

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: P454988

Luminaire Tested: **GALN-SA6A-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17184 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 182  
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

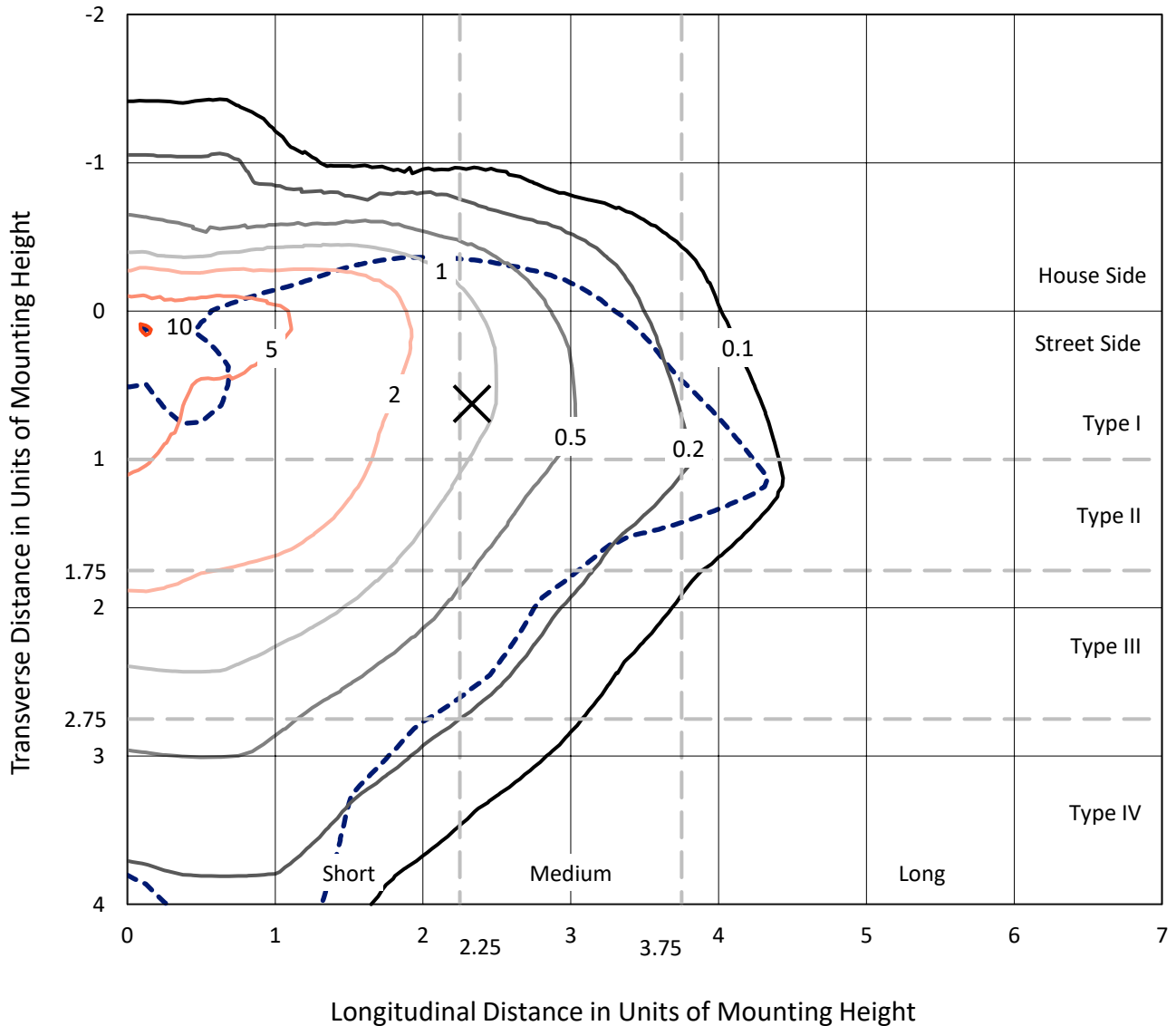




REPORT NUMBER: P454988  
 CATALOG NUMBER: GALN-SA6A-827-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

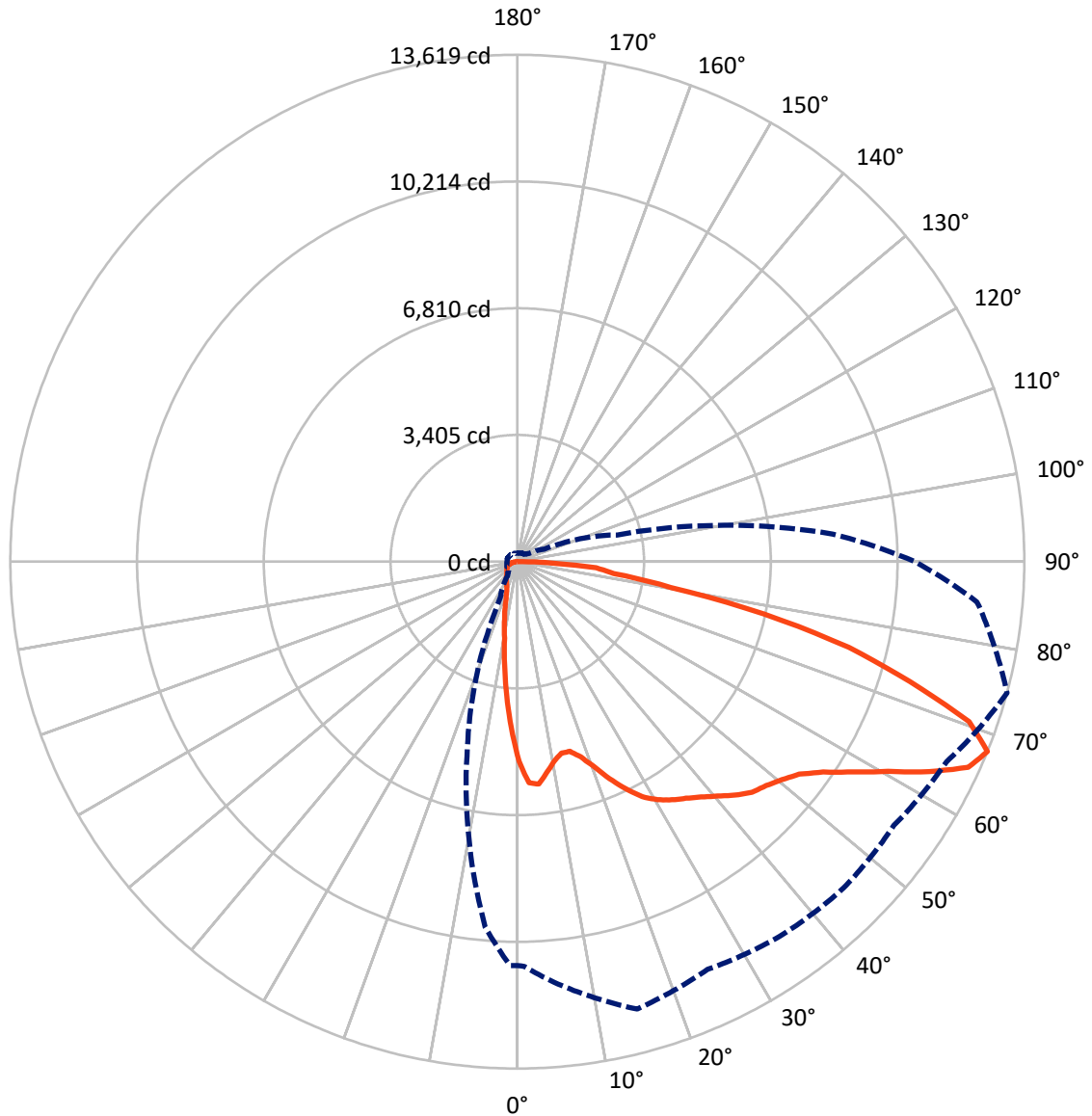
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P454988  
CATALOG NUMBER: GALN-SA6A-827-U-SLL

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P454988

CATALOG NUMBER: GALN-SA6A-827-U-SLL

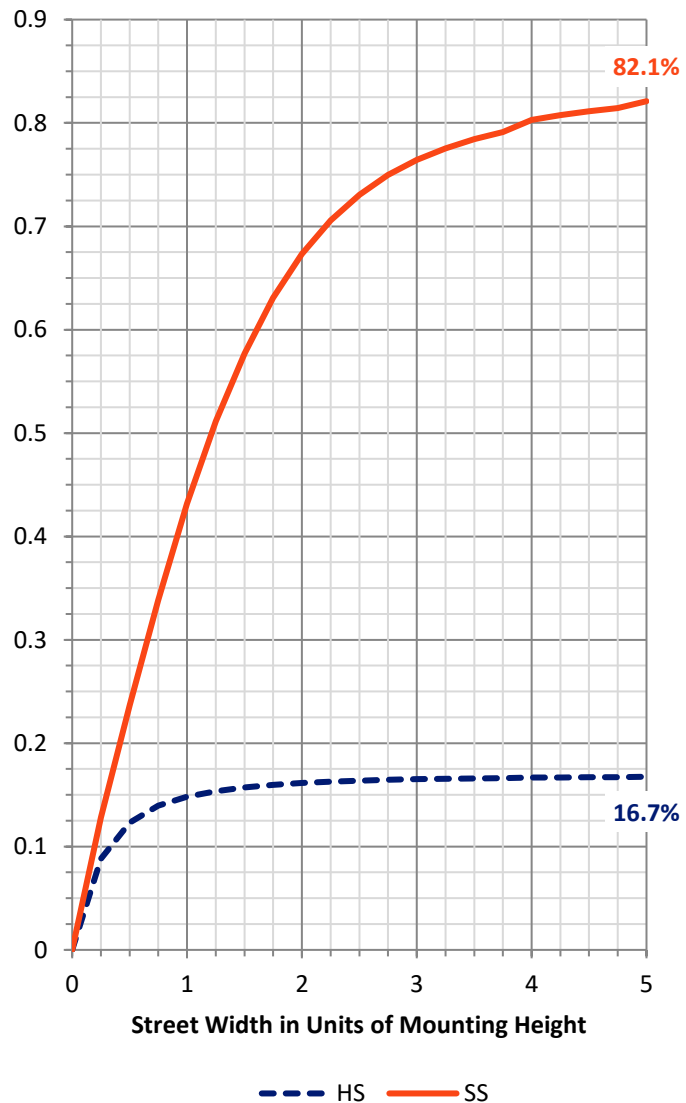
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2904.5	0.0	2904.5
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	14279.5	0.0	14279.5
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	17184.0	0.0	17184.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.2	2.4
10°-20°	849.2	4.9
20°-30°	1222.1	7.1
30°-40°	1760.1	10.2
40°-50°	2472.5	14.4
50°-60°	3448.2	20.1
60°-70°	4099.7	23.9
70°-80°	2414.5	14.1
80°-90°	510.6	3.0
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°	17184.0	100.0
0°-180°	17184.0	100.0



REPORT NUMBER: P454988

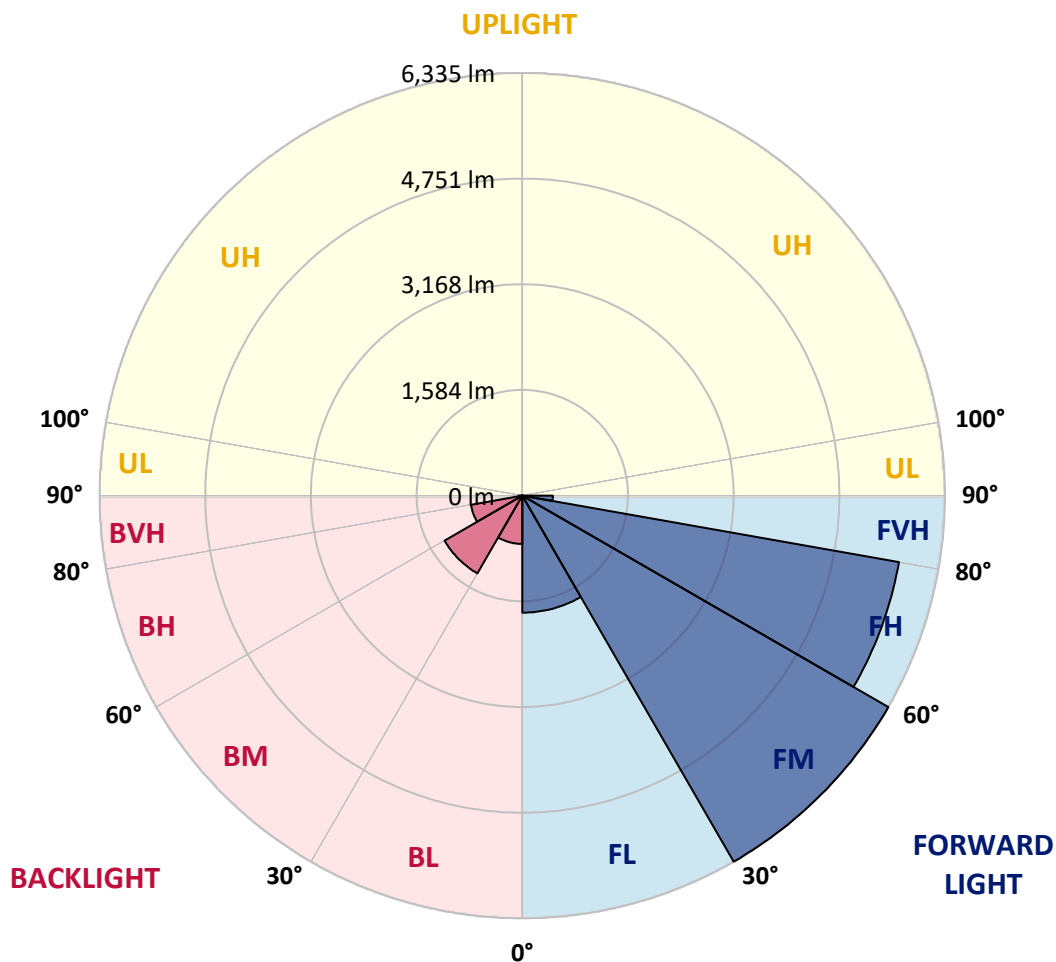
CATALOG NUMBER: GALN-SA6A-827-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.0	10.2			
FM	(30°-60°)	6335.1	36.9			
FH	(60°-80°)	5732.6	33.4			G3/7500
FVH	(80°-90°)	457.8	2.7			G3/500
BL	(0°-30°)	724.5	4.2	B2/1000		
BM	(30°-60°)	1345.6	7.8	B2/2500		
