

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: P454159

Luminaire Tested: **GALN-SA5B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454159  
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-SA5B-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 17161 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

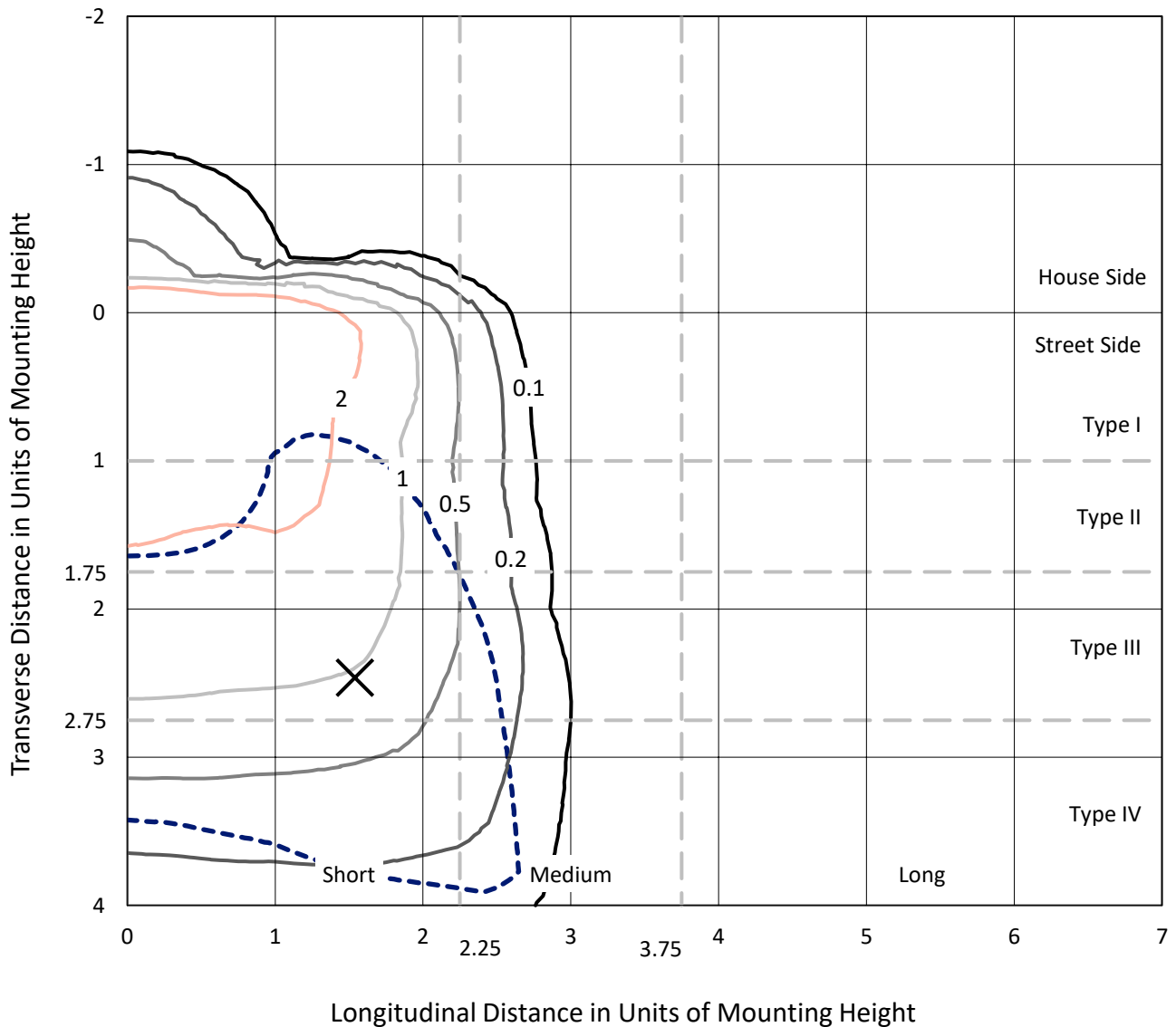
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454159  
 CATALOG NUMBER: GALN-SA5B-727-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

