

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: P322173

Luminaire Tested: **GAN-SA9C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38535 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

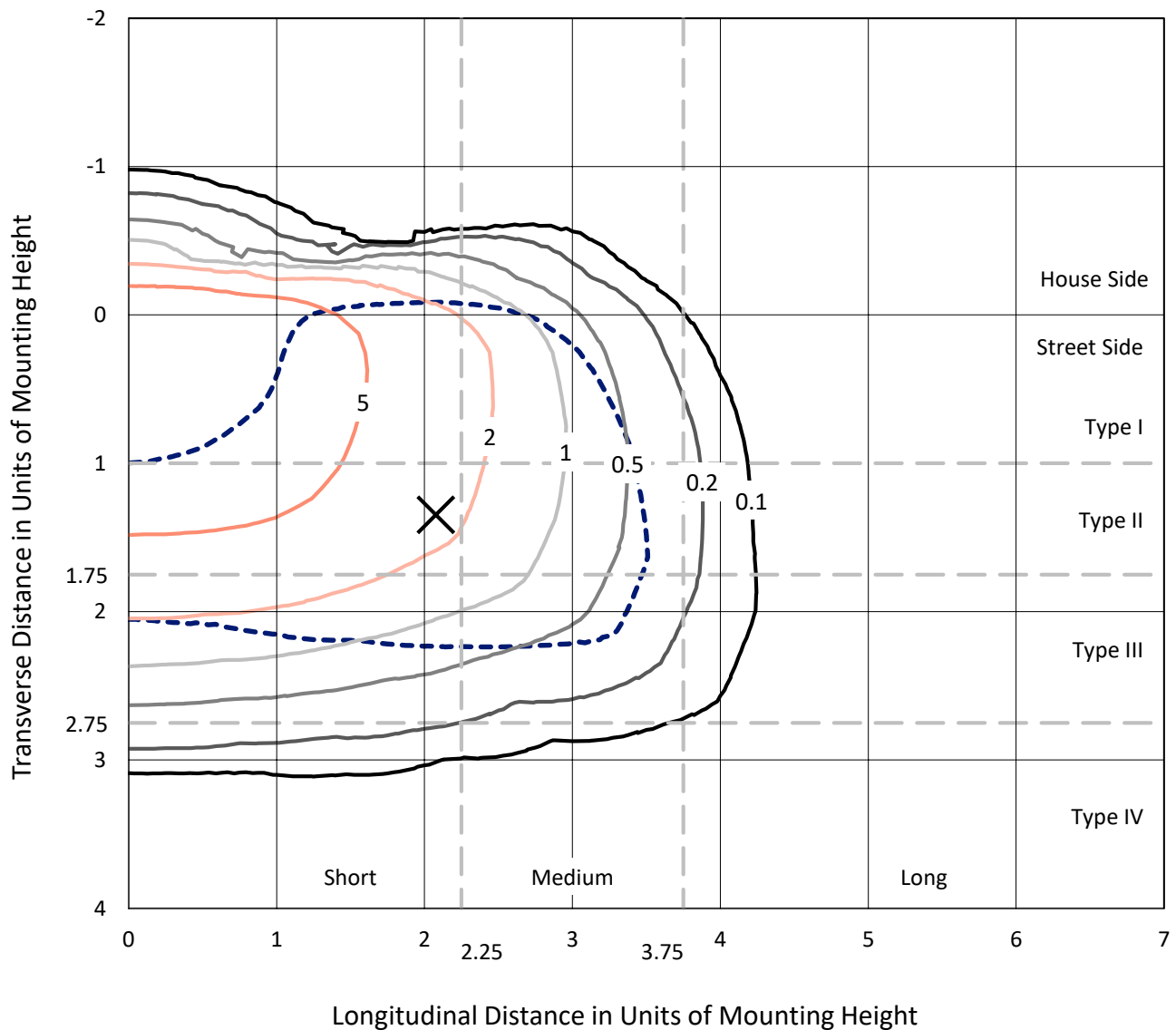


REPORT NUMBER: P322173

