

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: P457853

Luminaire Tested: **GALN-SA9B-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43062 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

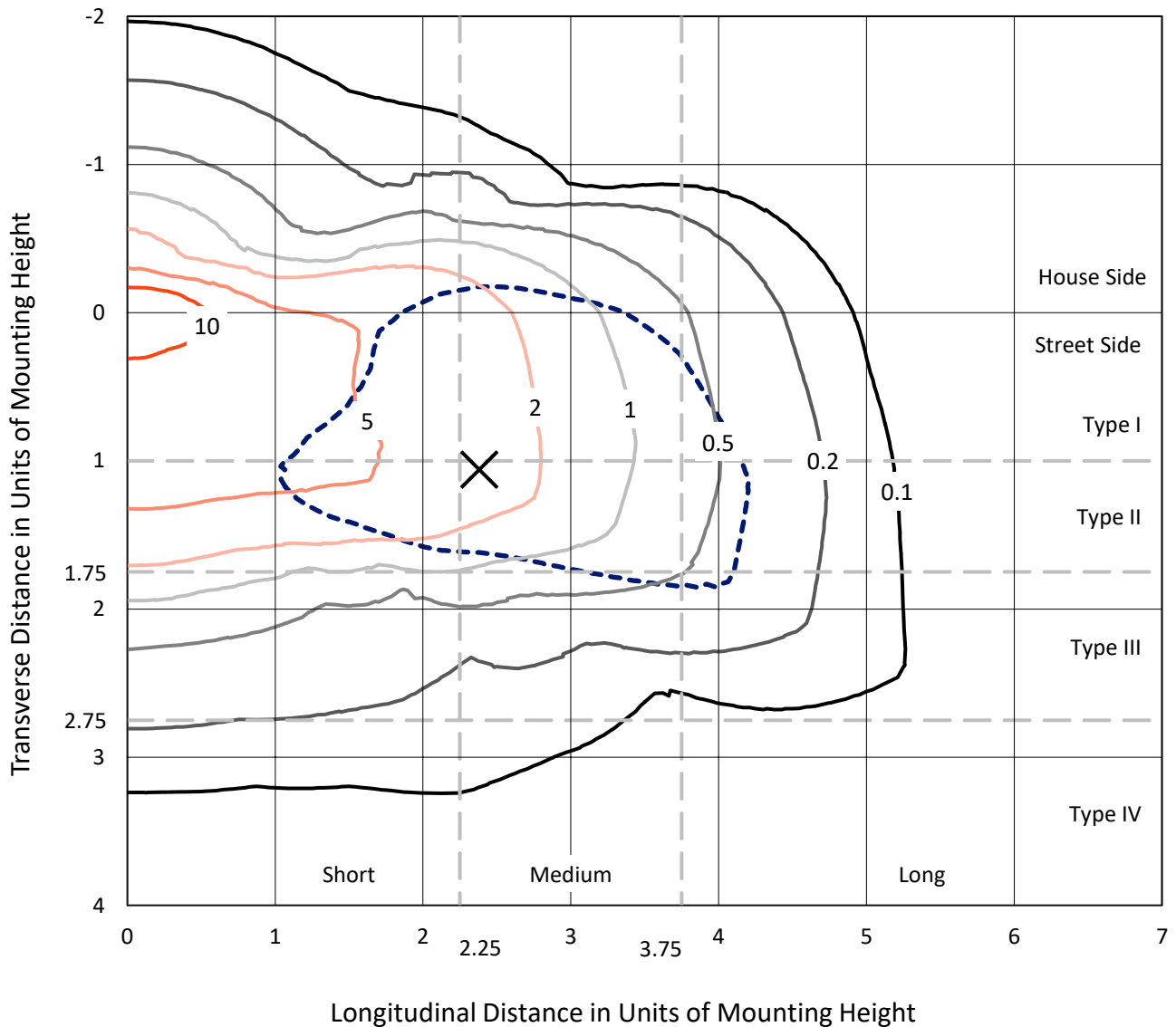
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457853  
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### Iso-Footcandle Lines of Horizontal Illumination

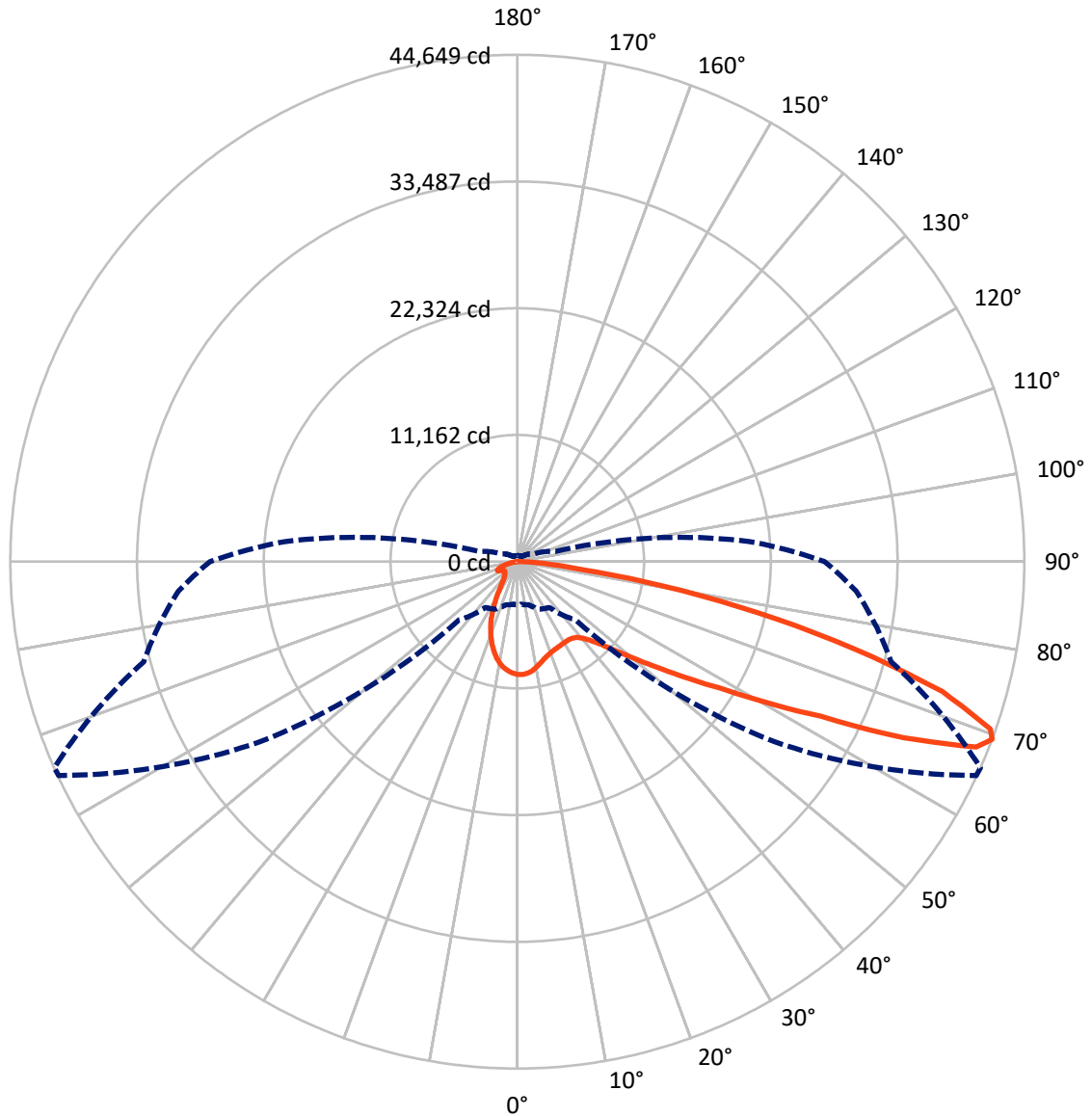
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P457853  
CATALOG NUMBER: GALN-SA9B-727-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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CATALOG NUMBER: GALN-SA9B-727-U-SL2

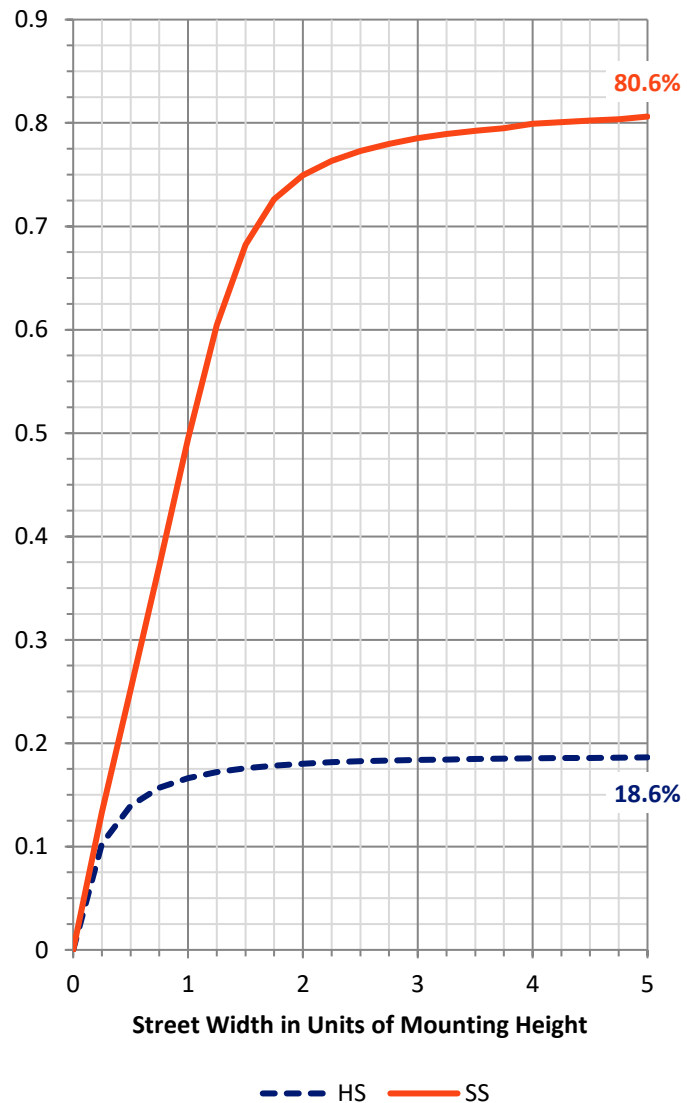
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8098.3	0.0	8098.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	34963.7	0.0	34963.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	43062.0	0.0	43062.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	863.5	2.0
10°-20°	2048.3	4.8
20°-30°	2788.4	6.5
30°-40°	3747.1	8.7
40°-50°	5595.0	13.0
50°-60°	8899.7	20.7
60°-70°	10946.2	25.4
70°-80°	7122.1	16.5
80°-90°	1051.7	2.4
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°	43062.0	100.0
0°-180°	43062.0	100.0



REPORT NUMBER: P457853

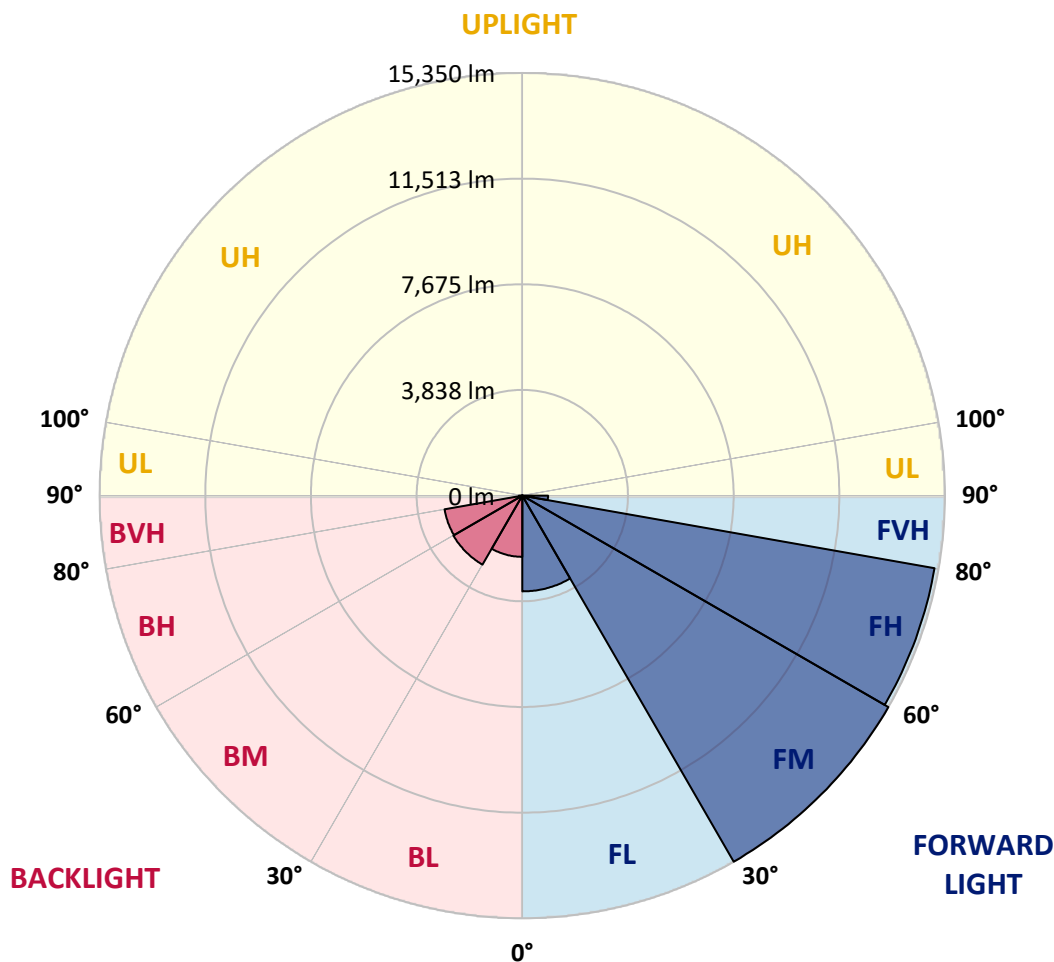