BH	(60°-80°)	781.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	52.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





REPORT NUMBER: P454988  
 CATALOG NUMBER: GALN-SA6A-827-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7
2.5°	5788.5	5796.2	5845.8	5990.2	6089.4	6125.7	6151.1	6103.7	6057.4	5945.0	5775.3
5°	5770.9	5816.1	5945.0	6269.0	6524.6	6634.8	6667.9	6525.7	6291.0	6002.3	5655.2
7.5°	5433.7	5494.3	5692.7	6235.9	6686.6	6944.5	6910.3	6653.6	6230.4	5715.8	5230.9
10°	5033.7	5100.9	5340.0	5996.8	6577.5	6932.4	6932.4	6619.4	6057.4	5445.8	4887.1
12.5°	4716.3	4786.9	5060.1	5751.1	6350.5	6686.6	6742.8	6473.9	5932.9	5275.0	4661.2
15°	4611.7	4680.0	4974.2	5602.3	6110.3	6315.3	6334.0	6245.8	5872.3	5287.1	4651.3
17.5°	4741.7	4829.8	5127.4	5646.4	5889.9	5902.0	5916.4	5985.8	5878.9	5508.6	4851.9
20°	5117.4	5212.2	5523.0	5788.5	5697.1	5571.4	5579.2	5757.7	5957.1	5874.5	5331.2
22.5°	5659.6	5742.2	6060.7	6038.7	5615.5	5356.6	5302.6	5551.6	6072.8	6330.7	5841.4
25°	6244.7	6341.7	6707.6	6410.0	5638.7	5228.7	5194.6	5430.4	6192.9	6757.1	6431.0
27.5°	6914.7	7009.5	7298.2	6784.7	5759.9	5218.8	5178.1	5419.4	6300.9	7151.6	6994.1
30°	7412.8	7499.9	7696.0	7099.8	5908.6	5284.9	5234.3	5506.4	6393.5	7421.6	7542.8
32.5°	7804.0	7894.4	8001.2	7296.0	6104.8	5405.1	5311.4	5665.1	6514.7	7627.7	7949.4
35°	8211.7	8318.6	8310.9	7470.1	6287.7	5543.9	5452.4	5894.3	6705.4	7807.3	8465.2
37.5°	8728.5	8771.5	8716.4	7626.6	6507.0	5794.0	5743.4	6234.8	6976.4	8024.4	9067.9
40°	9253.1	9339.0	9055.8	7816.1	6773.7	6264.6	6259.1	6738.4	7298.2	8278.9	9652.0
42.5°	9702.6	9775.4	9373.2	7981.4	7096.5	6838.7	6880.6	7413.9	7720.2	8574.3	10121.4
