

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: P321053

Luminaire Tested: **GAN-SA9C-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64870 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 501
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

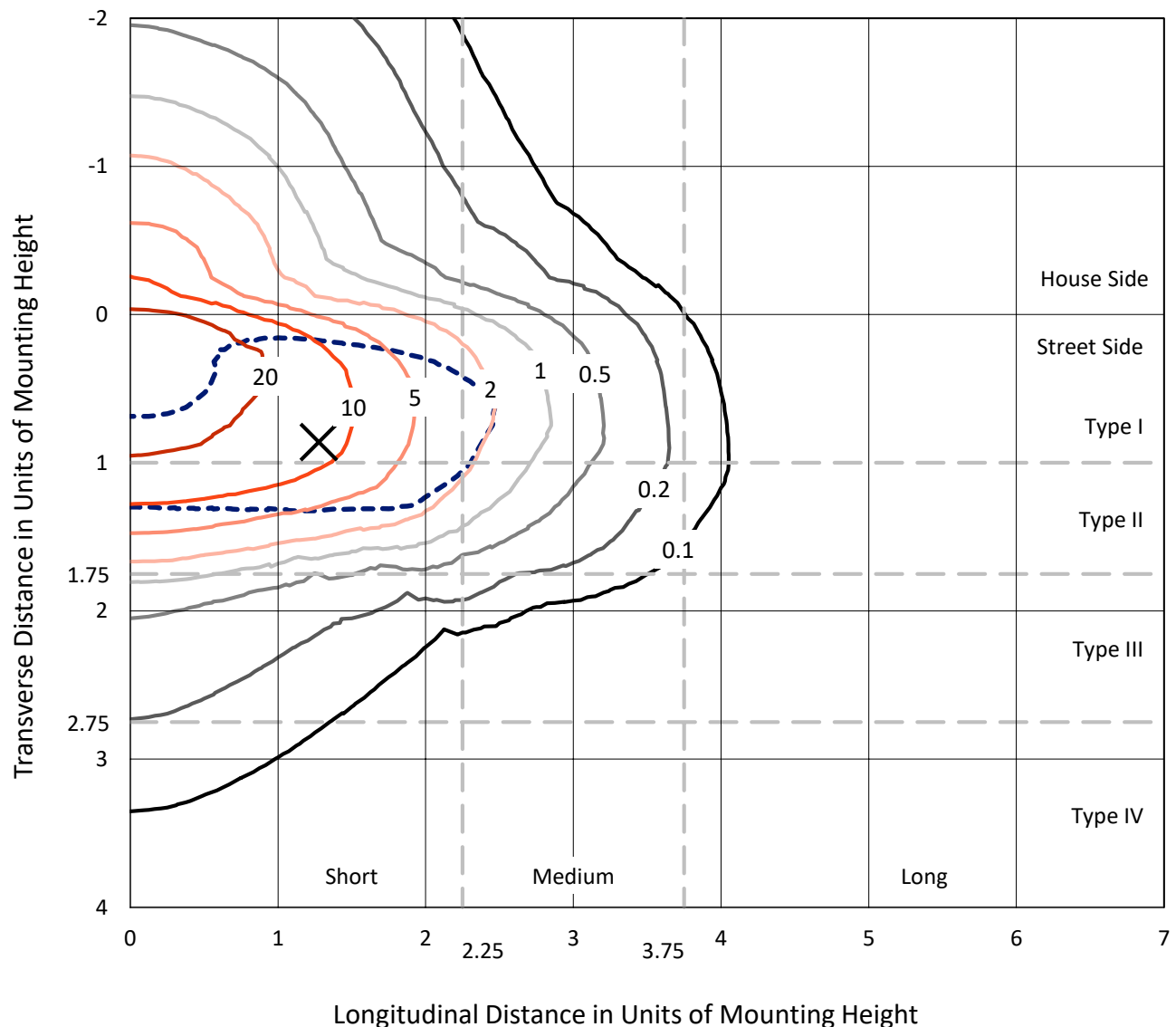


REPORT NUMBER: P321053

CATALOG NUMBER: GAN-SA9C-760-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