CATALOG NUMBER: GALN-SA9B-727-U-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3477.2	8.1			
FM	(30°-60°)	15350.3	35.6			
FH	(60°-80°)	15201.1	35.3			G5
FVH	(80°-90°)	935.0	2.2			G5
BL	(0°-30°)	2223.0	5.2	B3/2500		
BM	(30°-60°)	2891.5	6.7	B3/5000		
BH	(60°-80°)	2867.2	6.7	B4/5000		G4/5000
BVH	(80°-90°)	116.7	0.3			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 III Medium





REPORT NUMBER: P457853

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2
2.5°	9596.0	9634.2	9677.1	9724.8	9815.4	9865.5	9901.3	9941.8	9946.6	9968.1	9951.4
5°	8887.8	8933.1	8997.5	9088.1	9224.0	9436.3	9655.7	9834.5	9856.0	9956.1	9984.8
7.5°	8296.4	8322.6	8375.1	8520.5	8713.7	8949.8	9269.3	9631.8	9684.3	9922.7	10006.2
10°	7814.7	7840.9	7902.9	8053.1	8243.9	8539.6	8890.2	9367.1	9410.0	9820.2	10011.0
12.5°	7454.6	7478.4	7545.2	7693.1	7912.4	8189.1	8575.4	9080.9	9143.0	9684.3	9965.7
15°	7180.3	7225.7	7280.5	7402.1	7633.4	7900.5	8274.9	8818.6	8868.7	9541.2	9934.7
17.5°	7063.5	7085.0	7123.1	7235.2	7404.5	7666.8	8043.6	8613.5	8673.2	9441.0	9927.5
20°	7068.3	7089.7	7096.9	7158.9	7280.5	7507.0	7879.1	8451.4	8522.9	9352.8	9939.4
22.5°	7230.4	7232.8	7206.6	7185.1	7232.8	7421.2	7762.2	8329.8	8413.2	9314.7	9949.0
25°	7480.8	7523.7	7485.6	7385.4	7297.2	7387.8	7716.9	8263.0	8341.7	9259.8	9937.1
