

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: P647573

Luminaire Tested: **GALN-SA7D-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647573  
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-SA7D-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA 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: 30974.7 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

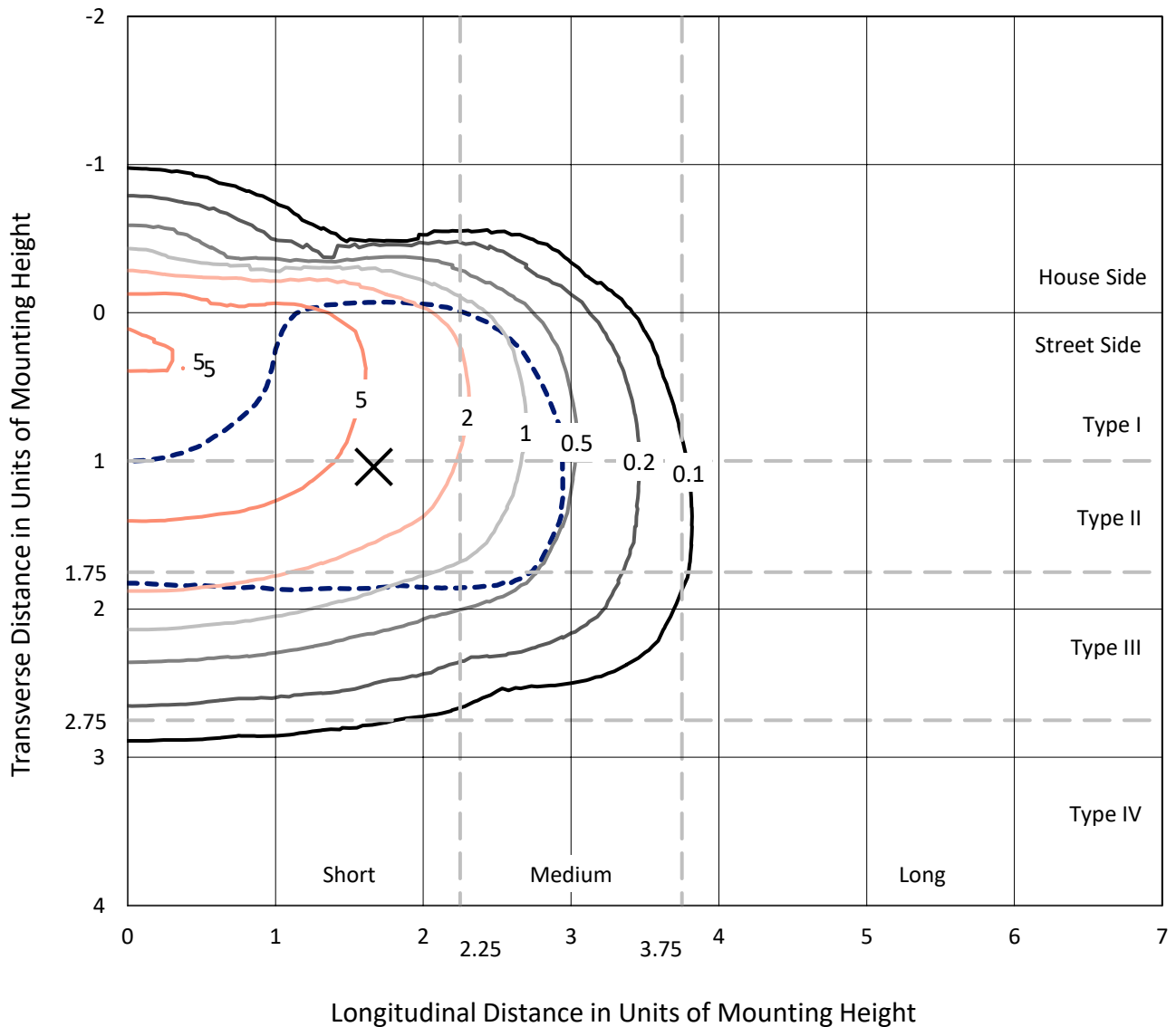
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647573  
 CATALOG NUMBER: GALN-SA7D-835-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

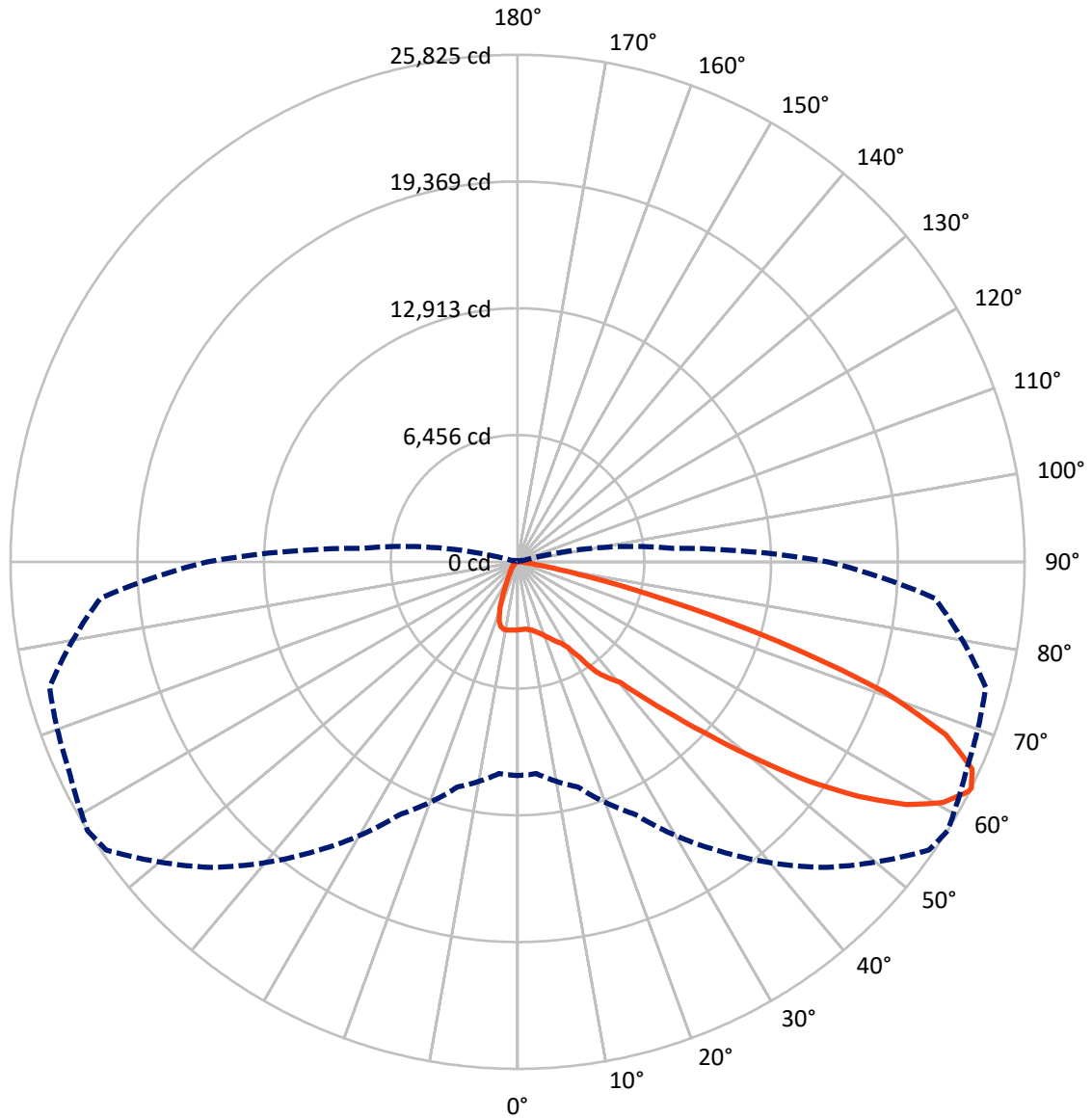
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P647573  
CATALOG NUMBER: GALN-SA7D-835-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647573  
 CATALOG NUMBER: GALN-SA7D-835-U-T3-HSS

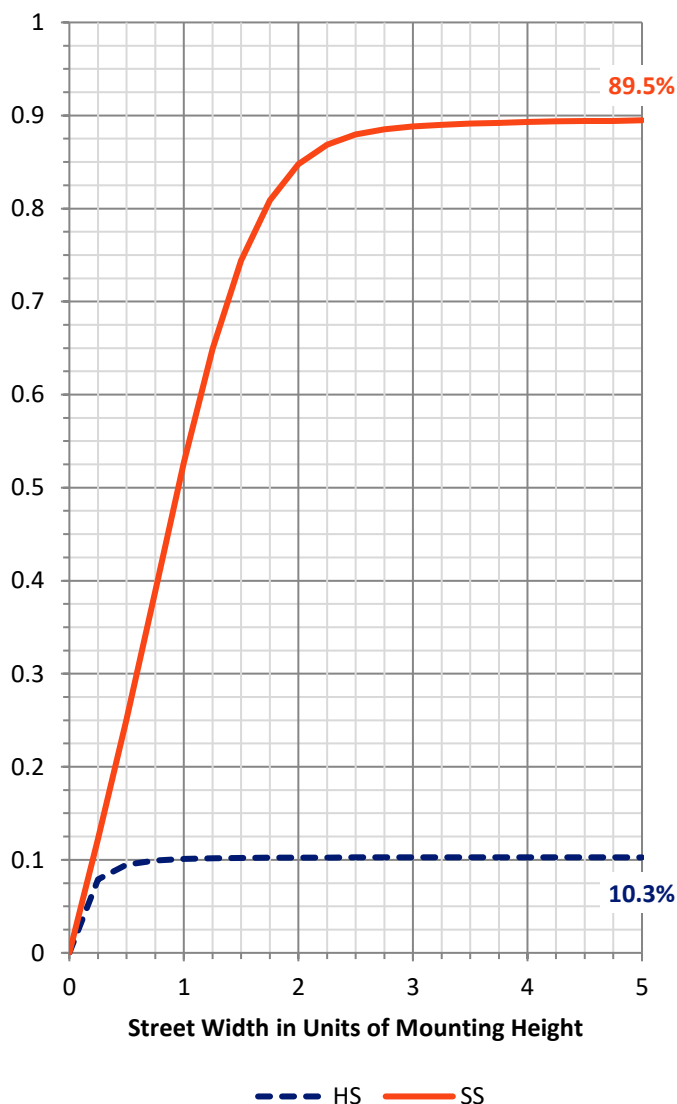
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3207.2	0.0	3207.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	27767.5	0.0	27767.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	30974.7	0.0	30974.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.6	1.0
10°-20°	884.2	2.9
20°-30°	1534.5	5.0
30°-40°	2819.8	9.1
40°-50°	5308.3	17.1
50°-60°	9079.4	29.3
60°-70°	8693.6	28.1
70°-80°	2216.9	7.2
