

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: P956971

Luminaire Tested: **GALN-SB9C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57310 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 449.8
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

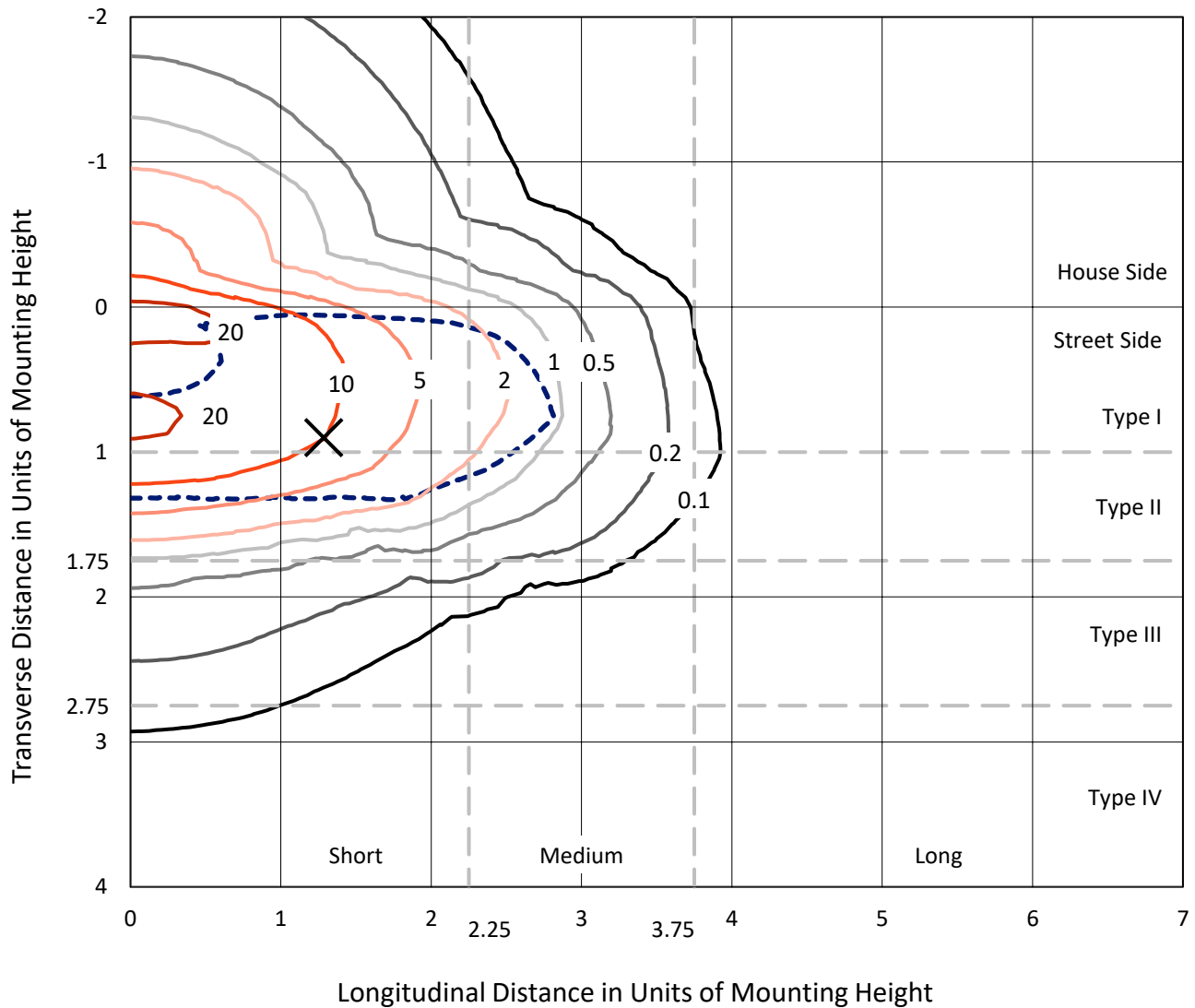


REPORT NUMBER: P956971

CATALOG NUMBER: GALN-SB9C-722-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

