

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: P527516

Luminaire Tested: **GALN-SA2C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11228 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108  
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



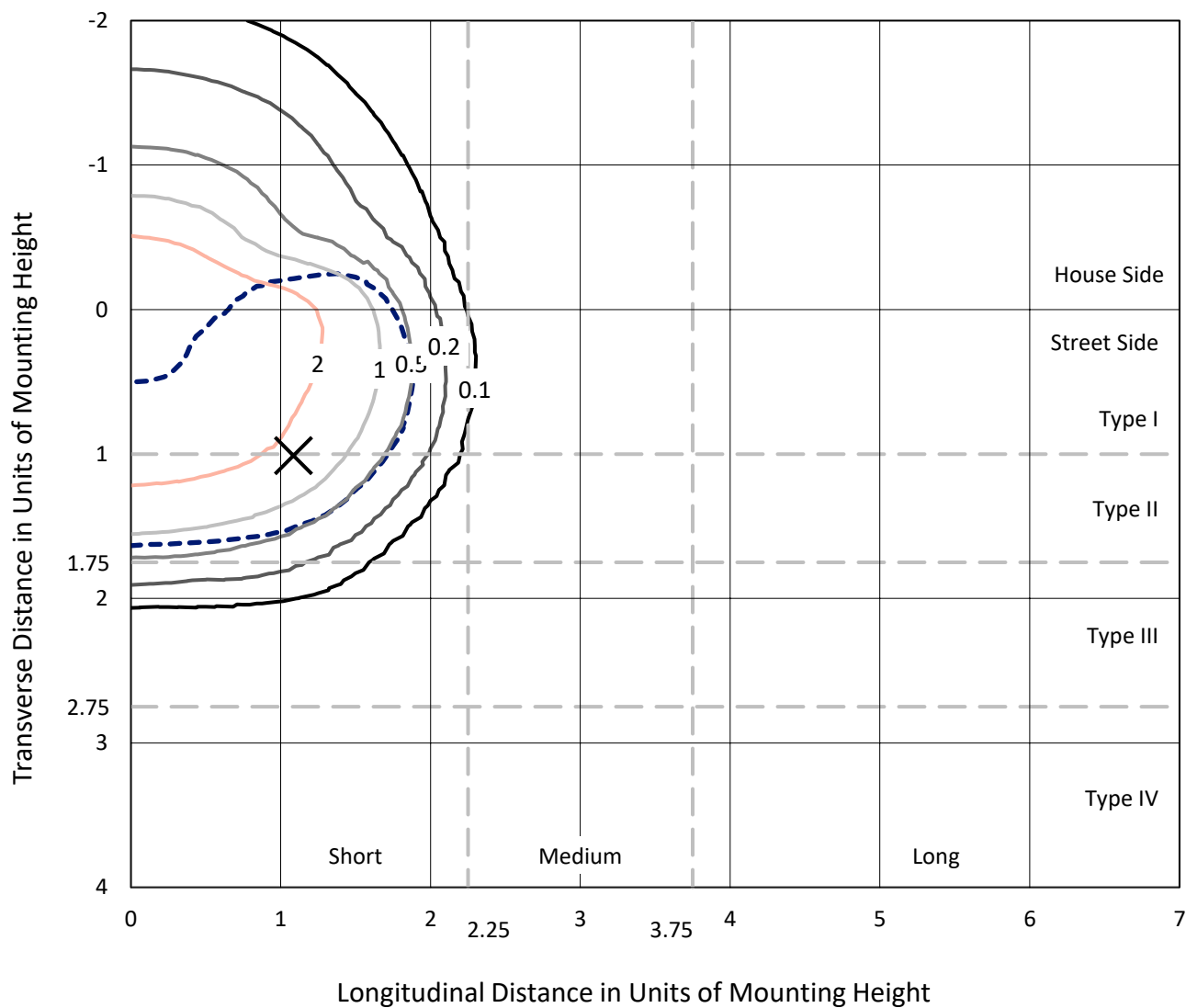
REPORT NUMBER: P527516

CATALOG NUMBER: GALN-SA2C-735-U-T3-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

