

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: STREETWORKS

Report Number: P319268

Luminaire Tested: **GAN-SA4A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 15401 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

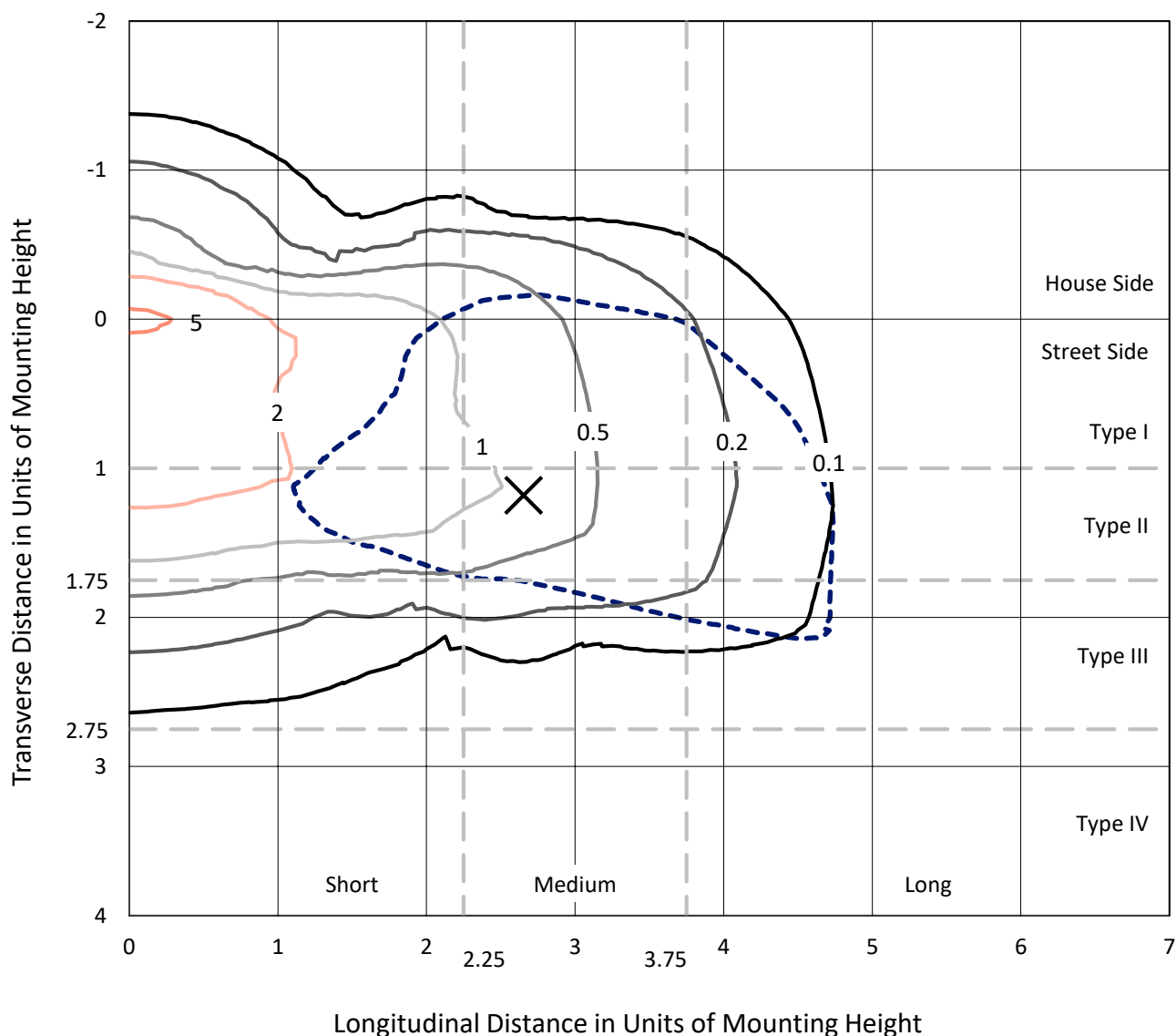
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319268
 CATALOG NUMBER: GAN-SA4A-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