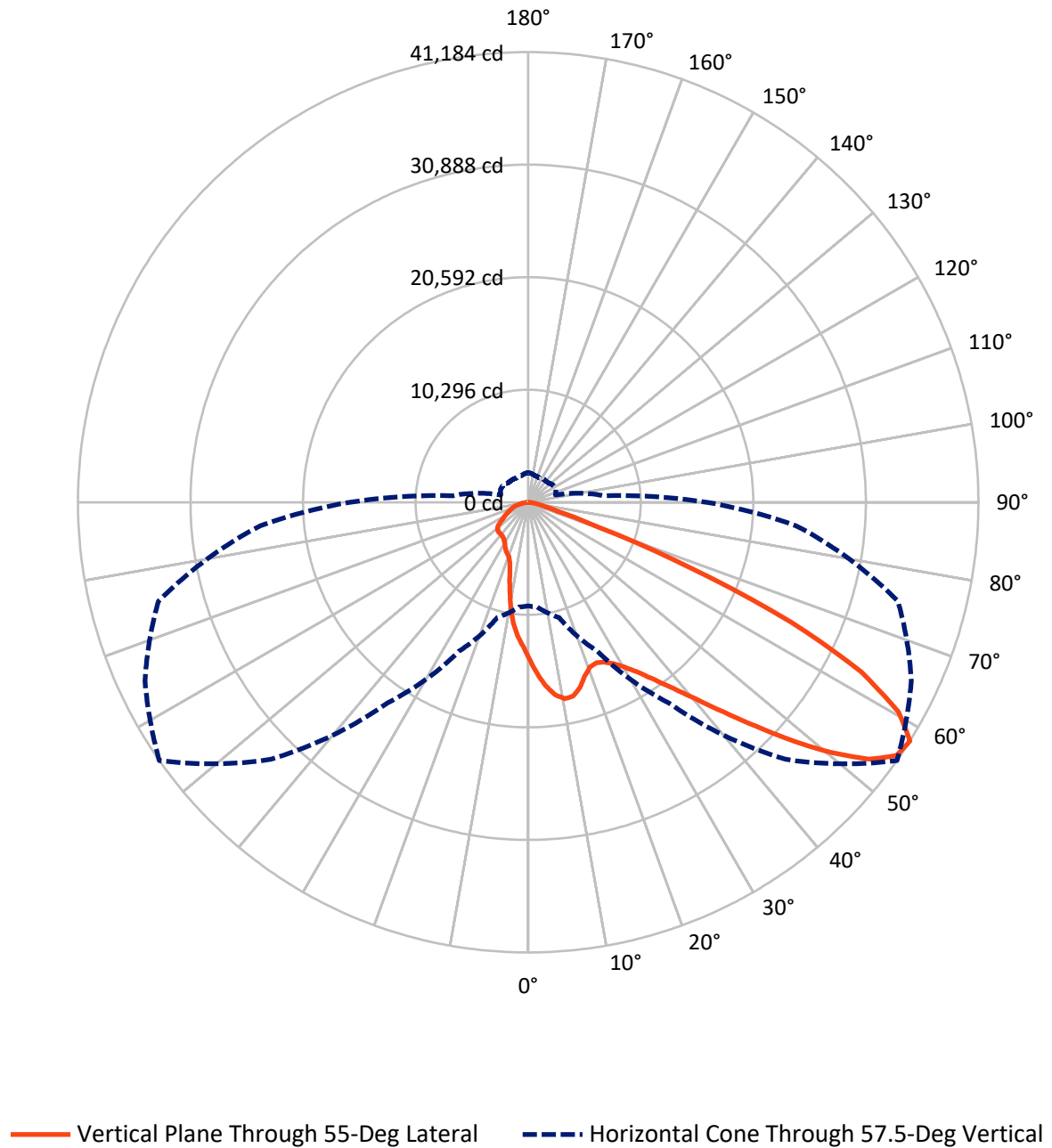


Based on 25 foot mounting height. Maximum calculated value = 27.8 fc
Type II - Short - N/A

REPORT NUMBER: P956971

CATALOG NUMBER: GALN-SB9C-722-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P956971