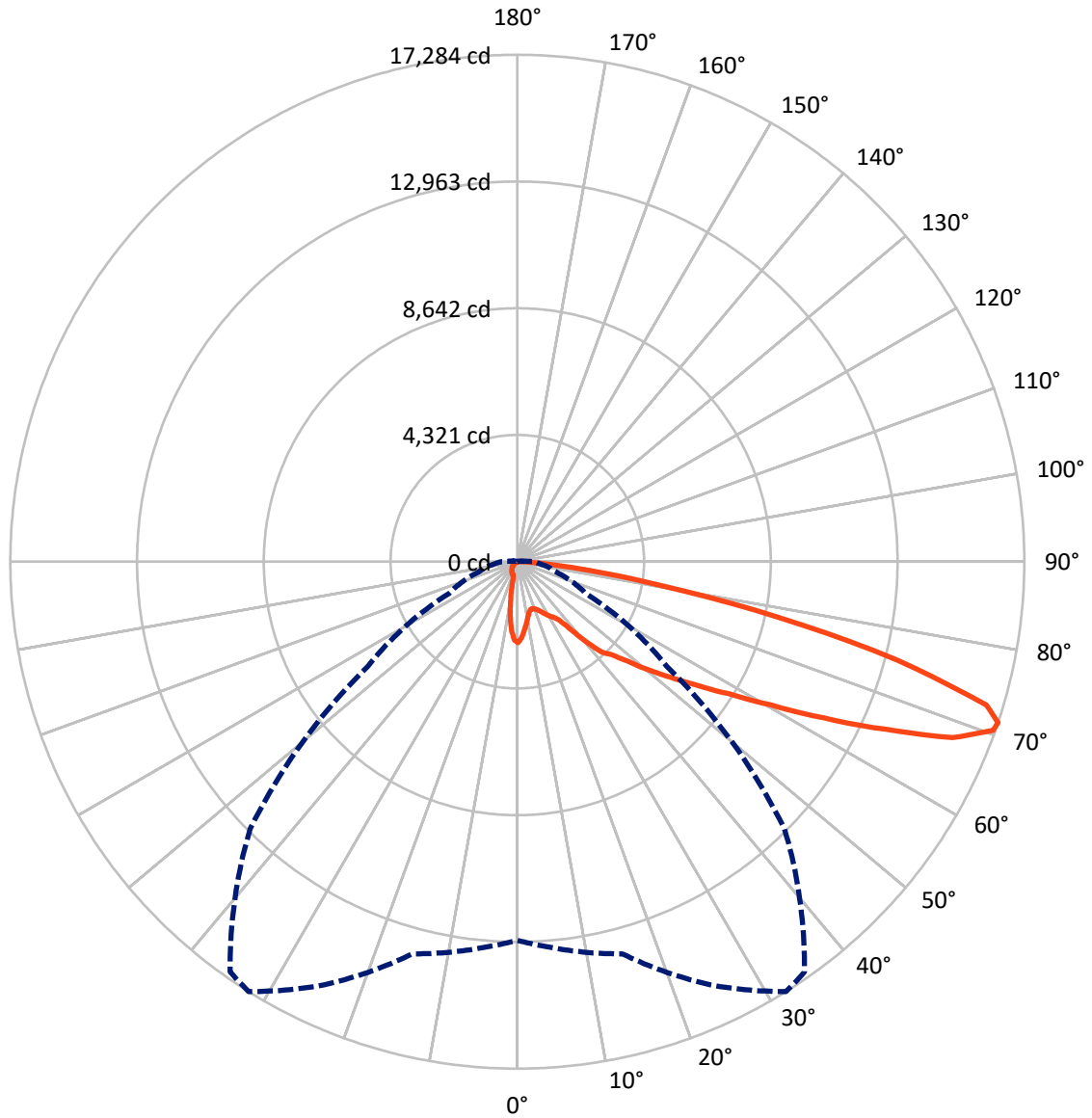
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P454159  
CATALOG NUMBER: GALN-SA5B-727-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P454159  
 CATALOG NUMBER: GALN-SA5B-727-U-T4FT-HSS

