

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: P318953

Luminaire Tested: **GAN-SA9A-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34598 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

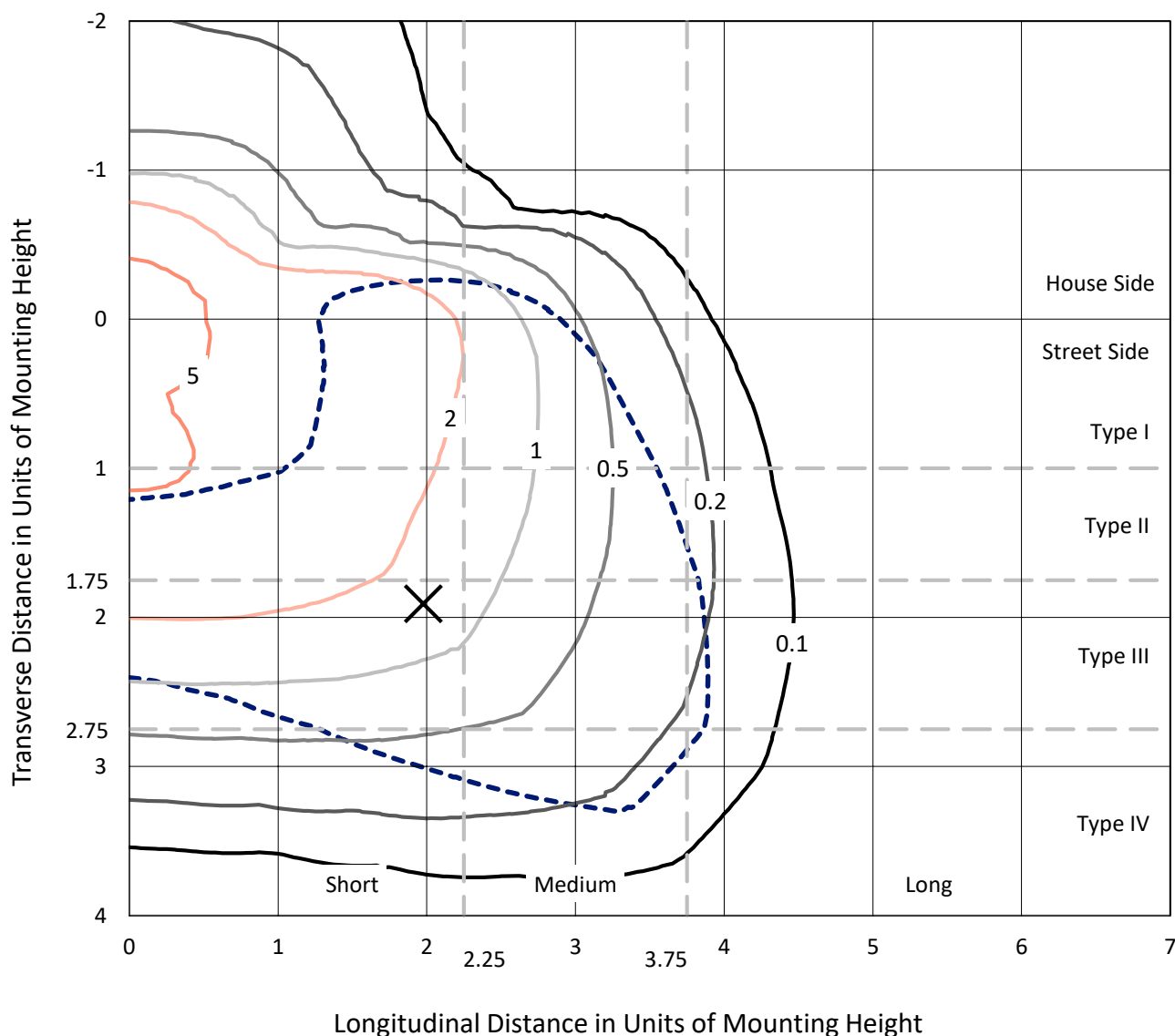
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318953
 CATALOG NUMBER: GAN-SA9A-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

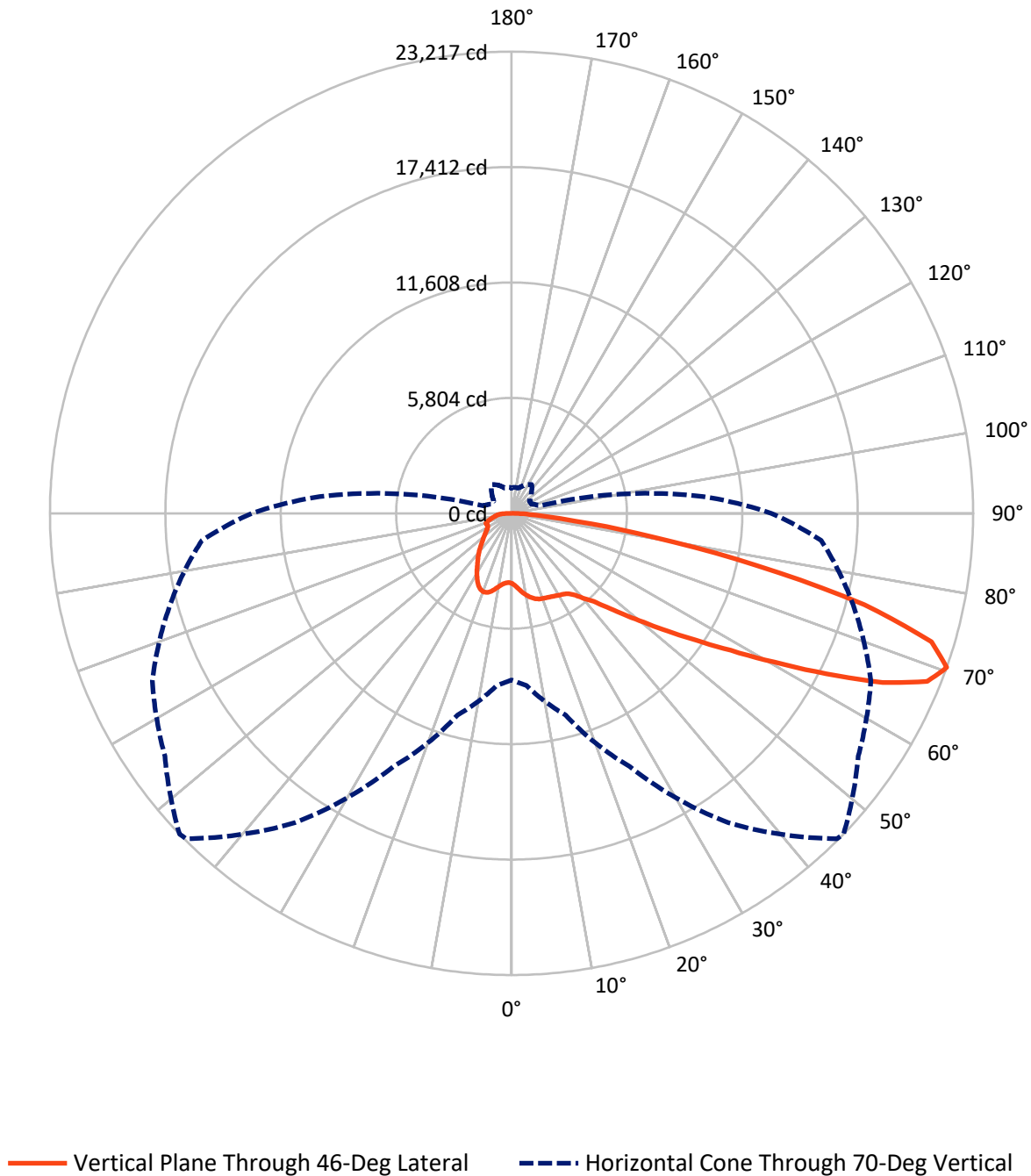
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

REPORT NUMBER: P318953
CATALOG NUMBER: GAN-SA9A-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P318953

CATALOG NUMBER: GAN-SA9A-727-U-T4W

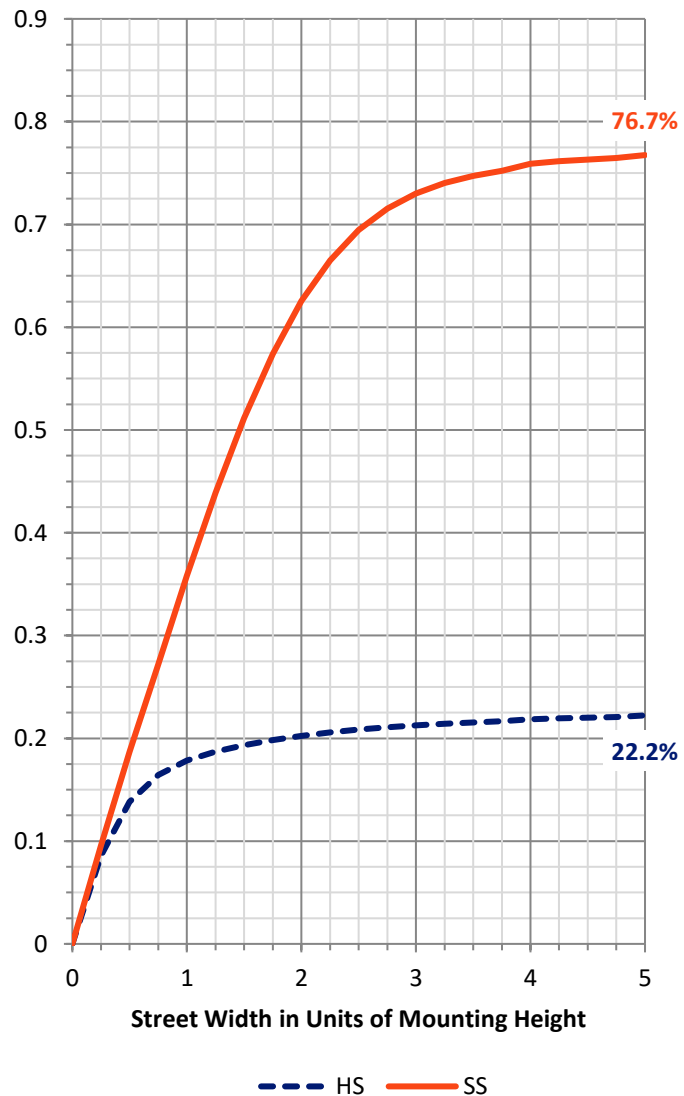
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7929.8	0.0	7929.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	26668.2	0.0	26668.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	34598.0	0.0	34598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.3	1.0
10°-20°	1197.2	3.5
20°-30°	1996.2	5.8
30°-40°	2832.7	8.2
40°-50°	4166.7	12.0
50°-60°	7056.4	20.4
60°-70°	10016.4	29.0
70°-80°	6085.0	17.6
80°-90°	888.0	2.6
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°	34598.0	100.0
0°-180°	34598.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318953

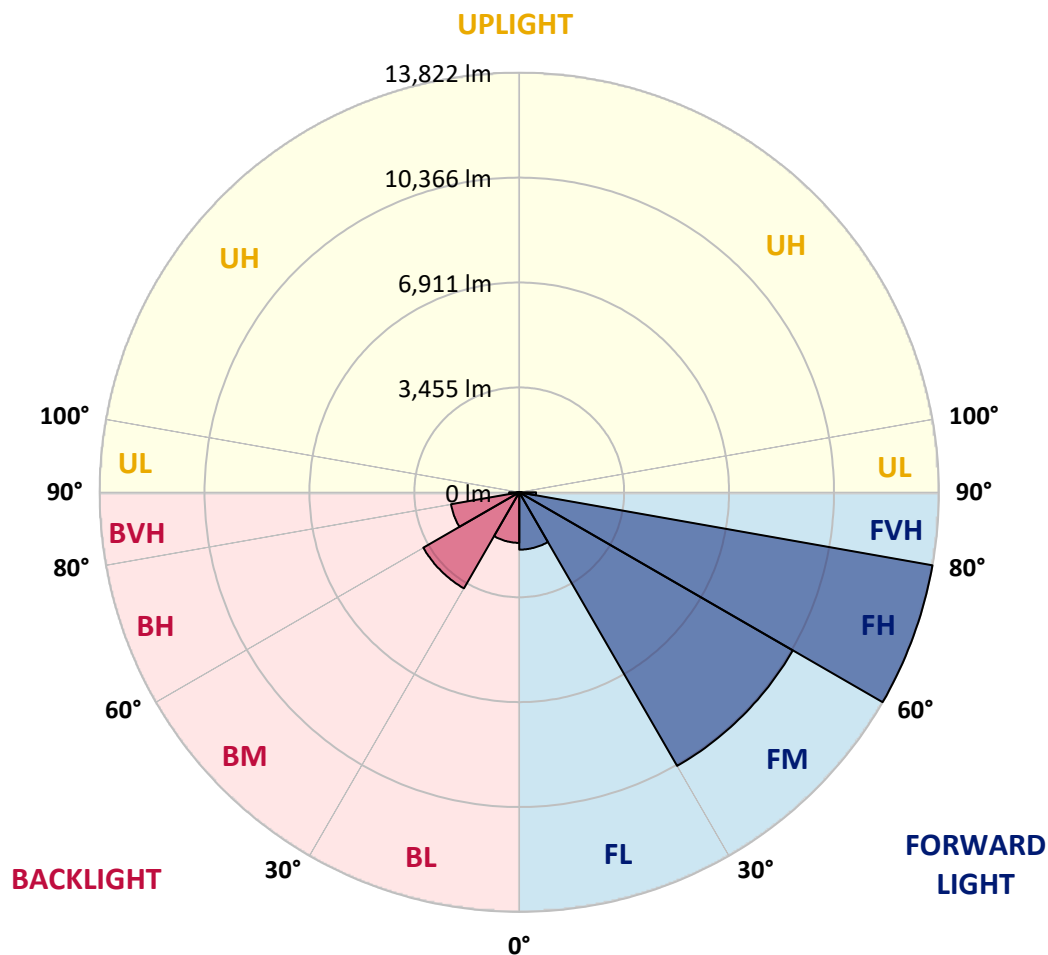