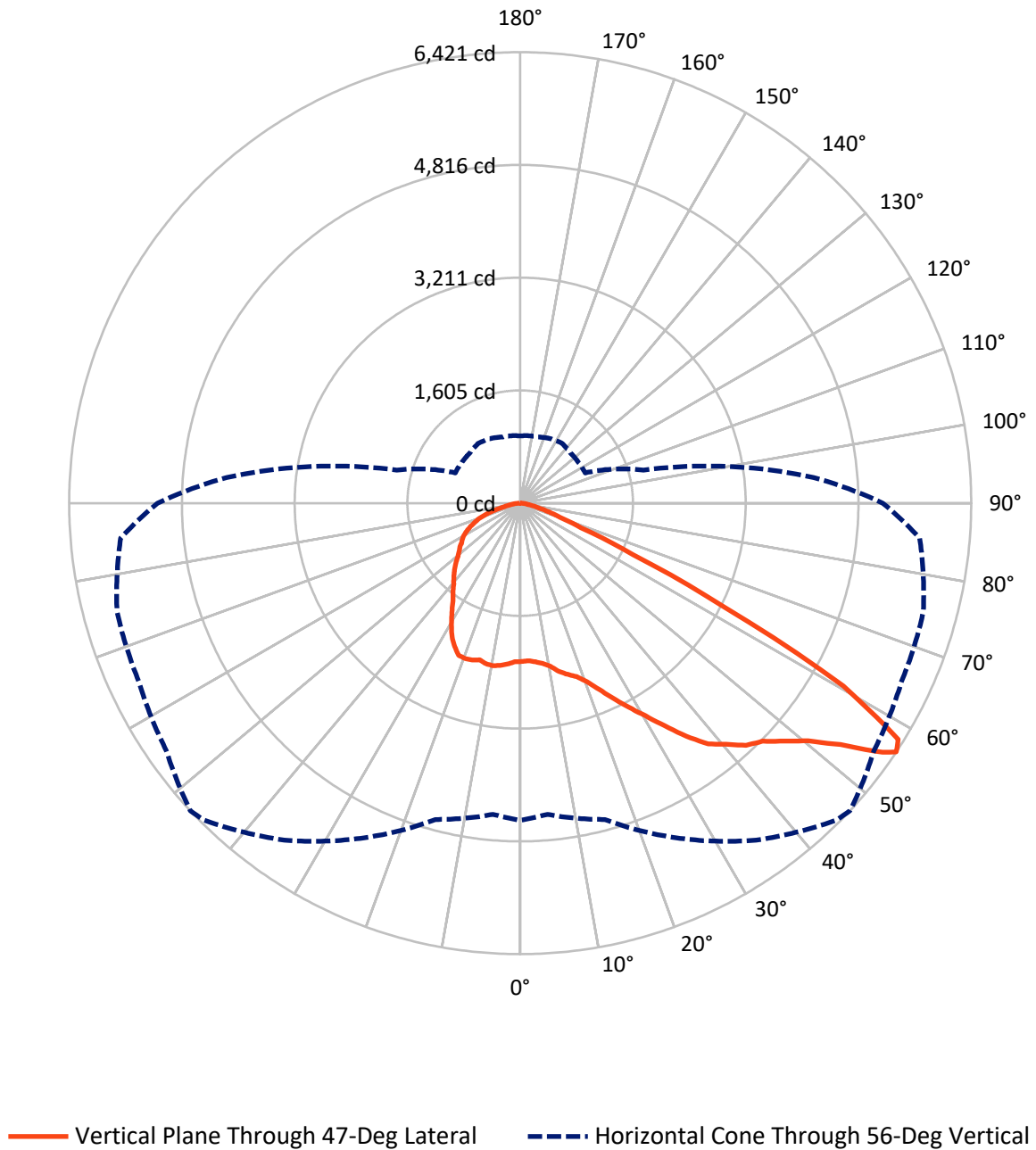


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type II - Short - N/A

REPORT NUMBER: P527516  
CATALOG NUMBER: GALN-SA2C-735-U-T3-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P527516

CATALOG NUMBER: GALN-SA2C-735-U-T3-GRSWH

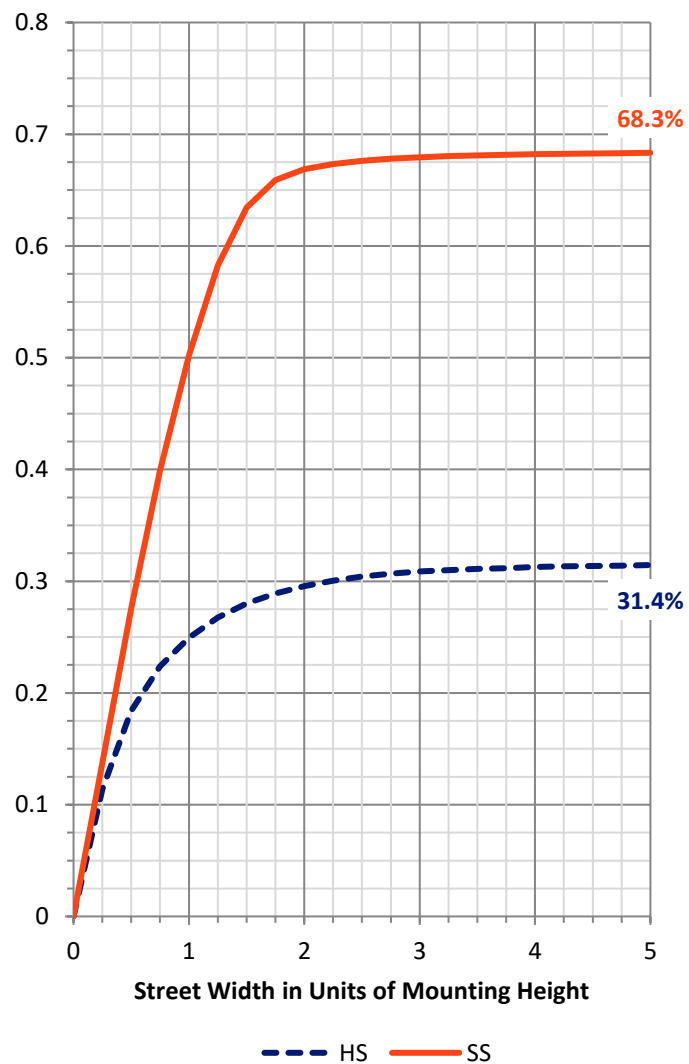
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3558.0	0.0	3558.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	7670.0	0.0	7670.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	11228.0	0.0	11228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.8	2.0
10°-20°	693.2	6.2
20°-30°	1225.4	10.9
30°-40°	1840.6	16.4
40°-50°	2526.0	22.5
50°-60°	3009.4	26.8
60°-70°	1287.8	11.5
70°-80°	364.5	3.2
80°-90°	61.3	0.5
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°	11228.0	100.0
0°-180°	11228.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527516

