

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: P956638

Luminaire Tested: **GALN-SB9B-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47285 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5
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

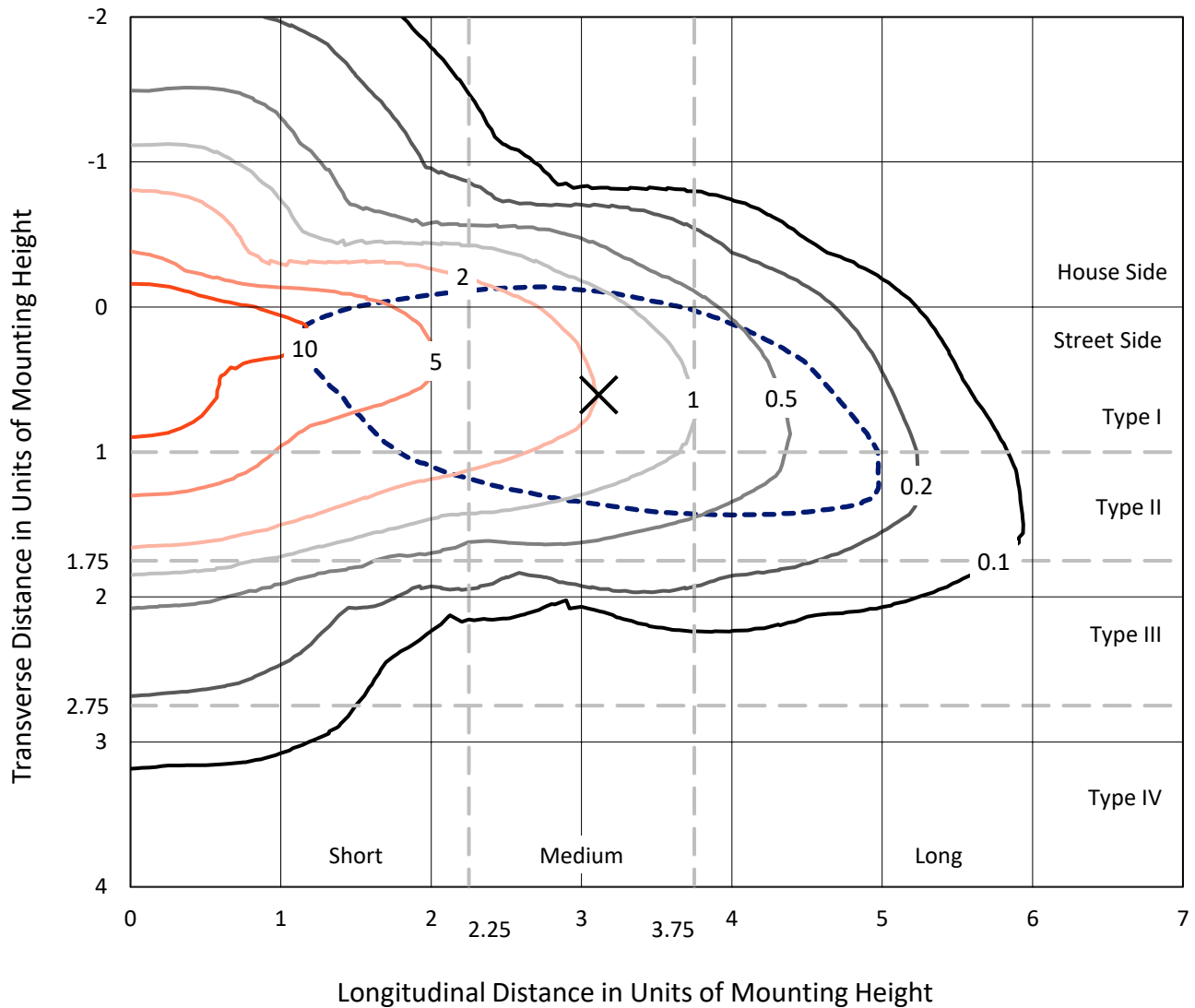


REPORT NUMBER: P956638

CATALOG NUMBER: GALN-SB9B-727-U-SL2

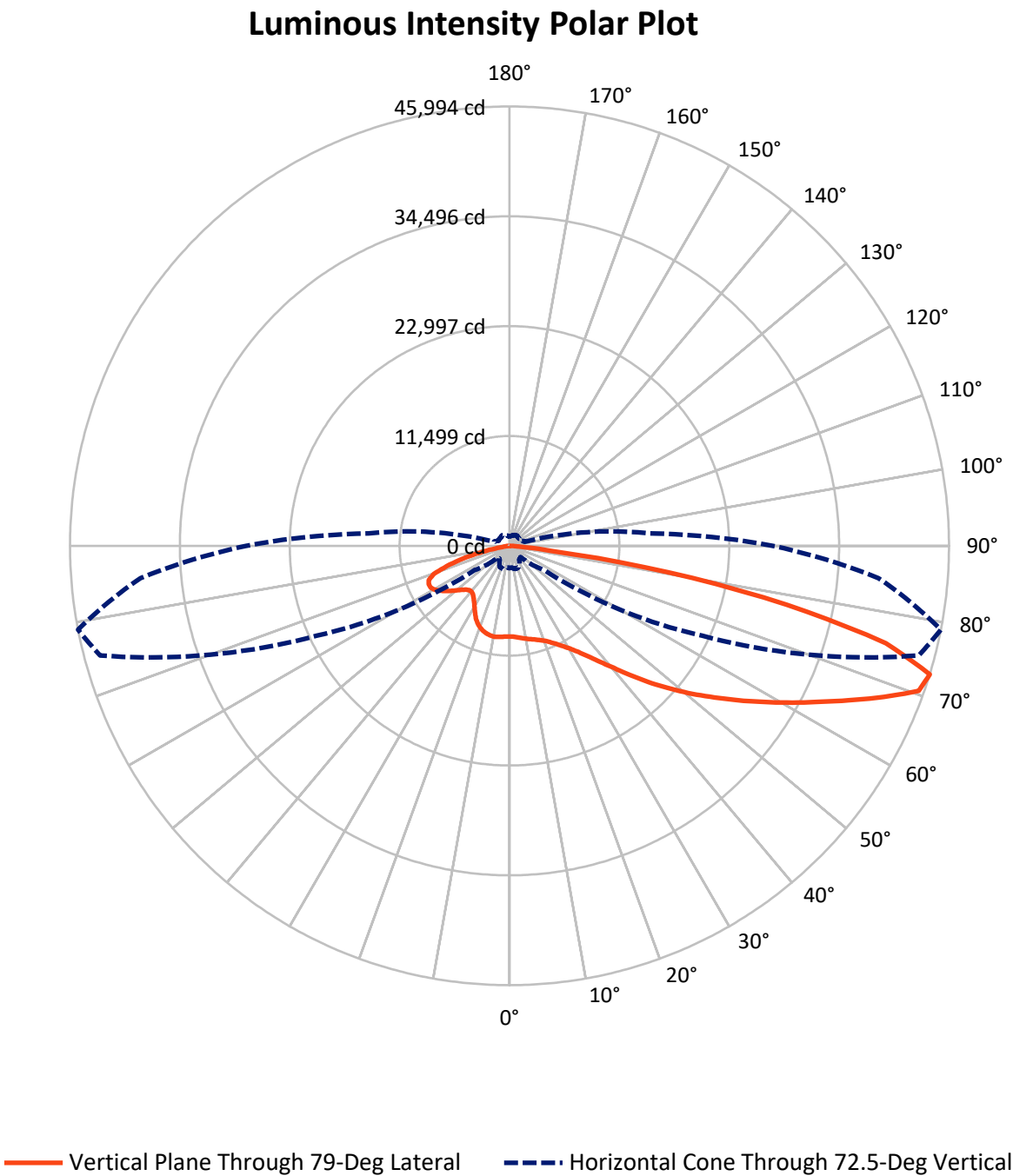
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Medium - N/A