CATALOG NUMBER: GALN-SB9C-722-U-AFL

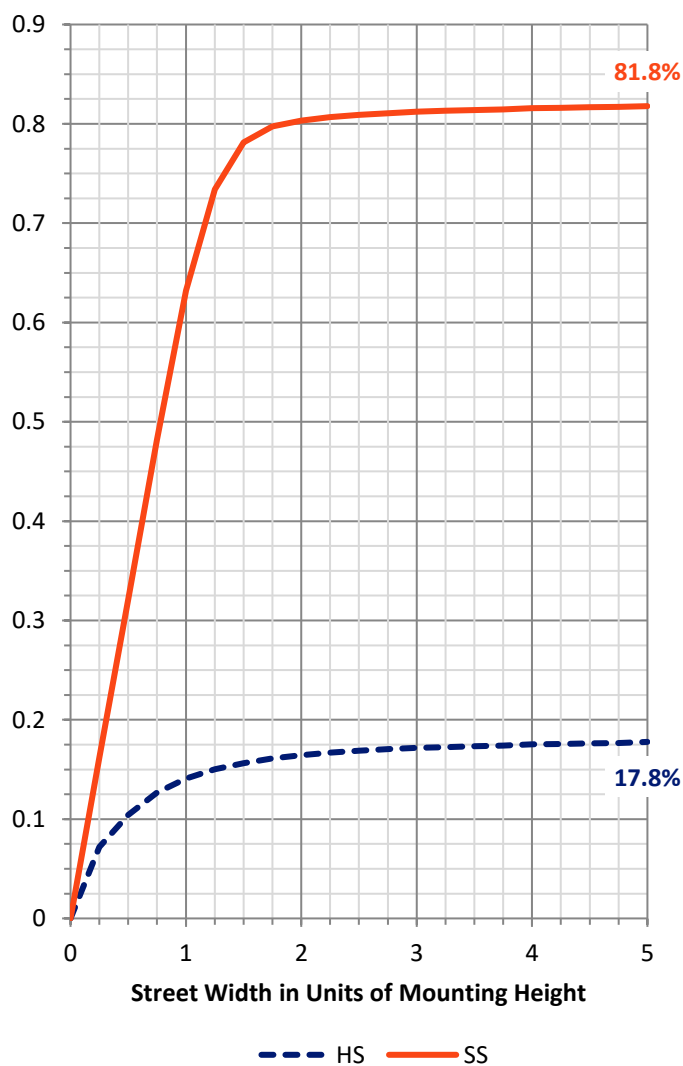
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10370.0	0.0	10370.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	46940.0	0.0	46940.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	57310.0	0.0	57310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1332.5	2.3
10°-20°	3363.4	5.9
20°-30°	5367.0	9.4
30°-40°	8497.2	14.8
40°-50°	13005.9	22.7
50°-60°	13930.5	24.3
60°-70°	8763.7	15.3
70°-80°	2591.6	4.5
80°-90°	458.2	0.8
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°	57310.0	100.0
0°-180°	57310.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956971