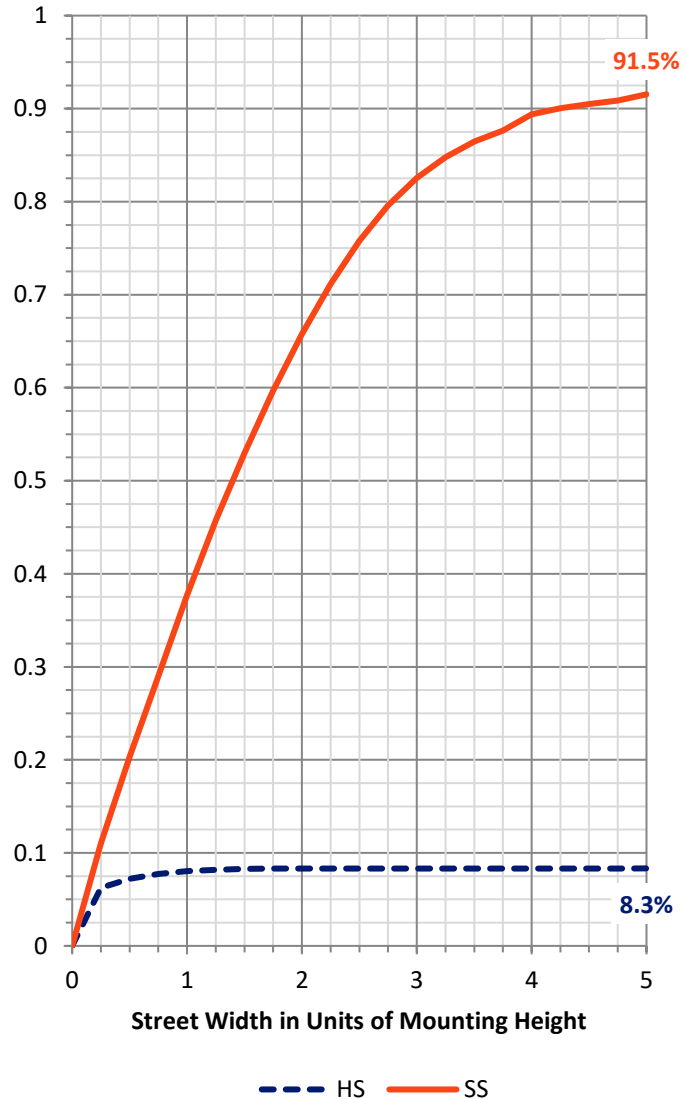
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1437.4	0.0	1437.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	15723.6	0.0	15723.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	17161.0	0.0	17161.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.4	1.3
10°-20°	487.0	2.8
20°-30°	757.7	4.4
30°-40°	1262.3	7.4
40°-50°	2348.0	13.7
50°-60°	3769.9	22.0
60°-70°	5070.7	29.5
70°-80°	3008.5	17.5
80°-90°	232.5	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°	17161.0	100.0
0°-180°	17161.0	100.0



