

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: P456044

Luminaire Tested: **GALN-SA7B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25991 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

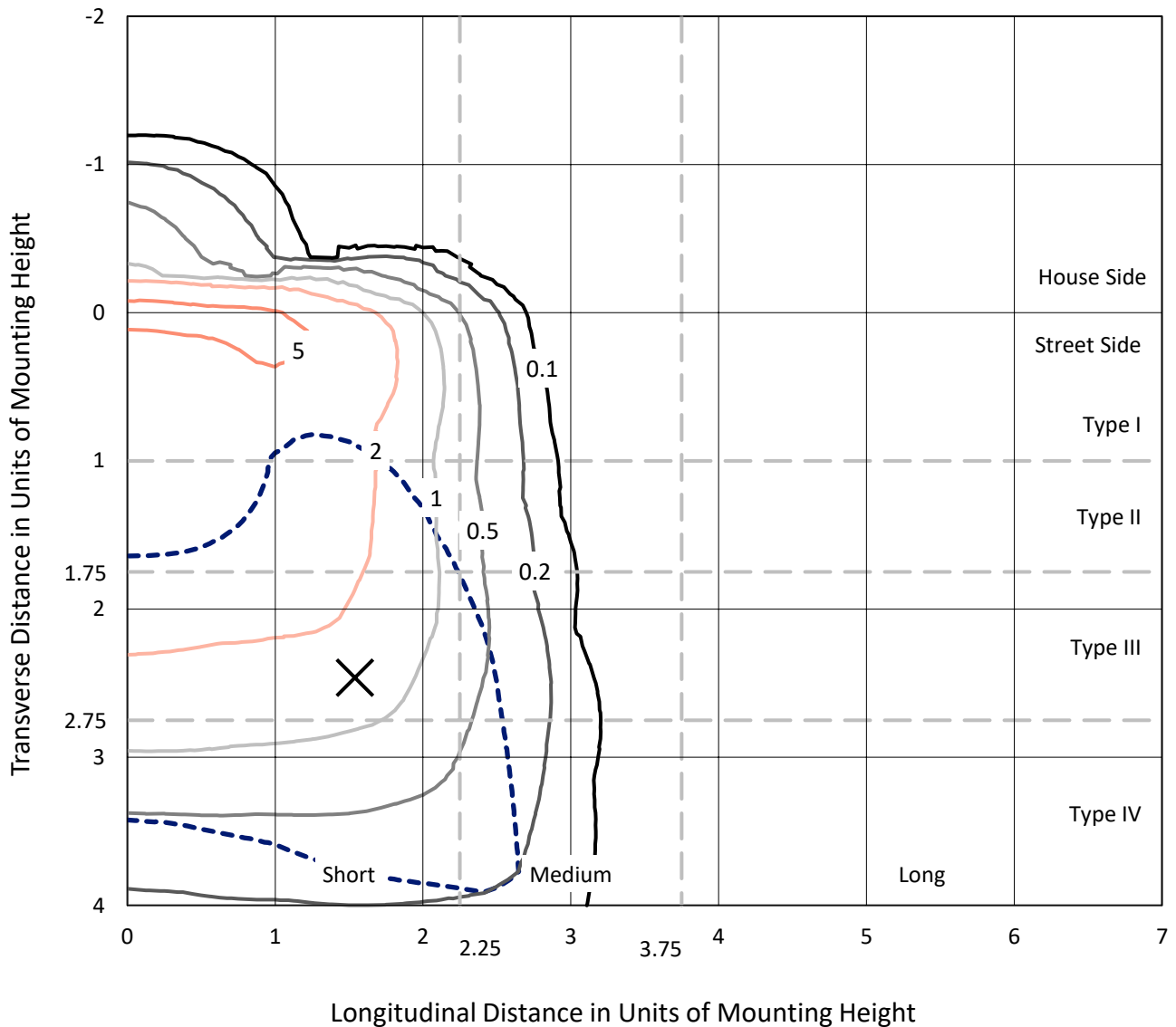
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456044  
 CATALOG NUMBER: GALN-SA7B-730-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

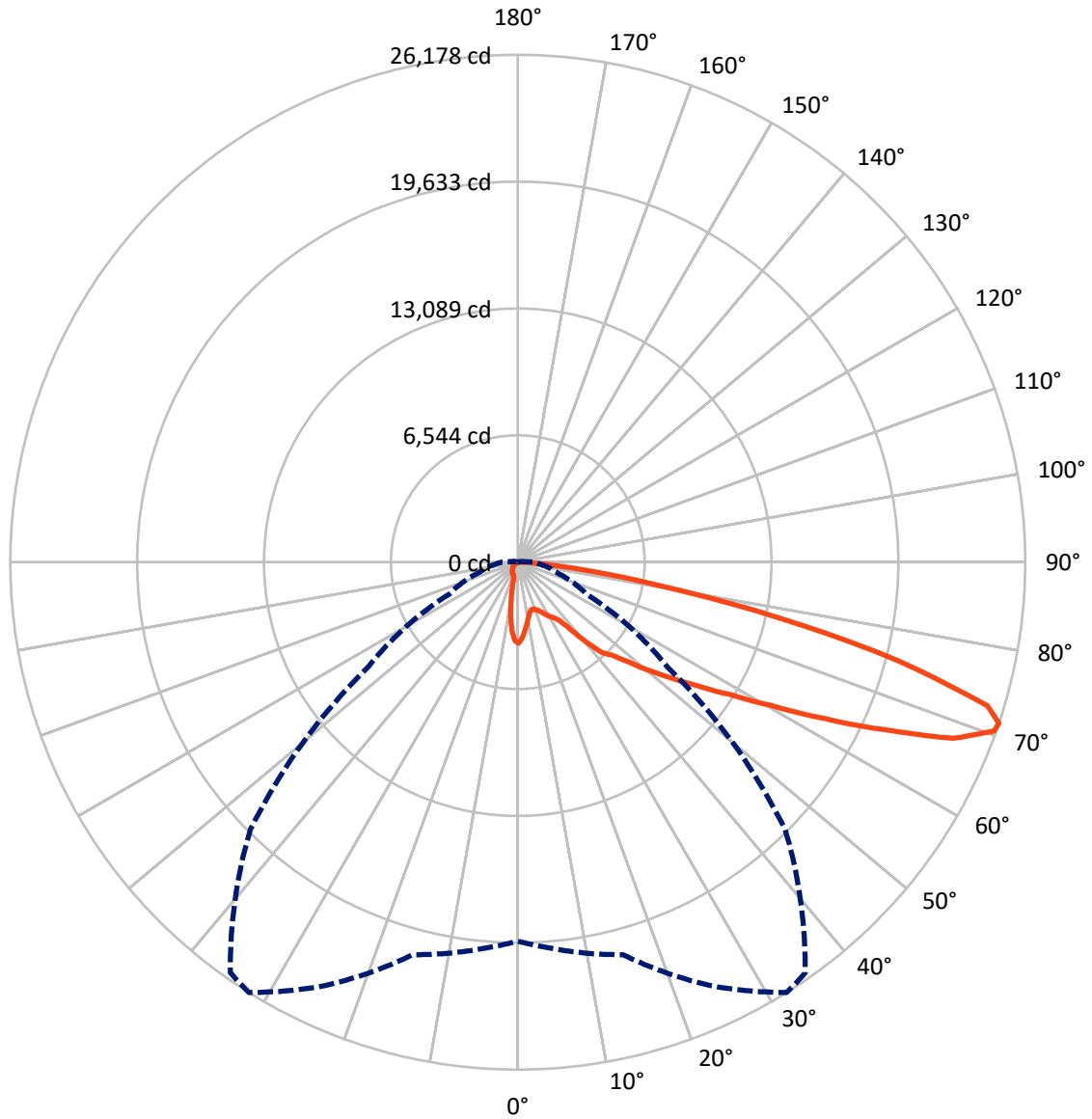
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P456044  
CATALOG NUMBER: GALN-SA7B-730-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P456044  
 CATALOG NUMBER: GALN-SA7B-730-U-T4FT-HSS

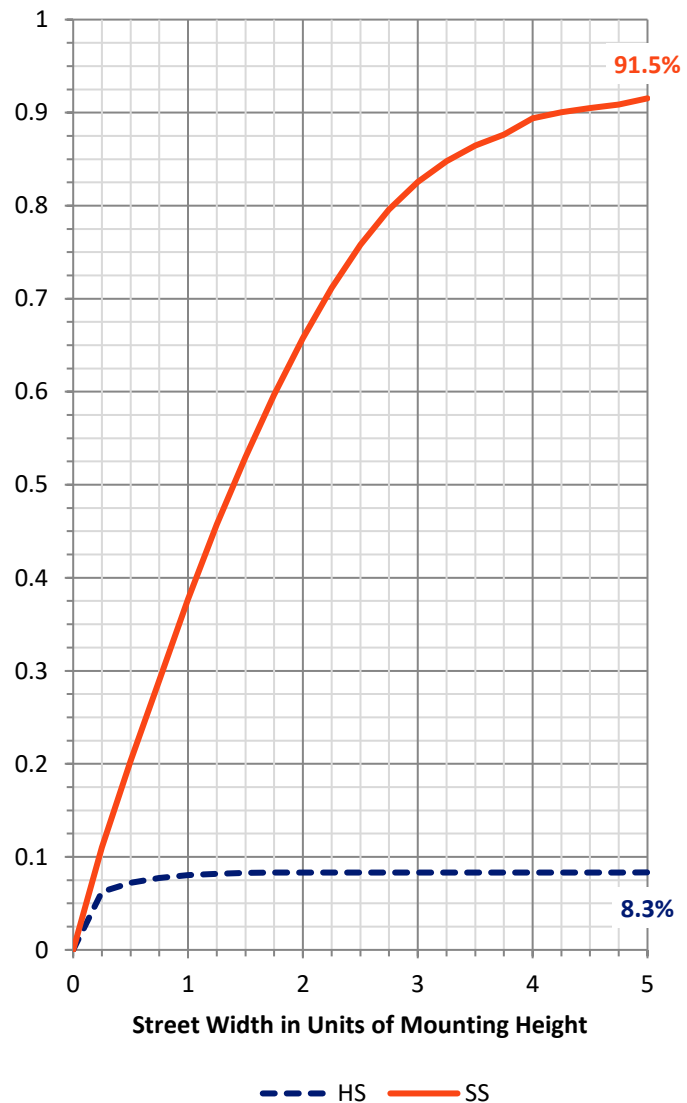
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2177.0	0.0	2177.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23814.0	0.0	23814.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25991.0	0.0	25991.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.9	1.3
10°-20°	737.6	2.8
20°-30°	1147.5	4.4
30°-40°	1911.8	7.4
40°-50°	3556.2	13.7
50°-60°	5709.6	22.0
60°-70°	7679.7	29.5
70°-80°	4556.5	17.5
80°-90°	352.2	1.4
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°	25991.0	100.0
0°-180°	25991.0	100.0

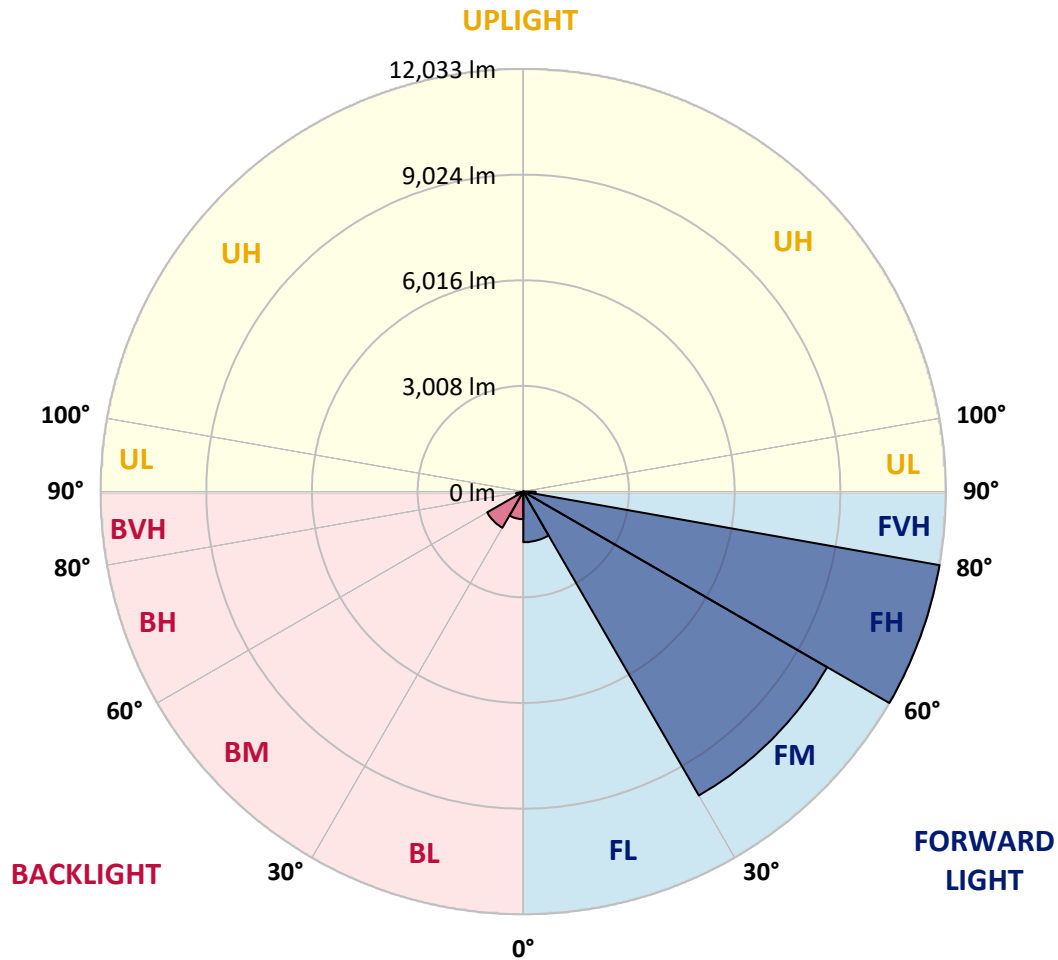