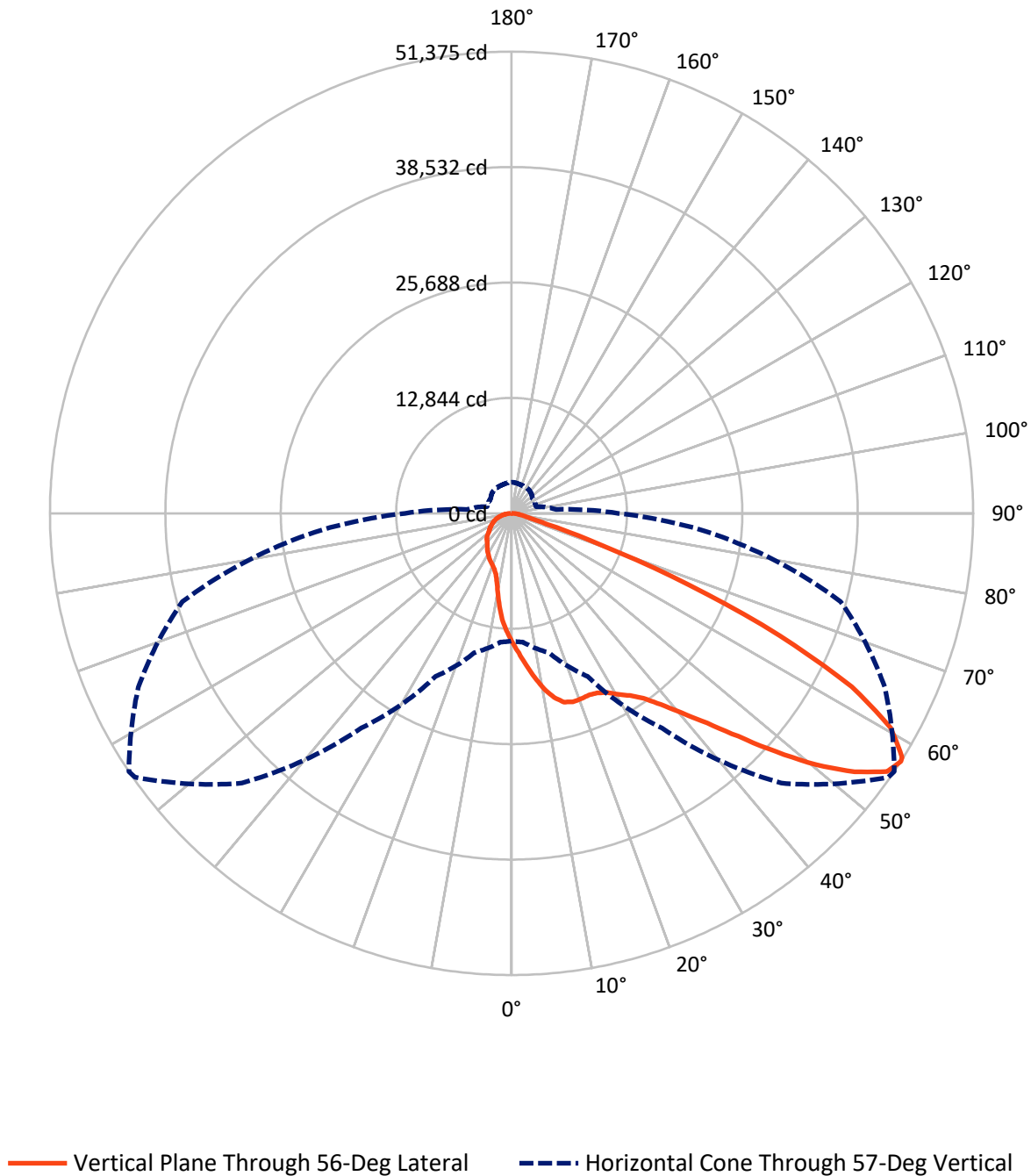
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.9 fc
 Type II - Short - N/A

REPORT NUMBER: P321053
CATALOG NUMBER: GAN-SA9C-760-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P321053