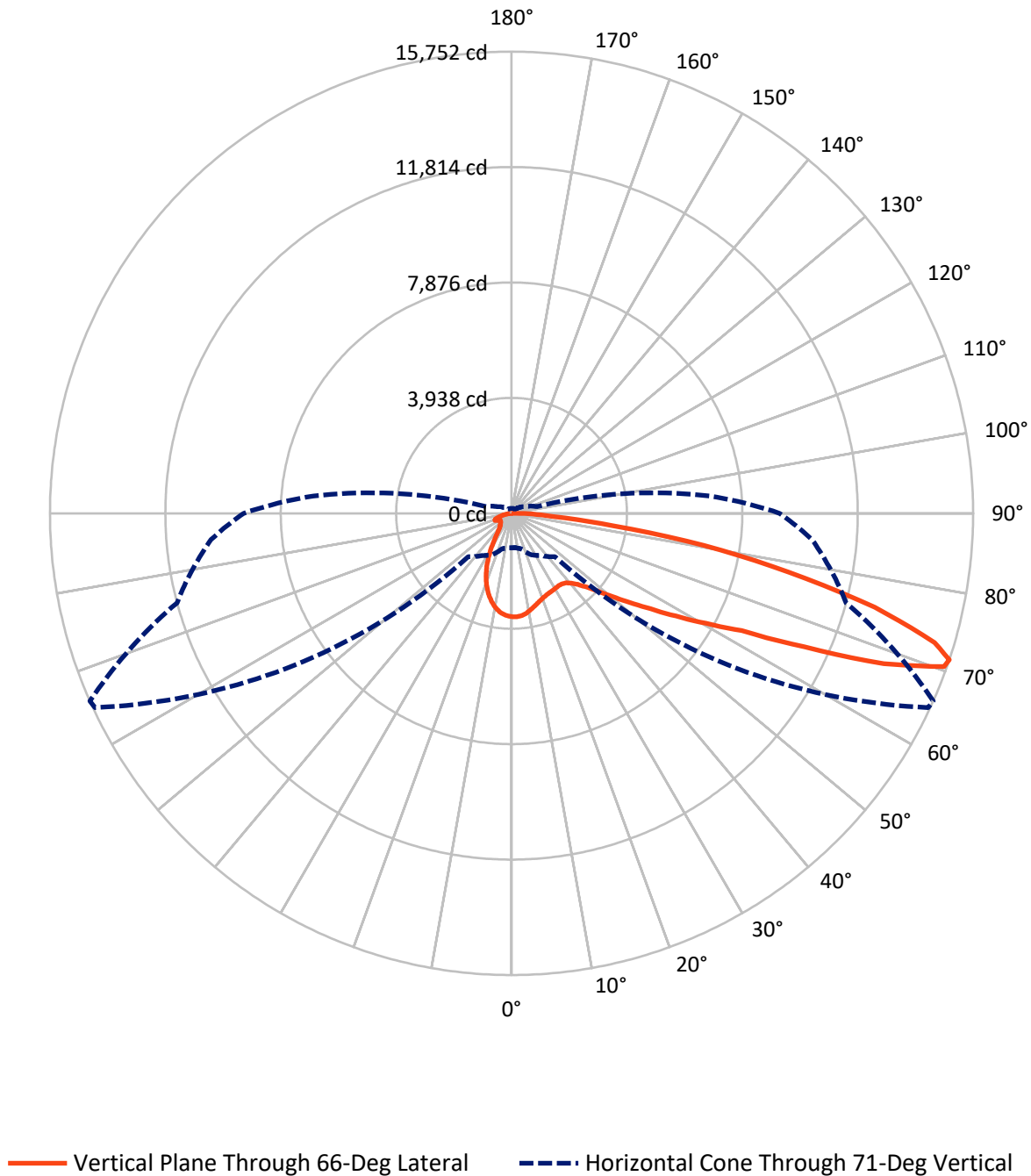
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P319268
CATALOG NUMBER: GAN-SA4A-727-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P319268

