

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: P529090

Luminaire Tested: **GALN-SA4B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P529090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 15956 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 164  
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

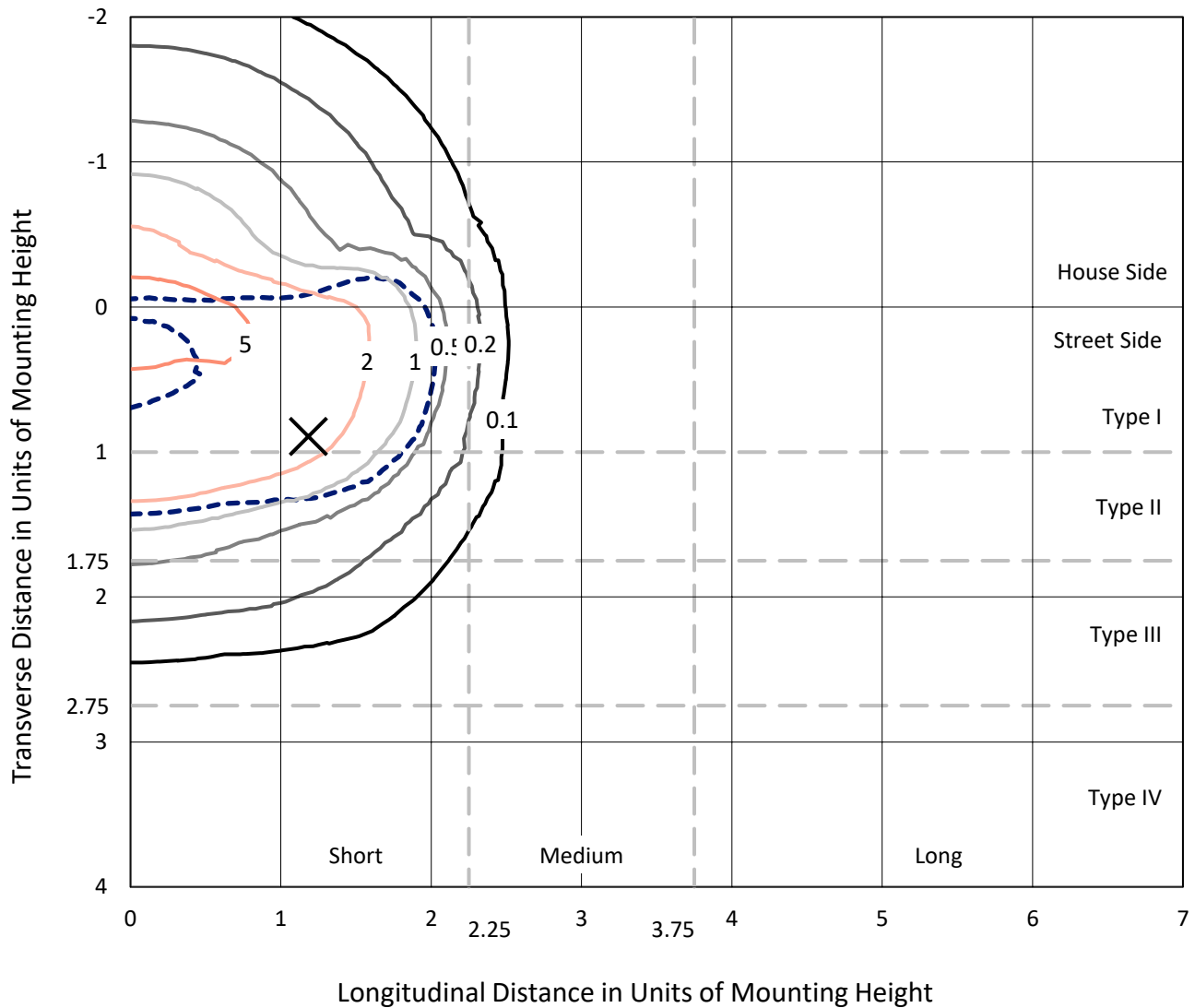


REPORT NUMBER: P529090

CATALOG NUMBER: GALN-SA4B-727-U-SL2-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

