

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: P948429

Luminaire Tested: **GALN-SB3C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

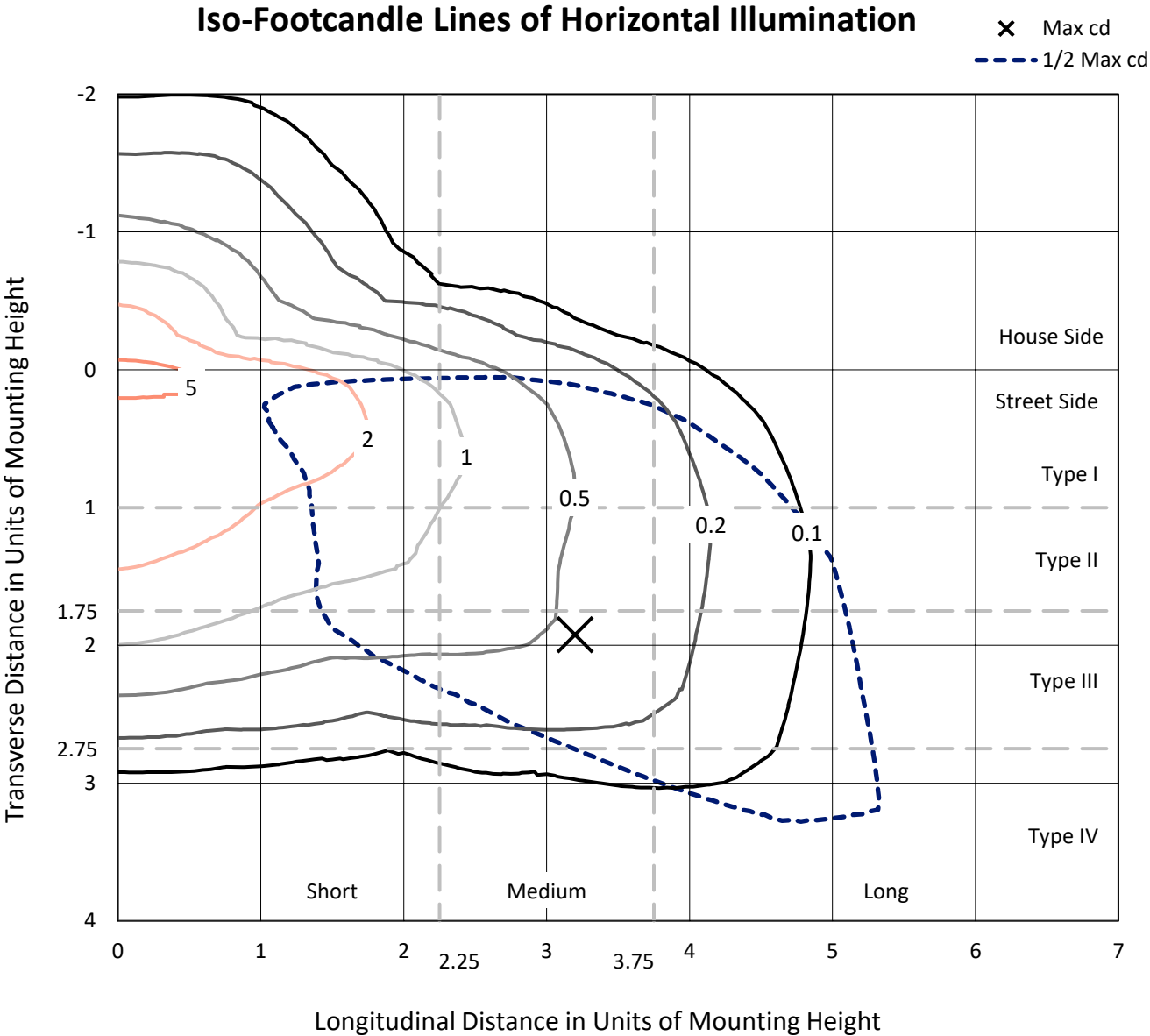
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20369 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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: P948429
CATALOG NUMBER: GALN-SB3C-727-U-SL3

