	5296.4	5222.0	4951.6	4543.4
25°	5387.4	5404.0	5370.9	5335.0	5370.9	5489.5	5525.4	5715.7	5649.5	5277.1	4769.6
27.5°	5646.8	5679.9	5633.0	5649.5	5776.4	6052.3	6121.3	6449.5	6157.1	5690.9	5122.6
30°	6223.3	6201.3	6113.0	6193.0	6634.4	7219.2	7199.8	7147.5	6689.5	6168.2	5541.9
32.5°	6747.4	6728.2	6722.6	7067.4	7867.4	8151.6	8137.7	7630.2	7166.7	6714.3	5955.7
35°	6959.9	6885.4	6868.8	7704.6	9042.6	8667.4	8581.9	7828.8	7746.1	7310.2	6377.8
37.5°	7599.8	7547.4	7290.9	7809.5	8573.6	8449.4	8383.3	8170.8	8363.9	7837.0	6855.0
40°	8918.4	8772.2	8540.5	8033.0	7908.8	7961.2	8027.4	8609.5	9094.9	8557.0	7492.2
42.5°	10557.0	10523.9	10093.6	9147.4	8217.7	8289.5	8375.0	9525.3	10146.0	9641.2	8532.2
45°	12523.9	12570.8	11950.1	10832.9	9613.6	9674.3	9798.4	10877.0	11569.4	11326.6	10168.0
47.5°	14311.4	14275.6	14065.9	12904.5	11779.1	11643.9	11845.2	12612.2	13539.0	13577.6	12198.4
50°	16110.0	16300.3	15988.6	15533.5	14697.6	14413.5	14339.0	14714.1	16126.5	15941.7	14636.9
52.5°	18694.8	18794.0	18209.3	18093.4	18283.8	17362.4	17287.9	17378.9	18642.4	18007.9	16463.1
55°	20319.6	20261.6	20043.7	20948.5	21701.6	20551.2	20457.5	20090.6	20730.6	19467.2	18220.3
57.5°	20832.7	20915.4	21423.0	23058.8	24840.8	23864.3	23693.3	22650.5	22236.7	20827.1	19836.8
60°	20603.7	20755.4	21850.6	24283.6	26755.3	26609.1	26462.9	24711.2	23318.1	21963.6	20970.5
62.5°	18973.3	19185.8	20937.5	24065.7	27403.5	28316.6	28134.5	25996.7	24038.1	22515.4	21169.2
65°	15900.3	16057.6	18573.4	22087.8	26482.2	28901.5	28835.2	26399.4	24151.2	22010.5	19809.2
67.5°	11334.9	11870.1	14201.0	18614.7	23756.7	27902.8	28016.0	25916.7	23089.2	19828.5	16405.2
70°	7125.4	7489.5	9161.2	13326.6	19045.1	24479.5	24851.9	23707.0	20038.1	15456.2	10981.8
72.5°	3398.5	3668.9	4860.6	8435.7	13442.5	19260.2	19555.4	19461.6	15494.9	9737.7	5666.1
75°	1514.5	1616.5	2320.0	4306.1	8678.5	12945.9	13710.0	13836.9	9682.6	4764.0	2204.1
77.5°	772.4	775.2	1086.9	2085.4	4333.7	7724.0	7875.7	8319.8	5249.5	2099.3	766.9
80°	411.0	438.6	576.5	984.8	2248.2	3804.0	3784.7	4159.9	2328.3	1028.9	256.5
82.5°	184.8	204.1	325.5	515.8	1097.9	1442.8	1555.8	1702.0	998.6	656.5	113.1
85°	55.2	66.2	160.0	259.3	397.2	416.6	466.2	601.3	565.5	466.2	57.9
87.5°	8.3	8.3	66.2	71.7	57.9	74.5	77.2	85.5	182.0	171.0	30.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GALN-SA9C-835-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9
2.5°	3365.4	3346.2	3277.2	3219.2	3169.6	3139.2	3103.3	3081.3	3070.3	3062.0	3064.7
