

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: P318339

Luminaire Tested: **GAN-SA5D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32437 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

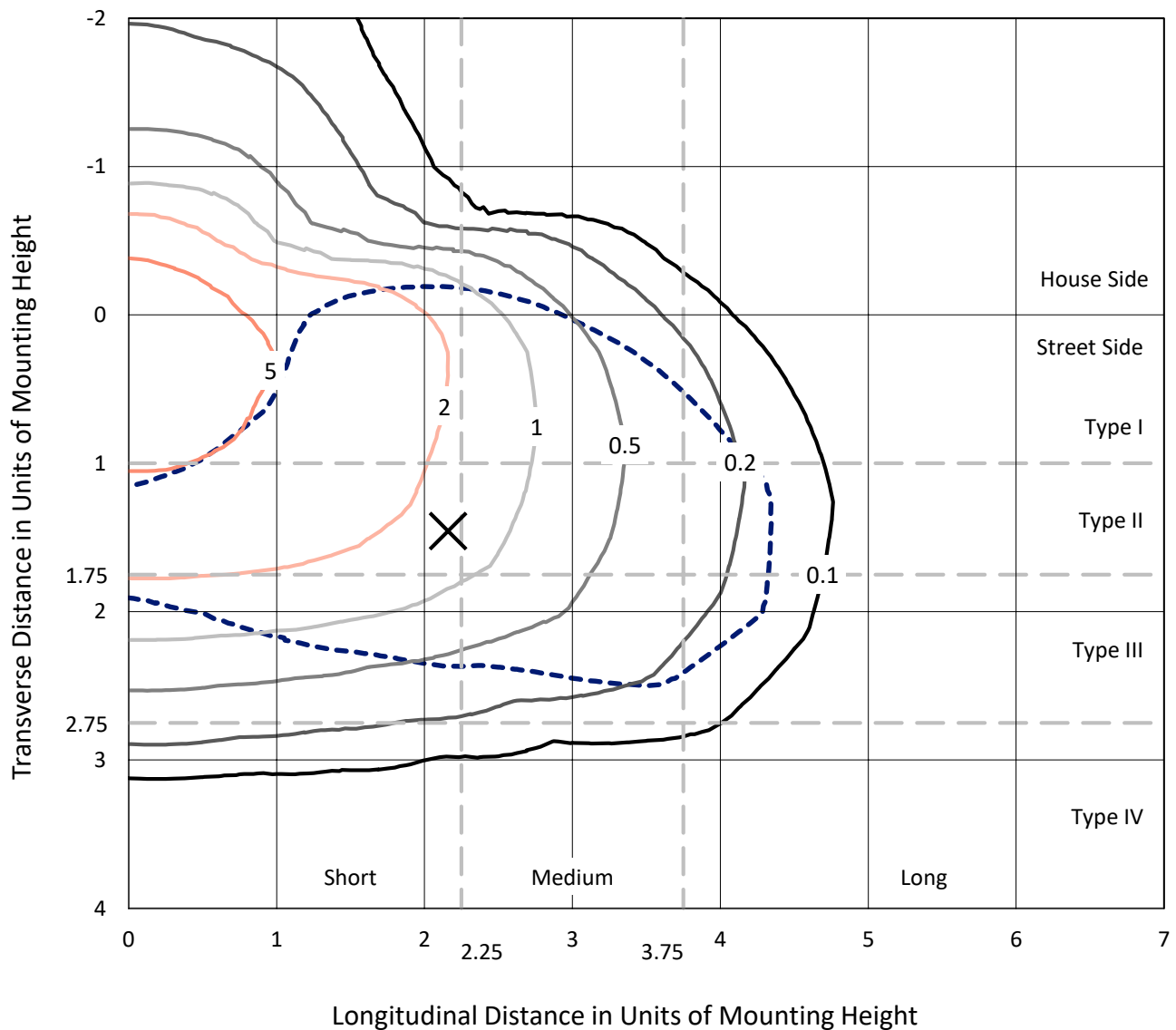
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318339
 CATALOG NUMBER: GAN-SA5D-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

