

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: P647188

Luminaire Tested: **GALN-SA9C-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36638.9 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

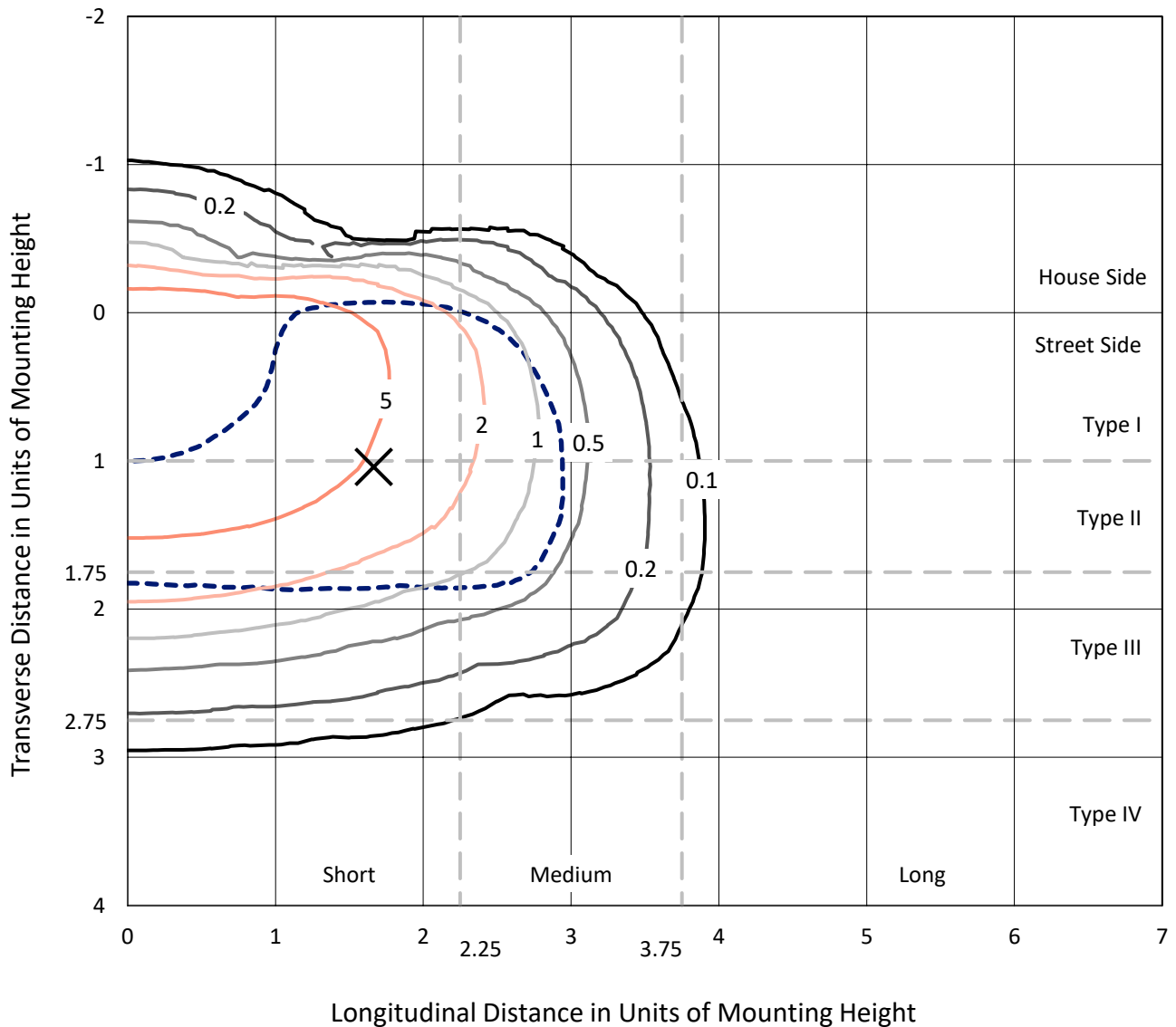
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647188  
 CATALOG NUMBER: GALN-SA9C-835-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

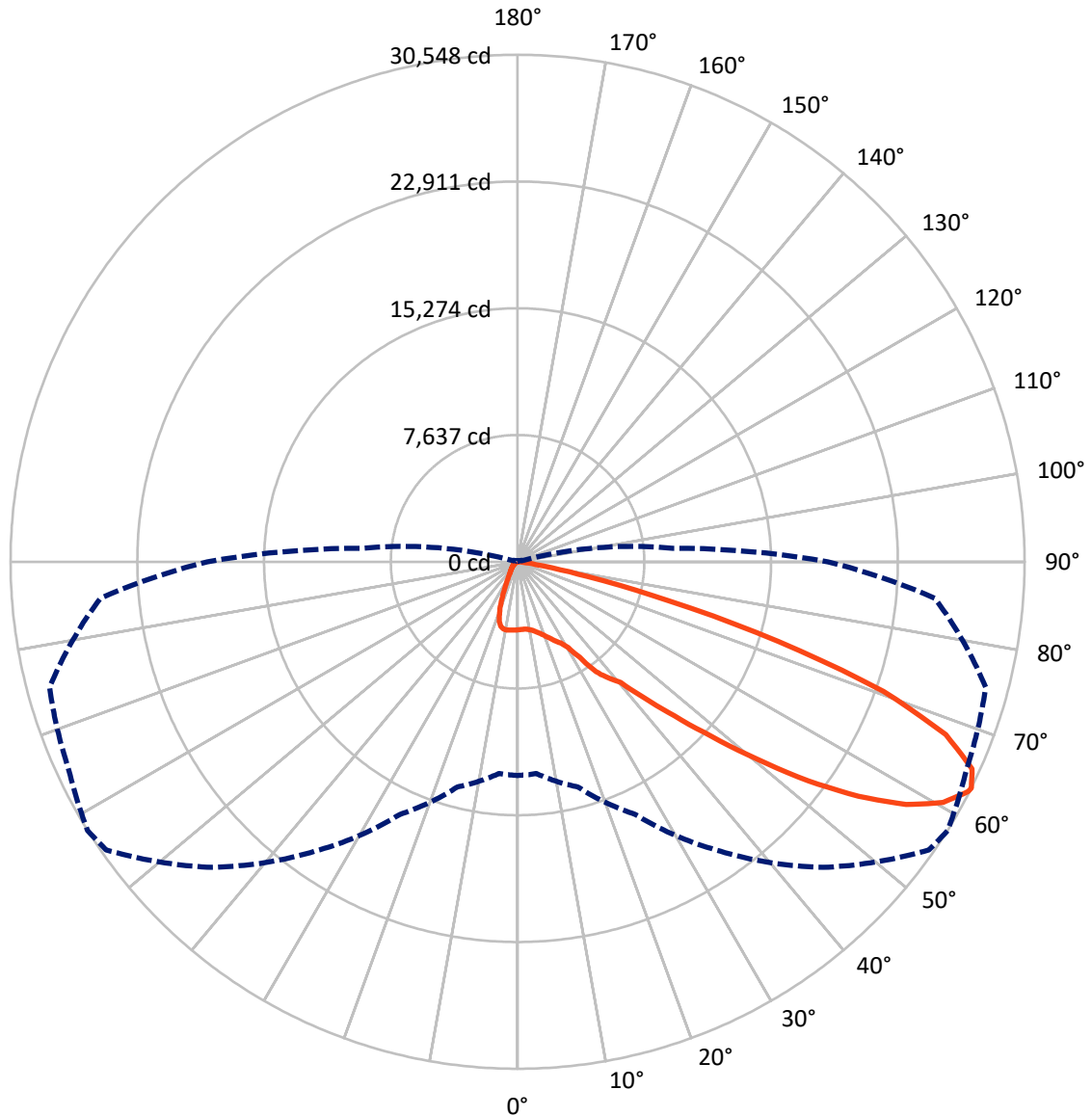
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P647188  
CATALOG NUMBER: GALN-SA9C-835-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P647188  
 CATALOG NUMBER: GALN-SA9C-835-U-T3-HSS

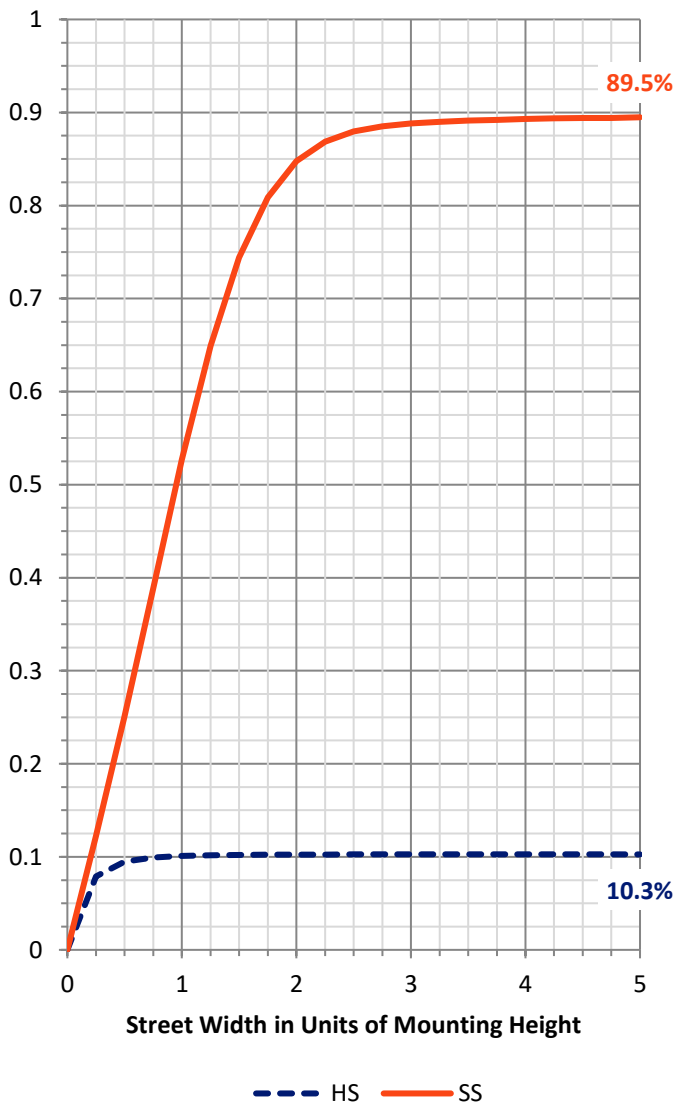
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3793.7	0.0	3793.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	32845.2	0.0	32845.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	36638.9	0.0	36638.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.0	1.0
10°-20°	1045.9	2.9
20°-30°	1815.1	5.0
30°-40°	3335.5	9.1
40°-50°	6279.0	17.1
50°-60°	10739.8	29.3
60°-70°	10283.3	28.1
70°-80°	2622.3	7.2
80°-90°	134.1	0.4
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°	36638.9	100.0
0°-180°	36638.9	100.0

**Coefficient of Utilization**



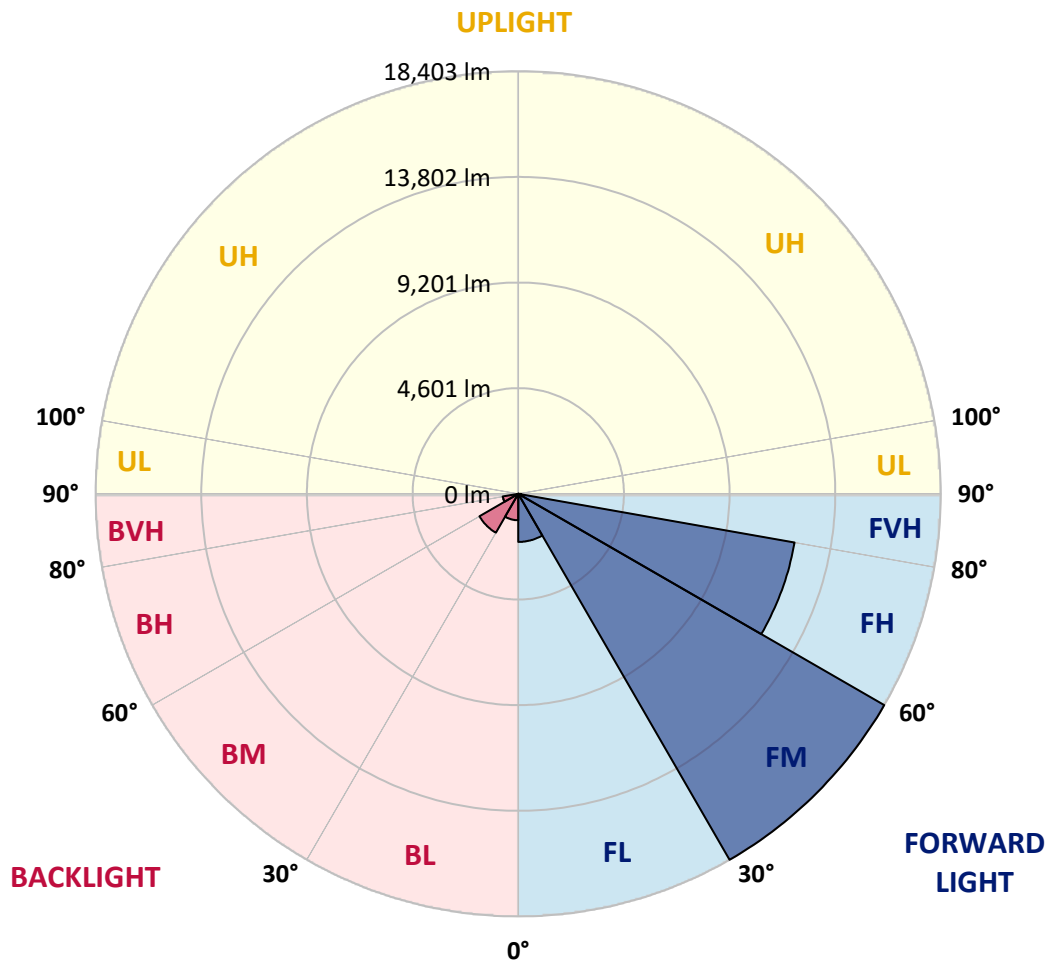