CATALOG NUMBER: GAN-SA9C-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

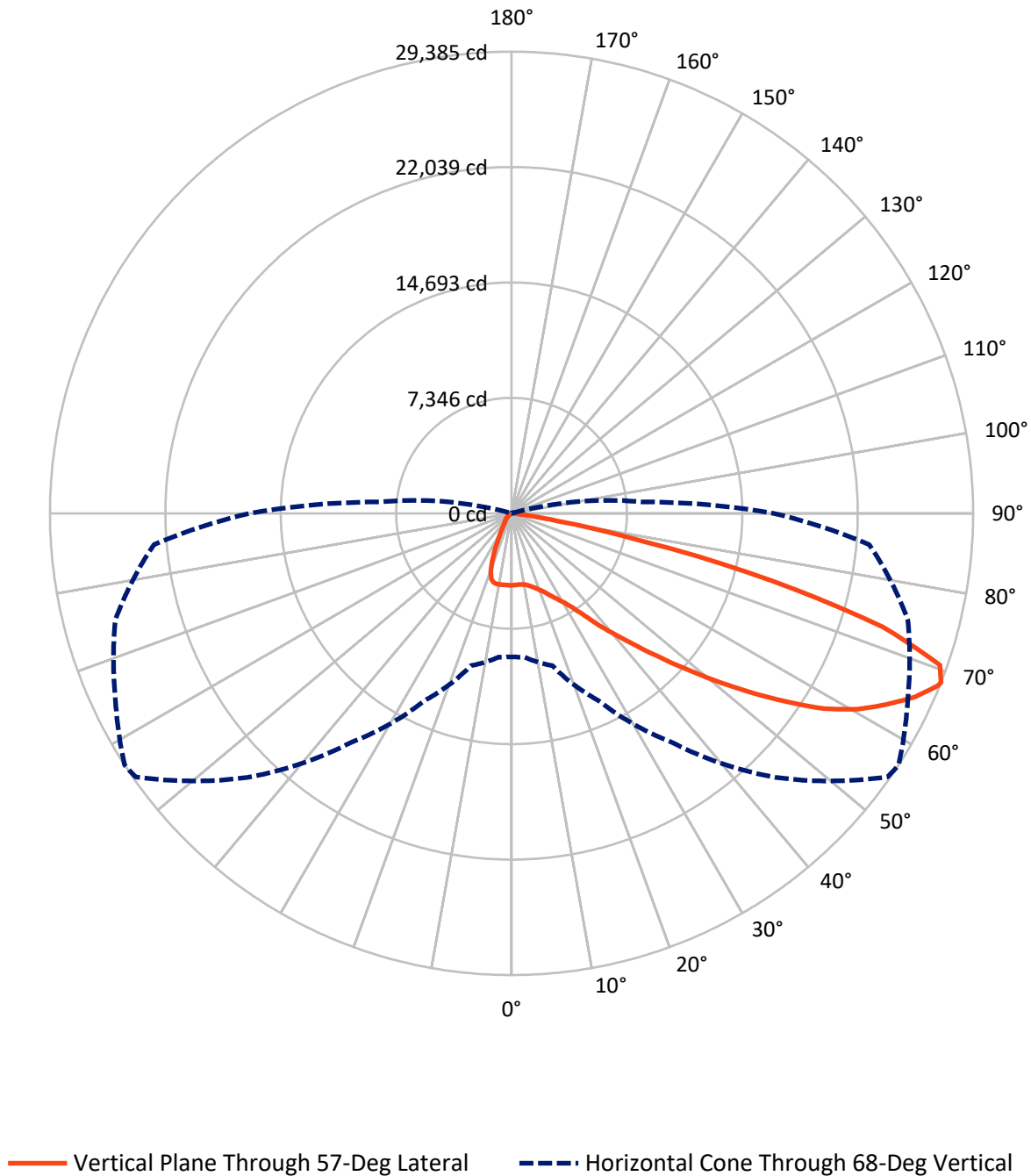
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type III - Short - N/A

REPORT NUMBER: P322173
CATALOG NUMBER: GAN-SA9C-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322173