CATALOG NUMBER: GAN-SA4A-727-U-SL2

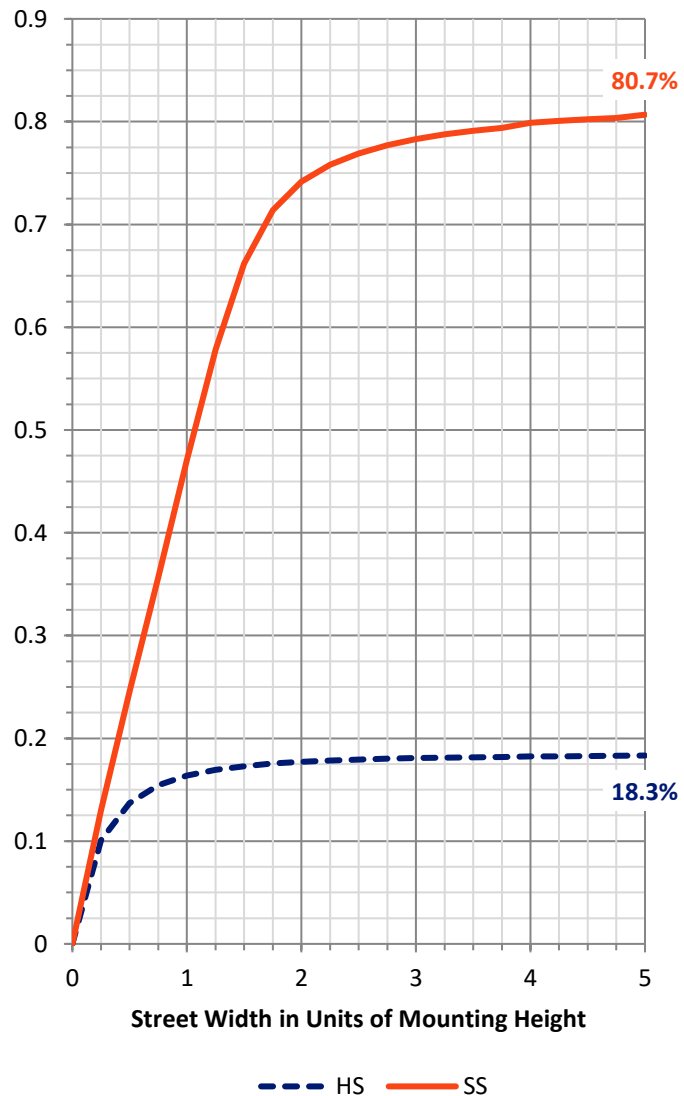
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2854.2	0.0	2854.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	12546.8	0.0	12546.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	15401.0	0.0	15401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	2.0
10°-20°	744.8	4.8
20°-30°	1000.5	6.5
30°-40°	1316.2	8.5
40°-50°	1914.7	12.4
50°-60°	2990.9	19.4
60°-70°	3746.6	24.3
70°-80°	2857.8	18.6
80°-90°	518.9	3.4
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°	15401.0	100.0
0°-180°	15401.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319268