80°-90°	113.4	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°	30974.7	100.0
0°-180°	30974.7	100.0

**Coefficient of Utilization**

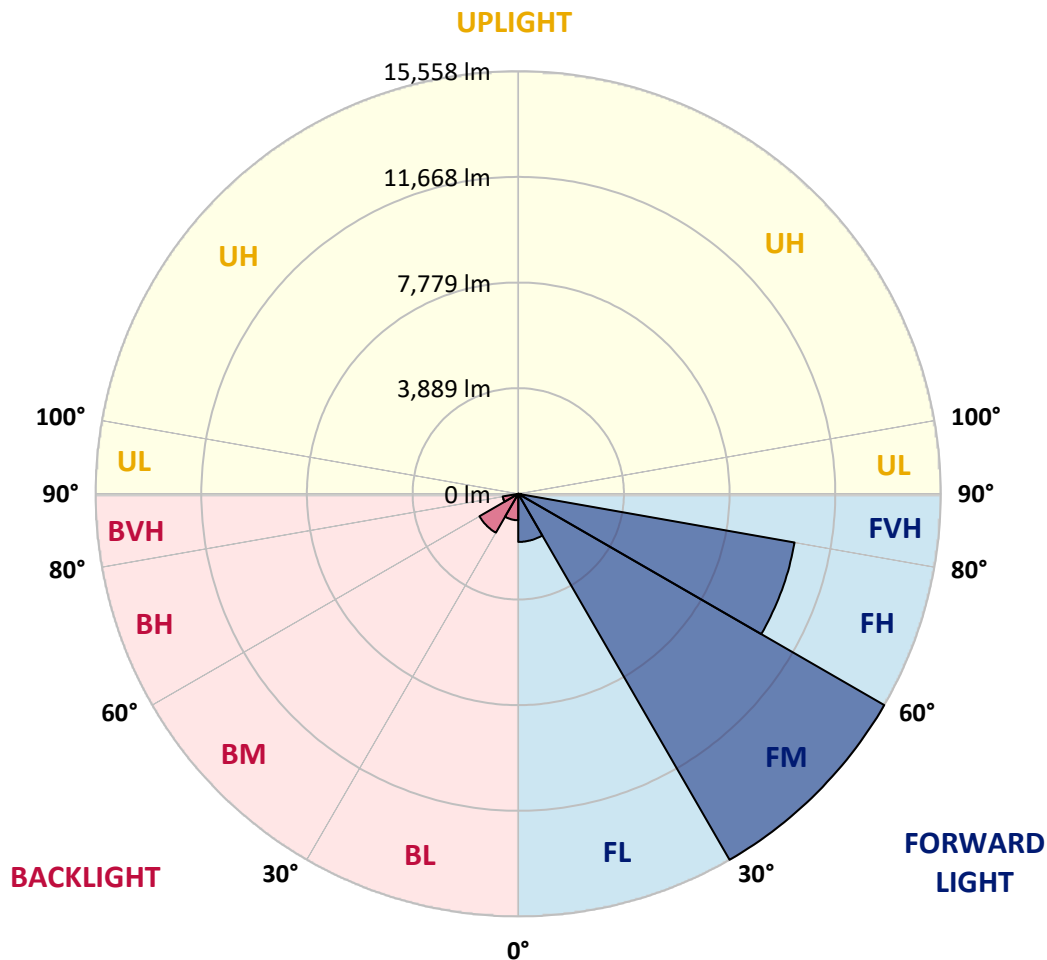


REPORT NUMBER: P647573  
 CATALOG NUMBER: GALN-SA7D-835-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.6	5.7			
FM (30°-60°)	15558.0	50.2			
FH (60°-80°)	10329.9	33.3			G4/12000
FVH (80°-90°)	109.0	0.4			G2/225
BL (0°-30°)	972.7	3.1	B2/1000		
BM (30°-60°)	1649.6	5.3	B2/2500		
BH (60°-80°)	580.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.4	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-G4**  
 Type III Short





REPORT NUMBER: P647573

CATALOG NUMBER: GALN-SA7D-835-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8
2.5°	3381.5	3393.1	3404.8	3409.4	3425.8	3442.1	3453.7	3451.4	3470.1	3479.4	3479.4
5°	3246.2	3246.2	3276.5	3304.5	3351.2	3397.8	3442.1	3451.4	3486.4	3519.0	3530.7
7.5°	3131.9	3138.9	3162.2	3213.5	3276.5	3358.1	3446.8	3467.8	3528.4	3600.6	3631.0
10°	3078.3	3083.0	3113.3	3166.9	3246.2	3358.1	3481.8	3521.4	3614.6	3729.0	3770.9
12.5°	3066.6	3073.6	3104.0	3164.6	3255.6	3390.8	3558.7	3600.6	3735.9	3882.8	3945.8
15°	3087.6	3092.3	3122.6	3187.9	3288.2	3449.1	3661.3	3719.6	3880.5	4050.8	4132.4
17.5°	3162.2	3157.6	3178.6	3232.2	3344.1	3521.4	3784.9	3854.9	4043.7	4277.0	4330.6