27.5°	7886.2	7893.4	7862.4	7726.4	7497.5	7430.7	7697.8	8212.9	8279.7	9219.3	9877.4
30°	8429.9	8408.5	8379.8	8229.6	7869.5	7595.3	7738.4	8167.6	8236.8	9159.6	9805.9
32.5°	8980.8	9047.6	9021.3	8844.9	8377.5	7914.8	7869.5	8162.8	8220.1	9114.3	9727.2
35°	9565.0	9596.0	9720.1	9629.4	9150.1	8432.3	8115.1	8236.8	8282.1	9116.7	9672.4
37.5°	10022.9	10106.4	10397.3	10476.0	10025.3	9116.7	8513.4	8446.6	8465.7	9233.6	9693.8
40°	10576.2	10719.2	11093.6	11415.6	11119.9	10006.2	9190.6	8835.3	8859.2	9515.0	9834.5
42.5°	11277.3	11377.4	11880.6	12317.0	12269.3	11181.9	10011.0	9472.0	9484.0	10075.4	10228.0
45°	12097.6	12240.7	12805.9	13461.6	13573.7	12512.5	11196.2	10435.5	10428.3	10945.8	10962.5
47.5°	13146.9	13235.1	13795.5	14510.9	14964.0	14184.2	12634.2	11818.6	11742.3	12214.4	12078.5
50°	14112.7	14251.0	14675.5	15457.6	16585.6	16142.1	14525.2	13611.9	13433.0	13874.2	13645.3
52.5°	14518.1	14663.5	15021.2	15991.8	17975.9	18674.6	16926.6	15751.0	15452.9	15791.5	15708.0
55°	13814.6	14003.0	14336.8	15517.3	18586.4	21595.9	20165.1	18223.9	18006.9	17861.4	17885.3
57.5°	11923.5	12102.4	12553.1	13855.1	17856.7	23715.9	24789.0	21402.7	20937.7	20267.6	20382.1
60°	9076.2	9188.3	9422.0	10864.7	15693.7	24266.7	30040.1	25420.9	25125.2	22664.2	22745.3
62.5°	6445.9	6572.2	6734.4	7454.6	11489.5	22714.3	34151.3	31032.1	29975.7	25146.7	25068.0