REPORT NUMBER: P956638
CATALOG NUMBER: GALN-SB9B-727-U-SL2



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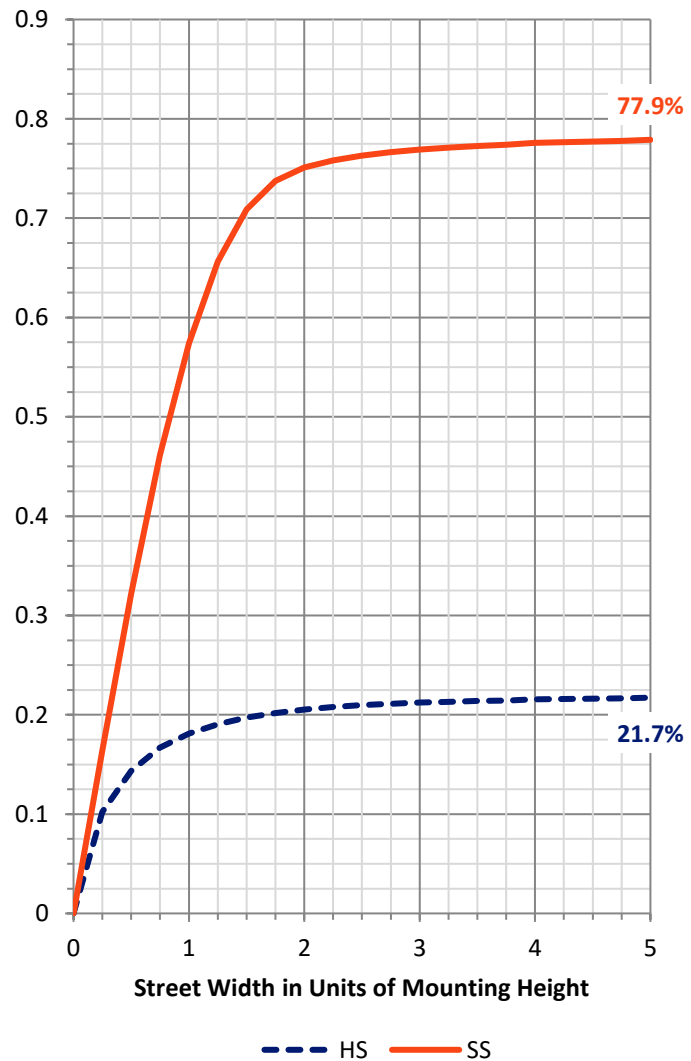
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10405.3	0.0	10405.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	36879.7	0.0	36879.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	47285.0	0.0	47285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.6	1.8
10°-20°	2252.7	4.8
20°-30°	3634.9	7.7
30°-40°	5455.4	11.5
40°-50°	7738.8	16.4
50°-60°	9773.1	20.7
60°-70°	9925.9	21.0
70°-80°	6764.9	14.3
80°-90°	877.7	1.9
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°	47285.0	100.0
0°-180°	47285.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956638