REPORT NUMBER: P454159

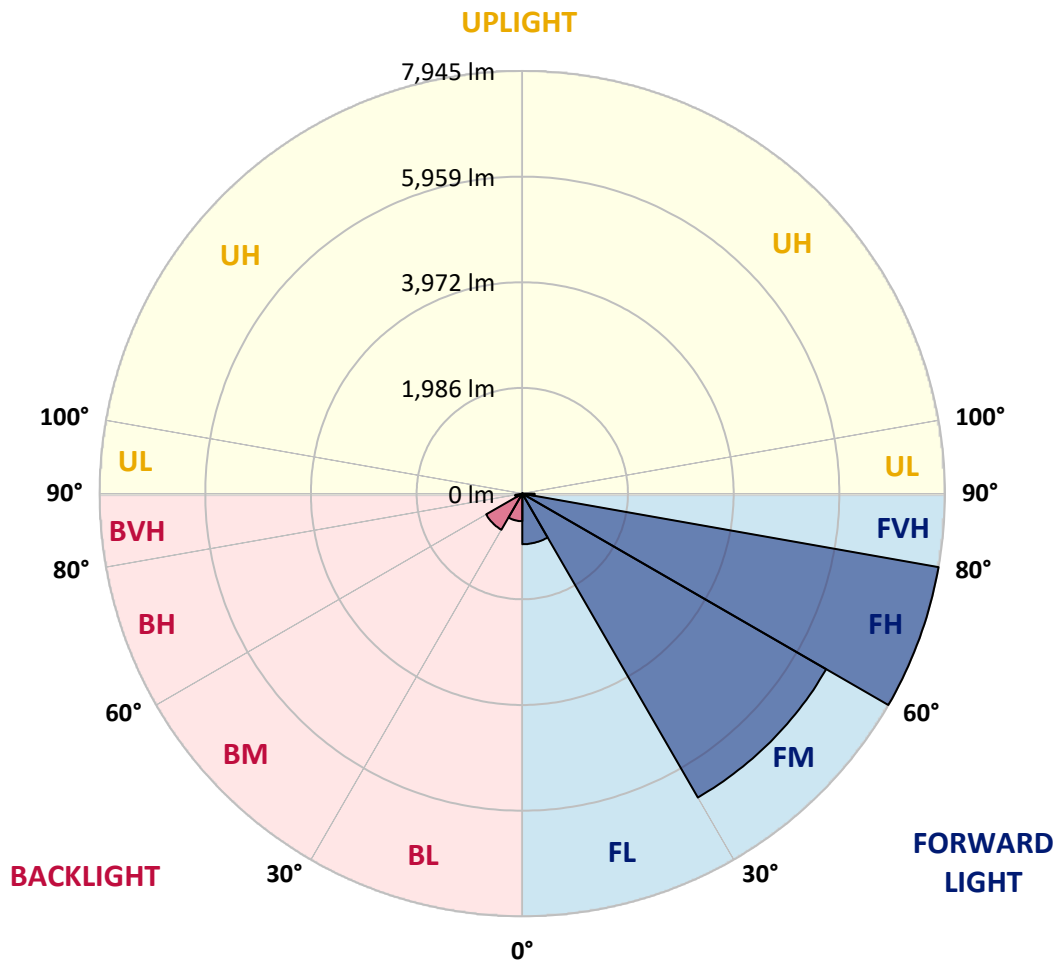
CATALOG NUMBER: GALN-SA5B-727-U-T4FT-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	951.2	5.5			
FM	(30°-60°)	6596.1	38.4			
FH	(60°-80°)	7944.7	46.3			G4/12000
FVH	(80°-90°)	231.6	1.3			G3/500
BL	(0°-30°)	517.9	3.0	B2/1000		
BM	(30°-60°)	784.2	4.6	B1/1000		
BH	(60°-80°)	134.4	0.8	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G4**