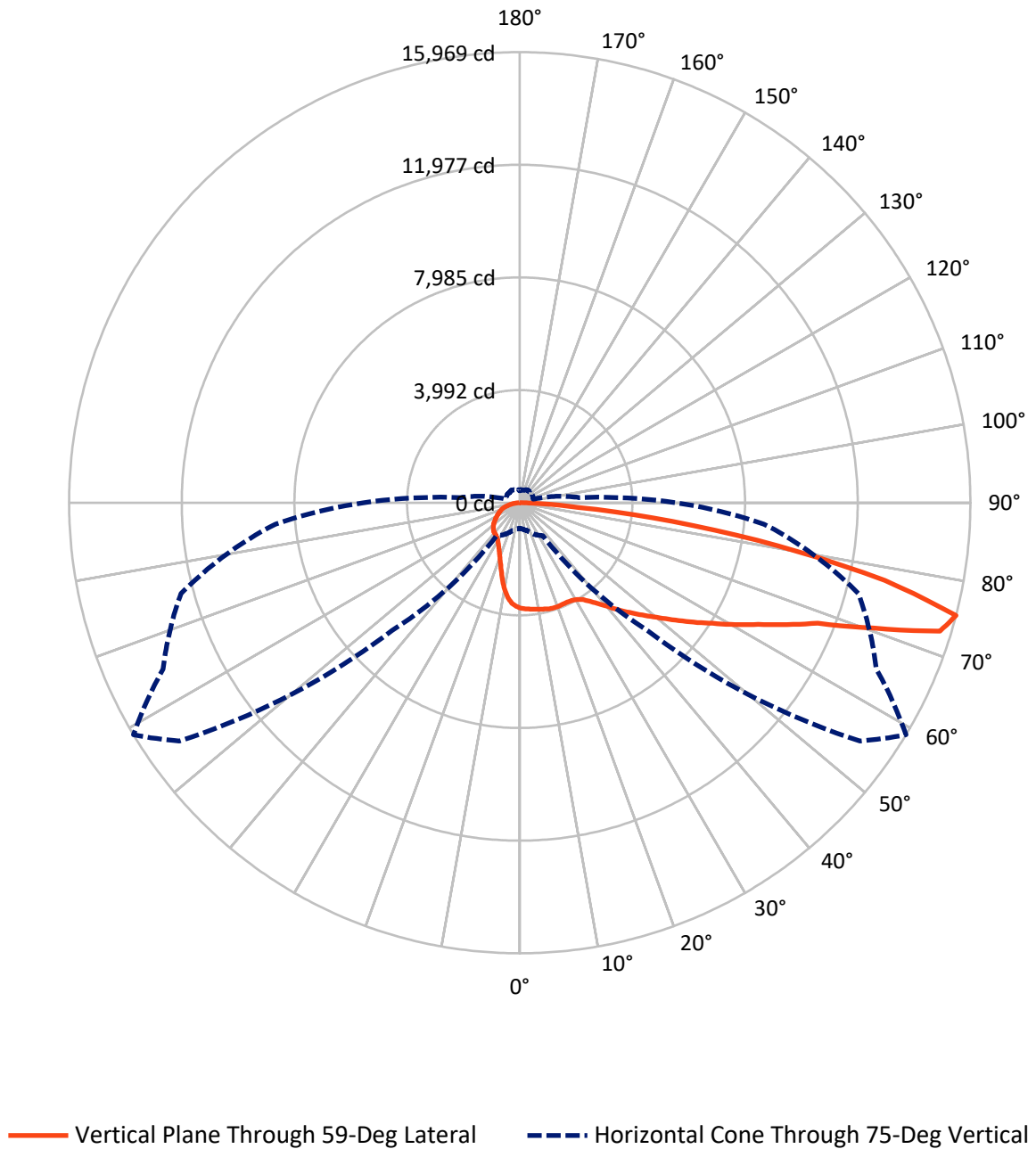


Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type IV - Medium - N/A

REPORT NUMBER: P948429

CATALOG NUMBER: GALN-SB3C-727-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P948429