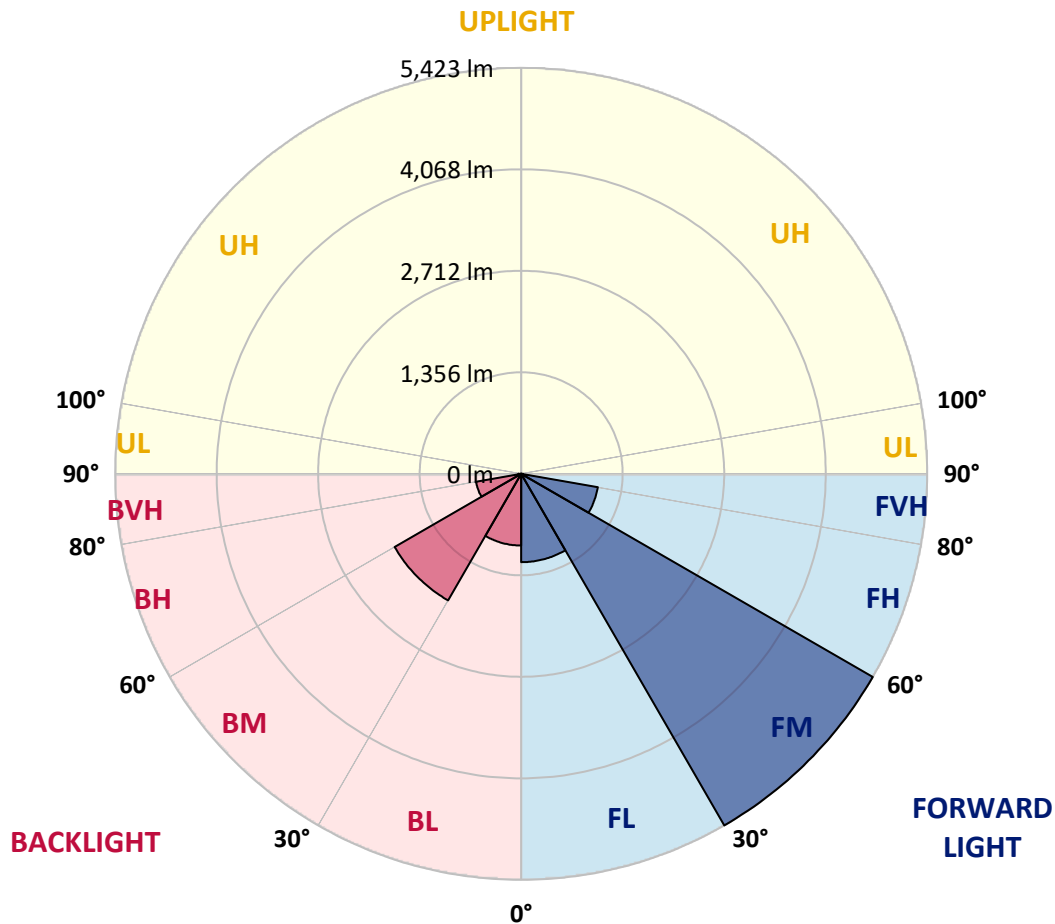
CATALOG NUMBER: GALN-SA2C-735-U-T3-GRSWH

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1180.4	10.5			
FM	(30°-60°)	5423.4	48.3			
FH	(60°-80°)	1040.1	9.3			G1/1800
FVH	(80°-90°)	26.0	0.2			G1/100
BL	(0°-30°)	958.0	8.5	B2/1000		
BM	(30°-60°)	1952.6	17.4	B2/2500		
BH	(60°-80°)	612.2	5.5	B2/1000		G2/1000
BVH	(80°-90°)	35.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