CATALOG NUMBER: GAN-SA9C-760-U-AFL

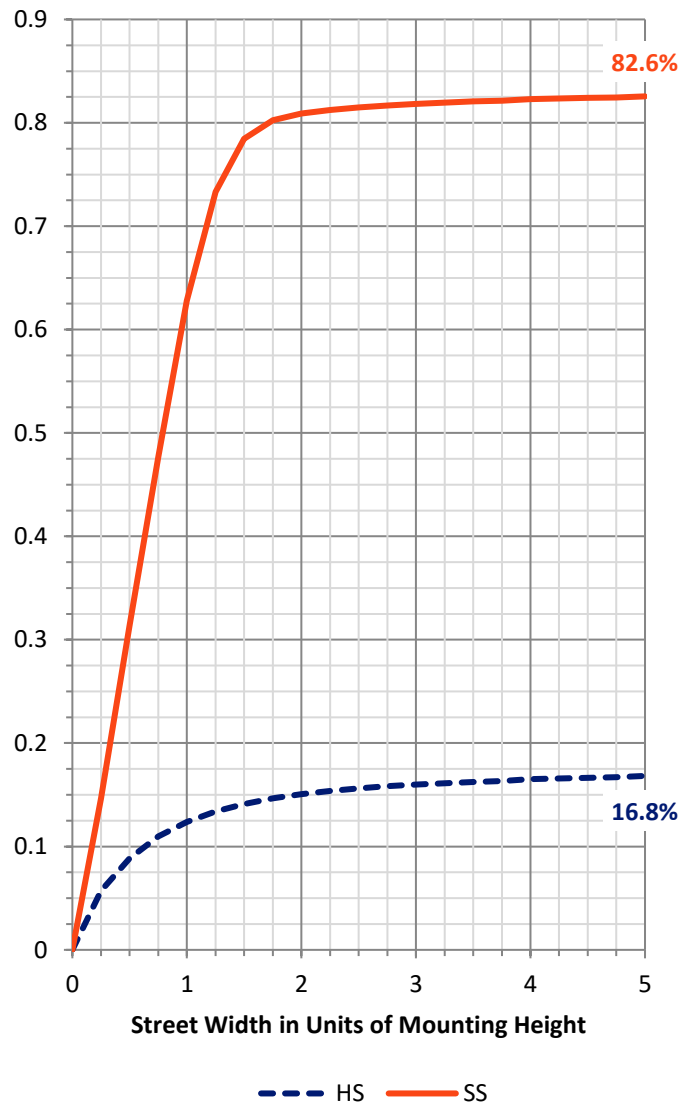
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11182.2	0.0	11182.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	53687.8	0.0	53687.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	64870.0	0.0	64870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1374.4	2.1
10°-20°	3885.8	6.0
20°-30°	6329.3	9.8
30°-40°	9461.6	14.6
40°-50°	14351.2	22.1
50°-60°	16085.2	24.8
60°-70°	9500.6	14.6
70°-80°	3112.7	4.8
80°-90°	769.0	1.2
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°	64870.0	100.0
0°-180°	64870.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321053