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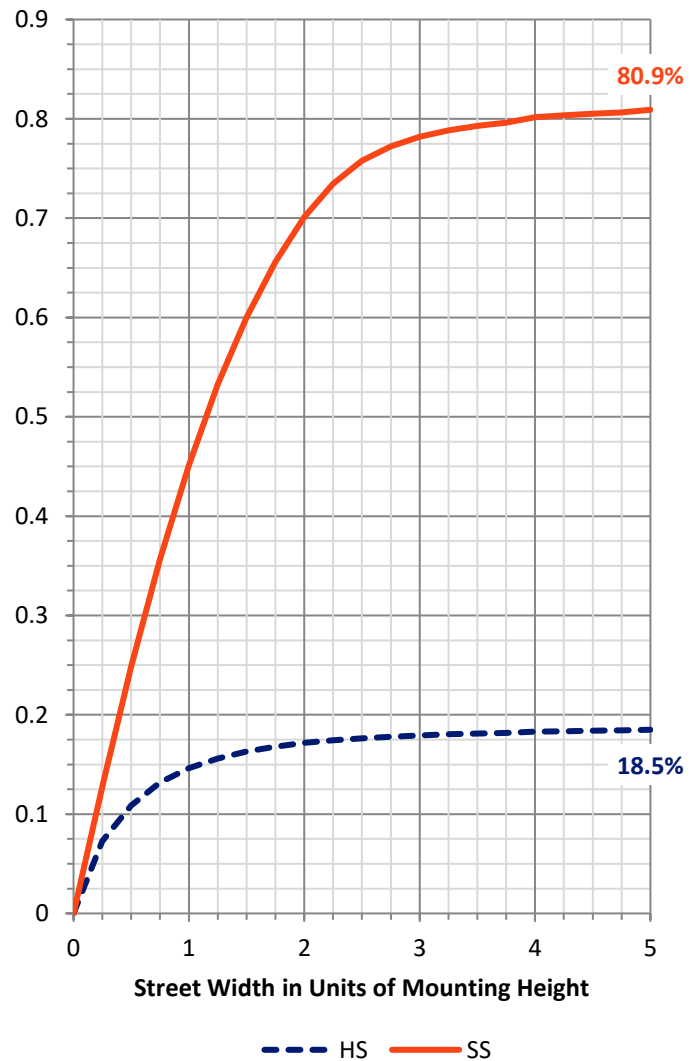
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3820.3	0.0	3820.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16548.7	0.0	16548.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	20369.0	0.0	20369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.2	1.6
10°-20°	856.9	4.2
20°-30°	1301.5	6.4
30°-40°	1934.7	9.5
40°-50°	2877.2	14.1
50°-60°	3905.5	19.2
60°-70°	4768.0	23.4
70°-80°	3741.8	18.4
80°-90°	648.2	3.2
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°	20369.0	100.0
0°-180°	20369.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948429