45°	10040.9	10106.0	9666.3	8141.2	7521.9	7502.1	7748.9	8137.9	8252.5	8839.8	10396.9
47.5°	10328.6	10391.4	9870.1	8383.6	8047.5	8294.4	8724.1	8892.7	8707.6	8991.9	10705.4
50°	10571.0	10589.7	10010.1	8672.3	8699.9	9265.2	9681.7	9790.8	9157.2	9210.1	10973.2
52.5°	10823.3	10799.1	10251.4	9036.0	9405.1	10186.4	10489.4	10602.9	9588.0	9479.0	11363.3
55°	11388.6	11411.8	10792.5	9494.4	10118.1	11091.1	11490.0	11380.9	10065.2	9973.7	11859.2
57.5°	12071.8	12052.0	11553.9	10211.7	10844.3	11933.0	12230.5	12055.3	10702.1	10653.6	12361.6
60°	12337.4	12363.9	12190.8	10983.1	11560.5	12670.2	12974.3	12702.1	11465.8	11443.7	12740.7
62.5°	12070.7	12219.5	12336.3	11669.6	12171.0	13212.4	13514.3	13203.5	12262.5	12422.3	13006.3
65°	11539.6	11571.6	11969.4	12251.5	12465.2	13301.6	13459.2	13293.9	12928.0	13313.7	12994.2
67.5°	10849.8	10877.3	11343.4	12442.1	12086.2	12287.8	12398.0	12349.5	12722.0	13619.0	12395.8
70°	10193.0	10171.0	10663.5	11956.1	10521.4	10215.1	10306.5	10154.4	10977.6	12873.0	11222.2
72.5°	8914.8	8994.1	9523.0	10605.1	8330.7	7832.6	8032.1	7638.7	8443.1	11025.0	9108.7
75°	6983.0	7001.8	7884.4	8900.4	6284.4	5498.7	5768.7	5604.5	6467.3	9196.9	6289.9
77.5°	4835.3	4793.5	5742.2	6797.9	4481.6	4025.4	4029.8	3951.6	4515.8	6771.5	4273.4
80°	3071.1	3007.2	3594.6	4199.5	3079.9	3294.8	3186.8	3183.5	2940.0	4177.5	2584.1
82.5°	1659.5	1730.1	2271.1	2632.6	2209.4	2546.6	2333.9	2265.6	2017.7	2614.9	1652.9
85°	755.9	822.1	1211.0	1790.7	1678.3	1697.0	1133.9	1337.8	1669.5	2123.5	882.7
87.5°	73.8	94.8	250.1	845.2	573.0	451.8	168.6	325.1	419.8	754.8	70.5
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: P454988  