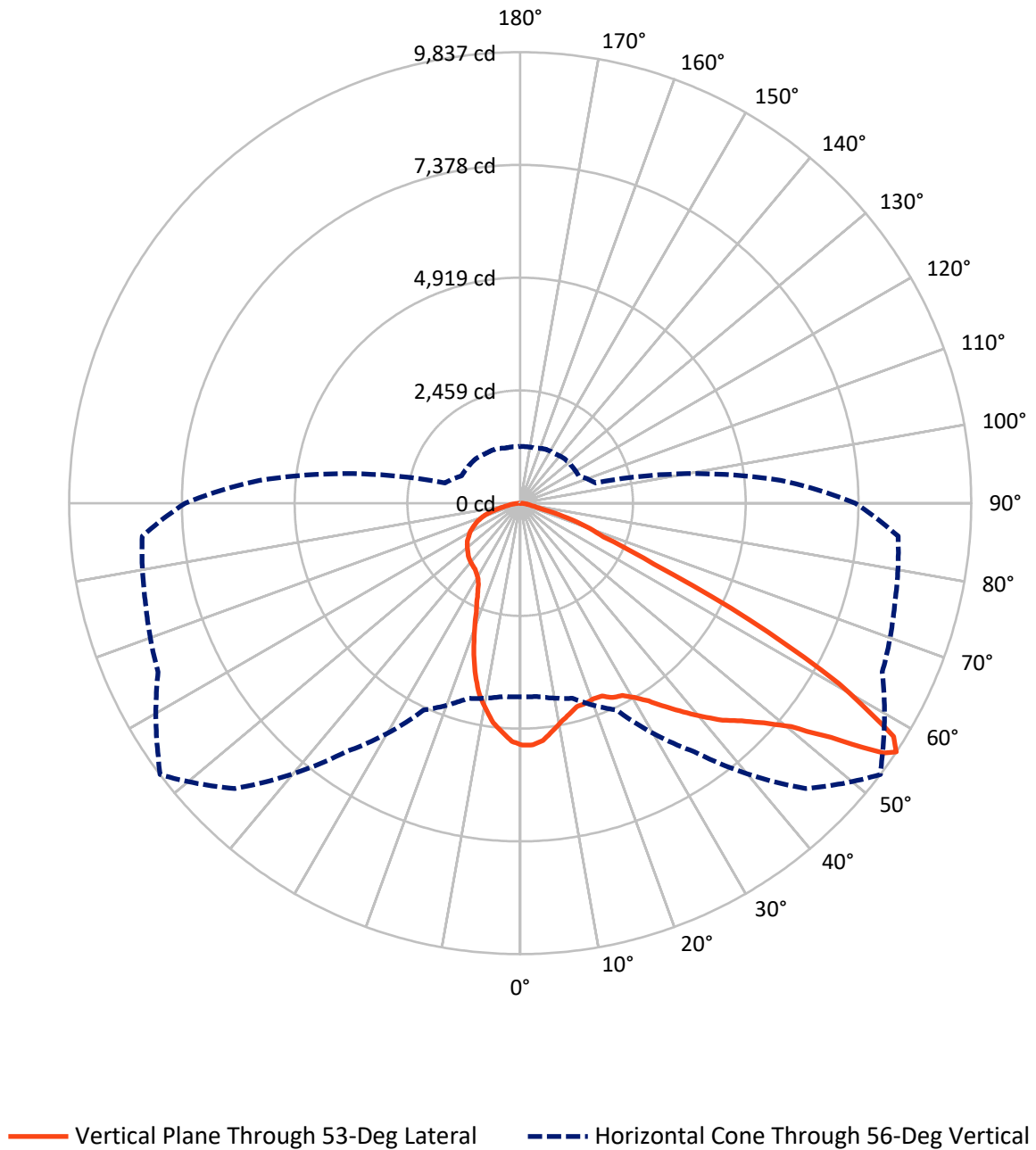


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
Type II - Short - N/A

REPORT NUMBER: P529090

CATALOG NUMBER: GALN-SA4B-727-U-SL2-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P529090