REPORT NUMBER: P647188  
 CATALOG NUMBER: GALN-SA9C-835-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.4	5.7			
FM (30°-60°)	18403.0	50.2			
FH (60°-80°)	12218.9	33.3			G5
FVH (80°-90°)	128.9	0.4			G2/225
BL (0°-30°)	1150.5	3.1	B3/2500		
BM (30°-60°)	1951.3	5.3	B2/2500		
BH (60°-80°)	686.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P647188

CATALOG NUMBER: GALN-SA9C-835-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9
2.5°	3999.8	4013.6	4027.4	4032.9	4052.2	4071.5	4085.3	4082.6	4104.6	4115.7	4115.7
5°	3839.8	3839.8	3875.7	3908.7	3963.9	4019.1	4071.5	4082.6	4123.9	4162.6	4176.4
7.5°	3704.6	3712.9	3740.5	3801.2	3875.7	3972.2	4077.1	4101.9	4173.6	4259.1	4295.0
10°	3641.2	3646.7	3682.6	3746.0	3839.8	3972.2	4118.4	4165.3	4275.6	4410.8	4460.4
12.5°	3627.4	3635.7	3671.6	3743.3	3850.9	4010.8	4209.5	4259.1	4419.1	4592.8	4667.4
15°	3652.2	3657.8	3693.6	3770.8	3889.5	4079.8	4330.9	4399.8	4590.1	4791.5	4888.0
17.5°	3740.5	3735.0	3759.8	3823.2	3955.6	4165.3	4477.0	4559.8	4783.2	5059.0	5122.5
20°	4115.7	4079.8	4057.7	4002.5	4055.0	4286.7	4653.6	4775.0	5050.8	5332.2	5376.3
22.5°	4923.9	4843.9	4686.6	4471.5	4306.0	4452.2	4866.0	5006.7	5362.5	5638.4	5638.4
25°	5952.8	5850.7	5693.5	5224.6	4819.1	4725.2	5105.9	5282.5	5701.8	5980.4	5889.3