65°	5234.4	5148.6	5344.1	5680.4	6741.6	17603.9	35076.6	38820.6	37365.9	28416.1	27323.9
67.5°	4304.4	4213.8	4406.9	5005.5	5127.1	10218.5	31742.8	43876.2	43585.2	31971.7	29615.6
69°	3810.8	3763.1	3932.4	4614.4	4922.0	7256.7	27653.0	44579.6	44648.8	34067.9	29968.6
70°	3434.0	3453.1	3617.6	4416.5	4829.0	5983.2	23634.8	43609.1	44195.7	35114.8	29587.0
72.5°	2527.8	2568.3	2797.3	3658.1	4740.8	5077.0	14065.0	38090.9	39128.2	35176.8	27066.4
75°	1767.1	1748.0	1950.7	2754.3	4478.5	5031.7	8260.6	29458.2	30633.9	30405.0	22742.9
77.5°	1156.6	1187.6	1349.7	1945.9	3767.8	4993.6	5384.7	20899.5	21662.6	20334.4	13452.1
80°	815.6	813.2	903.8	1328.3	2794.9	4798.0	4409.3	13173.1	12979.9	7991.1	3989.6
82.5°	467.4	500.8	605.7	934.8	1869.6	4223.3	4056.4	6300.4	5751.9	2277.4	1347.4
85°	259.9	271.9	360.1	565.2	1092.2	3181.2	3541.3	2866.4	2704.3	951.5	579.5
87.5°	83.5	90.6	150.2	286.2	496.0	1502.4	2005.5	1323.5	1221.0	343.4	233.7
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: P457853

CATALOG NUMBER: GALN-SA9B-727-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2	9944.2
2.5°	9958.5	9987.1	9910.8	9836.9	9770.1	9677.1	9593.7	9524.5	9476.8	9469.7	9445.8
5°	9991.9	9994.3	9848.8	9653.3	9462.5	9252.6	9035.6	8880.6	8735.2	8654.1	8613.5
7.5°	10015.8	9994.3	9732.0	9414.8	9047.6	8666.0	8284.5	7979.2	7743.1	7650.1	7685.9