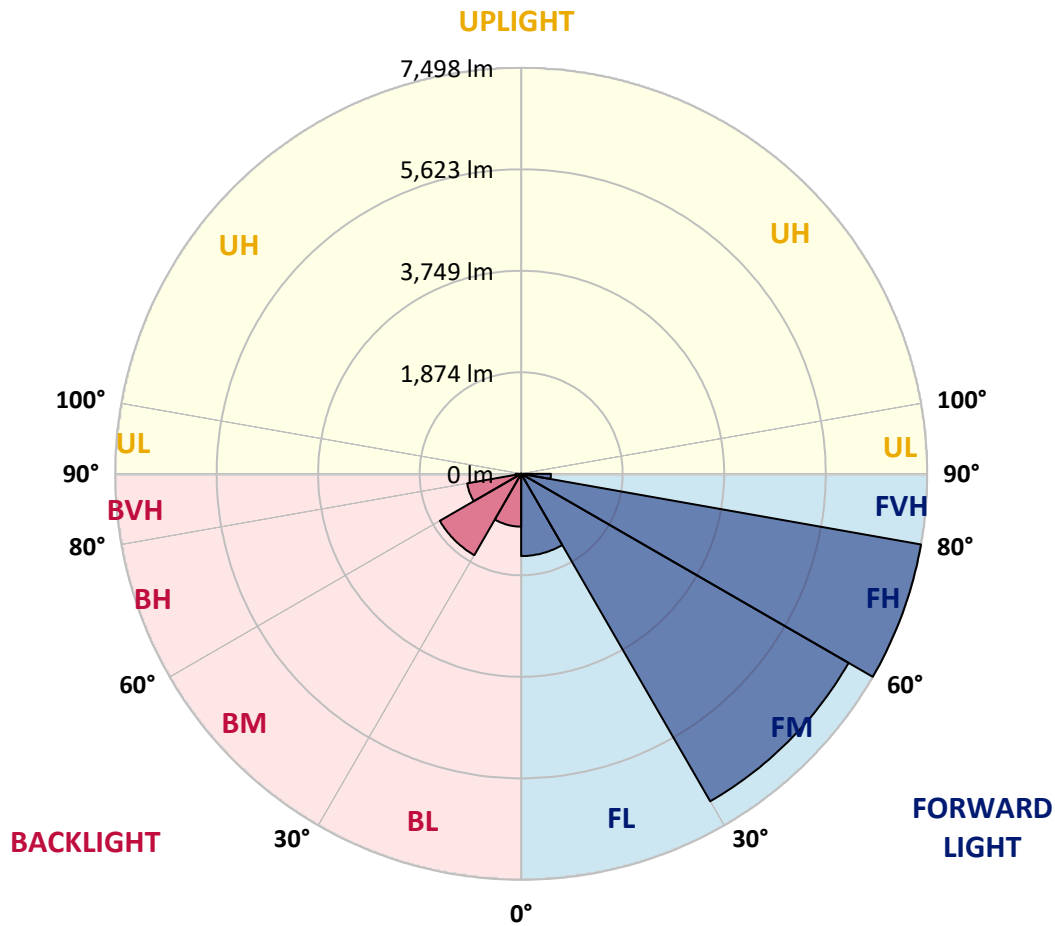
CATALOG NUMBER: GALN-SB3C-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1518.7	7.5			
FM	(30°-60°)	6983.3	34.3			
FH	(60°-80°)	7497.6	36.8			G3/7500
FVH	(80°-90°)	549.0	2.7			G4/750
BL	(0°-30°)	974.9	4.8	B2/1000		
BM	(30°-60°)	1734.1	8.5	B2/2500		
BH	(60°-80°)	1012.2	5.0	B3/2500		G3/2500
BVH	(80°-90°)	99.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