CATALOG NUMBER: GALN-SA4B-727-U-SL2-GRSWH

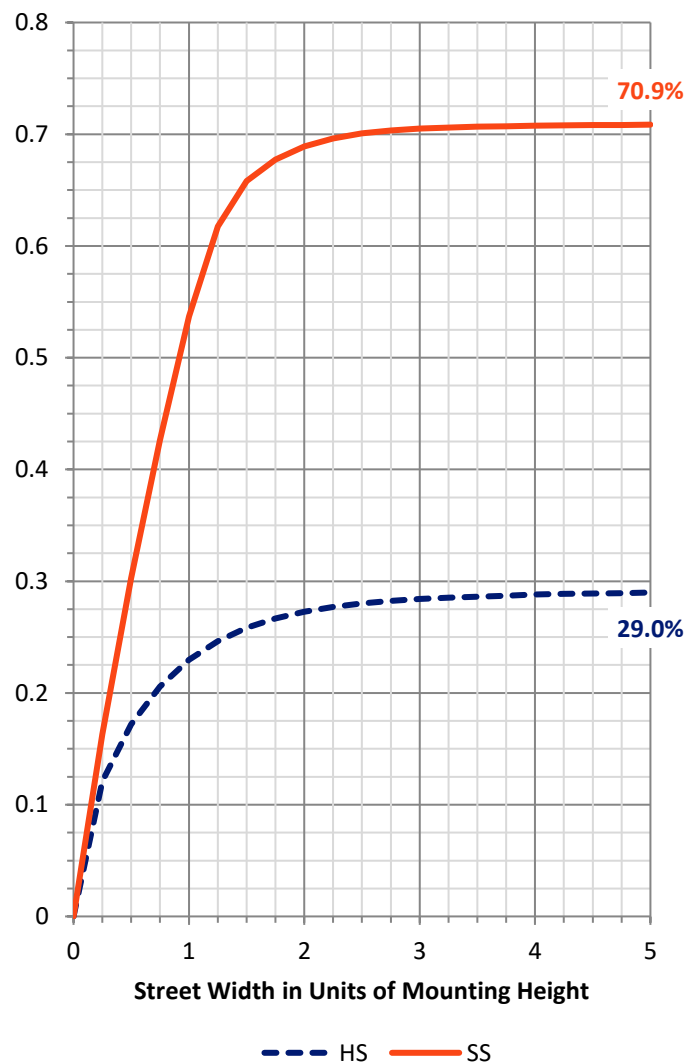
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4656.3	0.0	4656.3
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	11299.7	0.0	11299.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	15956.0	0.0	15956.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.3	2.9
10°-20°	1167.2	7.3
20°-30°	1721.1	10.8
30°-40°	2459.2	15.4
40°-50°	3384.7	21.2
50°-60°	3999.8	25.1
60°-70°	2131.6	13.4
70°-80°	540.8	3.4
80°-90°	84.3	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°	15956.0	100.0
0°-180°	15956.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P529090