CATALOG NUMBER: GAN-SA9A-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1887.8	5.5			
FM	(30°-60°)	10405.5	30.1			
FH	(60°-80°)	13821.7	39.9			G5
FVH	(80°-90°)	553.2	1.6			G4/750
BL	(0°-30°)	1664.9	4.8	B3/2500		
BM	(30°-60°)	3650.3	10.6	B3/5000		
BH	(60°-80°)	2279.7	6.6	B3/2500		G3/2500
BVH	(80°-90°)	334.9	1.0			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: P318953

CATALOG NUMBER: GAN-SA9A-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9
2.5°	3701.3	3703.6	3708.4	3696.5	3663.4	3653.9	3650.4	3616.0	3593.5	3560.4	3532.0
5°	3997.3	3999.7	3992.6	3959.4	3886.0	3831.5	3826.8	3748.6	3677.6	3601.8	3545.0
7.5°	4306.3	4309.9	4287.4	4224.6	4121.6	4026.9	4021.0	3914.4	3806.7	3691.8	3606.6
10°	4579.8	4565.6	4528.9	4441.3	4319.3	4203.3	4198.6	4087.3	3963.0	3824.4	3710.8
12.5°	4762.2	4750.3	4703.0	4596.4	4462.6	4356.0	4346.6	4243.6	4122.8	3971.2	3835.1
15°	4862.8	4871.1	4807.2	4686.4	4556.1	4466.2	4457.9	4384.5	4276.7	4124.0	3967.7
17.5°	4875.8	4882.9	4821.4	4701.8	4595.2	4533.7	4530.1	4481.6	4403.4	4256.6	4093.2
20°	4800.1	4804.8	4753.9	4655.6	4585.8	4566.8	4565.6	4544.3	4486.3	4356.0	4197.4
22.5°	4689.9	4693.5	4656.8	4585.8	4562.1	4591.7	4600.0	4591.7	4550.2	4428.3	4279.1
25°	4662.7	4660.3	4622.5	4550.2	4570.4	4633.1	4643.8	4647.3	4618.9	4512.3	4383.3
