

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: P318659

Luminaire Tested: **GAN-SA5D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32626 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

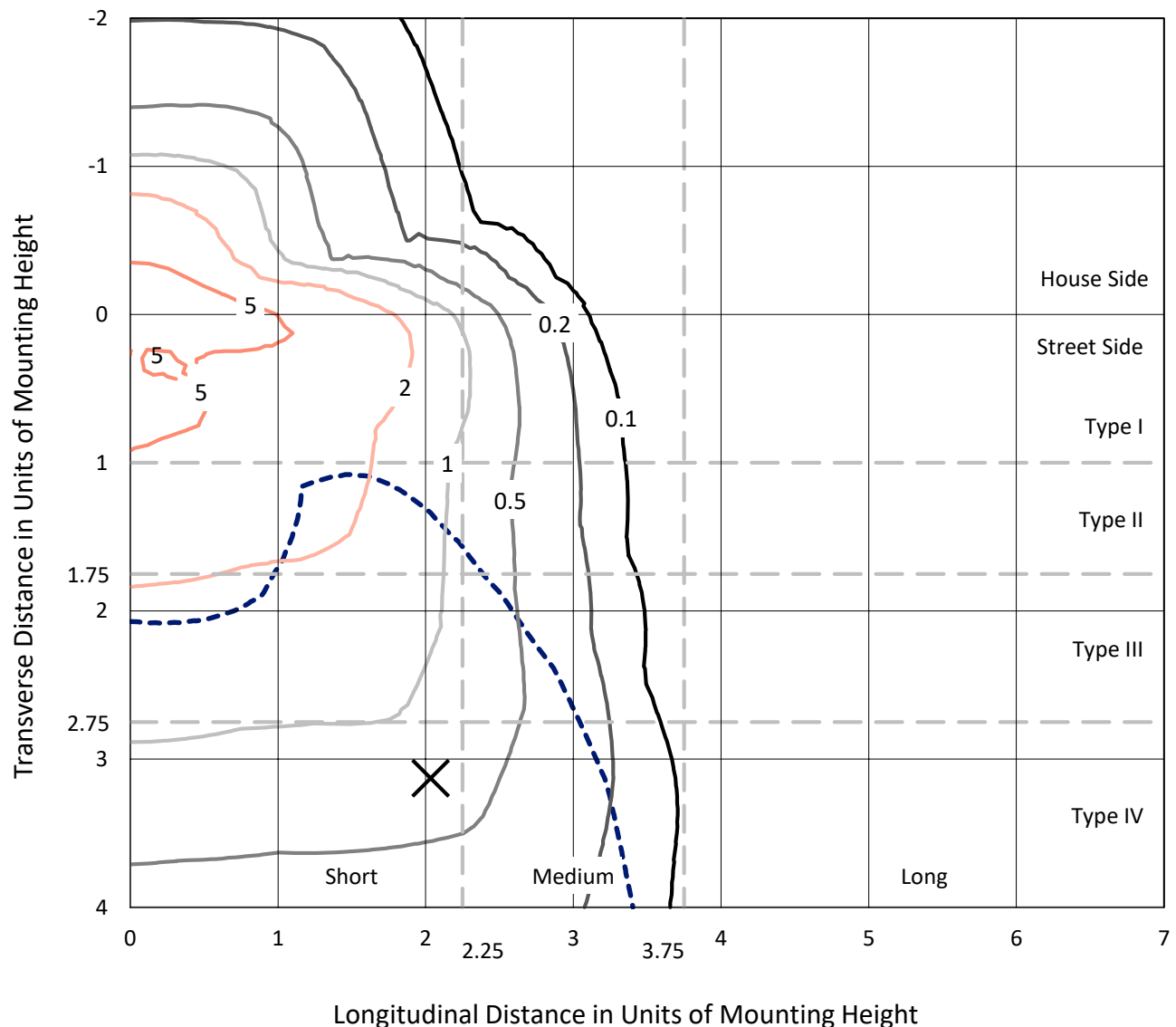
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318659
 CATALOG NUMBER: GAN-SA5D-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

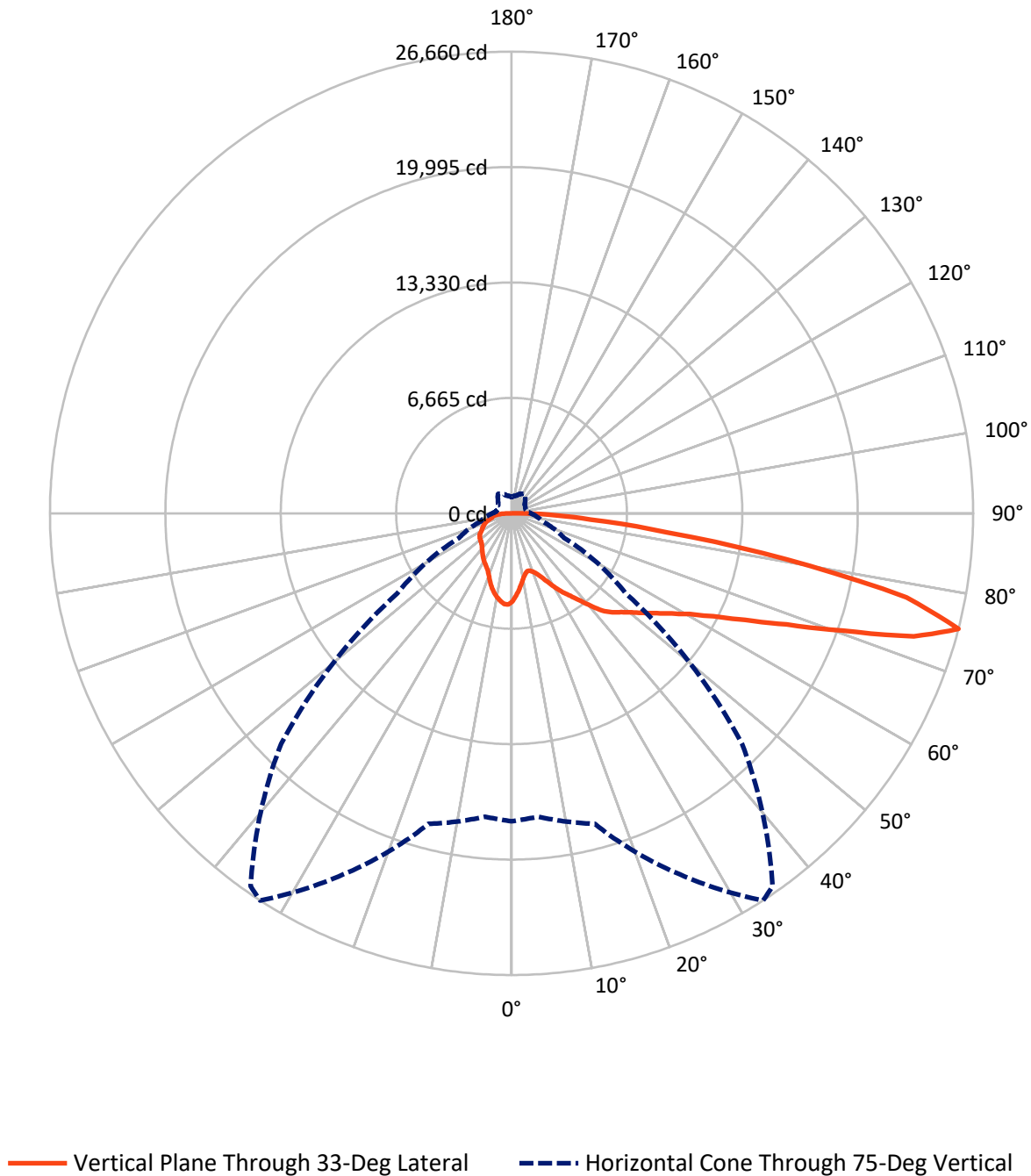
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P318659
CATALOG NUMBER: GAN-SA5D-727-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318659

CATALOG NUMBER: GAN-SA5D-727-U-T4FT

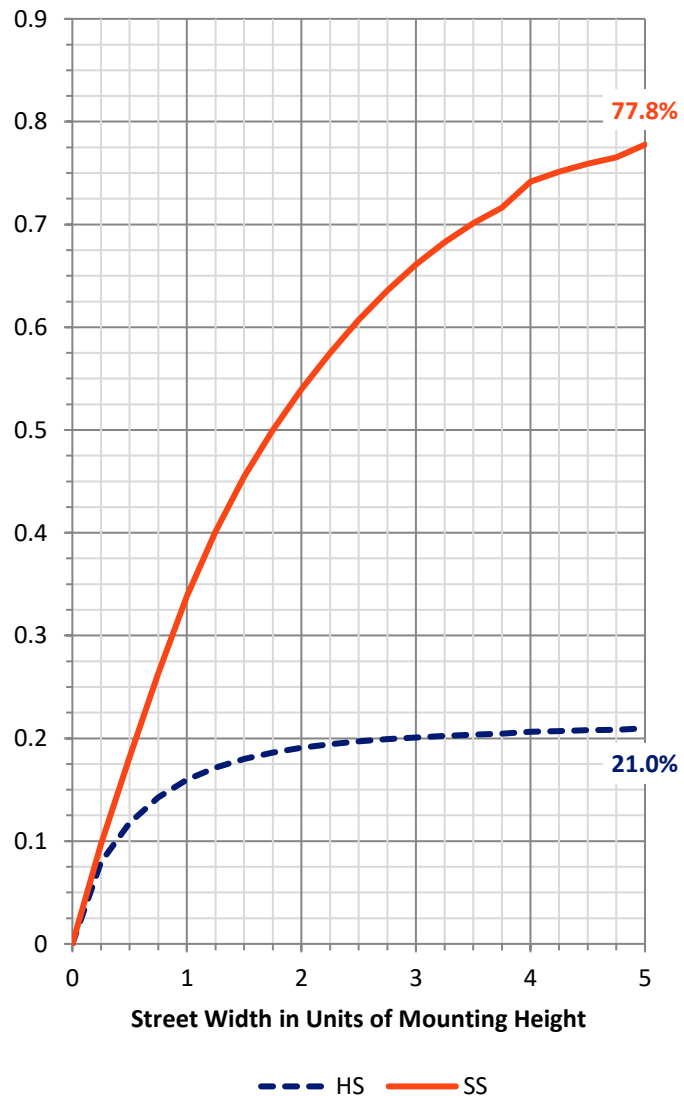
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7005.7	0.0	7005.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	25620.3	0.0	25620.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	32626.0	0.0	32626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.2	1.4
10°-20°	1249.1	3.8
20°-30°	2040.0	6.3
30°-40°	3038.0	9.3
40°-50°	4357.4	13.4
50°-60°	5982.0	18.3
60°-70°	7489.2	23.0
70°-80°	6775.1	20.8
80°-90°	1234.1	3.8
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°	32626.0	100.0
0°-180°	32626.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318659

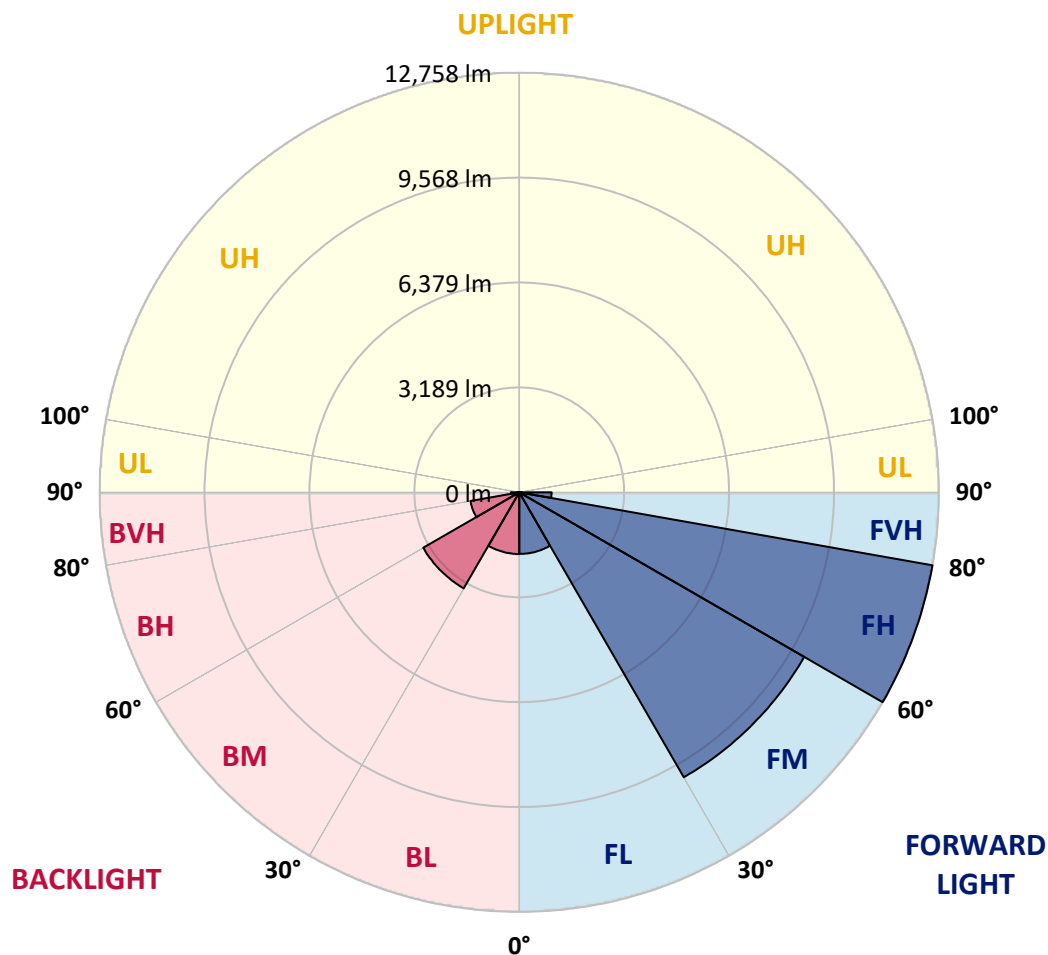