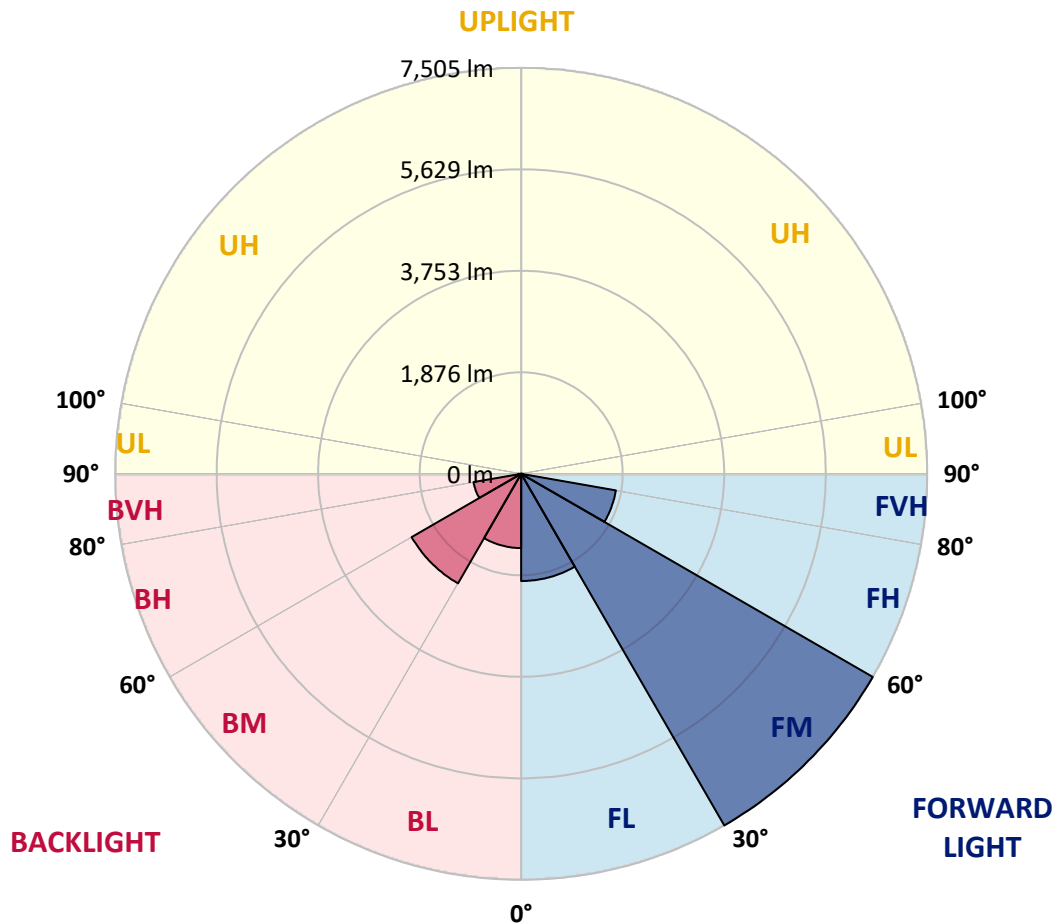
CATALOG NUMBER: GALN-SA4B-727-U-SL2-GRSWH

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1982.3	12.4			
FM	(30°-60°)	7505.4	47.0			
FH	(60°-80°)	1778.1	11.1			G1/1800
FVH	(80°-90°)	33.9	0.2			G1/100
BL	(0°-30°)	1373.3	8.6	B3/2500		
BM	(30°-60°)	2338.2	14.7	B2/2500		
BH	(60°-80°)	894.3	5.6	B2/1000		G2/1000
BVH	(80°-90°)	50.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short