REPORT NUMBER: P527516

CATALOG NUMBER: GALN-SA2C-735-U-T3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2246.8	2242.5	2239.6	2262.5	2253.9	2255.4	2246.8	2255.4	2261.1	2248.2	2266.8
5°	2242.5	2255.4	2243.9	2251.1	2269.7	2264.0	2269.7	2286.9	2282.6	2278.3	2272.5
7.5°	2282.6	2284.0	2292.6	2295.5	2301.2	2295.5	2304.1	2319.8	2315.5	2291.2	2294.0
10°	2339.9	2342.7	2344.1	2359.9	2369.9	2371.4	2361.3	2347.0	2345.6	2378.5	2355.6
12.5°	2405.7	2398.6	2415.7	2421.5	2432.9	2445.8	2458.7	2428.6	2447.2	2448.7	2421.5
15°	2501.7	2508.8	2488.8	2488.8	2493.1	2494.5	2530.3	2516.0	2513.1	2497.4	2508.8
17.5°	2644.9	2596.2	2594.7	2574.7	2571.8	2583.3	2596.2	2607.6	2646.3	2614.8	2553.2
20°	2749.4	2760.9	2719.3	2695.0	2699.3	2725.1	2712.2	2763.7	2790.9	2739.4	2679.2
22.5°	2934.1	2895.5	2905.5	2851.1	2855.4	2882.6	2881.1	2934.1	2949.9	2868.3	2780.9
25°	3058.7	3048.7	3057.3	3014.3	3020.0	3041.5	3075.9	3163.2	3137.5	3047.2	2845.3
27.5°	3240.6	3220.5	3213.4	3197.6	3191.9	3249.2	3289.3	3382.3	3363.7	3232.0	2959.9
30°	3426.7	3413.8	3421.0	3356.6	3379.5	3501.2	3512.6	3640.1	3631.5	3399.5	3087.3
32.5°	3555.6	3562.8	3575.6	3539.8	3641.5	3738.9	3777.6	3922.2	3929.3	3687.3	3333.6
35°	3763.2	3738.9	3746.1	3787.6	3834.8	4012.4	4075.4	4171.3	4231.5	3989.5	3569.9
37.5°	3893.5	3919.3	3889.3	3955.1	4078.3	4291.6	4348.9	4447.7	4510.7	4287.3	3892.1
40°	4096.9	4055.4	4076.8	4124.1	4250.1	4527.9	4512.2	4613.8	4633.9	4540.8	4192.8
42.5°	4316.0	4295.9	4265.9	4373.3	4479.2	4681.1	4712.6	4665.4	4767.1	4788.5	4622.4
45°	4578.0	4602.4	4606.7	4609.5	4702.6	4878.7	4835.8	4794.3	4911.7	5067.8	4888.8
47.5°	4821.5	4744.1	4800.0	4877.3	5009.1	5010.5	5060.6	4961.8	5086.4	5225.3	5129.3
50°	4903.1	4865.9	4940.3	5086.4	5289.7	5311.2	5316.9	5176.6	5241.0	5351.3	5212.4
52.5°	4871.6	4858.7	5049.2	5275.4	5573.3	5682.1	5710.7	5537.5	5573.3	5523.1	5395.7
55°	4721.2	4759.9	4951.8	5412.9	5869.7	6206.2	6260.6	6041.5	5813.8	5852.5	5712.2
56°	4515.0	4447.7	4662.5	5256.8	5856.8	6376.6	6421.0	6147.5	5992.8	5942.7	5709.3
57.5°	3830.5	3743.2	4025.3	4729.8	5531.7	6312.2	6345.1	6191.9	5962.8	5861.1	5292.6
60°	2242.5	2285.4	2643.4	3262.0	4267.3	5175.2	5285.4	5397.1	5243.9	4788.5	3939.4
62.5°	1082.6	1055.4	1311.7	1870.2	2600.5	3303.6	3270.6	3584.2	3756.1	3402.4	2487.3
65°	567.1	564.2	716.0	1021.0	1429.1	1735.6	1765.6	1934.6	2170.9	1752.7	1263.0
67.5°	416.7	428.2	504.1	717.4	919.3	937.9	933.6	1018.1	1041.0	880.7	776.1
70°	326.5	332.2	388.1	545.6	684.5	612.9	600.0	610.0	677.3	706.0	671.6
72.5°	236.3	242.0	289.3	368.0	428.2	418.1	426.7	482.6	565.6	595.7	559.9
75°	157.5	161.8	187.6	224.8	253.5	273.5	289.3	353.7	431.0	448.2	431.0
77.5°	108.8	113.1	130.3	158.9	161.8	174.7	180.4	210.5	257.8	279.2	267.8
80°	61.6	61.6	70.2	81.6	100.2	117.4	120.3	144.6	166.1	180.4	183.3
82.5°	28.6	30.1	37.2	50.1	65.9	81.6	84.5	100.2	116.0	130.3	134.6
85°	14.3	15.8	21.5	30.1	40.1	48.7	47.3	48.7	51.6	48.7	50.1
87.5°	4.3	4.3	5.7	7.2	5.7	7.2	7.2	8.6	10.0	11.5	12.9
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: P527516