 CATALOG NUMBER: GALN-SA6A-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7
2.5°	5705.9	5648.6	5453.5	5292.7	5121.9	4991.8	4822.1	4708.6	4630.4	4512.5	4498.1
5°	5443.6	5303.7	4964.3	4618.3	4319.6	4094.8	3866.7	3657.4	3533.9	3495.4	3445.8
7.5°	5001.7	4765.9	4329.6	3932.9	3590.1	3255.2	2997.3	2814.4	2692.1	2620.4	2534.5
10°	4638.1	4364.8	3833.7	3347.7	3065.6	2857.3	2630.3	2434.2	2283.2	2154.3	2083.8
12.5°	4393.5	4084.9	3487.7	3093.2	2875.0	2653.5	2387.9	2167.5	1944.9	1798.4	1735.6
15°	4319.6	3993.5	3380.8	2966.4	2653.5	2363.7	2066.2	1778.5	1558.2	1419.3	1373.0
17.5°	4500.4	4105.9	3379.7	2797.8	2393.4	2047.4	1666.1	1396.2	1170.3	1066.7	1033.6
20°	4837.5	4321.8	3389.6	2631.5	2111.3	1624.3	1212.1	990.7	882.7	838.6	822.1
22.5°	5308.1	4651.3	3419.3	2467.3	1802.8	1247.4	908.0	795.6	757.0	749.3	746.0
25°	5887.7	5059.0	3519.6	2319.6	1542.7	952.1	759.2	708.6	686.5	678.8	677.7
27.5°	6421.0	5585.8	3640.8	2192.9	1291.5	821.0	686.5	643.5	621.5	620.4	622.6
30°	6902.6	6026.6	3742.2	2050.7	1100.8	729.5	639.1	596.2	575.2	574.1	580.7
32.5°	7319.1	6389.1	3817.1	1910.8	995.1	673.3	596.2	549.9	532.2	528.9	532.2
35°	7764.3	6750.5	3783.0	1801.7	934.5	627.0	564.2	519.0	498.1	488.2	488.2
37.5°	8272.3	7123.0	3724.6	1711.3	906.9	588.4	536.6	492.6	471.6	461.7	460.6
40°	8826.6	7495.4	3644.1	1630.9	879.4	565.3	517.9	471.6	446.3	436.4	434.2
42.5°	9315.9	7813.9	3578.0	1578.0	834.2	569.7	501.4	456.2	424.2	411.0	409.9
45°	9741.2	8134.6	3565.9	1547.1	796.7	563.1	497.0	444.1	406.6	392.3	390.1
47.5°	10074.0	8468.5	3635.3	1529.5	755.9	527.8	525.6	436.4	391.2	375.8	373.6
50°	10479.5	8942.3	3794.0	1493.1	718.5	494.8	555.4	435.3	379.1	359.2	353.7