CATALOG NUMBER: GAN-SA9C-727-U-T3-HSS

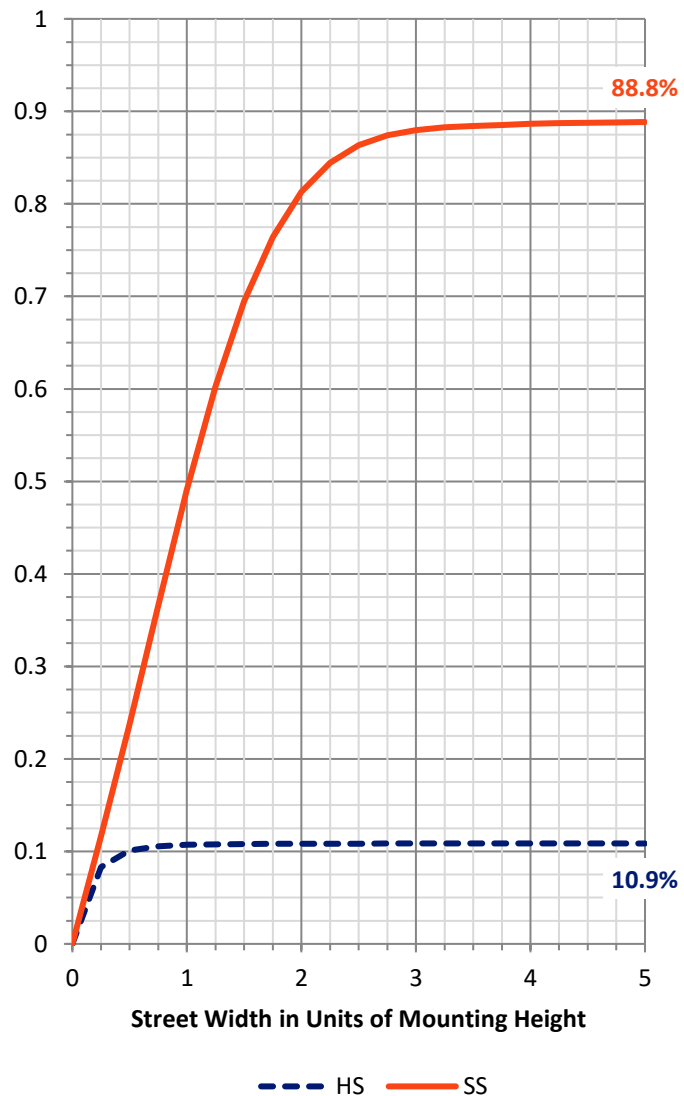
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4225.6	0.0	4225.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	34309.4	0.0	34309.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	38535.0	0.0	38535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	1.1
10°-20°	1187.5	3.1
20°-30°	2048.5	5.3
30°-40°	3535.6	9.2
40°-50°	6047.8	15.7
50°-60°	9675.8	25.1
60°-70°	11179.4	29.0
70°-80°	4271.8	11.1
80°-90°	160.1	0.4
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°	38535.0	100.0
0°-180°	38535.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322173