20°	3479.4	3449.1	3430.4	3383.8	3428.1	3624.0	3934.1	4036.8	4269.9	4507.8	4545.2
22.5°	4162.7	4095.1	3962.1	3780.2	3640.3	3763.9	4113.7	4232.7	4533.5	4766.7	4766.7
25°	5032.5	4946.2	4813.3	4416.9	4074.0	3994.8	4316.6	4465.8	4820.3	5055.8	4978.9
27.5°	6121.6	6054.0	5795.1	5333.4	4808.6	4398.2	4552.1	4689.7	5074.5	5359.0	5198.1
30°	7007.8	6975.1	6762.9	6350.1	5771.8	5172.4	4990.5	5081.5	5412.6	5741.5	5575.9
32.5°	7756.3	7756.3	7539.5	7154.7	6613.7	6082.0	5734.5	5799.8	6117.0	6497.0	6189.2
35°	8579.6	8551.6	8376.7	8010.6	7404.2	6935.5	6793.2	6881.9	7168.7	7450.9	6692.9
37.5°	9444.8	9435.4	9253.5	8899.0	8404.6	7814.7	7481.2	7504.5	7651.4	7824.0	7282.9
40°	10384.5	10398.6	10160.7	9941.4	9475.1	8871.1	8232.1	8085.2	8222.8	8710.2	8372.0
42.5°	11494.6	11461.9	11359.4	11060.8	10685.4	10323.9	9556.7	9503.0	9624.3	10146.7	9780.5
45°	12784.2	12830.9	12653.6	12488.1	12236.2	11935.3	11294.1	11200.7	11333.7	12145.3	11625.2
47.5°	14076.1	14031.8	14146.1	14115.8	14251.1	14027.2	13460.5	13269.3	13588.8	14358.3	13593.4
50°	15060.3	15109.2	15347.1	15694.6	16275.3	16401.2	15857.9	15792.6	15934.8	16429.2	15354.2
52.5°	15699.2	15862.5	16235.7	17128.8	18175.9	18989.8	18577.0	18542.0	18483.7	18616.6	17037.8
55°	16116.7	16282.3	16769.7	18085.0	19887.6	21209.9	21230.9	21081.6	20696.8	20601.2	18612.0