REPORT NUMBER: P948429

CATALOG NUMBER: GALN-SB3C-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7
2.5°	3770.5	3757.3	3770.5	3765.0	3762.8	3758.4	3759.5	3767.2	3762.8	3768.3	3749.6
5°	3745.3	3737.6	3750.7	3747.5	3761.7	3763.9	3778.1	3786.9	3792.4	3793.5	3779.2
7.5°	3703.6	3696.0	3714.6	3729.9	3760.6	3769.4	3799.0	3813.2	3820.9	3834.0	3813.2
10°	3551.3	3548.0	3594.0	3652.1	3724.4	3769.4	3814.3	3838.4	3850.5	3885.5	3861.4
12.5°	3281.8	3286.1	3346.4	3458.2	3602.8	3747.5	3831.8	3866.9	3885.5	3929.3	3918.4
15°	3024.3	3023.2	3088.9	3208.3	3411.1	3651.0	3840.6	3900.9	3932.6	3997.3	3988.5
17.5°	2875.2	2870.9	2916.9	3007.8	3196.3	3503.1	3818.7	3919.5	3987.4	4068.5	4060.8
20°	2847.8	2839.1	2863.2	2908.1	3041.8	3340.9	3761.7	3919.5	4031.2	4136.4	4132.1
22.5°	2947.6	2933.3	2923.4	2918.0	2977.1	3207.2	3697.0	3906.3	4095.9	4234.0	4226.3
25°	3148.1	3126.2	3075.8	3026.4	3008.9	3147.0	3640.1	3903.0	4192.3	4365.5	4337.0
27.5°	3472.4	3445.0	3343.1	3224.8	3118.5	3177.7	3614.9	3922.8	4298.6	4504.6	4447.6
30°	3874.6	3845.0	3716.8	3534.9	3344.2	3291.6	3646.6	3980.8	4434.5	4689.8	4578.0
32.5°	4235.1	4202.2	4092.6	3907.4	3649.9	3488.9	3747.5	4091.5	4648.2	4947.3	4774.2
35°	4555.0	4516.7	4418.0	4247.1	4024.7	3766.1	3929.3	4287.7	4951.7	5365.9	5040.4
37.5°	4868.4	4823.5	4716.1	4535.3	4379.7	4135.3	4180.3	4539.7	5354.9	5874.3	5393.3
40°	5219.0	5154.4	5024.0	4845.4	4694.2	4568.2	4510.1	4848.7	5764.7	6441.9	5833.8
42.5°	5558.7	5497.4	5341.8	5189.5	4999.9	4963.7	4892.5	5210.3	6212.9	7065.4	6280.8
45°	5924.7	5851.3	5662.8	5470.0	5350.5	5226.7	5262.9	5571.9	6652.3	7700.9	6749.8
47.5°	6267.7	6185.5	5963.0	5748.3	5682.5	5448.0	5602.5	5969.6	7109.2	8345.2	7214.4
50°	6452.8	6371.8	6186.6	5992.6	5941.1	5720.9	5970.7	6406.8	7588.0	8987.3	7660.4
52.5°	6607.3	6519.7	6277.5	6170.1	6154.8	6017.8	6424.4	6906.5	8066.9	9554.9	8091.0
55°	6771.7	6674.2	6365.2	6268.8	6338.9	6350.9	6962.4	7473.0	8573.1	10108.3	8497.5
57.5°	6961.3	6837.5	6449.6	6352.0	6518.6	6741.0	7580.4	8060.3	9070.6	10621.1	8859.1
60°	7139.9	7015.0	6611.7	6484.6	6712.5	7193.6	8289.3	8771.4	9633.8	11078.0	9201.0
62.5°	7174.9	7071.9	6741.0	6739.9	6975.5	7721.7	9128.7	9489.2	10125.8	11529.4	9507.8
65°	6567.9	6503.3	6307.1	6730.1	7352.5	8482.2	10063.3	10407.4	10751.5	11923.9	9777.3
67.5°	4998.8	5007.6	4993.3	5809.6	7047.8	9574.6	11416.6	11390.3	11524.0	12366.6	10087.4
70°	2285.7	2337.2	2672.5	4010.4	5646.4	9700.6	13654.1	13313.3	12493.7	12939.7	10355.9
72.5°	1234.9	1274.4	1411.3	1942.8	3394.6	8624.6	15326.2	15568.4	13783.4	13325.4	10061.1
75°	906.2	928.1	1023.4	1234.9	1425.6	6410.1	14726.8	15969.4	13944.5	12425.8	8688.2
77.5°	678.3	688.1	765.9	978.5	729.8	3379.3	11767.2	13225.7	11937.1	10209.1	6417.8
80°	492.0	502.9	561.0	734.1	511.7	1236.0	8080.0	9283.2	8175.4	6507.6	3198.5
82.5°	339.7	344.1	369.3	499.7	357.2	479.9	4584.6	5443.7	4563.8	2283.5	863.4
85°	204.9	210.4	221.3	291.5	202.7	227.9	1978.9	2046.9	1364.2	545.7	268.5
87.5°	84.4	89.9	98.6	122.7	80.0	63.6	326.5	409.8	255.3	160.0	83.3
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: P948429