27.5°	4794.1	4785.9	4713.6	4597.6	4610.6	4686.4	4700.6	4734.9	4717.2	4623.6	4501.7
30°	5174.2	5160.0	5012.0	4777.6	4713.6	4752.7	4770.5	4824.9	4828.5	4750.3	4659.2
32.5°	5816.0	5798.2	5533.0	5113.8	4887.7	4820.2	4836.8	4918.5	4962.3	4901.9	4803.6
35°	6627.0	6606.9	6258.8	5685.7	5178.9	4949.2	4961.1	5026.2	5113.8	5028.6	4898.3
37.5°	7472.4	7423.9	7088.8	6358.2	5641.9	5225.1	5225.1	5233.4	5274.9	5097.3	5009.6
40°	8313.1	8264.5	7961.4	7149.2	6241.0	5659.7	5632.4	5448.9	5415.8	5263.0	5233.4
42.5°	9094.5	9080.3	8901.5	8043.1	6944.3	6087.1	6049.2	5737.8	5744.9	5650.2	5651.4
45°	9925.7	9925.7	9780.1	8945.4	7763.7	6773.8	6735.9	6277.7	6348.8	6305.0	6410.3
47.5°	10604.2	10625.5	10605.4	9885.5	8716.8	7646.5	7577.8	7026.0	7225.0	7375.3	7682.0
50°	11296.8	11330.0	11333.5	10916.8	9868.9	8683.7	8605.5	8019.4	8463.5	8894.4	9497.1
52.5°	12302.1	12376.7	12079.5	11945.7	11280.3	9915.1	9838.1	9297.0	10038.2	10643.3	11681.6
55°	13233.9	13168.8	12956.8	13039.7	12791.1	11317.0	11258.9	10784.2	11792.9	12579.1	13927.8
57.5°	13738.3	13733.6	13946.7	14301.9	14420.3	13045.6	12997.1	12535.3	13771.5	14362.3	16036.5
60°	14330.3	14338.6	14866.7	15673.0	16160.8	15198.2	15176.9	14826.4	15693.1	16027.0	17690.6
62.5°	14413.2	14562.4	15471.7	16859.4	17790.1	17713.1	17760.5	16890.2	17412.4	17355.5	18925.5