57.5°	15860.2	15892.8	16587.8	18346.2	20836.7	22793.3	23479.0	23329.7	22618.4	22256.9	20001.9
60°	14255.8	14323.3	15291.1	17357.3	20424.0	23311.0	24969.1	24901.5	24122.6	23714.5	21083.9
62.5°	11413.0	11608.8	12604.7	14908.7	18504.7	22438.8	25573.1	25764.3	25158.0	24596.0	21424.4
63°	10890.6	10827.6	11879.4	14195.1	17996.3	22007.4	25582.4	25825.0	25204.6	24679.9	21331.1
65°	8061.8	8250.7	8934.0	11193.8	14976.4	19999.5	25006.4	25435.5	25032.0	24309.2	20298.0
67.5°	4526.4	4517.1	5272.7	7324.9	10482.5	15687.6	22611.4	23518.6	23434.6	21813.8	16825.7
70°	2215.4	2250.4	2560.6	3796.5	6079.6	10822.9	18789.2	19768.6	19799.0	17133.4	11634.5
72.5°	1002.8	1019.1	1240.7	1849.3	3125.0	5762.5	12947.5	13882.6	13710.0	10918.6	6424.7
75°	529.4	564.4	683.3	930.5	1506.5	2376.3	7042.8	7947.6	7586.1	4988.3	2364.7
77.5°	391.8	403.5	464.1	592.3	806.9	925.8	3038.7	3614.6	3386.1	1805.0	783.5
80°	286.8	296.1	345.1	419.8	508.4	471.1	1145.1	1312.9	1177.7	613.3	240.2
82.5°	174.9	177.3	251.9	312.5	319.5	263.6	377.8	405.8	424.5	345.1	130.6
85°	63.0	79.3	170.2	226.2	188.9	133.0	158.6	174.9	191.2	219.2	77.0
87.5°	7.0	9.3	81.6	109.6	53.6	48.9	58.3	65.3	70.0	81.6	37.3
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: P647573  
 CATALOG NUMBER: GALN-SA7D-835-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8	3467.8