Type IV Short





REPORT NUMBER: P454159

CATALOG NUMBER: GALN-SA5B-727-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8
2.5°	2559.5	2585.9	2581.9	2591.1	2613.5	2622.8	2647.8	2675.4	2713.7	2740.0	2757.1
5°	2292.1	2311.9	2314.5	2360.6	2383.0	2408.0	2481.8	2562.2	2651.7	2722.9	2770.3
7.5°	2006.3	2016.8	2037.9	2098.5	2155.1	2180.1	2292.1	2431.7	2572.7	2705.7	2791.4
10°	1770.5	1782.3	1820.5	1885.1	1937.8	1970.7	2126.1	2301.3	2498.9	2696.5	2821.7
12.5°	1636.1	1642.7	1657.2	1715.1	1782.3	1817.9	1985.2	2185.4	2439.7	2700.5	2873.0
15°	1626.9	1624.2	1607.1	1630.8	1691.4	1728.3	1891.7	2106.4	2387.0	2713.7	2933.6
17.5°	1675.6	1669.0	1628.2	1628.2	1678.2	1708.5	1852.1	2064.2	2360.6	2743.9	3019.3
20°	1750.7	1740.2	1673.0	1667.7	1716.5	1748.1	1875.8	2066.9	2365.9	2800.6	3133.9
22.5°	1845.5	1833.7	1732.3	1734.9	1787.6	1819.2	1944.3	2114.3	2398.8	2870.4	3256.4
25°	1969.4	1956.2	1836.3	1831.1	1886.4	1914.0	2045.8	2198.6	2444.9	2957.4	3417.1
27.5°	2134.0	2106.4	1962.8	1954.9	2014.2	2049.7	2168.3	2311.9	2526.6	3077.2	3633.1
30°	2269.7	2239.4	2102.4	2081.3	2144.6	2172.2	2294.7	2464.7	2687.3	3286.7	3932.2
32.5°	2447.6	2402.8	2242.1	2186.7	2253.9	2289.5	2477.9	2749.2	2925.7	3508.0	4287.8
35°	2848.0	2820.4	2624.1	2430.4	2426.5	2471.3	2747.9	3036.4	3170.8	3853.1	4772.6
37.5°	3421.0	3401.3	3193.2	2933.6	2858.6	2837.5	3075.9	3352.5	3562.0	4327.4	5336.4
40°	4086.3	4040.2	3849.2	3629.2	3531.7	3469.8	3463.2	3822.8	4073.1	4971.5	5923.9
42.5°	4563.1	4478.8	4247.0	4231.2	4210.1	4145.6	3958.5	4510.5	4733.1	5664.4	6552.3
45°	5063.7	4935.9	4590.8	4531.5	4523.6	4519.7	4706.7	5324.6	5452.3	6415.3	7197.8
47.5°	5452.3	5350.9	5067.7	5041.3	5074.3	5163.8	5696.0	6188.7	6162.4	7084.5	7739.2
50°	5970.0	5893.6	5578.8	5628.9	5798.8	5945.0	6811.8	7130.6	6745.9	7611.4	8133.0
52.5°	6581.3	6440.3	6147.9	6283.6	6544.4	6788.1	7996.0	7955.2	7155.6	8007.9	8426.8
55°	7110.8	7010.7	6910.6	7051.5	7441.5	7745.8	9065.7	8573.0	7453.3	8326.7	8555.9
57.5°	8006.6	7982.9	7880.1	8023.7	8496.6	8812.8	10023.4	9052.5	7644.3	8492.7	8404.4
60°	9331.8	9293.6	9102.6	9285.7	9902.2	10398.8	10906.0	9483.3	7687.8	8428.1	7968.4
62.5°	10925.7	10795.3	10632.0	10902.0	11747.7	11966.4	11737.2	9738.8	7525.8	7914.4	6917.2
65°	12414.3	12279.9	12283.9	12853.0	13773.8	13922.6	12706.7	9700.6	7051.5	6627.4	5101.9
67.5°	13553.8	13531.4	13692.1	14802.6	16006.6	15903.8	13573.5	9128.9	5646.0	4295.7	2711.0
70°	13611.7	13655.2	14116.3	15990.8	17213.2	17049.9	13499.8	7420.4	3519.8	1976.0	1068.3
71°	12910.9	13203.4	13840.9	15953.9	17284.4	17072.3	12878.0	6215.1	2581.9	1377.9	770.6
72.5°	11002.1	11156.3	12534.2	15014.7	16721.9	16268.7	11301.2	4356.3	1653.2	843.1	442.6
75°	6059.6	6439.0	8393.9	11779.4	13374.6	12976.8	7365.1	2069.5	824.6	461.1	183.1
77.5°	2884.9	2811.1	4095.5	7005.4	9068.3	9047.3	3710.9	919.5	480.8	312.2	92.2
80°	824.6	927.4	1567.6	3330.2	5034.7	5090.1	1425.3	443.9	333.3	243.7	47.4
82.5°	249.0	254.2	575.7	1472.7	2504.2	2360.6	534.8	226.6	239.7	193.6	27.7
85°	43.5	54.0	169.9	519.0	955.0	724.5	134.4	108.0	158.1	127.8	15.8
87.5°	2.6	4.0	56.6	59.3	84.3	48.7	23.7	15.8	34.2	34.2	9.2
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: P454159