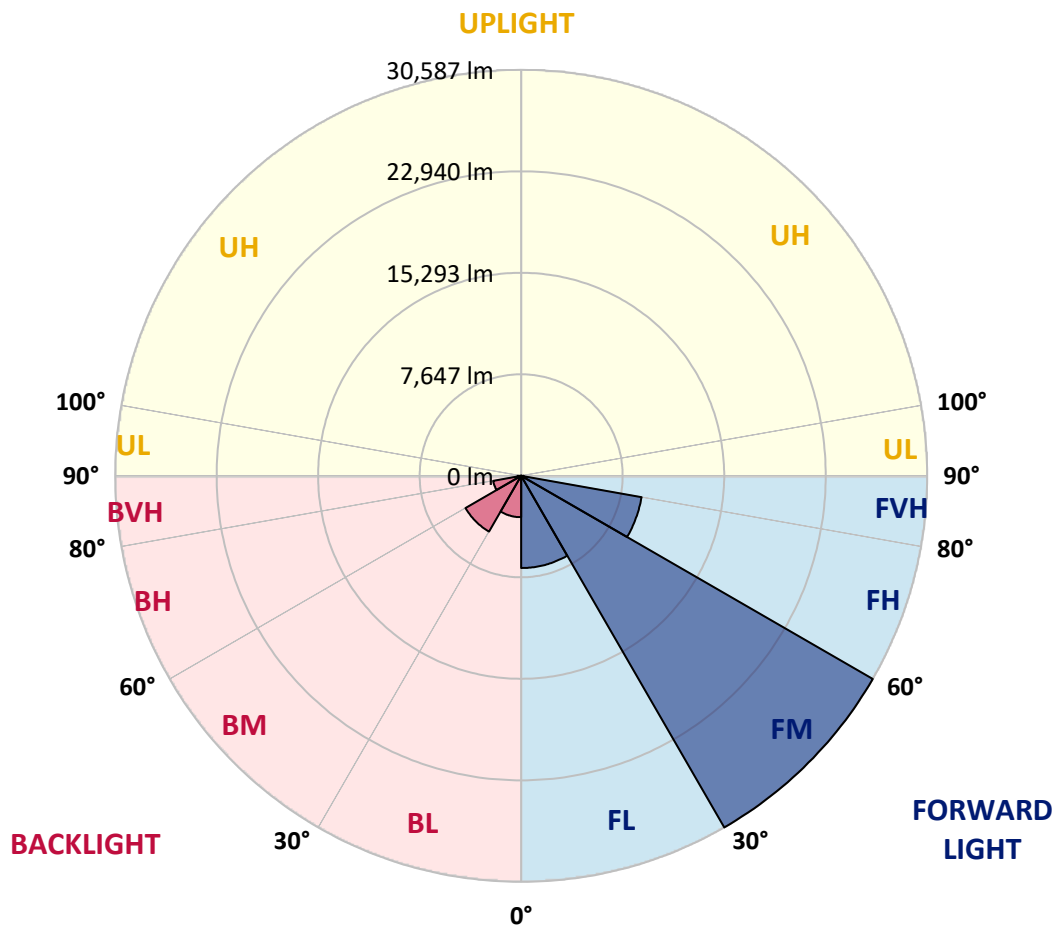
CATALOG NUMBER: GALN-SB9C-722-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6946.0	12.1			
FM	(30°-60°)	30586.8	53.4			
FH	(60°-80°)	9213.7	16.1			G4/12000
FVH	(80°-90°)	193.6	0.3			G2/225
BL	(0°-30°)	3116.9	5.4	B4/5000		
BM	(30°-60°)	4846.8	8.5	B3/5000		
BH	(60°-80°)	2141.6	3.7	B3/2500		G3/2500
BVH	(80°-90°)	264.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P956971