2.5°	3488.7	3498.1	3491.1	3479.4	3477.1	3470.1	3456.1	3456.1	3456.1	3460.7	3456.1
5°	3540.0	3547.0	3530.7	3507.4	3481.8	3449.1	3414.1	3393.1	3390.8	3386.1	3374.4
7.5°	3638.0	3647.3	3610.0	3554.0	3484.0	3404.8	3330.2	3260.2	3227.5	3201.9	3201.9
10°	3780.2	3789.6	3714.9	3614.6	3474.7	3313.8	3136.6	2975.7	2849.7	2791.5	2777.5
12.5°	3950.5	3955.2	3831.5	3656.6	3425.8	3115.6	2737.8	2385.6	2140.8	2028.9	2017.2
15°	4137.1	4104.4	3941.2	3673.0	3285.9	2707.5	2054.5	1623.1	1368.9	1294.3	1322.3
17.5°	4325.9	4265.3	4025.1	3647.3	2971.0	2054.5	1380.6	1107.7	1028.4	1007.4	1007.4
20°	4503.2	4419.2	4085.7	3535.4	2425.3	1415.5	1023.8	958.5	944.5	930.5	932.8
22.5°	4680.4	4552.1	4139.3	3285.9	1807.3	1012.1	916.5	895.5	876.9	858.2	855.8
25°	4853.0	4675.8	4160.3	2824.1	1231.3	869.8	837.2	809.2	771.9	750.9	746.3
27.5°	5032.5	4825.0	4146.4	2241.1	897.9	778.9	746.3	706.6	662.3	625.0	625.0
30°	5377.6	5109.5	4097.4	1611.4	755.6	685.6	643.6	580.7	531.7	494.4	492.0
32.5°	5848.8	5480.3	3929.5	1133.4	671.7	604.0	541.1	471.1	419.8	391.8	391.8
35°	6268.5	5853.4	3614.6	834.8	604.0	524.7	447.7	380.1	340.4	321.8	314.8
37.5°	6907.5	6399.1	3180.9	678.6	538.7	454.8	375.4	312.5	279.8	265.8	265.8
40°	7865.9	7066.1	2649.2	594.7	475.8	387.1	312.5	263.6	237.9	221.5	221.5
42.5°	9055.3	7882.3	2110.5	534.0	417.4	333.5	261.2	223.9	200.5	188.9	186.6