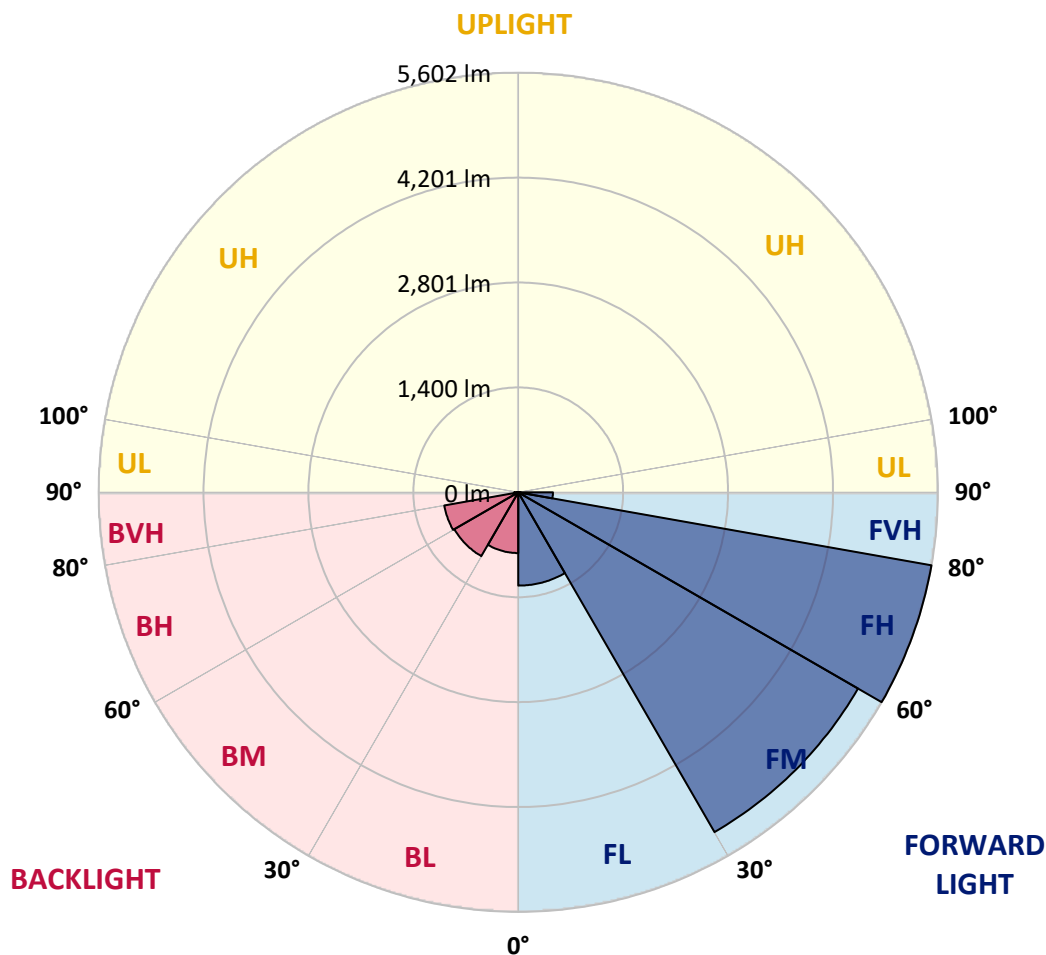
CATALOG NUMBER: GAN-SA4A-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.4	8.1			
FM	(30°-60°)	5237.1	34.0			
FH	(60°-80°)	5601.5	36.4			G3/7500
FVH	(80°-90°)	462.8	3.0			G3/500
BL	(0°-30°)	810.5	5.3	B2/1000		
BM	(30°-60°)	984.6	6.4	B1/1000		
BH	(60°-80°)	1002.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	56.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