CATALOG NUMBER: GAN-SA5D-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1873.9	5.7			
FM	(30°-60°)	10005.7	30.7			
FH	(60°-80°)	12757.9	39.1			G5
FVH	(80°-90°)	982.9	3.0			G5
BL	(0°-30°)	1876.4	5.8	B3/2500		
BM	(30°-60°)	3371.6	10.3	B3/5000		
BH	(60°-80°)	1506.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	251.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P318659

CATALOG NUMBER: GAN-SA5D-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6
2.5°	4735.6	4717.6	4751.4	4755.9	4785.2	4796.5	4837.0	4900.1	4952.0	5011.7	5065.8
5°	4306.2	4293.8	4341.2	4375.0	4439.2	4466.3	4562.1	4696.2	4815.6	4950.9	5073.7
7.5°	3898.3	3891.5	3944.5	4021.1	4095.5	4132.7	4298.3	4493.3	4692.8	4911.4	5099.6
10°	3554.5	3552.3	3603.0	3678.5	3787.8	3829.5	4043.6	4300.6	4580.1	4881.0	5143.6
12.5°	3361.8	3369.7	3393.4	3456.5	3557.9	3599.6	3837.4	4139.4	4485.4	4870.8	5207.8
15°	3409.1	3421.5	3381.0	3378.7	3450.8	3483.5	3706.7	4024.5	4417.8	4887.8	5301.4
17.5°	3610.9	3613.1	3506.1	3438.4	3482.4	3499.3	3666.1	3959.1	4378.4	4926.1	5418.6
20°	3894.9	3889.2	3699.9	3587.2	3610.9	3615.4	3723.6	3960.2	4375.0	4992.6	5570.7
22.5°	4271.3	4229.6	3974.9	3821.6	3816.0	3809.2	3871.2	4043.6	4424.6	5100.8	5752.2
25°	4762.7	4723.2	4372.7	4163.1	4118.0	4101.1	4110.1	4221.7	4522.6	5216.8	5955.0