27.5°	7241.0	7161.0	6854.9	6308.6	5688.0	5202.5	5384.5	5547.3	6002.5	6339.0	6148.7
30°	8289.2	8250.6	7999.6	7511.3	6827.3	6118.3	5903.2	6010.8	6402.4	6791.4	6595.5
32.5°	9174.7	9174.7	8918.2	8463.1	7823.0	7194.1	6783.1	6860.3	7235.5	7685.1	7321.0
35°	10148.5	10115.3	9908.5	9475.4	8758.2	8203.7	8035.5	8140.3	8479.6	8813.4	7916.8
37.5°	11171.8	11160.8	10945.6	10526.4	9941.6	9243.7	8849.2	8876.8	9050.6	9254.7	8614.7
40°	12283.5	12300.1	12018.7	11759.4	11207.7	10493.3	9737.5	9563.6	9726.4	10302.9	9903.0
42.5°	13596.6	13558.0	13436.6	13083.5	12639.4	12211.8	11304.2	11240.8	11384.3	12002.1	11569.1
45°	15122.0	15177.2	14967.5	14771.7	14473.8	14118.0	13359.3	13249.0	13406.2	14366.2	13751.0
47.5°	16650.3	16597.8	16732.9	16697.1	16857.1	16592.3	15922.0	15695.8	16073.7	16984.0	16079.2
50°	17814.3	17872.2	18153.6	18564.6	19251.5	19400.5	18757.7	18680.5	18848.8	19433.5	18161.8
52.5°	18570.1	18763.2	19204.6	20261.1	21499.6	22462.3	21974.1	21932.7	21863.8	22021.0	20153.5
55°	19063.9	19259.8	19836.3	21392.0	23524.4	25088.4	25113.2	24936.7	24481.6	24368.4	22015.5
57.5°	18760.4	18799.0	19621.1	21701.0	24647.0	26961.4	27772.5	27595.9	26754.6	26327.0	23659.5
60°	16862.6	16942.6	18087.4	20531.4	24158.8	27573.8	29535.1	29455.1	28533.8	28051.1	24939.5