65°	13460.1	13656.6	15302.4	17218.2	19409.8	20463.6	20507.4	18965.8	18768.1	18491.0	19367.2
67.5°	11506.4	11797.7	13585.6	16437.9	19943.8	22496.6	22558.2	20574.9	19892.9	18875.8	18303.9
70°	8373.5	8696.7	10496.4	14039.1	18991.9	23146.6	23216.5	21286.5	19935.5	17780.6	15625.7
72.5°	5058.2	5311.6	6795.2	10335.4	16029.4	21962.6	22086.9	20384.3	18200.9	15060.9	11538.4
75°	2221.2	2387.0	3285.7	5955.7	11475.6	18171.3	18326.4	17447.9	14788.5	10945.2	6820.0
77.5°	946.0	993.4	1347.4	2587.1	6487.3	12416.9	12630.1	12748.5	10033.5	5955.7	2881.9
80°	589.6	608.6	762.5	1171.0	3035.9	6973.9	7203.6	7500.8	4982.4	2189.3	1006.4
82.5°	358.8	380.1	506.8	708.1	1580.7	3161.4	3271.5	3481.0	1933.5	946.0	521.0
85°	215.5	230.9	310.2	447.6	899.9	1243.2	1242.0	1373.5	910.5	608.6	274.7
87.5°	103.0	114.9	165.8	232.1	453.5	466.5	436.9	494.9	552.9	399.0	138.5
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: P318953

CATALOG NUMBER: GAN-SA9A-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9	3524.9
2.5°	3522.5	3517.8	3502.4	3490.5	3488.2	3481.0	3475.1	3478.7	3483.4	3484.6	3484.6
5°	3521.3	3508.3	3488.2	3479.9	3490.5	3504.7	3522.5	3546.2	3560.4	3571.0	3578.1
7.5°	3578.1	3553.3	3530.8	3526.0	3547.4	3585.2	3625.5	3675.2	3709.6	3733.2	3738.0
10°	3672.9	3642.1	3619.6	3624.3	3662.2	3716.7	3773.5	3837.4	3889.5	3921.5	3923.9