27.5°	5309.2	5240.5	4902.4	4606.0	4512.5	4488.8	4434.7	4473.0	4629.7	5328.4	6196.2
30°	5766.8	5729.6	5434.3	5082.7	4972.3	4938.5	4796.5	4754.8	4784.1	5480.5	6500.5
32.5°	6022.6	5997.8	5818.6	5534.6	5432.1	5384.8	5184.2	5100.8	5032.0	5720.6	6913.0
35°	6332.6	6316.8	6208.6	6002.3	5850.2	5800.6	5645.1	5558.3	5381.4	6050.8	7446.0
37.5°	6727.0	6710.1	6712.3	6545.6	6364.1	6317.9	6215.3	6124.1	5834.4	6484.7	8025.3
40°	7173.3	7140.6	7128.2	7120.3	7005.4	6979.4	6925.3	6801.4	6402.4	7003.1	8596.7
42.5°	7845.0	7728.9	7481.0	7574.5	7688.3	7674.8	7718.7	7540.7	7033.5	7616.2	9154.5
45°	8493.0	8302.5	7874.3	7894.6	8143.6	8219.1	8548.2	8422.0	7717.6	8287.9	9731.6
47.5°	8788.3	8644.0	8280.0	8281.1	8527.9	8684.6	9405.9	9315.7	8436.6	9050.9	10435.9
50°	9118.5	8974.2	8647.4	8770.2	8985.5	9152.3	10234.2	10188.0	9120.7	9886.0	11280.0
52.5°	9479.1	9234.6	9027.2	9246.9	9549.0	9742.8	11063.7	10937.4	9748.5	10726.7	12250.4
55°	9483.6	9417.1	9574.9	9736.1	10188.0	10425.8	11932.6	11599.0	10260.1	11552.8	13040.4
57.5°	10023.4	9915.3	10250.0	10324.3	10914.9	11183.1	12797.0	12174.9	10780.8	12186.1	13466.4
60°	10738.0	10645.5	10919.4	11115.5	11814.2	12172.6	13720.0	12766.5	11189.9	12664.0	13446.1
62.5°	11972.0	11867.2	11863.8	12138.8	13079.8	13496.8	14755.7	13346.9	11352.2	12758.6	12872.5