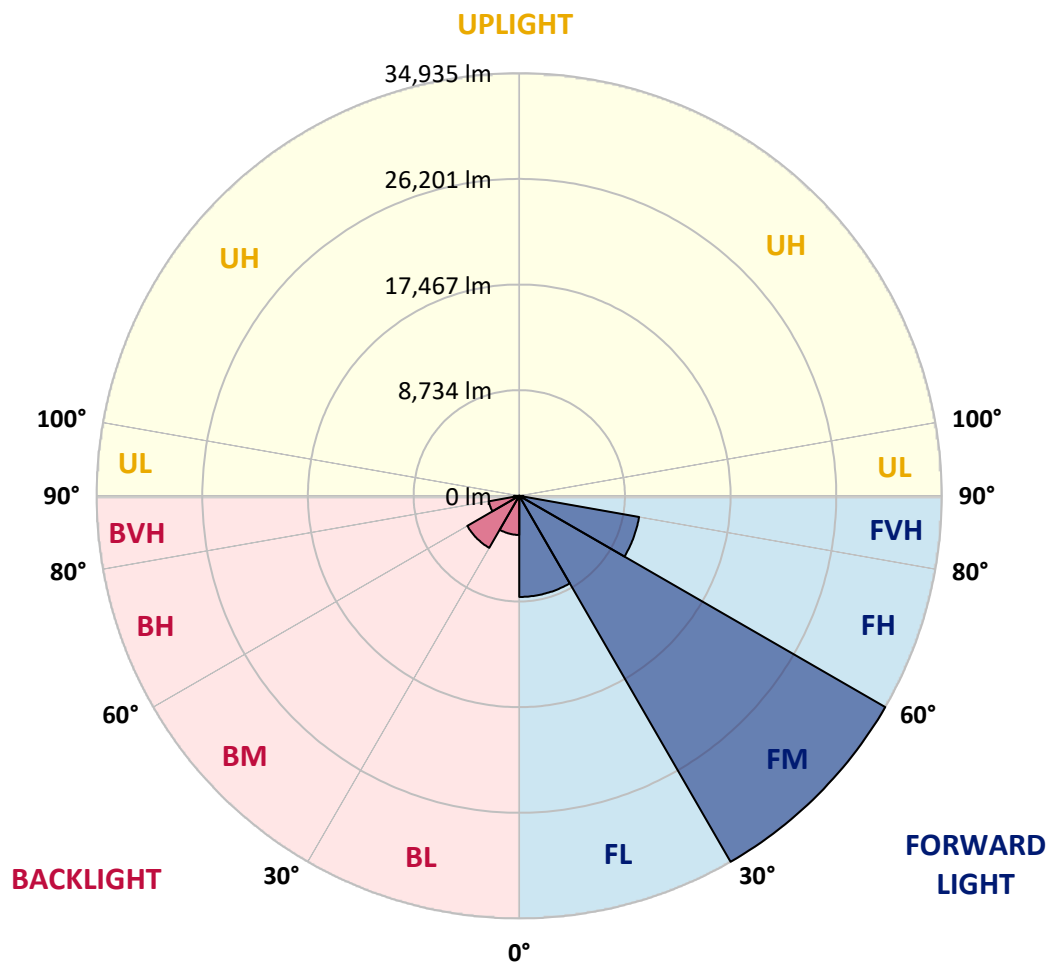
CATALOG NUMBER: GAN-SA9C-760-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8356.2	12.9			
FM	(30°-60°)	34934.6	53.9			
FH	(60°-80°)	10058.3	15.5			G4/12000
FVH	(80°-90°)	338.6	0.5			G3/500
BL	(0°-30°)	3233.4	5.0	B4/5000		
BM	(30°-60°)	4963.4	7.7	B3/5000		
BH	(60°-80°)	2555.0	3.9	B4/5000		G4/5000
BVH	(80°-90°)	430.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P321053