62.5°	13500.0	13731.7	14909.7	17635.0	21888.6	26542.1	30249.6	30475.8	29758.5	29093.8	25342.2
63°	12882.2	12807.7	14051.7	16790.9	21287.3	26031.9	30260.6	30547.5	29813.7	29193.1	25231.9
65°	9536.1	9759.5	10567.8	13240.8	17715.0	23656.8	29579.2	30086.8	29609.6	28754.4	24009.8
67.5°	5354.2	5343.2	6236.9	8664.4	12399.4	18556.3	26746.3	27819.4	27720.0	25802.9	19902.5
70°	2620.5	2662.0	3028.8	4490.8	7191.4	12802.1	22225.1	23383.7	23419.5	20266.6	13762.1
72.5°	1186.2	1205.4	1467.5	2187.5	3696.4	6816.2	15315.1	16421.2	16217.1	12915.2	7599.6
75°	626.2	667.6	808.2	1100.7	1782.0	2810.9	8330.7	9400.9	8973.3	5900.4	2797.1
77.5°	463.5	477.2	549.0	700.6	954.4	1095.1	3594.3	4275.6	4005.4	2135.1	926.8
80°	339.3	350.3	408.3	496.5	601.3	557.2	1354.4	1553.0	1393.0	725.4	284.2
82.5°	206.9	209.6	297.9	369.7	377.9	311.7	446.9	480.0	502.1	408.3	154.5
85°	74.5	93.8	201.4	267.6	223.5	157.2	187.6	206.9	226.2	259.3	91.1
87.5°	8.3	11.0	96.5	129.7	63.4	57.9	69.0	77.2	82.8	96.5	44.2
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: P647188  
 CATALOG NUMBER: GALN-SA9C-835-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9
2.5°	4126.7	4137.8	4129.5	4115.7	4112.9	4104.6	4088.0	4088.0	4088.0	4093.6	4088.0
5°	4187.4	4195.6	4176.4	4148.7	4118.4	4079.8	4038.4	4013.6	4010.8	4005.4	3991.5