12.5°	3781.8	3752.2	3730.9	3751.0	3813.8	3880.1	3939.3	3994.9	4042.3	4074.2	4074.2
15°	3907.3	3886.0	3861.1	3907.3	3992.6	4051.8	4076.6	4103.8	4129.9	4153.6	4148.8
17.5°	4028.1	4007.9	3994.9	4049.4	4138.2	4165.4	4148.8	4128.7	4128.7	4141.7	4144.1
20°	4132.3	4114.5	4122.8	4176.1	4222.3	4193.8	4132.3	4068.3	4042.3	4049.4	4056.5
22.5°	4223.4	4215.1	4240.0	4264.9	4231.7	4132.3	4018.6	3932.2	3900.2	3897.8	3900.2
25°	4330.0	4328.8	4359.6	4314.6	4167.8	3984.3	3831.5	3747.5	3729.7	3743.9	3767.6
27.5°	4462.6	4475.6	4491.0	4326.4	4037.5	3760.5	3605.4	3547.4	3565.1	3599.5	3621.9
30°	4631.9	4667.4	4634.3	4296.8	3850.5	3504.7	3356.7	3340.2	3388.7	3437.2	3460.9
32.5°	4796.5	4852.2	4771.6	4219.9	3608.9	3233.6	3118.7	3114.0	3173.2	3220.6	3253.7
35°	4929.1	5039.2	4874.7	4067.1	3329.5	2983.8	2899.7	2867.7	2889.0	2944.7	2982.6
37.5°	5102.0	5285.5	4945.7	3833.9	3026.4	2777.7	2679.5	2606.1	2587.1	2609.6	2628.5
40°	5418.1	5660.9	4978.8	3508.3	2730.4	2571.7	2472.3	2364.5	2289.9	2235.4	2236.6
42.5°	5934.4	6149.9	4957.5	3112.8	2456.9	2370.4	2257.9	2133.6	2012.9	1889.7	1880.2
45°	6772.7	6876.8	4893.6	2693.7	2216.5	2159.7	2054.3	1930.0	1768.9	1629.2	1616.2
47.5°	8114.2	7883.3	4794.1	2327.8	2004.6	1980.9	1883.8	1740.5	1570.0	1457.5	1448.1
50°	9943.5	9336.1	4745.6	2036.5	1817.5	1824.6	1745.3	1593.7	1432.7	1349.8	1340.3