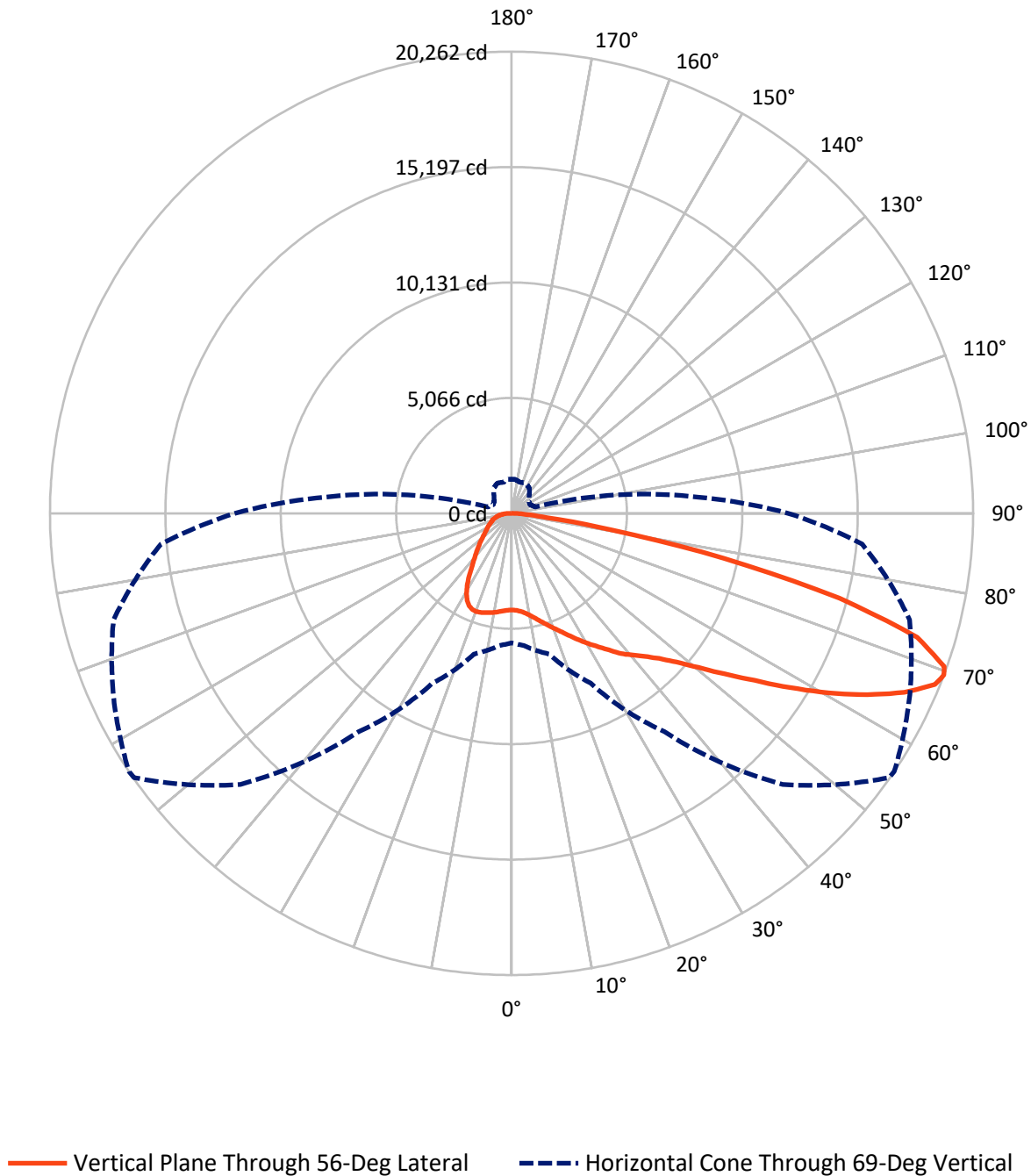
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

REPORT NUMBER: P318339
CATALOG NUMBER: GAN-SA5D-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P318339