REPORT NUMBER: P456044  
 CATALOG NUMBER: GALN-SA7B-730-U-T4FT-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1440.6	5.5			
FM	(30°-60°)	9990.0	38.4			
FH	(60°-80°)	12032.6	46.3			G5
FVH	(80°-90°)	350.8	1.3			G3/500
BL	(0°-30°)	784.4	3.0	B2/1000		
BM	(30°-60°)	1187.6	4.6	B2/2500		
BH	(60°-80°)	203.6	0.8	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G5**  
 Type IV Short





REPORT NUMBER: P456044

CATALOG NUMBER: GALN-SA7B-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8
2.5°	3876.5	3916.4	3910.4	3924.4	3958.3	3972.3	4010.2	4052.1	4109.9	4149.8	4175.8
5°	3471.5	3501.4	3505.4	3575.2	3609.2	3647.1	3758.8	3880.5	4016.2	4123.9	4195.7
7.5°	3038.6	3054.5	3086.4	3178.2	3264.0	3301.9	3471.5	3683.0	3896.5	4098.0	4227.6
10°	2681.4	2699.4	2757.2	2855.0	2934.8	2984.7	3220.1	3485.5	3784.7	4084.0	4273.5
12.5°	2477.9	2487.9	2509.9	2597.6	2699.4	2753.3	3006.6	3309.9	3694.9	4090.0	4351.3
15°	2464.0	2460.0	2434.0	2469.9	2561.7	2617.6	2865.0	3190.2	3615.1	4109.9	4443.1
17.5°	2537.8	2527.8	2466.0	2466.0	2541.8	2587.7	2805.1	3126.3	3575.2	4155.8	4572.8
20°	2651.5	2635.5	2533.8	2525.8	2599.6	2647.5	2841.0	3130.3	3583.2	4241.6	4746.4
22.5°	2795.2	2777.2	2623.6	2627.6	2707.4	2755.2	2944.8	3202.2	3633.1	4347.3	4931.9