CATALOG NUMBER: GAN-SA9C-760-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2
2.5°	16521.7	16673.3	16606.4	16374.6	16196.2	15944.3	15663.4	15578.7	15282.2	14950.0	14551.0
5°	19136.7	19060.9	18951.7	18590.5	18209.3	17765.7	17061.2	16949.7	16289.9	15538.6	14744.9
7.5°	20625.9	20619.3	20554.6	20342.8	19995.0	19415.4	18566.0	18434.5	17438.0	16229.7	14999.1
10°	20409.7	20394.1	20501.1	20721.8	20826.6	20706.2	19990.6	19859.1	18635.1	16994.3	15293.3
12.5°	19181.3	19190.2	19361.9	19825.6	20456.5	21214.5	21098.6	21033.9	19876.9	17859.3	15650.0
15°	18224.9	18245.0	18381.0	18784.5	19529.1	20904.6	21771.8	21794.1	21078.5	18813.5	16066.9
17.5°	17805.8	17848.2	17910.6	18193.7	18875.9	20287.1	21932.3	22052.7	22130.8	19803.3	16468.2
20°	17939.6	17979.7	17997.5	18178.1	18737.7	19912.6	21820.9	22037.1	22937.8	20735.2	16869.5
22.5°	18539.3	18563.8	18574.9	18621.8	19056.5	20019.6	21747.3	21974.7	23521.9	21571.2	17172.7
25°	19533.6	19515.7	19444.4	19384.2	19676.2	20443.1	21916.7	22133.0	23996.7	22329.2	17371.1
27.5°	20724.0	20701.7	20563.5	20398.6	20565.8	21103.0	22405.0	22576.6	24422.5	23038.1	17471.4
30°	22153.1	22095.1	21834.3	21638.1	21702.7	22092.9	23209.8	23365.8	25080.2	23842.9	17569.5
32.5°	23805.0	23742.6	23365.8	23040.3	23040.3	23365.8	24039.1	24168.4	25637.5	24752.5	17727.8
35°	25873.8	25795.8	25305.4	24759.2	24605.3	24770.3	25169.4	25260.8	26640.7	25898.4	18015.4
37.5°	28312.7	28208.0	27572.6	26841.4	26504.7	26495.8	26783.4	26970.7	28243.6	27403.2	18503.6
40°	30758.3	30684.8	30129.7	29554.5	28894.6	28682.8	29126.5	29184.4	30339.2	29271.4	19127.8
42.5°	32648.8	32635.5	32532.9	32608.7	31933.2	31505.2	31853.0	31899.8	32898.5	31293.4	19792.2
45°	33647.6	33669.9	34167.0	35268.3	35518.0	35205.9	35377.6	35390.9	35823.4	33333.2	20400.8
47.5°	32847.2	32963.2	34220.5	36684.0	38728.3	39764.9	39479.6	39644.5	38659.2	35085.5	20877.9
50°	29728.4	29871.1	32011.2	36053.0	40226.4	44176.8	44027.4	43989.5	40946.5	36369.6	21136.5
52.5°	25864.9	25976.4	27742.0	32773.7	39127.3	46615.7	47986.8	47790.6	42979.6	37330.5	21185.5
55°	19981.7	20155.6	21847.6	26228.3	34682.0	45683.8	50898.3	50722.2	44832.2	37834.3	21127.6
57°	14205.4	14388.2	16069.2	20017.3	29175.5	42458.0	51188.1	51375.4	45833.2	37919.0	21192.2
57.5°	12676.1	12863.3	14528.7	18363.2	27458.9	41292.0	50938.4	51250.5	46013.8	37905.6	21227.9
60°	6382.6	6454.0	7515.1	10250.6	17357.7	33382.3	47681.3	48486.1	46176.5	37250.2	21381.7
62.5°	3968.2	3917.0	3883.5	4721.8	8444.8	22137.4	40959.8	42509.2	43062.1	35662.9	21009.4
65°	3488.9	3393.1	3025.2	2958.3	3729.7	10752.2	30845.3	32773.7	36407.5	33161.6	20122.1
67.5°	3277.1	3183.5	2768.9	2519.2	2521.4	4262.5	19150.1	21321.5	28361.8	28932.5	18028.8
70°	3058.7	2974.0	2586.0	2291.8	2146.9	2360.9	8810.4	10457.9	18488.0	22741.6	15068.2
72.5°	2777.8	2719.8	2352.0	2048.8	1894.9	1767.9	3373.0	3983.8	10703.1	15273.3	10464.6
75°	2483.5	2430.0	2115.7	1825.8	1638.6	1391.1	1899.4	2046.5	5437.4	7813.9	5152.0
77.5°	2160.2	2129.0	1881.6	1614.0	1464.7	1152.6	1344.3	1415.6	2331.9	3350.7	2583.8
80°	1718.8	1779.0	1645.3	1437.9	1299.7	923.0	951.9	998.7	1357.7	1636.3	1466.9
82.5°	1119.1	1223.9	1288.6	1168.2	1070.1	726.8	684.4	704.5	885.1	998.7	637.6
85°	465.9	523.9	847.2	764.7	711.2	530.6	459.2	468.2	548.4	568.5	260.8
87.5°	207.3	220.7	372.3	350.0	301.0	182.8	196.2	214.0	292.0	276.4	100.3
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: P321053