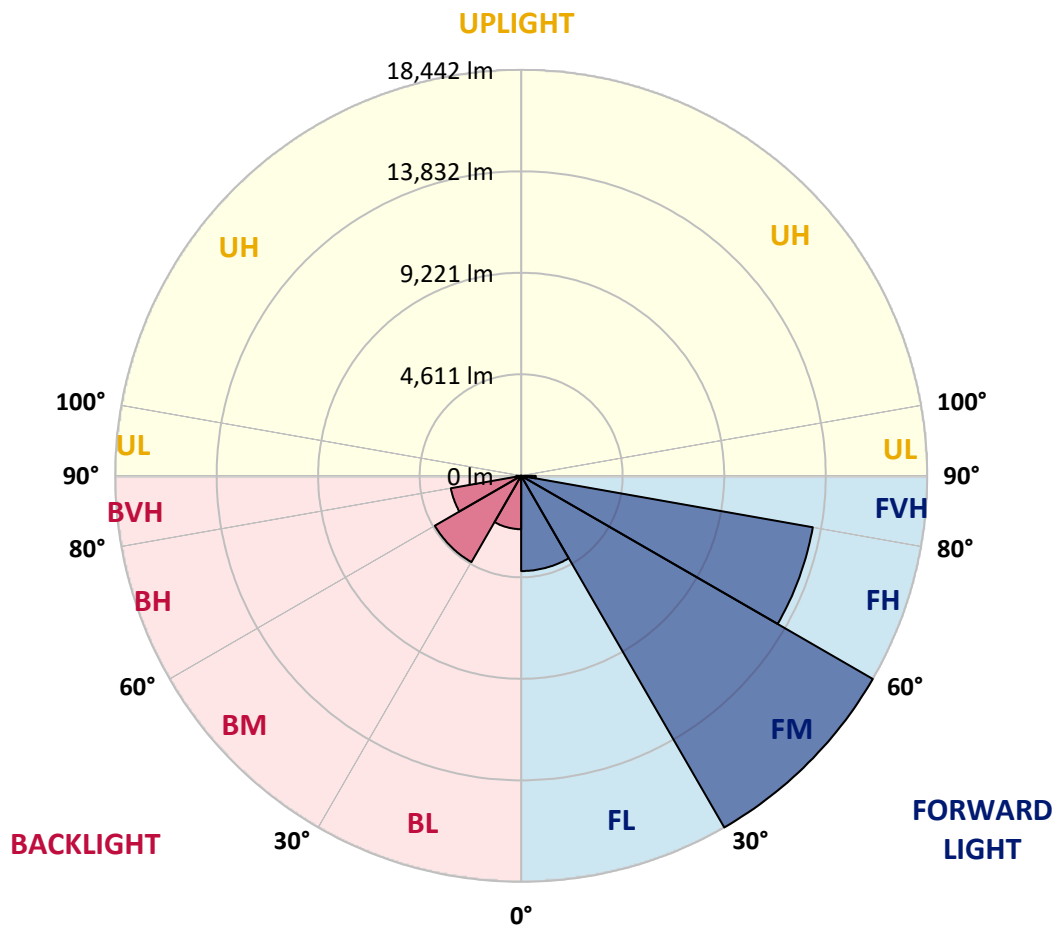
CATALOG NUMBER: GALN-SB9B-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4325.4	9.1			
FM	(30°-60°)	18442.1	39.0			
FH	(60°-80°)	13451.0	28.4			G5
FVH	(80°-90°)	661.2	1.4			G4/750
BL	(0°-30°)	2423.7	5.1	B3/2500		
BM	(30°-60°)	4525.2	9.6	B3/5000		
BH	(60°-80°)	3239.9	6.9	B4/5000		G4/5000
BVH	(80°-90°)	216.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P956638