52.5°	11019.5	9559.4	4008.9	1428.1	664.5	463.9	530.0	435.3	364.7	344.9	338.3
55°	11836.0	10346.2	4219.4	1336.7	588.4	423.1	478.2	422.0	343.8	326.2	321.8
57.5°	12377.1	10921.4	4353.8	1209.9	493.7	393.4	412.1	401.1	322.9	304.1	304.1
60°	12404.6	11075.7	4289.9	1050.2	434.2	365.8	358.1	404.4	304.1	284.3	282.1
62.5°	12087.3	10697.7	3957.1	906.9	402.2	336.1	324.0	354.8	285.4	265.6	262.3
65°	11591.4	9733.5	3379.7	838.6	384.6	309.6	292.0	290.9	265.6	246.8	242.4
67.5°	10680.1	8505.9	2776.9	798.9	375.8	279.9	263.4	257.9	242.4	227.0	224.8
70°	9336.8	7124.1	2227.0	782.4	371.4	249.0	235.8	229.2	216.0	203.9	202.8
72.5°	7264.0	5778.6	1838.0	771.4	369.2	220.4	206.1	197.2	189.5	178.5	178.5
75°	5217.7	4251.3	1402.8	695.3	341.6	189.5	174.1	168.6	157.6	148.8	151.0
77.5°	3289.3	2862.9	923.4	511.3	264.5	152.1	138.8	135.5	126.7	114.6	122.3
80°	2221.5	2013.3	538.9	321.8	166.4	111.3	106.9	105.8	95.9	82.6	83.7
82.5°	1511.9	1483.2	279.9	182.9	95.9	65.0	62.8	65.0	54.0	44.1	44.1
85°	590.6	806.6	132.2	71.6	30.9	9.9	14.3	15.4	8.8	4.4	5.5
87.5°	11.0	82.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P454988

CATALOG NUMBER: GALN-SA6A-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7
2.5°	4476.1	4466.2	4482.7	4412.2	4426.5	4453.0	4466.2	4473.9	4583.0	4557.7	4627.1
5°	3492.1	3482.2	3546.1	3554.9	3587.9	3581.3	3613.3	3621.0	3660.7	3675.0	3772.0
7.5°	2540.0	2583.0	2655.7	2693.2	2749.4	2767.0	2750.5	2791.2	2708.6	2768.1	2785.7
10°	2040.8	1989.0	1958.2	2044.1	2055.1	2136.7	2103.6	2077.2	2125.7	2127.9	2174.1
12.5°	1699.2	1587.9	1514.1	1538.3	1564.8	1600.0	1605.5	1658.4	1693.7	1726.8	1754.3