CATALOG NUMBER: GALN-SB9C-722-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0
2.5°	16475.4	16463.5	16528.7	16306.5	16155.4	15951.0	15681.4	15337.7	14967.4	14576.3	14407.4
5°	17959.7	17856.0	17924.1	17758.2	17592.3	17284.2	16884.2	16324.3	15639.9	14860.7	14445.9
7.5°	17725.6	17654.5	17829.3	17977.4	18101.9	18063.4	17770.1	17183.4	16300.6	15168.8	14567.4
10°	15838.4	15758.4	16004.3	16516.8	17269.4	17924.1	18279.6	17915.2	16976.1	15506.6	14685.9
12.5°	14173.4	14134.9	14297.8	14712.6	15548.1	16804.2	18214.4	18555.2	17678.2	15906.5	14845.9
15°	13462.3	13414.9	13518.6	13729.0	14262.3	15432.5	17621.9	18993.6	18368.5	16368.7	15100.7
17.5°	13305.3	13252.0	13296.4	13406.0	13749.7	14641.5	16727.2	19209.9	19088.4	16884.2	15314.0
20°	13595.7	13551.2	13557.1	13551.2	13791.2	14499.3	16105.0	19126.9	19716.5	17358.2	15521.4
22.5°	14297.8	14223.7	14226.7	14069.7	14200.0	14748.1	15942.1	18904.8	20276.5	17773.0	15678.4
25°	15441.4	15308.1	15334.7	14934.8	14899.2	15305.1	16196.9	18732.9	20833.4	18104.8	15708.0
27.5°	17005.7	16854.6	16774.6	16179.1	15894.7	16096.1	16715.3	18792.2	21360.8	18392.2	15634.0
30°	18961.0	18777.4	18614.4	17770.1	17254.5	17180.5	17521.2	19183.2	21983.0	18694.4	15506.6
32.5°	21357.8	21144.5	20848.3	19728.4	19002.5	18614.4	18564.0	19879.5	22711.8	19079.5	15441.4
35°	24210.9	23932.4	23511.7	22062.9	21144.5	20350.5	19938.7	20883.8	23710.2	19660.2	15515.5
37.5°	27149.8	26835.8	26450.7	24726.4	23597.6	22427.4	21615.6	22246.6	25040.4	20448.3	15711.0
40°	29860.7	29508.1	29149.6	27615.0	26403.2	24993.0	23668.7	23970.9	26666.9	21390.4	16042.8
42.5°	31460.5	31199.8	31063.5	30234.0	29297.8	27866.8	26222.5	26015.1	28494.9	22474.8	16422.0
45°	31389.4	31282.8	31703.5	32047.1	31824.9	31030.9	29214.8	28275.7	30328.8	23413.9	16771.6
47.5°	29712.5	29783.6	30722.8	32654.5	33504.8	33919.5	32621.9	30494.7	31922.7	24116.1	16928.7
50°	25150.0	25209.3	27383.9	31549.4	33937.3	36274.8	36002.3	32660.4	33158.1	24545.7	16893.1
52.5°	21538.6	21577.1	22510.3	28272.7	32509.3	37459.9	39047.9	34701.7	34061.7	24664.2	16694.6
55°	16223.5	16356.9	17402.7	22181.5	28794.1	36520.7	40902.5	36805.2	34633.5	24676.0	16487.2
57.5°	9477.6	9622.7	10914.4	15056.3	22380.0	33247.0	41184.0	38671.6	35021.6	24581.2	16362.8
60°	4642.5	4704.7	5267.6	7913.3	13800.1	26939.5	38920.5	39575.2	35237.9	24530.8	16356.9
62.5°	3128.6	3119.7	3143.4	3904.8	6799.3	17307.9	34203.9	37993.2	35122.4	24338.3	16297.6
65°	2690.1	2657.5	2568.6	2740.5	3522.6	7916.2	26427.0	33270.7	34242.5	23855.4	15891.7
67.5°	2325.7	2328.7	2331.6	2278.3	2515.3	3653.0	16149.5	26207.7	31084.3	21568.2	14327.4
70°	1925.7	1952.4	1964.2	1964.2	2050.2	2396.8	6894.1	17962.6	24519.0	16910.9	11539.6
72.5°	1753.9	1697.6	1703.5	1673.9	1673.9	1825.0	2776.0	10182.7	15447.3	9513.1	7042.2
75°	1431.0	1466.5	1472.4	1451.7	1383.6	1392.5	1647.2	4272.2	6609.7	3946.3	3481.1
77.5°	1235.4	1235.4	1247.3	1232.5	1179.1	1042.9	1099.1	1656.1	2248.7	1617.6	1739.1
80°	992.5	989.5	1039.9	1069.5	986.6	770.3	702.2	915.5	998.4	711.0	903.6
82.5°	482.9	512.5	714.0	814.7	749.6	557.0	429.6	568.8	533.3	314.0	405.9
85°	281.5	266.6	320.0	453.3	429.6	308.1	207.4	296.3	278.5	160.0	162.9
87.5°	88.9	83.0	65.2	154.1	124.4	85.9	56.3	85.9	77.0	35.6	35.6
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: P956971