CATALOG NUMBER: GALN-SB9B-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0
2.5°	9497.0	9452.0	9479.5	9469.5	9482.0	9497.0	9502.0	9509.5	9534.5	9532.0	9529.5
5°	9477.0	9432.0	9469.5	9457.0	9489.5	9524.5	9554.5	9582.1	9622.1	9639.6	9614.6
7.5°	9434.5	9404.5	9442.0	9479.5	9539.5	9592.1	9634.6	9697.1	9754.6	9764.6	9782.2
10°	9186.9	9164.4	9251.9	9349.4	9514.5	9657.1	9749.6	9822.2	9884.7	9894.7	9919.7
12.5°	8929.2	8901.7	8999.3	9131.8	9399.5	9657.1	9852.2	9947.2	10002.3	10034.8	10072.3
15°	8886.7	8864.2	8919.2	9034.3	9256.9	9589.6	9922.2	10097.3	10144.8	10182.3	10197.3
17.5°	9091.8	9049.3	9071.8	9111.8	9241.9	9527.0	9977.2	10267.4	10339.9	10379.9	10379.9
20°	9567.0	9507.0	9472.0	9392.0	9369.5	9537.0	9972.2	10472.5	10567.5	10617.5	10630.1
22.5°	10199.9	10159.8	10084.8	9882.2	9662.1	9659.6	10067.3	10735.1	10912.7	10960.2	10930.2
25°	10965.2	10905.2	10810.1	10535.0	10112.3	9902.2	10227.4	11070.3	11367.9	11380.4	11292.9
27.5°	11845.6	11755.6	11625.5	11262.9	10692.6	10282.4	10472.5	11455.4	11890.7	11885.7	11705.6
30°	12773.6	12683.5	12546.0	12105.8	11387.9	10795.1	10812.6	11870.6	12510.9	12483.4	12175.8
32.5°	13451.4	13383.9	13356.4	13016.2	12188.3	11400.4	11202.8	12330.9	13276.3	13251.3	12821.1
35°	13971.6	13884.1	13916.6	13744.0	13061.2	12078.2	11680.6	12878.6	14206.8	14204.3	13669.0
37.5°	14486.9	14409.4	14436.9	14321.8	13869.1	12938.7	12263.3	13548.9	15359.8	15414.8	14694.5
40°	14957.1	14874.6	14984.6	14877.1	14496.9	13854.1	12926.1	14306.8	16695.4	16800.5	15935.1
42.5°	15239.7	15174.7	15357.3	15359.8	15042.2	14627.0	13654.0	15142.2	18241.2	18476.3	17460.8
45°	15337.3	15314.8	15589.9	15647.4	15524.9	15074.7	14309.3	16052.6	19907.0	20327.2	19199.1
47.5°	15232.2	15189.7	15569.9	15782.5	15880.1	15284.8	14852.1	17038.1	21607.8	22223.1	21095.0
50°	14702.0	14619.5	15184.7	15632.4	15980.1	15422.3	15399.8	18176.1	23541.2	24214.0	23000.9
52.5°	13749.0	13686.5	14329.3	15107.2	15760.0	15489.9	16015.1	19419.2	25377.1	26247.5	24954.4
55°	12531.0	12448.4	13156.3	14171.7	15212.2	15467.4	16630.4	20809.9	27543.1	28426.0	26972.8
57.5°	10600.0	10435.0	11330.4	12531.0	14319.3	15439.8	17270.7	22193.1	29744.1	30802.1	29126.4
60°	7783.7	7538.6	8636.6	10059.8	12573.5	15172.2	18063.6	23743.8	32385.4	33338.4	31477.5
62.5°	4532.2	4389.6	5107.4	6435.6	9477.0	13596.5	18508.8	25547.1	34981.6	35982.1	33788.6
65°	3519.2	3479.2	3541.7	3644.2	5275.0	10179.8	17135.6	27305.5	38283.2	38983.5	36197.2
67.5°	3219.0	3189.0	3216.5	3023.9	2676.3	5670.2	13556.4	27750.7	41819.9	42245.1	38305.7
70°	2861.4	2826.3	2916.4	2751.3	2106.0	2578.7	8759.2	26134.9	44633.7	45431.6	39909.0
72.5°	2331.1	2291.1	2501.2	2426.2	1773.3	1655.8	4399.6	22295.6	44338.6	45994.4	38760.9
75°	1790.9	1768.3	2018.5	2081.0	1445.7	1303.1	2111.0	16572.9	39018.6	40686.8	33405.9
77.5°	1390.7	1373.2	1500.7	1728.3	1165.6	1010.5	1298.1	10512.5	29404.0	29696.6	23020.9
80°	1043.0	993.0	1110.5	1338.1	907.9	737.9	880.4	6130.4	18586.3	16848.0	10019.8
82.5°	652.8	627.8	725.3	892.9	640.3	507.7	572.8	3386.6	7448.5	4387.1	1933.4
85°	372.7	362.7	395.2	510.2	347.7	292.6	327.7	1495.7	1360.6	935.4	582.8
87.5°	150.1	145.1	180.1	227.6	127.6	107.6	115.1	360.2	300.1	277.6	192.6
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: P956638