CATALOG NUMBER: GALN-SA2C-735-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2268.3	2272.5	2243.9	2271.1	2261.1	2259.7	2279.7	2276.8	2284.0	2281.1	2264.0
5°	2269.7	2259.7	2289.7	2262.5	2275.4	2302.6	2284.0	2327.0	2305.5	2319.8	2288.3
7.5°	2314.1	2316.9	2311.2	2322.7	2316.9	2329.8	2319.8	2329.8	2312.6	2314.1	2342.7
10°	2352.7	2344.1	2354.2	2339.9	2349.9	2345.6	2322.7	2315.5	2321.2	2314.1	2332.7
12.5°	2424.3	2408.6	2401.4	2384.2	2372.8	2329.8	2294.0	2274.0	2301.2	2305.5	2296.9
15°	2497.4	2498.8	2465.9	2427.2	2355.6	2291.2	2299.8	2306.9	2306.9	2318.4	2296.9
17.5°	2543.2	2543.2	2513.1	2435.8	2362.8	2325.5	2316.9	2294.0	2274.0	2271.1	2269.7
20°	2623.4	2599.0	2530.3	2434.4	2359.9	2342.7	2278.3	2223.9	2182.3	2168.0	2166.6
22.5°	2715.0	2653.5	2557.5	2437.2	2355.6	2331.3	2211.0	2129.4	2054.9	2023.4	2027.7
25°	2799.5	2700.7	2573.3	2424.3	2339.9	2222.4	2087.8	1974.7	1897.4	1871.6	1858.7
27.5°	2858.2	2750.8	2573.3	2435.8	2281.1	2100.7	1963.2	1818.6	1751.3	1734.1	1737.0
30°	2937.0	2813.8	2617.7	2411.4	2163.7	1943.2	1778.5	1684.0	1643.9	1629.6	1639.6
32.5°	3121.7	2978.5	2679.2	2352.7	2024.8	1785.7	1652.5	1599.5	1540.8	1512.2	1502.1
35°	3322.2	3134.6	2739.4	2253.9	1868.7	1642.5	1559.4	1510.7	1440.6	1409.1	1414.8
37.5°	3605.7	3335.1	2743.7	2090.7	1699.8	1562.3	1486.4	1410.5	1353.2	1304.5	1290.2
40°	3988.1	3608.6	2733.6	1918.8	1563.7	1467.8	1411.9	1317.4	1253.0	1218.6	1225.8
42.5°	4324.6	3929.3	2692.1	1724.1	1440.6	1403.3	1340.3	1247.3	1184.2	1148.4	1145.6
45°	4608.1	4165.6	2613.4	1558.0	1337.5	1331.7	1258.7	1187.1	1137.0	1104.1	1118.4
47.5°	4870.2	4356.1	2494.5	1391.9	1243.0	1254.4	1184.2	1139.9	1108.4	1078.3	1076.8
50°	4964.7	4353.2	2390.0	1254.4	1167.1	1161.3	1158.5	1111.2	1078.3	1052.5	1064.0
52.5°	5122.2	4401.9	2276.8	1159.9	1098.3	1099.8	1109.8	1075.4	1038.2	1022.4	1036.8
55°	5348.4	4409.1	2027.7	1049.6	1041.0	1051.1	1051.1	1028.2	996.7	983.8	976.6
56°	5163.7	4195.7	1818.6	1021.0	1012.4	1012.4	1039.6	1013.8	975.2	965.2	956.6
57.5°	4762.8	3675.9	1522.2	986.6	973.7	993.8	1008.1	980.9	945.1	930.8	939.4
60°	3285.0	2487.3	1144.1	912.2	912.2	945.1	956.6	916.5	900.7	899.3	887.8
62.5°	1917.4	1449.2	895.0	844.9	847.7	874.9	883.5	860.6	840.6	864.9	876.4
65°	1016.7	864.9	767.5	773.3	774.7	796.2	833.4	832.0	830.5	837.7	839.1
67.5°	736.0	718.9	697.4	691.6	694.5	710.3	747.5	776.1	774.7	757.5	744.6
70°	655.8	631.5	618.6	620.0	608.6	627.2	657.3	675.9	643.0	622.9	614.3
72.5°	545.6	538.4	529.8	531.3	508.4	504.1	469.7	469.7	461.1	455.4	465.4
75°	416.7	413.8	418.1	411.0	386.6	360.9	340.8	322.2	293.6	282.1	276.4
77.5°	263.5	272.1	282.1	266.3	256.3	237.7	217.7	199.0	176.1	163.2	163.2
80°	179.0	186.2	193.3	190.5	179.0	161.8	146.1	126.0	110.3	100.2	98.8
82.5°	136.0	141.8	151.8	140.3	128.9	114.6	101.7	87.4	73.0	61.6	61.6
85°	48.7	55.8	61.6	67.3	71.6	73.0	63.0	51.6	41.5	32.9	31.5
87.5°	12.9	14.3	15.8	14.3	14.3	14.3	15.8	14.3	12.9	10.0	10.0
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)