CATALOG NUMBER: GALN-SB3C-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7
2.5°	3744.2	3736.5	3715.7	3687.2	3660.9	3628.0	3613.8	3601.7	3590.8	3569.9	3560.1
5°	3767.2	3746.4	3690.5	3618.2	3536.0	3446.1	3358.5	3298.2	3246.7	3208.3	3176.6
7.5°	3802.2	3762.8	3660.9	3513.0	3324.5	3131.6	2957.4	2833.6	2740.5	2706.5	2647.3
10°	3838.4	3791.3	3613.8	3353.0	3027.5	2730.6	2499.4	2372.3	2297.8	2273.7	2236.4
12.5°	3881.1	3812.1	3540.4	3130.5	2695.5	2370.1	2168.5	2094.0	2055.6	2042.5	2045.8
15°	3943.6	3829.6	3429.7	2852.2	2378.9	2107.1	1976.7	1925.2	1905.5	1904.4	1908.8
17.5°	3990.7	3832.9	3257.7	2554.2	2135.6	1948.2	1840.9	1821.1	1834.3	1854.0	1861.7
20°	4043.3	3803.3	3031.9	2282.4	1964.7	1809.1	1764.2	1777.3	1809.1	1837.6	1847.4
22.5°	4080.6	3749.6	2759.1	2071.0	1816.7	1729.1	1726.9	1754.3	1771.8	1786.1	1793.7
25°	4113.4	3658.7	2469.8	1893.4	1695.1	1680.9	1705.0	1696.2	1684.2	1696.2	1703.9
27.5°	4137.5	3515.2	2211.2	1737.9	1609.7	1648.0	1633.8	1614.0	1612.9	1619.5	1630.5
30°	4129.9	3323.4	1998.6	1589.9	1549.4	1586.6	1552.7	1549.4	1546.1	1549.4	1561.4
32.5°	4129.9	3105.3	1835.4	1488.0	1511.0	1496.8	1493.5	1485.8	1472.7	1471.6	1485.8
35°	4152.9	2887.3	1695.1	1433.2	1479.3	1445.3	1447.5	1428.9	1401.5	1388.3	1401.5
37.5°	4200.0	2712.0	1556.0	1406.9	1423.4	1422.3	1413.5	1381.7	1333.5	1291.9	1306.1
40°	4314.0	2660.5	1460.6	1394.9	1397.1	1410.2	1387.2	1325.9	1216.3	1148.3	1157.1
42.5°	4492.6	2747.0	1439.8	1365.3	1379.5	1392.7	1347.8	1205.3	1127.5	1087.0	1087.0
45°	4719.4	2898.2	1484.7	1322.6	1337.9	1360.9	1227.2	1159.3	1124.2	1125.3	1130.8
47.5°	5006.5	3057.1	1568.0	1285.3	1277.6	1290.8	1147.2	1105.6	1057.4	1069.4	1100.1
50°	5338.5	3218.2	1646.9	1234.9	1210.8	1168.1	1095.7	1056.3	994.9	966.4	974.1
52.5°	5697.9	3373.8	1678.7	1173.5	1138.5	1089.2	1060.7	1012.5	938.0	890.8	889.7
55°	6038.7	3515.2	1643.6	1100.1	1066.2	1027.8	1023.4	993.8	913.9	848.1	848.1
57.5°	6360.8	3633.5	1556.0	1025.6	992.7	969.7	999.3	985.1	884.3	799.9	795.5
60°	6633.6	3714.6	1428.9	950.0	927.0	914.9	959.9	955.5	842.6	748.4	745.1
62.5°	6850.6	3746.4	1288.6	877.7	872.2	850.3	905.1	905.1	790.0	698.0	694.7
65°	7020.4	3715.7	1146.2	806.5	817.4	784.6	838.2	831.7	734.1	653.1	648.7
67.5°	7170.6	3614.9	988.4	736.3	761.5	719.9	768.1	752.8	672.8	608.1	603.8
70°	7237.4	3380.4	808.7	666.2	696.9	656.4	698.0	669.5	603.8	559.9	551.2
72.5°	6700.5	2809.5	636.6	592.8	619.1	586.2	622.4	589.5	529.2	509.5	493.1
75°	5543.4	2108.2	489.8	512.8	532.5	507.3	531.4	507.3	452.5	466.8	426.2
77.5°	4025.8	1423.4	374.7	428.4	437.2	424.1	444.9	417.5	368.2	364.9	348.4
80°	2001.9	833.9	293.7	338.6	335.3	326.5	350.6	337.5	295.9	313.4	310.1
82.5°	579.6	357.2	213.7	237.8	231.2	233.4	250.9	257.5	385.7	382.4	391.2
85°	181.9	140.3	128.2	132.6	126.0	129.3	147.9	293.7	271.7	158.9	172.0
87.5°	47.1	48.2	31.8	34.0	35.1	41.6	47.1	178.6	85.5	55.9	59.2
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)