REPORT NUMBER: P319268

CATALOG NUMBER: GAN-SA4A-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1
2.5°	3462.7	3457.3	3473.3	3489.8	3496.2	3506.8	3522.8	3531.8	3531.3	3532.9	3527.5
5°	3233.0	3226.0	3257.9	3284.0	3334.0	3390.4	3458.9	3507.9	3508.9	3536.6	3544.0
7.5°	3015.5	3010.7	3047.4	3089.4	3147.3	3233.5	3344.6	3449.9	3456.3	3531.3	3557.3
10°	2841.1	2840.0	2875.6	2921.4	2988.9	3085.1	3212.8	3367.0	3376.5	3505.7	3559.4
12.5°	2704.9	2707.1	2737.9	2790.0	2861.3	2961.8	3100.0	3273.9	3289.3	3465.3	3547.2
15°	2604.4	2613.0	2637.9	2690.6	2760.8	2862.9	3004.8	3187.8	3211.2	3420.1	3540.3
17.5°	2547.0	2556.6	2574.1	2617.7	2683.7	2782.0	2916.6	3117.0	3138.3	3385.6	3540.8
20°	2530.0	2538.0	2548.1	2574.7	2630.5	2719.8	2846.9	3053.2	3076.1	3357.9	3546.1
22.5°	2563.5	2569.4	2570.4	2568.3	2602.3	2675.2	2796.4	3006.4	3030.9	3339.8	3549.9
25°	2635.3	2643.3	2637.4	2617.7	2606.6	2651.2	2770.3	2975.6	3000.1	3326.5	3542.4
27.5°	2743.2	2744.3	2739.5	2714.0	2661.3	2653.9	2762.4	2957.5	2980.9	3311.1	3527.0
30°	2890.0	2896.9	2888.4	2853.8	2767.7	2696.4	2771.9	2940.0	2961.2	3291.4	3502.0
32.5°	3061.7	3078.8	3078.2	3042.1	2918.7	2791.6	2811.3	2929.3	2945.8	3270.7	3471.7
35°	3239.9	3263.3	3306.9	3291.4	3138.8	2942.1	2886.8	2946.4	2957.5	3268.1	3450.4
37.5°	3424.9	3448.3	3538.2	3579.6	3401.0	3157.5	3005.9	3006.4	3011.8	3300.5	3448.8
40°	3618.5	3643.5	3778.5	3886.5	3740.8	3430.2	3197.9	3131.9	3126.1	3380.2	3480.2
42.5°	3889.7	3912.0	4074.2	4211.9	4117.8	3779.6	3463.2	3325.5	3313.2	3536.6	3580.7
45°	4232.6	4251.8	4424.0	4571.3	4522.9	4178.4	3796.6	3591.9	3589.8	3797.1	3784.4
47.5°	4640.5	4655.4	4810.1	4952.6	4970.1	4637.3	4215.6	4002.9	3968.3	4154.5	4099.7
50°	5065.3	5081.8	5187.1	5340.2	5470.5	5251.4	4754.8	4506.5	4460.2	4626.1	4546.3
52.5°	5346.6	5368.4	5459.9	5654.0	6033.1	5924.6	5392.3	5116.9	5046.7	5197.7	5136.6
55°	5221.1	5270.0	5409.9	5721.0	6482.9	6953.0	6178.8	5828.9	5749.7	5875.2	5839.0
57.5°	4650.6	4717.6	4908.5	5388.6	6546.2	7859.1	7367.7	6667.4	6611.6	6575.5	6591.9
60°	3607.8	3672.2	3908.8	4534.6	6105.4	8520.5	9157.0	7701.1	7620.3	7278.4	7293.3
62.5°	2553.4	2521.0	2683.1	3141.0	4961.1	8598.2	11193.1	9083.7	8817.8	8020.7	7955.3
65°	1947.2	1939.8	2012.6	2158.3	3004.8	7669.2	12405.9	11407.3	10992.1	8893.8	8739.6
67.5°	1600.0	1586.7	1658.5	1870.6	1935.0	4947.8	12432.5	14103.2	13695.4	9980.7	9646.8
70°	1315.5	1300.6	1367.6	1641.5	1788.2	2509.3	10463.5	15682.0	15660.2	11356.8	10331.6
71°	1179.4	1168.8	1249.0	1553.2	1756.9	2091.3	9034.2	15686.2	15751.6	11822.6	10291.2
72.5°	960.3	964.0	1049.1	1382.5	1733.5	1846.7	6639.8	14955.1	15093.3	12266.6	9923.8
75°	638.1	641.3	752.9	1063.5	1680.8	1806.8	3649.3	12549.0	12803.1	12000.8	9055.5
77.5°	428.6	427.5	503.6	729.5	1464.4	1806.8	2139.7	9385.7	9664.8	9548.9	6981.2
80°	295.1	293.0	346.7	503.6	1108.7	1828.6	1654.2	6577.6	6662.1	5156.8	2837.3
82.5°	180.8	182.4	226.5	355.7	754.5	1645.7	1561.7	3586.6	3494.6	1446.3	708.8
85°	103.7	103.2	144.6	240.9	484.4	1388.9	1522.9	1543.6	1416.0	435.5	256.3
87.5°	37.2	39.9	77.6	133.5	277.6	967.2	1292.1	802.9	723.7	196.7	115.9
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: P319268