15°	1332.3	1293.7	1226.5	1193.4	1230.9	1245.2	1279.4	1323.4	1360.9	1370.8	1408.3
17.5°	1022.6	1029.2	1018.2	998.4	1021.5	1032.5	1034.7	1035.8	1045.7	1039.1	1094.2
20°	823.2	846.3	873.8	878.3	886.0	891.5	881.6	844.1	845.2	868.3	886.0
22.5°	744.9	749.3	780.2	790.1	814.3	804.4	775.8	758.1	755.9	761.4	770.3
25°	683.2	689.8	711.9	727.3	746.0	728.4	707.5	690.9	688.7	694.2	703.0
27.5°	628.1	638.0	657.9	673.3	690.9	674.4	654.6	640.2	639.1	638.0	643.5
30°	584.0	595.1	609.4	627.0	639.1	624.8	606.1	598.4	597.3	595.1	597.3
32.5°	540.0	557.6	571.9	580.7	592.8	581.8	567.5	563.1	555.4	548.8	545.5
35°	490.4	509.1	531.1	542.2	554.3	543.3	533.3	514.6	501.4	500.3	502.5
37.5°	461.7	469.4	487.1	505.8	517.9	512.4	493.7	474.9	471.6	471.6	473.8
40°	436.4	439.7	447.4	471.6	493.7	477.1	454.0	448.5	448.5	447.4	448.5
42.5°	411.0	414.3	414.3	433.1	468.3	441.9	424.2	424.2	424.2	425.4	428.7
45°	387.9	389.0	387.9	401.1	434.2	412.1	400.0	403.3	405.5	407.7	409.9
47.5°	368.1	369.2	368.1	379.1	395.6	386.8	380.2	384.6	389.0	392.3	394.5
50°	350.4	349.3	351.5	358.1	365.8	368.1	363.6	370.3	372.5	376.9	382.4
52.5°	335.0	333.9	336.1	339.4	350.4	350.4	350.4	355.9	360.3	364.7	372.5
55°	317.4	318.5	321.8	326.2	340.5	338.3	339.4	343.8	348.2	354.8	359.2
57.5°	300.8	303.0	307.4	314.1	328.4	327.3	328.4	330.6	336.1	339.4	343.8
60°	282.1	286.5	292.0	296.4	310.7	309.6	315.2	319.6	322.9	322.9	325.1
62.5°	263.4	270.0	275.5	278.8	294.2	295.3	303.0	306.3	308.5	306.3	309.6
65°	244.6	254.5	256.8	261.2	276.6	277.7	286.5	294.2	292.0	289.8	295.3
67.5°	225.9	238.0	236.9	242.4	257.9	260.1	267.8	281.0	276.6	274.4	278.8