CATALOG NUMBER: GALN-SA5B-727-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8
2.5°	2769.0	2776.9	2771.6	2759.8	2740.0	2716.3	2684.7	2658.3	2635.9	2624.1	2638.6
5°	2786.1	2796.6	2770.3	2711.0	2621.4	2524.0	2413.3	2327.7	2260.5	2239.4	2231.5
7.5°	2812.4	2819.0	2747.9	2616.2	2426.5	2195.9	1994.4	1824.5	1692.7	1653.2	1595.3
10°	2846.7	2842.7	2708.4	2463.4	2130.1	1783.6	1471.4	1239.6	1064.4	1001.2	995.9
12.5°	2899.4	2878.3	2658.3	2255.2	1777.0	1323.9	937.9	733.7	623.1	586.2	578.3
15°	2965.3	2915.2	2579.3	2011.5	1360.8	854.9	578.3	516.4	501.9	499.3	496.6
17.5°	3043.0	2963.9	2475.2	1712.5	956.4	554.6	483.5	482.1	483.5	480.8	479.5
20°	3148.4	3015.3	2351.4	1358.1	632.3	467.6	461.1	461.1	462.4	461.1	461.1
22.5°	3260.3	3075.9	2198.6	1036.7	476.9	443.9	442.6	445.2	447.9	446.6	446.6
25°	3398.7	3154.9	1997.0	710.0	426.8	424.2	425.5	430.8	436.0	437.3	436.0
27.5°	3598.9	3252.4	1781.0	488.7	391.2	393.9	407.0	420.2	428.1	429.4	429.4
30°	3824.1	3360.4	1499.1	396.5	362.3	362.3	378.1	403.1	420.2	422.9	424.2
32.5°	4113.9	3485.6	1186.9	357.0	334.6	332.0	346.5	376.7	408.4	417.6	417.6
35°	4472.3	3633.1	882.6	332.0	314.8	308.2	316.2	341.2	382.0	408.4	411.0
37.5°	4892.5	3772.8	645.5	309.6	296.4	287.2	292.4	312.2	345.1	384.7	395.2
40°	5281.1	3896.6	482.1	291.1	278.0	271.4	275.3	284.5	312.2	349.1	355.7
42.5°	5705.3	3992.8	383.3	271.4	259.5	256.9	256.9	260.8	279.3	300.3	301.7
45°	6128.1	4027.0	321.4	247.7	239.7	242.4	241.1	238.4	246.3	243.7	243.7
47.5°	6429.8	3986.2	266.1	225.3	225.3	229.2	222.6	213.4	209.5	193.6	195.0
50°	6636.6	3837.3	218.7	198.9	209.5	214.7	201.5	187.1	172.6	155.4	151.5
52.5°	6722.2	3572.5	179.2	164.7	185.7	192.3	176.5	159.4	137.0	122.5	118.6
55°	6666.9	3245.8	148.9	134.4	156.8	164.7	148.9	129.1	104.1	88.3	85.6
57.5°	6423.2	2855.9	126.5	106.7	125.1	130.4	119.9	98.8	73.8	58.0	58.0
60°	6001.6	2452.8	102.7	84.3	93.5	101.4	90.9	71.1	50.1	35.6	32.9
62.5°	5146.7	1991.8	83.0	65.9	65.9	72.5	63.2	51.4	31.6	18.4	17.1
65°	3716.1	1366.0	65.9	48.7	47.4	47.4	39.5	34.2	18.4	7.9	5.3
67.5°	2019.4	770.6	52.7	36.9	32.9	31.6	25.0	19.8	7.9	1.3	0.0
70°	794.3	296.4	40.8	25.0	21.1	19.8	13.2	9.2	5.3	0.0	0.0
71°	538.8	204.2	35.6	21.1	17.1	14.5	10.5	7.9	4.0	0.0	0.0
72.5°	308.2	126.5	27.7	15.8	13.2	10.5	7.9	5.3	4.0	0.0	0.0
75°	134.4	64.5	17.1	11.9	9.2	6.6	5.3	4.0	1.3	0.0	0.0
77.5°	68.5	35.6	11.9	9.2	5.3	4.0	2.6	1.3	0.0	0.0	0.0
80°	38.2	18.4	7.9	5.3	4.0	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	21.1	10.5	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.2	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.6	0.0	0.0	0.0	0.0	1.3	1.3	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)