CATALOG NUMBER: GAN-SA4A-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1	3528.1
2.5°	3523.8	3527.0	3523.3	3502.0	3483.9	3454.7	3438.2	3415.3	3408.4	3405.2	3413.7
5°	3537.1	3538.2	3506.8	3451.0	3388.2	3314.3	3261.1	3195.7	3164.9	3151.6	3160.1
7.5°	3549.3	3544.6	3476.0	3369.1	3253.2	3124.5	3010.2	2905.4	2844.3	2819.3	2821.4
10°	3550.9	3530.7	3420.7	3255.3	3075.6	2886.8	2711.3	2549.7	2447.6	2381.1	2401.3
12.5°	3534.5	3500.4	3339.3	3108.0	2858.6	2601.3	2364.1	2121.6	1975.9	1908.4	1910.5
15°	3521.7	3460.0	3239.3	2934.7	2599.7	2258.8	1935.0	1650.0	1494.7	1425.6	1393.1
17.5°	3511.1	3416.4	3123.4	2739.5	2293.9	1861.6	1472.4	1218.2	1133.1	1112.9	1104.4
20°	3496.2	3370.1	2994.2	2513.5	1945.6	1417.1	1075.2	949.7	950.2	973.6	976.8
22.5°	3475.4	3317.5	2856.5	2259.9	1571.8	1032.1	842.8	806.6	843.3	888.0	896.0
25°	3444.6	3255.3	2703.3	1979.7	1198.5	793.4	720.0	718.4	763.0	809.8	816.7
27.5°	3401.0	3173.9	2533.2	1678.7	883.2	674.2	645.0	656.2	689.1	723.2	725.8
30°	3342.5	3079.3	2345.5	1361.2	692.3	600.3	597.1	607.2	627.4	651.4	653.5
32.5°	3278.2	2983.0	2145.0	1053.9	592.9	560.5	563.6	568.4	578.0	587.6	589.7
35°	3219.7	2884.7	1939.8	800.8	545.6	534.4	532.3	531.2	532.3	529.1	529.6
37.5°	3181.9	2803.3	1726.0	637.6	518.4	511.5	505.1	497.2	488.1	482.8	483.9
40°	3168.1	2742.7	1509.6	550.9	496.1	491.3	479.1	462.1	451.4	448.3	448.3
42.5°	3205.3	2711.3	1300.6	507.3	477.5	469.5	449.3	429.6	421.7	421.1	420.6
45°	3319.1	2724.1	1101.8	483.3	460.5	445.1	418.5	402.0	396.7	397.7	397.2
47.5°	3523.3	2804.4	931.6	467.4	443.5	423.3	393.5	380.2	373.8	373.8	374.3
50°	3870.5	2992.1	796.0	454.1	429.1	403.1	375.4	358.9	350.4	349.9	349.9
52.5°	4376.2	3328.1	711.5	442.9	413.2	385.0	357.3	336.6	326.5	324.4	323.3
55°	5010.0	3809.9	688.1	435.5	391.9	365.3	335.5	314.8	303.6	298.8	298.3
57.5°	5718.8	4395.9	734.3	426.5	370.1	341.9	311.6	291.9	280.2	274.4	273.8
60°	6436.1	5035.5	923.1	413.7	352.0	316.4	287.1	269.1	257.4	251.0	249.9
62.5°	7154.5	5709.8	1308.6	412.6	339.2	291.9	262.1	246.7	235.6	228.6	227.1
65°	7964.9	6447.8	1746.8	440.8	335.0	269.6	236.6	224.4	214.8	208.4	207.9
67.5°	8895.4	7281.1	1704.7	498.8	349.4	249.4	212.7	203.1	196.2	190.9	190.4
70°	9332.0	7150.8	1059.8	539.7	369.6	229.7	189.8	182.9	177.6	173.9	172.3
71°	9149.1	6789.7	888.5	534.9	367.4	221.2	180.8	175.5	170.2	167.0	165.4
72.5°	8650.3	6192.1	741.2	497.7	343.5	205.8	169.1	163.8	159.0	155.3	154.2
75°	7762.3	5530.1	593.4	397.7	273.8	173.9	148.4	142.5	138.8	136.7	134.5
77.5°	5706.1	3946.5	458.9	314.3	201.5	142.0	126.6	122.3	118.6	115.4	113.8
80°	2186.0	1528.7	308.9	234.5	147.8	112.2	102.1	100.0	96.2	94.1	94.1
82.5°	588.6	456.8	164.8	142.0	98.9	81.9	78.2	77.1	73.9	69.7	70.2
85°	238.2	201.5	92.5	78.2	60.6	48.4	52.6	53.2	49.5	44.1	44.7
87.5°	104.8	85.6	51.6	34.6	26.6	18.6	23.9	23.9	21.8	18.1	16.5
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)