CATALOG NUMBER: GAN-SA5D-727-U-T3

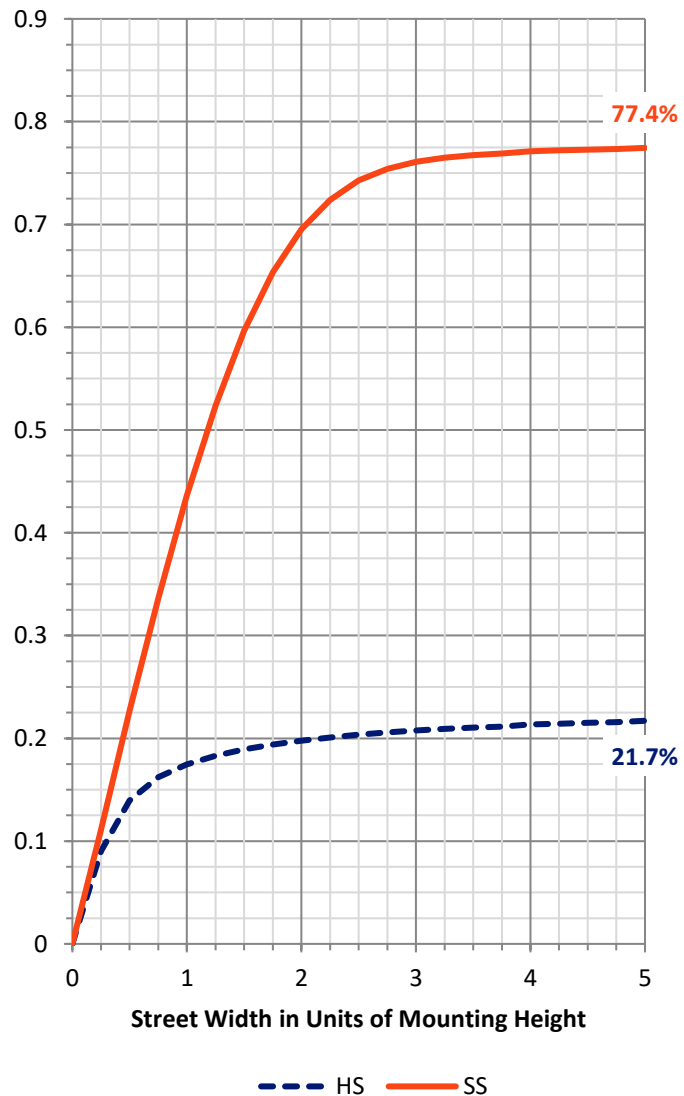
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7223.7	0.0	7223.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25213.3	0.0	25213.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	32437.0	0.0	32437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.5	1.3
10°-20°	1339.3	4.1
20°-30°	2337.9	7.2
30°-40°	3358.3	10.4
40°-50°	4647.7	14.3
50°-60°	6809.5	21.0
60°-70°	8302.1	25.6
70°-80°	4589.9	14.2
80°-90°	635.7	2.0
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°	32437.0	100.0
0°-180°	32437.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318339