10°	10006.2	9939.4	9555.5	9047.6	8513.4	7943.4	7395.0	6965.7	6572.2	6369.5	6374.3
12.5°	9953.8	9844.1	9293.2	8635.0	7850.4	7087.3	6247.9	5668.4	5213.0	4943.5	4860.0
15°	9908.4	9717.7	8985.6	8074.6	7099.3	6009.5	4986.4	4271.0	3889.5	3677.2	3674.8
17.5°	9860.7	9596.0	8649.3	7480.8	6236.0	4833.8	3760.7	3214.6	3035.7	3057.2	3021.4
20°	9810.7	9453.0	8298.8	6820.3	5184.3	3605.7	2816.3	2594.6	2644.6	2742.4	2756.7
22.5°	9753.4	9300.3	7922.0	6092.9	4077.8	2713.8	2284.5	2251.2	2379.9	2532.6	2554.0
25°	9665.2	9109.6	7447.4	5332.2	3145.4	2186.8	2000.8	2024.6	2151.0	2279.8	2294.1
27.5°	9541.2	8873.5	6968.1	4383.1	2363.2	1876.8	1829.1	1860.1	1922.1	2000.8	2019.8
30°	9374.3	8606.4	6417.2	3562.7	1893.5	1721.8	1702.7	1719.4	1755.1	1788.5	1798.1
32.5°	9207.3	8348.8	5861.6	2728.1	1688.4	1619.2	1600.1	1600.1	1600.1	1604.9	1607.3
35°	9052.3	8105.6	5265.4	2124.8	1581.1	1538.1	1511.9	1483.3	1478.5	1461.8	1461.8
37.5°	8966.5	7883.8	4631.1	1779.0	1502.4	1471.4	1435.6	1387.9	1361.7	1364.1	1359.3
40°	8983.2	7738.4	4054.0	1583.4	1438.0	1404.6	1349.7	1294.9	1278.2	1278.2	1273.4
42.5°	9171.6	7690.7	3500.7	1480.9	1376.0	1337.8	1268.7	1218.6	1209.0	1206.7	1211.4
45°	9605.6	7807.5	3004.7	1414.1	1323.5	1266.3	1197.1	1151.8	1142.3	1142.3	1139.9
47.5°	10452.2	8186.7	2649.4	1371.2	1285.4	1211.4	1139.9	1094.6	1077.9	1073.1	1073.1