CATALOG NUMBER: GALN-SB9B-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0
2.5°	9519.5	9519.5	9484.5	9429.5	9367.0	9326.9	9261.9	9244.4	9176.9	9156.9	9189.4
5°	9634.6	9614.6	9507.0	9351.9	9139.3	8944.3	8729.2	8594.1	8404.0	8336.5	8386.5
7.5°	9779.7	9724.6	9539.5	9199.4	8754.2	8316.5	7861.2	7516.1	7185.9	7068.4	7083.4
10°	9912.2	9834.7	9519.5	8924.2	8153.9	7396.0	6670.7	6162.9	5777.7	5620.2	5655.2
12.5°	10044.8	9902.2	9387.0	8466.5	7301.0	6273.0	5500.1	5104.9	4867.3	4677.2	4739.8
15°	10169.8	9969.7	9181.9	7853.7	6365.5	5322.5	4752.3	4437.1	4247.0	4122.0	4144.5
17.5°	10314.9	10027.3	8874.2	7075.9	5475.1	4664.7	4199.5	4009.4	3971.9	3956.9	3966.9
20°	10517.5	10079.8	8469.0	6205.5	4819.8	4139.5	3899.4	3881.8	3879.3	3871.8	3896.9
22.5°	10735.1	10142.3	7933.8	5415.1	4262.0	3811.8	3769.3	3734.3	3711.8	3709.3	3736.8
25°	10992.7	10162.3	7263.5	4767.3	3786.8	3656.7	3606.7	3554.2	3539.2	3539.2	3554.2
27.5°	11242.8	10094.8	6483.1	4204.5	3519.2	3514.2	3449.1	3431.6	3429.1	3436.6	3456.6
30°	11493.0	9967.2	5707.7	3684.3	3364.1	3364.1	3341.6	3354.1	3364.1	3389.1	3406.6
32.5°	11830.6	9832.2	5059.9	3299.1	3229.0	3204.0	3226.5	3251.5	3261.6	3294.1	3321.6
35°	12325.9	9737.1	4544.7	3089.0	3089.0	3056.5	3069.0	3064.0	3041.4	3026.4	3061.5
37.5°	12981.2	9732.1	4119.5	2991.4	2971.4	2966.4	2968.9	2936.4	2848.9	2743.8	2746.3
40°	13769.0	9867.2	3791.8	2923.9	2908.9	2938.9	2923.9	2836.3	2596.2	2413.6	2408.6
42.5°	14827.1	10252.4	3581.7	2841.4	2886.4	2923.9	2863.9	2561.2	2398.6	2276.1	2271.1
45°	16072.6	10877.7	3474.2	2753.8	2843.9	2888.9	2598.7	2466.2	2336.1	2188.5	2178.5
47.5°	17483.3	11665.5	3449.1	2671.3	2748.8	2776.3	2486.2	2426.2	2278.6	2118.5	2106.0
50°	19019.0	12598.5	3516.7	2573.7	2611.2	2516.2	2448.7	2393.6	2241.1	2083.5	2066.0
52.5°	20607.3	13626.5	3651.7	2441.2	2473.7	2368.6	2433.7	2386.1	2218.6	2006.0	1990.9
55°	22168.0	14662.0	3781.8	2286.1	2333.6	2236.1	2391.1	2356.1	2116.0	1875.9	1863.4
57.5°	23753.8	15692.5	3909.4	2148.5	2198.5	2108.5	2323.6	2276.1	2001.0	1755.8	1750.8
60°	25402.1	16692.9	3969.4	2016.0	2051.0	1990.9	2221.1	2138.5	1870.9	1633.3	1625.8
62.5°	26945.3	17525.8	3871.8	1883.4	1905.9	1880.9	2086.0	1975.9	1740.8	1495.7	1493.2
65°	28493.6	18021.1	3571.7	1753.3	1758.3	1745.8	1895.9	1800.9	1588.3	1375.7	1360.6
67.5°	29896.7	18298.7	3094.0	1613.3	1600.8	1595.8	1718.3	1610.8	1440.7	1255.6	1240.6
70°	30194.4	17593.4	2363.6	1448.2	1448.2	1435.7	1523.2	1413.2	1278.1	1128.0	1123.0
72.5°	27578.1	14799.5	1678.3	1260.6	1280.6	1255.6	1328.1	1235.6	1113.0	1013.0	983.0
75°	22238.1	10852.7	1220.6	1068.0	1103.0	1060.5	1128.0	1063.0	958.0	955.5	860.4
77.5°	15279.8	6710.7	885.4	880.4	905.4	850.4	927.9	892.9	797.9	755.4	707.8
80°	6520.6	2676.3	645.3	680.3	680.3	630.3	720.3	730.3	647.8	627.8	627.8
82.5°	1298.1	760.4	452.7	467.7	440.2	425.2	510.2	565.3	780.4	867.9	870.4
85°	390.2	280.1	272.6	255.1	225.1	227.6	300.1	567.8	700.3	400.2	345.2
87.5°	107.6	70.0	72.5	57.5	47.5	62.5	102.5	430.2	235.1	100.0	85.0
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)