70°	205.0	213.8	214.9	218.2	239.1	235.8	247.9	260.1	256.8	257.9	257.9
72.5°	181.8	189.5	189.5	196.1	218.2	212.7	222.6	235.8	235.8	234.7	234.7
75°	154.3	158.7	163.1	173.0	196.1	189.5	196.1	208.3	210.5	208.3	208.3
77.5°	124.5	131.1	133.3	146.6	163.1	162.0	168.6	174.1	178.5	176.3	176.3
80°	88.2	94.8	103.6	117.9	127.8	131.1	134.4	138.8	141.0	141.0	143.3
82.5°	49.6	59.5	67.2	81.5	86.0	102.5	101.4	104.7	101.4	89.3	99.2
85°	11.0	20.9	29.8	37.5	43.0	59.5	62.8	70.5	58.4	54.0	54.0
87.5°	0.0	0.0	0.0	0.0	0.0	8.8	17.6	24.2	20.9	17.6	17.6
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: P454988  
 CATALOG NUMBER: GALN-SA6A-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7	5368.7
2.5°	4685.5	4781.4	4897.1	5096.5	5236.5	5387.4	5539.5	5701.5	5744.5	5788.5
5°	3798.4	3986.8	4089.3	4357.1	4638.1	4995.1	5287.1	5606.7	5740.0	5770.9
7.5°	2877.2	3005.0	3273.9	3545.0	3893.2	4267.8	4715.2	5213.3	5368.7	5433.7
10°	2281.0	2455.1	2691.0	2981.9	3287.1	3690.4	4195.1	4776.9	4997.3	5033.7
12.5°	1941.6	2135.6	2392.3	2699.8	2988.5	3292.6	3801.7	4402.3	4638.1	4716.3
15°	1552.6	1787.4	2083.8	2407.8	2721.8	3054.6	3570.3	4248.0	4520.2	4611.7
17.5°	1219.9	1409.4	1730.1	2081.6	2454.0	2875.0	3521.8	4321.8	4656.8	4741.7
20°	933.3	1068.9	1338.9	1710.2	2146.6	2697.6	3533.9	4600.6	5001.7	5117.4
22.5°	806.6	876.0	1040.2	1394.0	1882.1	2543.3	3583.5	4983.0	5466.8	5659.6
25°	730.6	767.0	859.5	1090.9	1629.8	2393.4	3697.0	5497.6	6116.9	6244.7
27.5°	665.6	692.0	749.3	915.7	1400.6	2254.6	3829.3	6068.4	6724.1	6914.7
30°	603.9	639.1	693.1	813.2	1254.0	2127.9	3995.7	6531.2	7235.4	7412.8
32.5°	556.5	591.7	641.3	741.6	1129.5	1994.5	4094.8	6937.9	7653.0	7804.0