7.5°	4303.2	4314.3	4270.2	4203.9	4121.2	4027.4	3939.1	3856.4	3817.8	3787.4	3787.4
10°	4471.5	4482.5	4394.3	4275.6	4110.1	3919.8	3710.2	3519.8	3370.9	3301.9	3285.4
12.5°	4672.9	4678.4	4532.2	4325.3	4052.2	3685.3	3238.5	2821.9	2532.3	2399.9	2386.1
15°	4893.5	4854.9	4661.8	4344.6	3886.7	3202.6	2430.2	1919.9	1619.2	1530.9	1564.0
17.5°	5117.0	5045.3	4761.1	4314.3	3514.3	2430.2	1633.0	1310.3	1216.5	1191.6	1191.6
20°	5326.7	5227.3	4832.8	4181.8	2868.8	1674.4	1211.0	1133.7	1117.2	1100.7	1103.4
22.5°	5536.3	5384.5	4896.3	3886.7	2137.8	1197.2	1084.1	1059.2	1037.2	1015.2	1012.3
25°	5740.4	5530.8	4921.2	3340.5	1456.5	1028.9	990.3	957.2	913.1	888.2	882.8
27.5°	5952.8	5707.3	4904.6	2650.9	1062.0	921.4	882.8	835.9	783.4	739.3	739.3
30°	6361.1	6043.8	4846.7	1906.1	893.7	811.0	761.3	686.8	628.9	584.8	582.0
32.5°	6918.3	6482.5	4648.0	1340.7	794.4	714.4	639.9	557.2	496.5	463.5	463.5
35°	7414.8	6923.8	4275.6	987.5	714.4	620.7	529.6	449.6	402.8	380.7	372.4
37.5°	8170.6	7569.3	3762.5	802.7	637.2	537.9	444.1	369.7	331.1	314.5	314.5
40°	9304.4	8358.2	3133.6	703.4	562.7	457.9	369.7	311.7	281.3	262.1	262.1
42.5°	10711.2	9323.7	2496.4	631.7	493.8	394.5	309.0	264.8	237.2	223.5	220.6
45°	12482.1	10341.6	1922.7	565.5	438.6	336.5	262.1	223.5	195.8	187.6	190.3