65°	13778.6	13611.8	13297.3	13428.1	14827.8	15243.7	15913.1	13767.3	11138.0	12251.5	11395.0
67.5°	15536.7	15531.0	15144.5	15412.7	17135.9	17469.5	17231.7	13809.0	10469.7	10485.5	8773.6
70°	17289.1	17311.7	17246.3	18179.5	20254.3	20601.4	18635.9	13248.9	8967.5	7572.2	5256.3
72.5°	18677.6	18672.0	19001.0	21407.2	24301.3	24223.5	19819.2	11551.6	6438.5	4087.6	2512.1
75°	17778.3	17582.2	18562.6	23005.2	26660.1	26280.3	18812.8	8058.0	3341.5	1860.7	1352.4
77.5°	11595.6	11781.5	13220.7	19004.4	23319.7	22857.6	13802.2	3759.6	1574.4	1220.5	980.5
80°	4199.2	4395.3	6190.6	10765.0	16066.4	15990.9	6796.9	1545.1	1065.0	921.9	714.5
82.5°	1444.8	1516.9	2442.2	4780.7	9071.1	9409.2	2557.1	877.9	774.2	653.7	489.1
85°	566.9	649.1	1116.8	2300.2	4575.6	4609.4	1035.7	525.2	538.7	428.3	268.2
87.5°	215.3	261.5	534.2	1068.4	2089.4	1919.3	370.8	250.2	306.5	254.7	127.3
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: P318659

CATALOG NUMBER: GAN-SA5D-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6	5099.6
2.5°	5107.5	5131.2	5180.8	5214.6	5250.6	5260.8	5265.3	5274.3	5283.3	5279.9	5281.1
5°	5139.1	5185.3	5265.3	5299.1	5314.9	5296.8	5261.9	5233.7	5213.5	5202.2	5198.8
7.5°	5190.9	5256.3	5341.9	5336.3	5300.2	5220.2	5130.1	5062.4	5006.1	4985.8	4974.5
10°	5259.7	5336.3	5396.0	5331.8	5227.0	5088.4	4953.1	4848.3	4763.8	4731.1	4725.5