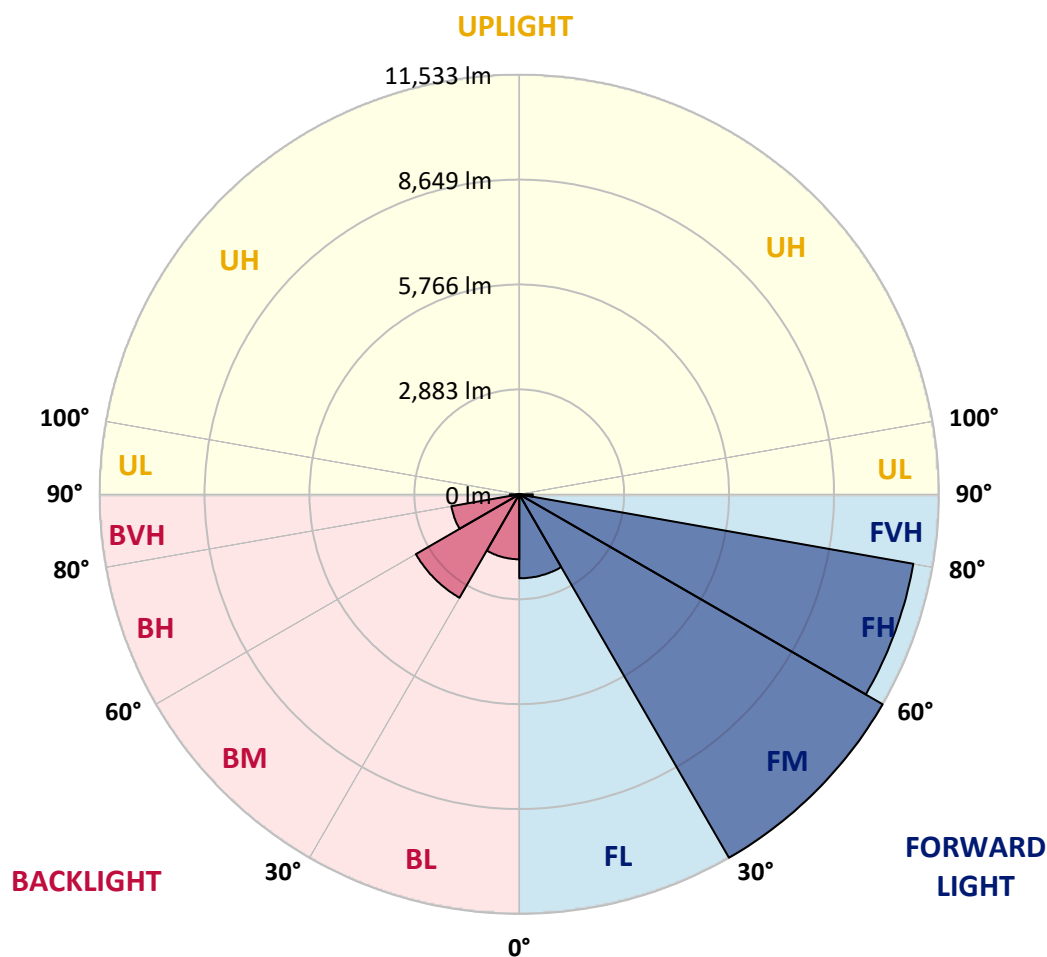
CATALOG NUMBER: GAN-SA5D-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2308.6	7.1			
FM	(30°-60°)	11532.6	35.6			
FH	(60°-80°)	10997.8	33.9			G4/12000
FVH	(80°-90°)	374.5	1.2			G3/500
BL	(0°-30°)	1785.1	5.5	B3/2500		
BM	(30°-60°)	3283.0	10.1	B3/5000		
BH	(60°-80°)	1894.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	261.3	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-G4

