

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: P322473

Luminaire Tested: **GAN-SA9A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24744 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

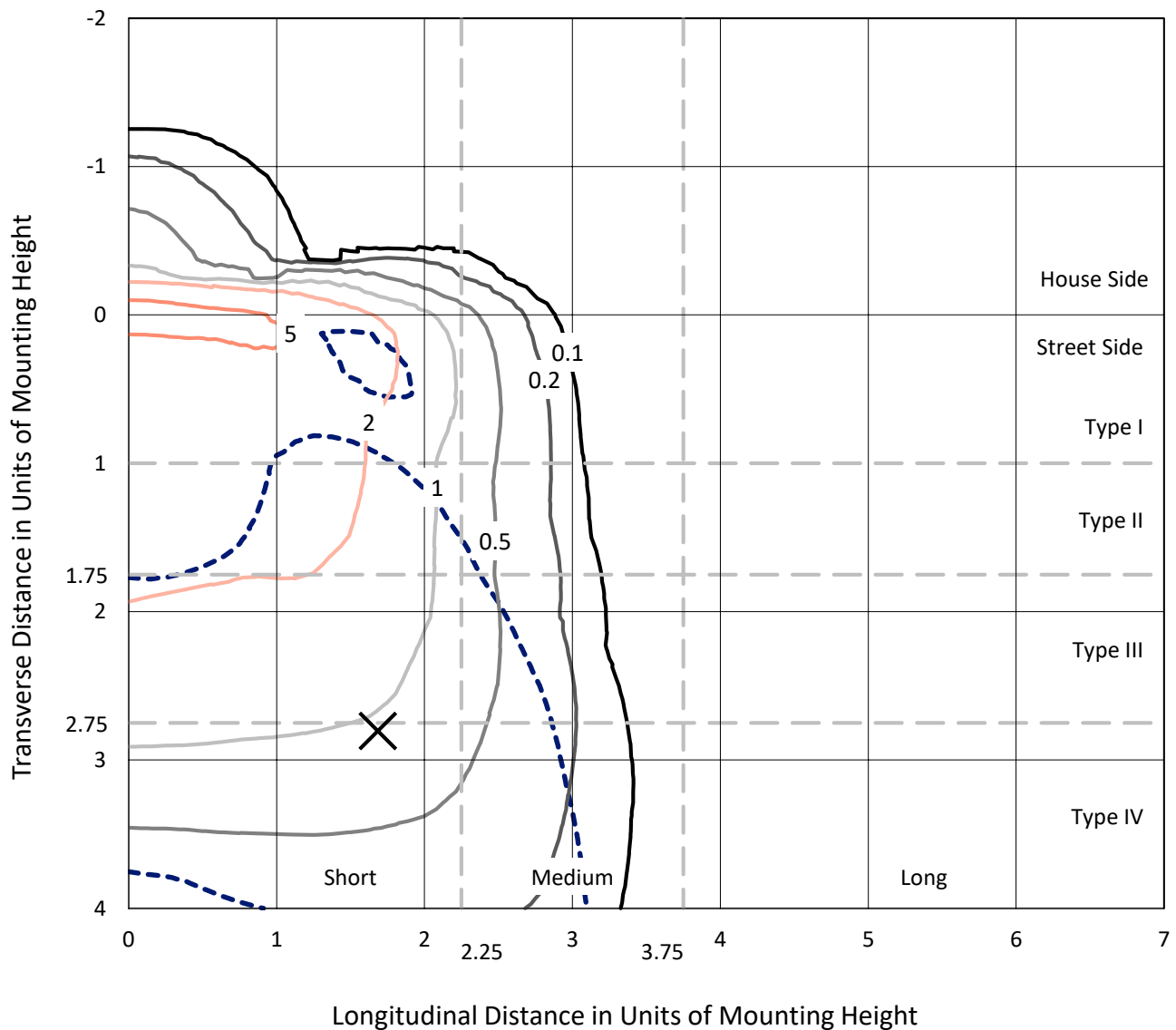
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322473
 CATALOG NUMBER: GAN-SA9A-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