50°	11768.5	9009.4	2384.7	1333.0	1237.7	1161.4	1087.4	1035.0	1008.7	1006.3	1004.0
52.5°	13597.6	10292.4	2282.2	1304.4	1185.2	1108.9	1027.8	977.7	944.3	937.2	932.4
55°	15736.7	12083.3	2422.9	1283.0	1130.3	1049.3	965.8	913.3	882.3	868.0	865.6
57.5°	18214.4	14234.3	2957.0	1254.4	1080.3	984.9	903.8	851.3	818.0	801.3	796.5
60°	20439.3	16444.9	3889.5	1237.7	1037.3	915.7	832.3	784.6	753.6	736.9	734.5
62.5°	22883.6	18553.0	5003.1	1283.0	1018.3	849.0	765.5	722.6	696.3	679.6	679.6
65°	25494.9	20663.5	5740.0	1435.6	1046.9	796.5	693.9	658.2	634.3	622.4	620.0
67.5°	27254.8	21393.2	4728.9	1593.0	1118.4	739.3	624.8	596.2	581.9	569.9	569.9
69°	27064.0	20470.3	3488.8	1633.5	1139.9	710.6	586.6	565.2	546.1	541.3	536.6
70°	26460.7	19418.6	2923.6	1607.3	1123.2	684.4	562.8	536.6	519.9	515.1	512.7
72.5°	23568.0	16840.8	2177.2	1397.4	956.3	593.8	498.4	474.6	460.2	453.1	453.1
75°	19580.8	13764.5	1700.3	1111.3	748.8	500.8	426.9	407.8	395.9	391.1	388.7
77.5°	10974.4	7685.9	1221.0	870.4	567.6	405.4	357.7	341.0	329.1	324.3	324.3
80°	3057.2	2196.3	717.8	574.7	386.3	307.6	283.8	271.9	255.2	243.2	250.4
82.5°	1151.8	951.5	410.2	345.8	245.6	205.1	197.9	188.4	181.2	164.5	164.5
85°	560.4	462.6	262.3	183.6	135.9	107.3	102.5	97.8	93.0	81.1	83.5
87.5°	193.2	205.1	114.5	66.8	40.5	26.2	21.5	11.9	11.9	11.9	11.9
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)