52.5°	12131.6	11028.1	4839.1	1811.6	1667.1	1692.0	1632.8	1490.7	1355.7	1290.6	1281.1
55°	14401.4	12780.4	4939.8	1648.2	1525.0	1573.6	1553.4	1436.2	1314.3	1253.9	1245.6
57.5°	16344.4	14088.8	4738.5	1515.6	1398.3	1474.1	1491.9	1401.9	1293.0	1238.5	1229.0
60°	17567.5	14615.7	4210.4	1391.2	1297.7	1394.8	1456.4	1392.4	1301.2	1296.5	1289.4
62.5°	18147.6	14569.5	3418.3	1293.0	1234.9	1360.5	1482.4	1445.7	1396.0	1438.6	1442.1
65°	17887.1	13873.3	2545.7	1227.8	1190.0	1373.5	1560.6	1546.3	1423.2	1465.8	1471.7
67.5°	16172.7	12212.1	1885.0	1171.0	1140.2	1410.2	1702.6	1579.5	1369.9	1400.7	1381.8
70°	13071.7	9681.8	1454.0	1107.1	1089.3	1405.4	1766.6	1559.4	1311.9	1319.0	1268.1
72.5°	9014.0	6602.2	1182.8	1047.9	1015.9	1281.1	1721.6	1509.6	1263.4	1208.9	1141.4
75°	4901.9	3543.8	1005.2	986.3	886.8	1124.8	1638.7	1474.1	1219.6	1147.3	1109.4
77.5°	1928.8	1470.6	872.6	902.2	775.5	993.4	1546.3	1406.6	1159.2	1064.4	1045.5
80°	787.4	750.7	723.4	780.3	666.6	869.1	1435.0	1327.3	1086.9	987.5	949.6
82.5°	446.4	466.5	562.4	615.7	541.1	800.4	1381.8	1263.4	1000.5	884.5	839.5
85°	228.5	273.5	391.9	441.6	397.8	680.8	1272.8	1105.9	802.8	677.3	680.8
87.5°	110.1	152.7	247.5	277.1	258.1	492.6	950.8	801.6	625.2	494.9	479.5
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)