25°	2982.7	2962.7	2781.2	2773.2	2857.0	2898.9	3098.4	3329.8	3702.9	4479.0	5175.3
27.5°	3232.1	3190.2	2972.7	2960.7	3050.5	3104.4	3284.0	3501.4	3826.6	4660.6	5502.5
30°	3437.6	3391.7	3184.2	3152.3	3248.0	3289.9	3475.5	3732.9	4070.0	4977.8	5955.4
32.5°	3706.9	3639.1	3395.7	3311.9	3413.6	3467.5	3752.8	4163.8	4431.1	5313.0	6494.1
35°	4313.4	4271.5	3974.3	3681.0	3675.0	3742.8	4161.8	4598.7	4802.2	5835.7	7228.3
37.5°	5181.3	5151.4	4836.2	4443.1	4329.4	4297.5	4658.6	5077.6	5394.8	6553.9	8082.2
40°	6188.8	6119.0	5829.7	5496.5	5348.9	5255.1	5245.1	5789.8	6168.9	7529.6	8972.0
42.5°	6911.1	6783.4	6432.2	6408.3	6376.4	6278.6	5995.3	6831.3	7168.4	8579.0	9923.7
45°	7669.2	7475.7	6953.0	6863.2	6851.2	6845.2	7128.5	8064.2	8257.8	9716.2	10901.3
47.5°	8257.8	8104.1	7675.2	7635.3	7685.2	7820.8	8626.9	9373.0	9333.1	10729.7	11721.3
50°	9041.8	8926.1	8449.3	8525.1	8782.5	9003.9	10316.7	10799.5	10217.0	11527.8	12317.8
52.5°	9967.6	9754.1	9311.2	9516.7	9911.7	10280.8	12110.3	12048.5	10837.4	12128.3	12762.7
55°	10769.6	10618.0	10466.4	10679.8	11270.4	11731.3	13730.4	12984.2	11288.3	12611.1	12958.2
57.5°	12126.3	12090.4	11934.8	12152.2	12868.5	13347.3	15180.8	13710.4	11577.6	12862.5	12728.8
60°	14133.4	14075.5	13786.2	14063.5	14997.3	15749.4	16517.5	14362.8	11643.5	12764.7	12068.4