47.5°	14330.3	11238.1	1489.6	507.5	380.7	284.2	223.5	193.1	173.7	162.8	162.8
50°	15908.2	11856.0	1131.0	441.4	336.5	240.0	195.8	173.7	157.2	151.7	148.9
52.5°	17226.8	12035.3	866.2	383.4	295.2	206.9	173.7	157.2	143.4	135.1	135.1
55°	18349.4	11878.0	678.6	322.8	248.3	179.3	154.5	140.7	124.1	115.9	113.1
57.5°	19006.0	11373.2	518.6	267.6	201.4	148.9	135.1	118.6	99.3	85.5	85.5
60°	19337.0	10639.5	397.2	220.6	154.5	118.6	110.3	88.2	69.0	57.9	55.2
62.5°	18939.8	9665.7	300.7	173.7	115.9	88.2	74.5	63.4	44.2	33.1	33.1
63°	18694.3	9384.3	289.6	165.5	107.6	82.8	69.0	57.9	38.6	30.4	27.6
65°	17041.9	8156.8	237.2	132.4	85.5	57.9	46.9	41.3	27.6	13.8	11.0
67.5°	13533.1	6239.7	187.6	99.3	60.7	41.3	27.6	24.8	8.3	0.0	0.0
70°	9149.9	4030.2	146.2	71.7	41.3	24.8	13.8	11.0	2.7	0.0	0.0
72.5°	4772.2	2066.1	113.1	52.4	24.8	16.5	8.3	2.7	0.0	0.0	0.0
75°	1688.2	703.4	82.8	33.1	16.5	8.3	2.7	0.0	0.0	0.0	0.0
77.5°	510.3	262.1	52.4	24.8	11.0	5.5	0.0	0.0	0.0	0.0	0.0
80°	179.3	96.5	30.4	16.5	8.3	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	88.2	46.9	19.3	13.8	8.3	2.7	0.0	0.0	0.0	0.0	0.0
85°	49.6	30.4	16.5	13.8	8.3	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	35.9	22.1	16.5	13.8	11.0	5.5	2.7	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)