REPORT NUMBER: P529090

CATALOG NUMBER: GALN-SA4B-727-U-SL2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9
2.5°	5213.4	5168.3	5195.0	5184.7	5268.6	5293.2	5280.9	5291.2	5338.2	5315.7	5268.6
5°	4871.5	4935.0	4947.3	4978.0	5027.1	5123.3	5199.0	5219.5	5242.0	5346.4	5336.2
7.5°	4560.4	4603.4	4580.9	4671.0	4777.4	4933.0	5025.1	5041.4	5248.2	5305.5	5348.5
10°	4363.9	4320.9	4423.3	4447.8	4568.6	4746.7	4857.2	4924.8	5113.1	5340.3	5366.9
12.5°	4181.8	4167.4	4228.8	4298.4	4433.5	4617.7	4730.3	4756.9	5047.6	5287.1	5411.9
15°	4046.7	4030.3	4091.7	4142.9	4300.5	4464.2	4607.5	4683.2	4975.9	5256.4	5373.0
17.5°	3940.2	3938.2	3973.0	4065.1	4226.8	4363.9	4595.2	4599.3	4939.1	5303.4	5405.8
20°	3934.1	3932.0	3938.2	4040.5	4187.9	4355.7	4556.3	4593.2	4939.1	5270.7	5407.8
22.5°	3985.3	3952.5	3989.3	4054.8	4161.3	4370.1	4570.7	4652.5	5057.8	5432.4	5499.9
25°	4067.1	4075.3	4095.8	4118.3	4179.7	4402.8	4697.6	4765.1	5197.0	5571.6	5626.8
27.5°	4216.5	4212.5	4220.6	4232.9	4286.1	4433.5	4748.7	4922.7	5487.7	5819.2	5764.0
30°	4435.6	4421.2	4454.0	4497.0	4447.8	4531.8	4918.6	5049.6	5757.8	6069.0	5917.5
32.5°	4634.1	4687.3	4748.7	4767.2	4707.8	4724.2	5143.8	5276.8	5983.0	6376.0	6105.8
35°	4881.8	4924.8	5006.6	5064.0	5053.7	5004.6	5450.8	5626.8	6308.4	6601.2	6304.4
37.5°	5123.3	5174.5	5309.6	5479.5	5385.3	5362.8	5778.3	5923.6	6408.7	6721.9	6449.7
40°	5512.2	5510.2	5743.5	5831.5	5915.4	5876.6	6118.1	6167.2	6462.0	6695.3	6453.8
42.5°	5968.7	5940.0	6177.4	6314.6	6423.1	6427.2	6472.2	6455.8	6486.5	6560.2	6410.8
45°	6402.6	6464.0	6703.5	6949.1	7057.6	7069.9	6771.0	6740.3	6529.5	6521.3	6328.9
47.5°	6932.7	6947.1	7143.6	7467.0	7718.7	7632.8	7157.9	7090.4	6717.8	6781.3	6466.1
50°	6963.4	7069.9	7245.9	7626.6	8400.3	8377.8	7659.4	7532.5	7020.8	7149.7	6848.8
52.5°	6320.7	6296.2	6504.9	7127.2	8349.2	9118.8	8490.4	8187.5	7671.7	7573.4	7469.0
55°	4816.3	4873.6	5057.8	5686.2	7250.0	9129.0	9622.3	9374.7	8367.6	8199.8	8079.0
56°	4224.7	4232.9	4406.9	4980.0	6615.5	8803.6	9837.2	9636.7	8713.5	8457.7	8273.4
57.5°	3502.2	3455.1	3545.2	3858.3	5583.9	8115.8	9601.9	9798.4	9118.8	8736.0	8480.2
60°	2757.1	2746.9	2710.1	2767.4	3528.8	6114.0	7993.0	8435.1	9077.9	8474.0	8122.0
62.5°	2251.6	2200.4	2274.1	2355.9	2452.1	3792.8	5616.6	5876.6	7207.0	6764.9	6101.7
65°	1746.0	1721.4	1813.5	2079.6	2136.9	2409.2	3199.3	3399.8	4255.4	4179.7	3680.3
67.5°	1201.5	1205.6	1285.4	1690.7	1981.4	1956.8	1958.9	2063.2	2220.9	1649.8	1436.9
70°	761.4	759.4	802.4	1088.9	1594.5	1610.9	1529.0	1498.3	1420.5	859.7	910.9
72.5°	489.2	474.9	497.4	601.8	824.9	953.8	982.5	1000.9	822.8	675.5	732.8
75°	276.3	262.0	253.8	280.4	325.5	376.6	413.5	425.7	476.9	511.7	542.4
77.5°	83.9	75.7	92.1	122.8	161.7	217.0	264.0	272.2	321.4	362.3	393.0
80°	36.8	40.9	57.3	81.9	114.6	153.5	186.3	198.5	231.3	262.0	270.2
82.5°	22.5	24.6	38.9	55.3	79.8	108.5	133.0	137.1	169.9	194.5	200.6
85°	8.2	10.2	20.5	32.7	51.2	69.6	69.6	75.7	69.6	69.6	75.7
87.5°	0.0	0.0	2.0	4.1	4.1	6.1	8.2	8.2	10.2	12.3	14.3
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: P529090