62.5°	16547.5	16349.9	16102.5	16511.5	17792.4	18123.6	17776.4	14749.9	11398.1	11986.6	10476.3
65°	18801.9	18598.4	18604.4	19466.3	20860.9	21086.3	19244.8	14692.0	10679.8	10037.4	7727.1
67.5°	20527.7	20493.8	20737.2	22419.1	24242.6	24087.0	20557.6	13826.1	8551.0	6506.1	4105.9
70°	20615.5	20681.3	21379.6	24218.7	26070.1	25822.7	20445.9	11238.5	5330.9	2992.7	1618.0
71°	19554.1	19997.0	20962.6	24162.8	26177.9	25856.6	19504.2	9412.9	3910.4	2086.9	1167.1
72.5°	16663.2	16896.6	18983.5	22740.3	25325.9	24639.6	17116.1	6597.8	2503.9	1276.9	670.4
75°	9177.5	9752.1	12712.9	17840.3	20256.4	19653.8	11154.7	3134.3	1248.9	698.3	277.3
77.5°	4369.3	4257.6	6202.8	10610.0	13734.3	13702.4	5620.2	1392.6	728.2	472.8	139.7
80°	1248.9	1404.6	2374.2	5043.6	7625.3	7709.1	2158.7	672.4	504.8	369.1	71.8
82.5°	377.1	385.1	871.9	2230.5	3792.7	3575.2	810.0	343.2	363.1	293.3	41.9
85°	65.8	81.8	257.4	786.1	1446.5	1097.3	203.5	163.6	239.4	193.5	23.9
87.5°	4.0	6.0	85.8	89.8	127.7	73.8	35.9	23.9	51.9	51.9	14.0
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: P456044

CATALOG NUMBER: GALN-SA7B-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8	4179.8
2.5°	4193.7	4205.7	4197.7	4179.8	4149.8	4113.9	4066.0	4026.1	3992.2	3974.3	3996.2