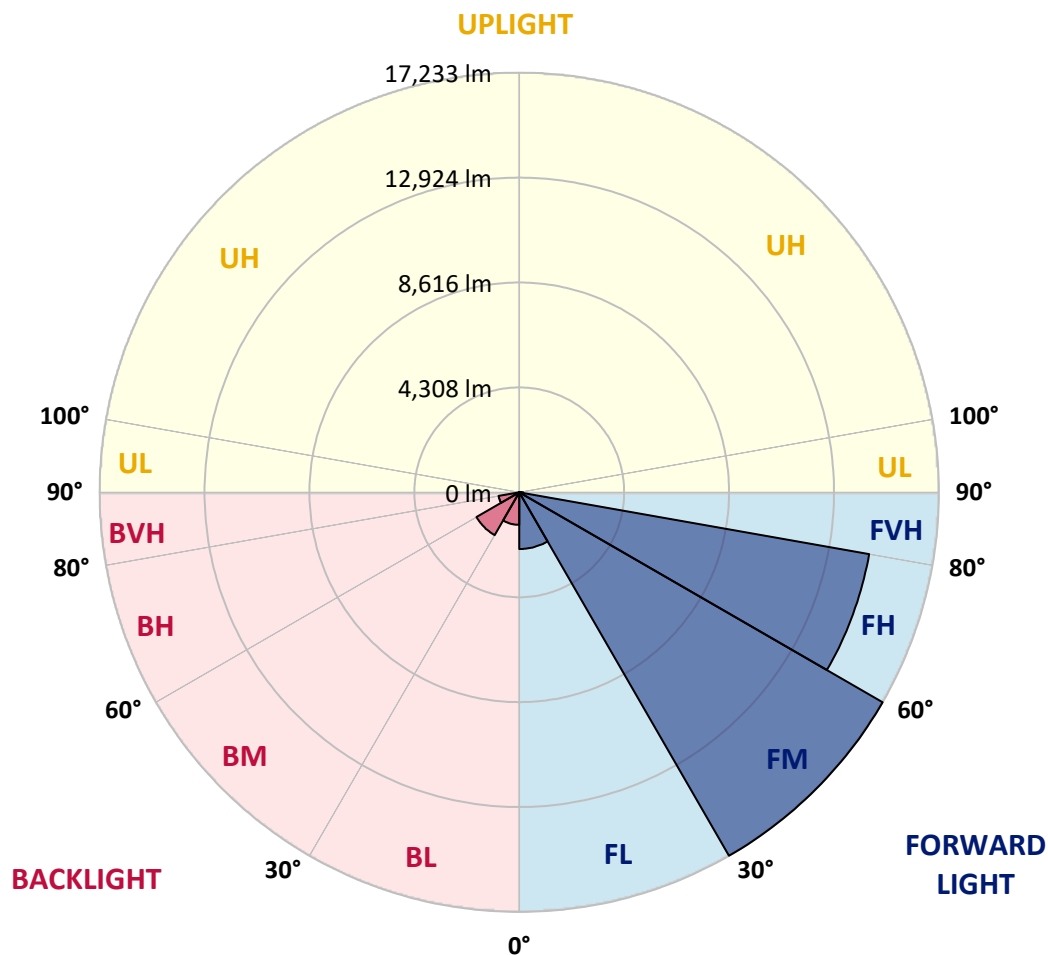
CATALOG NUMBER: GAN-SA9C-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2329.1	6.0			
FM	(30°-60°)	17232.5	44.7			
FH	(60°-80°)	14590.6	37.9			G5
FVH	(80°-90°)	157.2	0.4			G2/225
BL	(0°-30°)	1335.4	3.5	B3/2500		
BM	(30°-60°)	2026.7	5.3	B2/2500		
BH	(60°-80°)	860.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P322173