35°	517.9	547.7	599.5	684.3	1034.7	1893.1	4075.0	7260.7	8057.4	8211.7
37.5°	490.4	515.7	567.5	630.3	963.1	1787.4	4065.1	7687.2	8550.0	8728.5
40°	465.0	491.5	538.9	595.1	891.5	1662.8	4070.6	8110.3	9074.5	9253.1
42.5°	445.2	474.9	513.5	585.1	817.6	1562.6	4070.6	8478.4	9530.7	9702.6
45°	428.7	460.6	498.1	584.0	759.2	1486.5	4043.0	8794.6	9894.4	10040.9
47.5°	414.3	449.6	503.6	564.2	744.9	1431.4	4018.8	9048.1	10190.8	10328.6
50°	404.4	446.3	535.5	541.1	749.3	1414.9	4135.6	9367.7	10452.0	10571.0
52.5°	396.7	447.4	534.4	506.9	741.6	1425.9	4379.1	9866.8	10814.5	10823.3
55°	381.3	446.3	506.9	468.3	709.7	1444.7	4692.1	10591.9	11382.0	11388.6
57.5°	365.8	434.2	470.5	435.3	644.6	1444.7	5069.0	11278.4	12066.3	12071.8
60°	350.4	451.8	413.2	406.6	559.8	1418.2	5466.8	11580.4	12281.2	12337.4
62.5°	335.0	455.1	369.2	381.3	498.1	1354.3	5763.2	11246.5	11990.3	12070.7
65°	317.4	366.9	340.5	354.8	466.1	1247.4	5669.5	10634.9	11443.7	11539.6
67.5°	296.4	310.7	309.6	327.3	455.1	1089.8	5175.8	9861.3	10855.3	10849.8
70°	271.1	278.8	282.1	300.8	434.2	967.5	4313.0	8857.5	10069.6	10193.0
72.5°	244.6	251.2	254.5	271.1	413.2	898.1	3347.7	7474.5	8721.9	8914.8
75°	216.0	220.4	224.8	239.1	391.2	795.6	2384.6	5705.9	6680.0	6983.0
77.5°	186.2	186.2	191.7	206.1	329.5	656.8	1600.0	4002.3	4525.7	4835.3
80°	151.0	152.1	149.9	165.3	242.4	449.6	909.1	2673.3	3011.6	3071.1
82.5°	115.7	112.4	113.5	121.2	180.7	306.3	484.9	1660.6	1692.6	1659.5
85°	72.7	72.7	70.5	79.3	115.7	159.8	264.5	1017.1	794.5	755.9
87.5°	29.8	24.2	27.5	32.0	55.1	65.0	103.6	209.4	80.4	73.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)