CATALOG NUMBER: GALN-SB9C-722-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0	14360.0
2.5°	14197.1	13847.5	13500.9	13183.8	12991.3	12866.8	12742.4	12603.2	12549.8	12469.8
5°	14054.9	13379.4	12778.0	12259.5	11788.4	11418.1	11044.8	10742.6	10606.3	10698.2
7.5°	13971.9	12994.2	12066.9	11115.9	10200.4	9468.7	8831.7	8384.3	8182.9	8233.2
10°	13897.9	12558.7	11145.5	9643.5	8328.0	7421.5	6769.7	6429.0	6301.6	6328.2
12.5°	13829.7	12069.9	10034.5	8058.4	6660.1	6061.6	5875.0	5877.9	5901.6	5919.4
15°	13817.9	11480.3	8793.2	6671.9	5759.4	5720.9	5922.4	6049.8	6117.9	6138.6
17.5°	13800.1	10775.2	7528.1	5726.8	5540.2	5800.9	5987.5	6070.5	6123.8	6126.8
20°	13729.0	9880.5	6360.8	5276.5	5492.8	5717.9	5833.5	5898.7	5943.1	5957.9
22.5°	13509.7	8885.0	5451.3	5075.0	5303.2	5483.9	5620.2	5694.2	5720.9	5738.7
25°	13115.7	7771.1	4823.2	4882.5	5039.5	5267.6	5377.2	5392.0	5383.2	5409.8
27.5°	12600.2	6577.1	4432.1	4621.8	4823.2	5018.8	5078.0	5069.1	5051.3	5081.0
30°	11978.0	5504.6	4183.3	4328.5	4604.0	4781.7	4835.1	4814.3	4778.8	4811.4
32.5°	11320.3	4627.7	3978.9	4124.0	4423.3	4598.1	4651.4	4630.6	4604.0	4630.6
35°	10707.1	4014.4	3789.2	3987.7	4281.0	4452.9	4521.0	4524.0	4524.0	4556.6
37.5°	10144.2	3655.9	3632.2	3901.8	4183.3	4337.3	4435.1	4441.0	4313.6	4322.5
40°	9622.7	3504.8	3561.1	3845.5	4088.5	4236.6	4242.5	3910.7	3676.7	3670.7
42.5°	9196.1	3475.2	3581.9	3839.6	4020.3	4026.3	3608.5	3350.8	3285.6	3288.6
45°	8796.1	3466.3	3629.3	3839.6	3919.6	3478.2	3196.7	3128.6	3134.5	3158.2
47.5°	8348.8	3430.8	3638.1	3786.3	3629.3	3093.0	3010.1	2980.4	2968.6	2974.5
50°	7859.9	3303.4	3525.6	3679.6	3131.5	2927.1	2823.4	2814.5	2829.3	2838.2
52.5°	7344.4	3096.0	3333.0	3487.1	2903.4	2781.9	2666.4	2687.1	2752.3	2773.1
55°	7006.7	2853.0	3078.2	3101.9	2743.4	2645.7	2547.9	2595.3	2716.8	2755.3
57.5°	6917.8	2595.3	2787.9	2761.2	2539.0	2527.2	2467.9	2509.4	2663.4	2719.7
60°	6891.2	2364.2	2503.4	2482.7	2340.5	2396.8	2382.0	2402.7	2456.0	2473.8
62.5°	6683.8	2180.5	2248.7	2219.0	2162.7	2260.5	2296.1	2251.6	2293.1	2313.8
65°	6156.4	2032.4	1999.8	1979.1	2002.8	2091.6	2162.7	2073.9	2112.4	2171.6
67.5°	5285.4	1830.9	1742.0	1765.7	1839.8	1887.2	1979.1	1878.3	1910.9	2011.6
70°	4275.1	1576.1	1496.1	1564.3	1635.4	1733.2	1748.0	1679.8	1756.9	1869.4
72.5°	3024.9	1318.4	1262.1	1401.3	1425.0	1552.4	1519.8	1487.3	1593.9	1632.4
75°	2097.6	1063.6	1031.0	1137.7	1223.6	1333.2	1309.5	1348.0	1573.2	1590.9
77.5°	1327.3	826.6	805.8	874.0	992.5	1114.0	1152.5	1590.9	2687.1	2793.8
80°	770.3	616.2	592.5	645.9	749.6	862.1	1111.0	1952.4	1771.7	1750.9
82.5°	429.6	423.7	394.0	408.8	500.7	622.2	1570.2	1374.7	1116.9	1152.5
85°	201.5	248.9	213.3	204.4	281.5	728.8	1048.8	785.1	521.4	509.6
87.5°	53.3	47.4	47.4	53.3	118.5	628.1	417.7	334.8	198.5	192.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)