CATALOG NUMBER: GAN-SA9C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0
2.5°	4471.5	4491.5	4506.1	4515.2	4526.1	4549.8	4557.1	4568.0	4573.5	4573.5	4586.3
5°	4294.7	4316.6	4347.6	4373.1	4424.1	4489.7	4537.1	4555.3	4588.1	4617.2	4633.6
7.5°	4130.7	4156.2	4192.7	4252.8	4340.3	4446.0	4544.4	4569.9	4633.6	4695.6	4726.6
10°	4025.1	4045.1	4092.5	4178.1	4292.9	4440.5	4579.0	4609.9	4719.3	4823.1	4881.4
12.5°	3988.6	4006.8	4056.0	4152.6	4294.7	4467.8	4659.1	4704.7	4865.0	5016.3	5098.3
15°	4041.5	4045.1	4097.9	4189.0	4329.3	4535.2	4792.2	4846.8	5049.1	5245.9	5347.9
17.5°	4245.5	4229.1	4256.5	4296.5	4407.7	4624.5	4932.5	5014.5	5284.1	5515.5	5612.1
20°	4755.7	4755.7	4693.8	4584.4	4586.3	4763.0	5122.0	5214.9	5544.7	5812.5	5900.0
22.5°	5628.5	5612.1	5488.2	5220.4	4974.4	5001.7	5353.4	5473.6	5858.1	6144.2	6173.3
25°	6678.0	6658.0	6466.7	6089.5	5663.1	5388.0	5666.8	5805.3	6231.6	6484.9	6424.8
27.5°	7789.5	7773.1	7583.6	7115.4	6508.6	6003.9	6040.3	6171.5	6612.5	6862.1	6670.8
30°	8866.4	8871.9	8684.2	8203.2	7516.2	6789.2	6514.1	6590.6	6982.3	7235.6	6962.3
32.5°	9890.4	9897.7	9735.6	9198.0	8556.7	7702.1	7170.0	7150.0	7412.4	7662.0	7348.6
35°	10803.3	10821.5	10710.4	10293.1	9613.5	8718.8	8020.9	7973.6	8022.8	8305.2	7940.8
37.5°	11683.4	11694.3	11610.5	11258.8	10690.3	9835.8	9096.0	9028.6	8922.9	9139.7	8722.5
40°	12647.3	12620.0	12523.4	12204.5	11716.2	11069.3	10251.2	10134.6	9950.6	10143.7	9750.1
42.5°	13543.8	13512.8	13529.2	13168.4	12756.6	12337.5	11597.8	11397.3	11289.8	11512.1	11011.0
45°	14664.4	14648.0	14702.6	14389.2	14055.8	13751.5	13141.1	12922.4	12875.1	13135.6	12536.1
47.5°	15770.4	15810.5	15979.9	15846.9	15712.1	15444.2	14775.5	14677.1	14706.3	15021.5	14145.1
50°	16692.4	16739.8	17204.4	17357.5	17552.4	17395.7	16725.2	16665.1	16779.9	17064.1	15876.1
52.5°	17359.3	17455.9	18033.5	18738.6	19449.3	19554.9	18886.2	18831.6	18986.4	19030.2	17213.5
55°	17822.1	17907.7	18561.9	19851.9	21298.7	21754.2	21338.8	21127.4	21098.3	20666.4	18620.2
57.5°	17904.1	17895.0	18835.2	20571.7	22749.1	23924.4	23662.0	23454.3	22856.6	22178.8	20232.8
60°	17441.3	17494.1	18585.6	20821.3	23660.2	25566.1	25586.1	25316.5	24385.4	23649.2	21796.1
62.5°	16016.4	16231.4	17333.8	20167.2	23649.2	26227.5	26996.4	26790.6	25677.2	24853.6	23381.4
65°	13705.9	13782.5	14833.8	17926.0	22051.2	25950.6	28266.5	28189.9	26841.6	26023.4	24195.9
67.5°	10008.9	9843.1	10947.3	14115.9	18669.4	24336.2	29177.5	29274.1	27739.9	26264.0	23328.5
68°	9134.3	9183.5	10043.5	13173.9	17783.8	23765.8	29237.7	29385.2	27829.2	26107.3	22854.8
70°	5444.5	5539.2	6306.3	9070.5	13529.2	20538.9	28589.0	28926.1	27297.1	24491.0	19768.1
72.5°	1390.3	1503.2	2228.4	4059.7	7727.6	14471.2	24133.9	24704.2	23700.2	19868.3	13345.2
75°	572.1	601.3	796.3	1337.4	2878.9	6519.5	15907.1	17127.9	16430.0	11894.8	6031.2
77.5°	395.4	415.4	512.0	741.6	1246.3	2210.2	7798.7	8680.6	7820.5	4059.7	1315.6
80°	284.2	300.6	366.2	493.8	716.1	789.0	2541.8	2939.1	2334.1	891.0	326.2
82.5°	169.5	182.2	273.3	351.7	435.5	377.2	632.3	717.9	676.0	442.8	145.8
85°	83.8	98.4	184.0	251.5	235.1	158.5	193.1	215.0	266.0	269.7	78.4
87.5°	5.5	10.9	107.5	151.2	65.6	36.4	56.5	69.2	94.7	133.0	32.8
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: P322173