CATALOG NUMBER: GAN-SA9C-760-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2	14388.2
2.5°	14401.6	14214.3	13893.3	13538.8	13249.0	13017.2	12783.1	12622.6	12435.3	12335.0	12283.7
5°	14412.7	14044.9	13369.4	12676.1	12056.3	11490.1	10950.6	10535.9	10148.0	9938.4	9880.5
7.5°	14459.6	13906.7	12814.3	11672.9	10571.6	9566.1	8790.3	8304.3	7954.3	7798.3	7753.7
10°	14497.5	13743.9	12127.7	10437.8	8939.7	7920.9	7319.0	7047.0	6926.6	6906.5	6886.5
12.5°	14586.6	13576.7	11405.4	9149.3	7671.2	6966.7	6757.2	6739.3	6772.8	6821.8	6821.8
15°	14727.1	13411.8	10580.5	8043.5	6864.2	6616.7	6659.1	6757.2	6848.6	6924.4	6935.5
17.5°	14829.6	13208.9	9693.2	7158.4	6433.9	6500.8	6652.4	6790.6	6884.2	6957.8	6964.5
20°	14903.2	12894.6	8745.7	6482.9	6186.4	6393.8	6583.3	6705.9	6770.5	6844.1	6855.3
22.5°	14865.3	12473.2	7905.3	5999.2	5985.8	6237.7	6418.3	6565.4	6516.4	6445.1	6491.9
25°	14682.5	11893.6	7040.3	5638.0	5774.0	6028.2	6251.1	6153.0	5988.0	5956.8	5974.7
27.5°	14357.0	11153.4	6240.0	5303.6	5528.8	5834.2	5820.8	5722.7	5664.8	5624.7	5649.2
30°	14007.0	10350.9	5539.9	5011.6	5256.8	5508.7	5457.4	5455.2	5397.3	5332.6	5363.8
32.5°	13661.5	9543.8	4984.8	4770.8	5051.7	5085.1	5196.6	5230.1	5116.4	4980.4	4971.5
35°	13360.5	8781.4	4563.5	4552.3	4804.2	4808.7	4971.5	4924.6	4641.5	4501.1	4501.1
37.5°	13135.3	8021.2	4242.5	4356.1	4478.8	4594.7	4677.2	4483.2	4436.4	4358.4	4356.1
40°	13037.2	7352.4	4041.8	4206.8	4249.1	4396.3	4184.5	4260.3	4282.6	4242.5	4242.5
42.5°	12934.7	6770.5	3867.9	4093.1	4086.4	4066.3	3959.3	4057.4	4146.6	4148.8	4142.1
45°	12832.1	6268.9	3714.1	3850.1	3943.7	3727.5	3747.5	3852.3	3977.2	4021.7	4021.7
47.5°	12718.4	5872.1	3573.6	3593.7	3738.6	3593.7	3578.1	3658.4	3805.5	3876.8	3892.4
50°	12468.8	5515.4	3413.1	3368.5	3408.7	3457.7	3471.1	3509.0	3671.7	3785.4	3812.2
52.5°	12123.2	5196.6	3208.0	3161.2	3161.2	3346.3	3408.7	3419.8	3558.0	3694.0	3720.8
55°	11835.6	4993.7	2996.2	2987.3	2978.4	3228.1	3335.1	3352.9	3448.8	3555.8	3569.2
57°	11855.7	4978.1	2833.5	2842.4	2840.2	3107.7	3266.0	3303.9	3352.9	3444.3	3460.0
57.5°	11866.8	4989.3	2797.8	2802.3	2800.1	3074.3	3245.9	3288.3	3326.2	3422.1	3437.7
60°	12034.0	5018.3	2652.9	2603.9	2615.0	2895.9	3132.2	3185.7	3210.3	3337.3	3357.4
62.5°	11786.6	4889.0	2537.0	2418.8	2418.8	2708.7	2974.0	3058.7	3096.6	3268.2	3301.7
65°	11068.7	4525.6	2401.0	2209.3	2231.6	2521.4	2784.5	2922.7	2980.6	3194.7	3230.3
67.5°	9960.7	4104.2	2256.1	2022.0	2044.3	2325.2	2588.3	2737.6	2829.0	3114.4	3143.4
70°	8518.3	3589.3	2059.9	1823.6	1850.4	2111.2	2356.4	2525.9	2661.8	3038.6	3047.5
72.5°	6280.1	2942.7	1785.7	1605.1	1634.1	1861.5	2122.3	2318.5	2501.3	2849.1	2844.7
75°	3734.2	2300.7	1482.5	1384.4	1404.5	1616.3	1910.6	2149.1	2423.3	2775.5	2817.9
77.5°	2265.0	1732.2	1208.3	1159.3	1183.8	1400.0	1759.0	2013.1	2389.9	2617.3	2603.9
80°	1368.8	1237.3	965.3	934.1	958.6	1197.2	1627.4	1910.6	2088.9	2236.0	2236.0
82.5°	715.6	755.7	708.9	684.4	717.9	972.0	1480.3	1667.6	1845.9	1585.1	1480.3
85°	292.0	394.6	430.3	428.0	448.1	673.3	1277.4	1426.8	1190.5	1130.3	1157.0
87.5°	98.1	167.2	209.6	180.6	189.5	423.6	885.1	688.9	818.2	570.7	541.7
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)