5°	3379.3	3332.4	3213.7	3119.9	3048.2	2970.9	2918.6	2888.2	2874.4	2852.3	2852.3
7.5°	3456.5	3382.0	3216.5	3073.0	2948.9	2844.1	2744.8	2708.9	2684.0	2678.6	2673.1
10°	3566.8	3473.0	3246.8	3048.2	2871.7	2728.2	2587.5	2463.4	2366.9	2308.9	2300.6
12.5°	3704.8	3569.5	3293.7	3031.6	2805.5	2551.6	2179.2	1928.2	1759.9	1707.6	1715.8
15°	3831.6	3685.4	3340.6	3017.8	2684.0	2115.8	1693.8	1406.9	1321.3	1313.1	1315.8
17.5°	3983.4	3809.6	3395.8	2998.6	2350.3	1616.5	1257.9	1180.7	1197.2	1224.8	1222.0
20°	4140.6	3942.0	3462.0	2882.7	1875.8	1216.5	1111.7	1120.0	1144.8	1169.6	1175.1
22.5°	4308.8	4093.7	3539.2	2604.1	1431.7	1059.3	1053.8	1064.8	1089.6	1117.2	1122.7
25°	4540.6	4284.0	3597.2	2239.9	1084.1	979.3	990.3	1009.6	1031.7	1062.1	1067.5
27.5°	4838.5	4540.6	3627.5	1765.5	937.9	907.6	910.3	937.9	965.5	993.1	993.1
30°	5224.7	4846.8	3566.8	1335.2	866.2	838.6	827.6	844.2	880.0	907.6	910.3
32.5°	5569.6	5136.4	3406.8	1020.6	813.8	775.2	747.6	750.3	764.1	780.7	783.5
35°	5914.4	5417.8	3133.7	857.9	758.6	714.5	673.1	651.0	640.0	631.7	640.0
37.5°	6355.7	5768.1	2769.6	780.7	711.7	656.5	598.6	551.7	513.1	488.3	493.8
40°	6924.0	6253.7	2339.3	731.0	667.6	601.3	524.1	463.5	397.2	375.1	364.1
42.5°	7861.9	6990.2	1886.9	689.7	623.4	543.4	446.9	364.1	303.4	281.4	286.9
45°	9343.2	7919.8	1453.8	645.5	579.3	480.0	375.1	286.9	237.2	226.2	231.7
47.5°	11307.3	9122.6	1120.0	595.9	524.1	411.0	295.2	226.2	195.8	193.1	190.3
50°	13155.6	10242.5	935.1	540.7	457.9	342.1	242.7	190.3	171.0	168.3	168.3
52.5°	14827.3	11045.3	761.4	477.2	386.2	281.4	204.1	168.3	151.7	143.4	143.4
55°	16314.1	11569.4	617.9	400.0	303.4	223.5	176.6	151.7	132.4	121.4	118.6
57.5°	17436.9	11632.9	463.5	320.0	226.2	173.8	151.7	132.4	110.3	96.5	91.1
60°	17916.8	11083.9	342.1	242.7	168.3	138.0	121.4	107.6	82.8	69.0	66.2
62.5°	17434.1	10016.4	253.8	184.8	129.7	102.1	85.5	80.0	57.9	41.3	38.6
65°	15704.5	8474.3	201.4	140.7	96.5	74.5	55.2	52.4	35.9	19.3	16.5
67.5°	12581.8	6637.1	160.0	104.8	69.0	49.6	35.9	33.1	19.3	5.5	5.5
70°	8181.9	4242.7	129.7	77.2	44.2	33.1	22.1	16.5	11.0	2.7	0.0
72.5°	4046.8	1983.4	104.8	60.7	30.4	16.5	8.3	5.5	8.3	0.0	0.0
75°	1569.6	706.2	77.2	41.3	16.5	8.3	5.5	0.0	2.7	0.0	0.0
77.5°	521.4	234.5	46.9	22.1	11.0	5.5	0.0	0.0	0.0	0.0	0.0
80°	193.1	91.1	24.8	13.8	5.5	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	77.2	35.9	16.5	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.6	22.1	11.0	8.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	16.5	11.0	8.3	5.5	2.7	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)