12.5°	5347.6	5425.3	5436.6	5300.2	5126.7	4937.3	4753.6	4615.0	4488.8	4448.2	4439.2
15°	5461.4	5534.6	5464.8	5245.0	5002.7	4748.0	4510.2	4322.0	4189.0	4139.4	4121.4
17.5°	5580.9	5650.7	5470.4	5153.7	4840.4	4523.7	4225.1	4032.4	3880.2	3822.7	3816.0
20°	5724.0	5755.5	5446.7	5023.0	4617.3	4233.0	3918.5	3737.1	3656.0	3615.4	3610.9
22.5°	5900.9	5867.1	5392.6	4846.1	4334.4	3897.1	3641.3	3556.8	3536.5	3527.5	3530.9
25°	6088.0	5984.3	5312.6	4615.0	3977.1	3561.3	3438.4	3462.1	3489.2	3485.8	3485.8
27.5°	6294.2	6103.8	5189.8	4308.5	3581.6	3286.3	3301.0	3387.7	3428.3	3427.2	3426.0
30°	6559.1	6239.0	5033.1	3940.0	3211.9	3092.5	3181.5	3287.4	3342.7	3340.4	3341.5
32.5°	6884.8	6387.8	4820.1	3528.6	2944.8	2949.3	3051.9	3156.7	3220.9	3215.3	3216.4
35°	7265.7	6554.6	4531.6	3122.9	2767.9	2835.5	2916.6	2989.9	3050.8	3042.9	3035.0
37.5°	7680.4	6718.0	4148.4	2760.0	2623.6	2729.6	2797.2	2809.6	2837.8	2817.5	2802.8
40°	8074.9	6843.1	3654.8	2462.5	2478.2	2639.4	2683.4	2633.8	2583.1	2576.3	2556.0
42.5°	8418.6	6884.8	3155.6	2224.7	2325.0	2544.7	2571.8	2468.1	2376.8	2334.0	2316.0
45°	8781.5	6899.4	2690.1	2025.2	2177.3	2460.2	2489.5	2350.9	2222.4	2130.0	2099.6
47.5°	9256.0	7005.4	2328.4	1877.6	2064.6	2403.9	2445.6	2257.4	2090.6	1958.7	1930.5