CATALOG NUMBER: GAN-SA9C-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0	4579.0
2.5°	4591.7	4593.6	4580.8	4575.3	4579.0	4557.1	4548.0	4551.6	4551.6	4557.1	4548.0
5°	4637.3	4637.3	4615.4	4586.3	4569.9	4528.0	4500.6	4493.3	4487.9	4484.2	4476.9
7.5°	4735.7	4724.7	4686.5	4622.7	4568.0	4476.9	4407.7	4371.3	4353.0	4345.7	4340.3
10°	4894.2	4874.2	4810.4	4691.9	4566.2	4404.1	4252.8	4145.3	4056.0	4019.6	3997.7
12.5°	5107.4	5078.2	4970.7	4773.9	4553.5	4254.6	3926.7	3611.4	3318.1	3197.8	3137.7
15°	5353.4	5311.5	5142.0	4843.2	4478.8	3917.5	3205.1	2653.0	2246.7	2093.6	2028.0
17.5°	5603.0	5548.3	5291.4	4886.9	4254.6	3219.7	2248.5	1698.2	1426.7	1353.8	1328.3
20°	5854.5	5774.3	5420.8	4854.1	3748.1	2321.4	1483.2	1240.9	1162.5	1140.6	1133.4
22.5°	6093.2	5969.2	5537.4	4726.6	2968.2	1557.9	1173.4	1096.9	1071.4	1058.6	1055.0
25°	6300.9	6127.8	5639.4	4333.0	2100.9	1177.1	1056.8	1031.3	998.5	974.8	976.7
27.5°	6495.8	6286.3	5701.4	3684.3	1401.2	1005.8	978.5	943.9	883.7	849.1	849.1
30°	6730.9	6497.7	5746.9	2835.2	1031.3	889.2	867.3	814.5	732.5	686.9	686.9
32.5°	7084.4	6818.4	5717.8	1989.7	854.6	781.7	730.7	657.8	568.5	524.8	522.9
35°	7625.5	7314.0	5510.1	1304.6	754.4	679.6	597.7	508.4	430.0	393.6	391.8
37.5°	8354.4	7977.2	5043.6	932.9	676.0	584.9	486.5	388.1	329.8	306.1	304.3
40°	9300.1	8748.0	4376.7	756.2	603.1	493.8	375.4	300.6	260.6	242.3	244.2
42.5°	10435.3	9573.4	3576.8	652.3	532.1	406.3	293.4	236.9	211.4	198.6	195.0
45°	11696.2	10387.9	2738.6	581.3	461.0	328.0	229.6	187.7	167.6	160.3	160.3
47.5°	13082.8	11180.5	2004.3	519.3	384.5	253.3	184.0	153.1	136.7	131.2	129.4
50°	14341.9	11730.8	1444.9	453.7	315.2	200.4	149.4	127.5	116.6	109.3	109.3
52.5°	15391.4	11903.9	1064.1	382.6	255.1	160.3	123.9	109.3	98.4	92.9	92.9
55°	16315.2	11832.8	790.8	315.2	205.9	131.2	105.7	92.9	83.8	78.4	78.4
57.5°	17200.8	11603.2	590.4	256.9	165.8	105.7	89.3	78.4	69.2	65.6	65.6
60°	17924.1	11220.6	439.1	207.7	133.0	85.6	74.7	63.8	56.5	51.0	51.0
62.5°	18510.9	10797.9	322.5	171.3	105.7	67.4	58.3	52.8	41.9	36.4	36.4
65°	18514.5	10096.3	242.3	142.1	82.0	52.8	43.7	41.9	27.3	21.9	20.0
67.5°	17175.3	8704.2	185.9	122.1	63.8	40.1	32.8	34.6	14.6	9.1	7.3
68°	16688.7	8350.8	174.9	120.3	60.1	38.3	31.0	34.6	12.8	7.3	5.5
70°	14070.4	6643.4	140.3	116.6	52.8	29.2	25.5	34.6	10.9	5.5	3.6
72.5°	8999.4	3855.6	103.9	92.9	40.1	21.9	16.4	31.0	10.9	3.6	1.8
75°	3830.1	1195.3	71.1	65.6	23.7	16.4	10.9	20.0	7.3	1.8	0.0
77.5°	807.2	269.7	41.9	40.1	16.4	10.9	7.3	5.5	1.8	0.0	0.0
80°	207.7	78.4	21.9	20.0	9.1	5.5	3.6	0.0	0.0	0.0	0.0
82.5°	65.6	31.0	12.8	9.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.8	18.2	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)