5°	4219.7	4235.6	4195.7	4105.9	3970.3	3822.6	3655.0	3525.4	3423.6	3391.7	3379.7
7.5°	4259.6	4269.5	4161.8	3962.3	3675.0	3325.9	3020.6	2763.2	2563.7	2503.9	2416.1
10°	4311.4	4305.5	4101.9	3730.9	3226.1	2701.4	2228.5	1877.4	1612.1	1516.3	1508.3
12.5°	4391.2	4359.3	4026.1	3415.6	2691.4	2005.1	1420.5	1111.3	943.7	887.8	875.9
15°	4491.0	4415.2	3906.4	3046.5	2061.0	1294.8	875.9	782.1	760.1	756.1	752.2
17.5°	4608.7	4489.0	3748.8	2593.6	1448.5	839.9	732.2	730.2	732.2	728.2	726.2
20°	4768.3	4566.8	3561.3	2057.0	957.7	708.3	698.3	698.3	700.3	698.3	698.3
22.5°	4937.9	4658.6	3329.8	1570.2	722.2	672.4	670.4	674.3	678.3	676.3	676.3
25°	5147.4	4778.3	3024.6	1075.4	646.4	642.4	644.4	652.4	660.4	662.4	660.4
27.5°	5450.6	4925.9	2697.4	740.2	592.5	596.5	616.5	636.4	648.4	650.4	650.4
30°	5791.8	5089.5	2270.4	600.5	548.7	548.7	572.6	610.5	636.4	640.4	642.4
32.5°	6230.7	5279.1	1797.6	540.7	506.8	502.8	524.7	570.6	618.5	632.5	632.5
35°	6773.4	5502.5	1336.7	502.8	476.8	466.9	478.8	516.7	578.6	618.5	622.5
37.5°	7409.8	5714.0	977.6	468.9	448.9	434.9	442.9	472.8	522.7	582.6	598.5
40°	7998.4	5901.5	730.2	440.9	421.0	411.0	417.0	430.9	472.8	528.7	538.7
42.5°	8640.8	6047.2	580.6	411.0	393.0	389.0	389.0	395.0	423.0	454.9	456.9