50°	9876.9	7215.0	2034.2	1764.9	1991.4	2366.7	2414.0	2166.1	1982.4	1823.5	1795.3
52.5°	10566.7	7407.7	1796.4	1673.6	1920.4	2301.3	2373.4	2100.7	1880.9	1698.4	1667.9
55°	11049.0	7260.1	1604.8	1578.9	1828.0	2207.8	2317.1	2045.5	1735.6	1576.7	1549.6
57.5°	11141.4	6755.2	1459.5	1480.9	1716.4	2090.6	2230.3	1922.6	1656.7	1523.7	1495.5
60°	10889.0	6051.9	1351.3	1390.7	1596.9	1942.9	2068.0	1835.9	1581.2	1467.3	1443.7
62.5°	10254.5	5331.8	1271.2	1309.6	1485.4	1793.0	1966.6	1744.6	1504.5	1403.1	1379.4
65°	8973.1	4476.4	1194.6	1237.4	1381.7	1663.4	1875.3	1660.1	1429.0	1351.3	1328.7
67.5°	6773.2	3352.8	1122.5	1160.8	1289.3	1550.7	1776.1	1576.7	1355.8	1306.2	1279.1
70°	3988.4	2099.6	1040.2	1080.8	1192.4	1433.5	1670.2	1485.4	1264.5	1241.9	1207.0
72.5°	1856.2	1263.4	946.7	986.1	1070.6	1276.9	1533.8	1365.9	1156.3	1106.7	1059.4
75°	1107.8	924.1	836.2	871.2	930.9	1110.1	1362.5	1244.2	1053.7	988.4	938.8
77.5°	828.3	706.6	714.5	751.7	800.2	971.5	1207.0	1148.4	974.8	924.1	890.3
80°	596.2	536.4	582.7	623.2	673.9	883.6	1156.3	1061.6	881.3	813.7	782.1
82.5°	397.8	385.4	438.4	480.1	529.7	773.1	1086.4	929.8	752.8	667.2	597.3
85°	219.8	232.2	295.3	313.3	356.1	544.3	890.3	747.2	566.9	456.4	436.1
87.5°	91.3	107.1	158.9	153.3	189.3	324.6	586.0	450.8	360.6	269.4	209.6
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)