45°	10552.5	8742.8	1625.4	478.1	370.8	284.5	221.5	188.9	165.6	158.6	160.9
47.5°	12114.9	9500.7	1259.3	429.1	321.8	240.2	188.9	163.3	146.9	137.6	137.6
50°	13448.9	10023.1	956.1	373.1	284.5	202.9	165.6	146.9	133.0	128.3	125.9
52.5°	14563.6	10174.7	732.3	324.2	249.5	174.9	146.9	133.0	121.3	114.2	114.2
55°	15512.7	10041.7	573.7	272.9	209.9	151.6	130.6	118.9	104.9	98.0	95.6
57.5°	16067.7	9615.0	438.4	226.2	170.2	125.9	114.2	100.3	83.9	72.3	72.3
60°	16347.6	8994.6	335.8	186.6	130.6	100.3	93.3	74.6	58.3	48.9	46.7
62.5°	16011.7	8171.5	254.2	146.9	98.0	74.6	63.0	53.6	37.3	28.0	28.0
63°	15804.2	7933.6	244.8	139.9	91.0	70.0	58.3	48.9	32.7	25.7	23.3
65°	14407.3	6895.8	200.5	112.0	72.3	48.9	39.6	35.0	23.3	11.7	9.3
67.5°	11441.0	5275.1	158.6	83.9	51.3	35.0	23.3	21.0	7.0	0.0	0.0
70°	7735.3	3407.1	123.6	60.6	35.0	21.0	11.7	9.3	2.3	0.0	0.0
72.5°	4034.4	1746.7	95.6	44.3	21.0	14.0	7.0	2.3	0.0	0.0	0.0
75°	1427.2	594.7	70.0	28.0	14.0	7.0	2.3	0.0	0.0	0.0	0.0
77.5°	431.4	221.5	44.3	21.0	9.3	4.7	0.0	0.0	0.0	0.0	0.0
80°	151.6	81.6	25.7	14.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	74.6	39.6	16.3	11.7	7.0	2.3	0.0	0.0	0.0	0.0	0.0
85°	42.0	25.7	14.0	11.7	7.0	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	30.3	18.6	14.0	11.7	9.3	4.7	2.3	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)