45°	9281.3	6099.1	486.8	375.1	363.1	367.1	365.1	361.1	373.1	369.1	369.1
47.5°	9738.1	6037.2	403.0	341.2	341.2	347.1	337.2	323.2	317.2	293.3	295.3
50°	10051.4	5811.8	331.2	301.3	317.2	325.2	305.3	283.3	261.4	235.4	229.4
52.5°	10181.1	5410.7	271.3	249.4	281.3	291.3	267.3	241.4	207.5	185.5	179.6
55°	10097.3	4916.0	225.4	203.5	237.4	249.4	225.4	195.5	157.6	133.7	129.7
57.5°	9728.2	4325.4	191.5	161.6	189.5	197.5	181.6	149.6	111.7	87.8	87.8
60°	9089.7	3714.9	155.6	127.7	141.7	153.6	137.7	107.7	75.8	53.9	49.9
62.5°	7794.9	3016.6	125.7	99.8	99.8	109.7	95.8	77.8	47.9	27.9	25.9
65°	5628.2	2068.9	99.8	73.8	71.8	71.8	59.9	51.9	27.9	12.0	8.0
67.5°	3058.5	1167.1	79.8	55.9	49.9	47.9	37.9	29.9	12.0	2.0	0.0
70°	1203.1	448.9	61.8	37.9	31.9	29.9	20.0	14.0	8.0	0.0	0.0
71°	816.0	309.2	53.9	31.9	25.9	21.9	16.0	12.0	6.0	0.0	0.0
72.5°	466.9	191.5	41.9	23.9	20.0	16.0	12.0	8.0	6.0	0.0	0.0
75°	203.5	97.8	25.9	18.0	14.0	10.0	8.0	6.0	2.0	0.0	0.0
77.5°	103.7	53.9	18.0	14.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0
80°	57.9	27.9	12.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	31.9	16.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	4.0	0.0	0.0	0.0	0.0	2.0	2.0	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)