Type III Short





REPORT NUMBER: P318339

CATALOG NUMBER: GAN-SA5D-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6
2.5°	4267.5	4271.9	4268.6	4277.5	4267.5	4274.2	4268.6	4268.6	4265.2	4255.2	4244.0
5°	4334.5	4343.5	4337.9	4346.8	4334.5	4336.7	4326.7	4326.7	4316.6	4295.4	4273.1
7.5°	4439.6	4449.6	4445.1	4454.1	4437.3	4437.3	4423.9	4422.8	4402.7	4368.0	4342.3
10°	4564.7	4578.1	4573.6	4587.1	4573.6	4578.1	4564.7	4564.7	4537.9	4488.7	4456.3
12.5°	4746.8	4763.6	4751.3	4750.2	4744.6	4753.6	4742.4	4740.1	4715.6	4648.5	4603.8
15°	4990.4	5008.3	4982.6	4980.4	4949.1	4945.7	4945.7	4942.4	4926.8	4846.3	4772.5
17.5°	5270.9	5276.5	5254.2	5218.4	5178.2	5152.5	5149.1	5158.1	5158.1	5064.2	4946.9
20°	5545.8	5555.9	5538.0	5497.8	5446.4	5408.4	5381.5	5399.4	5398.3	5286.6	5120.1
22.5°	5845.3	5868.7	5841.9	5790.5	5730.2	5687.7	5640.8	5656.4	5657.6	5520.1	5289.9
25°	6233.0	6211.8	6195.0	6122.4	6036.4	5992.8	5949.2	5964.8	5960.4	5771.5	5465.4
27.5°	6576.1	6580.5	6558.2	6481.1	6381.6	6285.5	6283.3	6293.4	6276.6	6033.0	5630.7
30°	6975.0	6977.2	6945.9	6876.7	6768.3	6644.2	6615.2	6632.0	6596.2	6281.1	5805.1
32.5°	7371.7	7382.9	7348.2	7264.4	7177.3	7026.4	6968.3	6979.5	6890.1	6534.7	5985.0
35°	7719.2	7734.9	7723.7	7667.8	7572.8	7443.2	7373.9	7367.2	7256.6	6845.4	6223.0
37.5°	8073.4	8088.0	8075.7	8028.7	7990.7	7853.3	7816.4	7816.4	7624.2	7162.7	6525.8
40°	8437.7	8460.1	8445.5	8380.7	8348.3	8285.7	8197.5	8176.2	7968.4	7543.8	7019.7
42.5°	8776.3	8805.4	8863.5	8825.5	8759.5	8768.5	8590.8	8579.6	8427.7	8107.0	7639.9
45°	9256.8	9299.3	9397.6	9368.5	9355.1	9306.0	9094.8	9084.7	9026.6	8864.6	8409.8
47.5°	9780.9	9839.0	10016.6	10022.2	10166.4	10073.6	9786.5	9751.8	9765.2	9771.9	9349.5
50°	10263.6	10327.3	10618.9	10756.4	11096.1	11116.2	10656.9	10625.6	10678.2	10832.4	10444.6
52.5°	10649.1	10729.6	11093.9	11518.5	12100.7	12266.0	11728.6	11705.1	11744.2	12010.1	11682.7
55°	10931.8	11019.0	11415.7	12188.9	13118.6	13410.3	12962.2	12939.8	12964.4	13303.0	13029.2
57.5°	10997.8	11019.0	11594.5	12640.4	13977.9	14678.6	14471.8	14427.1	14306.5	14601.5	14515.4
60°	10688.2	10773.1	11447.0	12799.1	14642.8	15929.0	16049.7	15993.8	15655.2	15896.6	15827.3
62.5°	10060.2	10212.2	10896.1	12557.7	14903.2	16950.3	17597.3	17530.3	16947.0	17103.4	16770.4
65°	9034.4	9099.2	9817.7	11725.2	14572.4	17604.0	18977.3	18943.8	18209.7	17964.9	16944.7
67.5°	7199.6	7321.4	7931.5	9985.4	13219.2	17526.9	20044.5	20041.1	19034.3	18284.5	16326.8
69°	5687.7	5814.0	6395.1	8225.4	11697.3	16821.8	20223.3	20262.4	19266.7	18090.1	15444.0
70°	4534.5	4680.9	5079.8	6928.1	10346.3	15892.1	20074.6	20145.0	19222.0	17769.4	14629.4
72.5°	1929.8	2048.3	2332.1	3571.3	6305.7	11867.1	18354.9	18620.9	18186.2	16263.1	12090.6
75°	842.5	879.4	1007.9	1456.0	2799.2	6458.7	14379.1	14870.8	15550.2	13746.6	9006.5
77.5°	616.8	632.5	702.9	854.8	1256.0	2439.4	9246.7	9532.8	11214.5	10003.2	5524.6
80°	477.1	488.3	543.1	628.0	820.2	986.7	4217.2	4463.0	6305.7	5137.9	2300.8
82.5°	379.9	387.7	425.7	462.6	566.5	597.8	1400.1	1553.2	2327.6	1419.1	609.0
85°	353.1	362.0	375.5	337.5	363.2	350.9	605.6	633.6	702.9	557.6	254.8
87.5°	159.8	188.8	372.1	262.6	193.3	154.2	248.1	259.2	291.6	292.8	112.9
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: P318339