CATALOG NUMBER: GALN-SA4B-727-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9	5278.9
2.5°	5293.2	5283.0	5266.6	5207.2	5201.1	5182.7	5080.3	5064.0	5080.3	5031.2	5035.3
5°	5283.0	5313.7	5190.9	5131.5	5021.0	4941.1	4849.0	4802.0	4718.0	4664.8	4724.2
7.5°	5328.0	5315.7	5162.2	5033.2	4867.5	4664.8	4503.1	4411.0	4263.6	4222.7	4253.4
10°	5311.6	5246.1	5066.0	4896.1	4582.9	4404.9	4142.9	3889.0	3749.9	3678.2	3668.0
12.5°	5289.1	5270.7	4969.8	4677.1	4347.5	3973.0	3604.5	3365.1	3137.8	3039.6	3053.9
15°	5315.7	5160.2	4789.7	4419.2	3981.2	3489.9	3092.8	2783.7	2626.1	2562.7	2562.7
17.5°	5303.4	5106.9	4703.7	4130.6	3575.9	2994.6	2558.6	2372.3	2306.8	2306.8	2325.2
20°	5309.6	5141.7	4529.7	3842.0	3096.9	2521.7	2204.5	2136.9	2165.6	2175.8	2186.1
22.5°	5344.4	5027.1	4359.8	3524.7	2652.7	2157.4	2001.8	2003.9	2055.1	2110.3	2100.1
25°	5387.4	4982.1	4153.1	3209.5	2313.0	1979.3	1930.2	1924.1	1962.9	1991.6	1995.7
27.5°	5350.5	4904.3	3942.3	2816.5	2034.6	1860.6	1850.4	1854.5	1866.7	1924.1	1905.6
30°	5471.3	4926.8	3678.2	2486.9	1881.1	1821.7	1809.4	1803.3	1821.7	1838.1	1823.8
32.5°	5620.7	4847.0	3481.7	2169.7	1805.3	1793.1	1768.5	1760.3	1770.5	1754.2	1762.4
35°	5686.2	4832.7	3225.9	1942.5	1746.0	1735.7	1721.4	1719.4	1721.4	1707.1	1694.8
37.5°	5723.0	4900.2	2933.2	1838.1	1709.1	1719.4	1686.6	1682.5	1645.7	1653.9	1660.0
40°	5786.5	4795.8	2695.7	1737.8	1686.6	1666.2	1637.5	1631.4	1606.8	1592.5	1606.8
42.5°	5694.4	4765.1	2462.4	1694.8	1653.9	1631.4	1610.9	1576.1	1567.9	1555.6	1547.4
45°	5620.7	4589.1	2253.6	1641.6	1615.0	1602.7	1563.8	1527.0	1496.3	1508.5	1490.1
47.5°	5676.0	4527.7	2046.9	1596.6	1561.8	1547.4	1508.5	1479.9	1449.2	1434.9	1430.8
50°	5897.0	4642.3	1872.9	1563.8	1516.7	1508.5	1457.4	1424.6	1396.0	1385.7	1389.8
52.5°	6425.1	4955.5	1754.2	1496.3	1473.7	1436.9	1408.2	1367.3	1348.9	1316.1	1336.6
55°	7094.4	5465.1	1723.5	1432.8	1420.5	1387.8	1348.9	1318.2	1283.4	1256.8	1250.6
56°	7309.4	5708.7	1698.9	1408.2	1387.8	1369.4	1318.2	1299.8	1244.5	1238.4	1234.3
57.5°	7483.4	5923.6	1703.0	1361.2	1340.7	1324.3	1293.6	1248.6	1211.7	1189.2	1199.5
60°	7090.4	5545.0	1625.2	1289.5	1285.4	1254.7	1211.7	1191.3	1146.2	1119.6	1113.5
62.5°	5270.7	3764.2	1318.2	1197.4	1195.4	1162.6	1113.5	1091.0	1082.8	1045.9	1045.9
65°	3035.5	2360.0	1140.1	1121.7	1105.3	1072.6	1023.4	1005.0	984.5	972.3	962.0
67.5°	1295.7	1224.0	1035.7	1033.7	1015.2	974.3	925.2	896.5	869.9	845.4	857.6
70°	939.5	953.8	935.4	925.2	902.7	851.5	808.5	773.7	732.8	716.4	728.7
72.5°	745.1	775.8	802.4	804.4	777.8	718.5	671.4	624.3	579.3	556.7	567.0
75°	564.9	585.4	612.0	618.2	579.3	538.3	493.3	444.2	409.4	382.8	386.9
77.5°	407.3	403.2	427.8	423.7	405.3	376.6	335.7	290.7	251.8	227.2	229.2
80°	278.4	284.5	298.8	296.8	274.3	255.9	225.2	188.3	159.7	139.2	135.1
82.5°	194.5	204.7	217.0	206.7	188.3	169.9	147.4	120.8	98.2	81.9	77.8
85°	69.6	79.8	92.1	98.2	104.4	100.3	83.9	67.5	49.1	40.9	38.9
87.5°	14.3	16.4	18.4	18.4	18.4	16.4	14.3	14.3	12.3	6.1	6.1
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)