CATALOG NUMBER: GAN-SA5D-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6	4240.6
2.5°	4250.7	4247.4	4252.9	4239.5	4256.3	4255.2	4249.6	4251.8	4263.0	4261.9	4263.0
5°	4276.4	4274.2	4280.9	4270.8	4290.9	4297.6	4298.8	4308.8	4321.1	4324.5	4324.5
7.5°	4341.2	4341.2	4344.6	4331.2	4344.6	4343.5	4337.9	4347.9	4360.2	4361.3	4360.2
10°	4453.0	4454.1	4448.5	4413.9	4402.7	4372.5	4344.6	4345.7	4361.3	4373.6	4377.0
12.5°	4593.8	4589.3	4564.7	4501.0	4454.1	4392.6	4363.6	4362.4	4378.1	4388.2	4391.5
15°	4754.7	4742.4	4678.7	4574.8	4492.1	4431.7	4384.8	4373.6	4364.7	4353.5	4354.6
17.5°	4906.6	4878.7	4772.5	4628.4	4541.2	4460.8	4370.3	4297.6	4247.4	4218.3	4209.4
20°	5060.8	5006.1	4853.0	4678.7	4568.1	4421.7	4247.4	4099.9	4008.2	3965.8	3957.9
22.5°	5201.6	5113.4	4927.9	4731.2	4546.8	4289.8	4016.0	3801.5	3674.1	3617.1	3621.6
25°	5339.1	5216.2	5006.1	4768.1	4439.6	4057.4	3694.2	3430.5	3283.0	3219.3	3217.1
27.5°	5459.8	5320.1	5091.0	4737.9	4239.5	3726.6	3313.2	3056.2	2933.3	2878.5	2869.6
30°	5598.3	5450.8	5203.9	4622.8	3946.8	3344.5	2941.1	2760.1	2672.9	2618.1	2608.1
32.5°	5767.1	5628.5	5296.6	4413.9	3572.4	2945.5	2650.5	2524.3	2444.9	2383.5	2372.3
35°	6012.9	5863.2	5320.1	4114.4	3161.2	2630.4	2437.1	2307.5	2200.2	2120.9	2113.1
37.5°	6321.3	6157.0	5266.5	3726.6	2762.3	2425.9	2259.4	2099.7	1960.0	1848.2	1830.4
40°	6766.0	6518.0	5117.8	3279.7	2468.4	2268.4	2086.2	1904.1	1730.9	1600.2	1574.5
42.5°	7300.2	6941.5	4889.9	2834.9	2252.7	2108.6	1914.2	1688.4	1523.1	1430.3	1416.9
45°	7979.6	7381.7	4573.6	2446.1	2040.4	1948.8	1728.7	1520.8	1418.0	1349.9	1338.7
47.5°	8755.1	7875.7	4241.8	2129.8	1860.5	1799.1	1580.0	1446.0	1364.4	1310.7	1300.7
50°	9708.2	8433.2	3889.8	1870.6	1679.5	1619.2	1509.6	1404.6	1339.8	1298.5	1288.4
52.5°	10783.2	9062.4	3636.1	1666.1	1529.8	1486.2	1472.8	1382.3	1329.7	1298.5	1288.4
55°	11940.9	9702.7	3362.3	1494.0	1400.1	1412.4	1448.2	1384.5	1348.7	1310.7	1296.2
57.5°	13099.6	10364.2	3057.3	1348.7	1297.3	1357.7	1431.4	1389.0	1358.8	1321.9	1308.5
60°	14015.9	10783.2	2584.6	1226.9	1215.8	1297.3	1391.2	1355.4	1316.3	1317.5	1315.2
62.5°	14443.9	10760.9	2062.8	1118.5	1134.2	1215.8	1326.4	1302.9	1270.5	1314.1	1317.5
65°	14203.7	10224.5	1605.7	1020.2	1047.0	1130.8	1259.3	1277.2	1288.4	1372.2	1383.4
67.5°	13195.7	9180.8	1243.7	934.2	967.7	1072.7	1266.0	1391.2	1405.7	1494.0	1492.9
69°	12153.2	8201.9	1080.6	889.5	928.6	1087.3	1353.2	1463.8	1409.1	1502.9	1489.5
70°	11279.3	7427.6	993.4	859.3	910.7	1113.0	1411.3	1462.7	1392.3	1472.8	1450.4
72.5°	8686.9	5343.6	842.5	803.4	850.4	1064.9	1428.1	1430.3	1353.2	1368.9	1330.9
75°	5958.1	3376.9	735.3	727.4	758.7	959.9	1374.4	1366.6	1251.5	1229.2	1197.9
77.5°	3285.2	1715.3	624.6	654.8	676.0	850.4	1249.3	1238.1	1143.1	1096.2	1085.0
80°	1267.2	750.9	527.4	582.2	595.6	736.4	1095.1	1085.0	1005.7	945.3	928.6
82.5°	478.3	393.3	435.8	504.0	499.5	607.9	927.5	921.9	844.8	756.5	729.7
85°	221.3	235.8	345.3	415.7	383.3	450.3	742.0	752.0	658.2	553.1	553.1
87.5°	93.9	131.9	244.7	314.0	258.1	303.9	544.2	519.6	477.1	330.8	310.6
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)