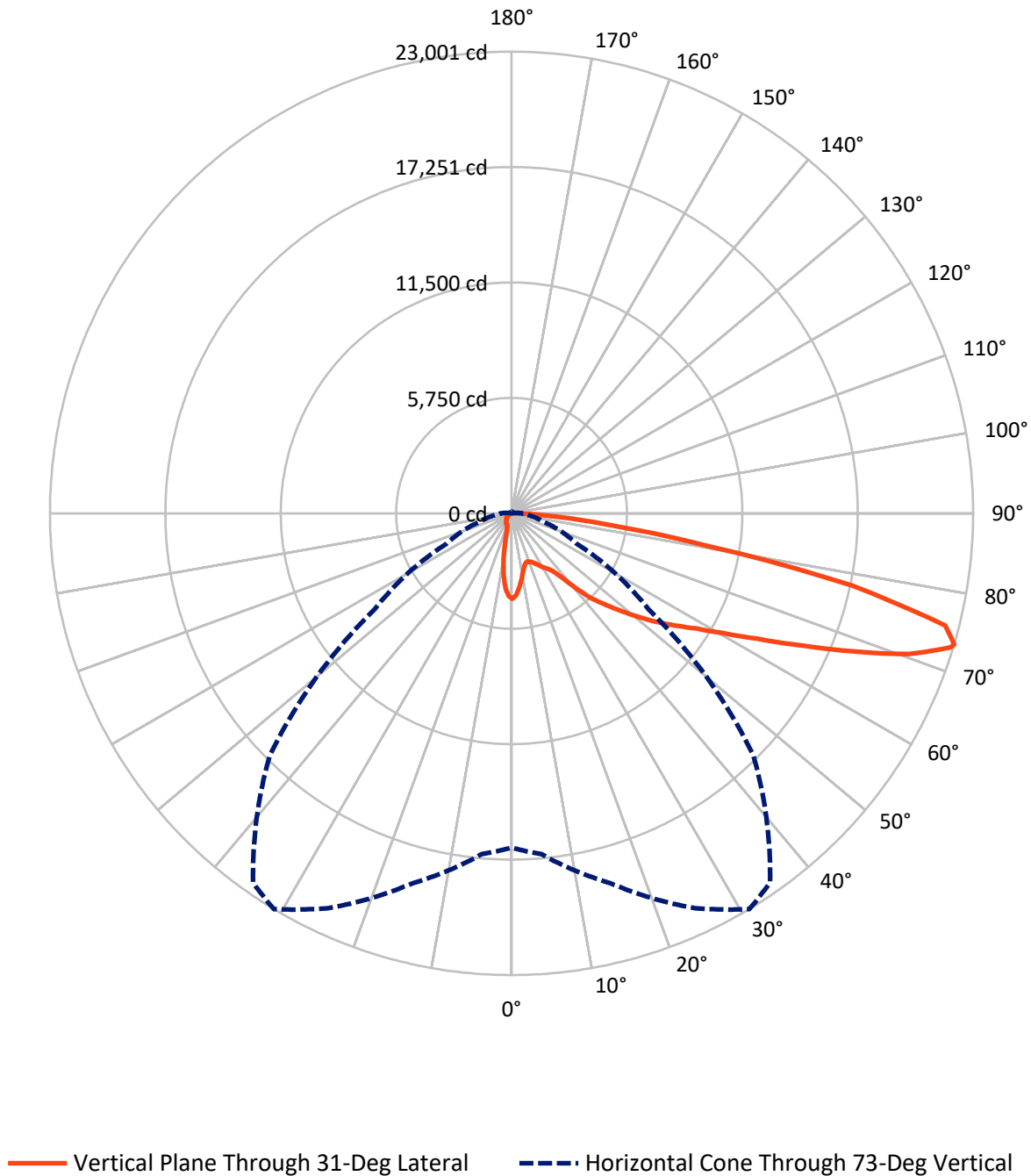
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P322473
CATALOG NUMBER: GAN-SA9A-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322473

CATALOG NUMBER: GAN-SA9A-727-U-T4FT-HSS

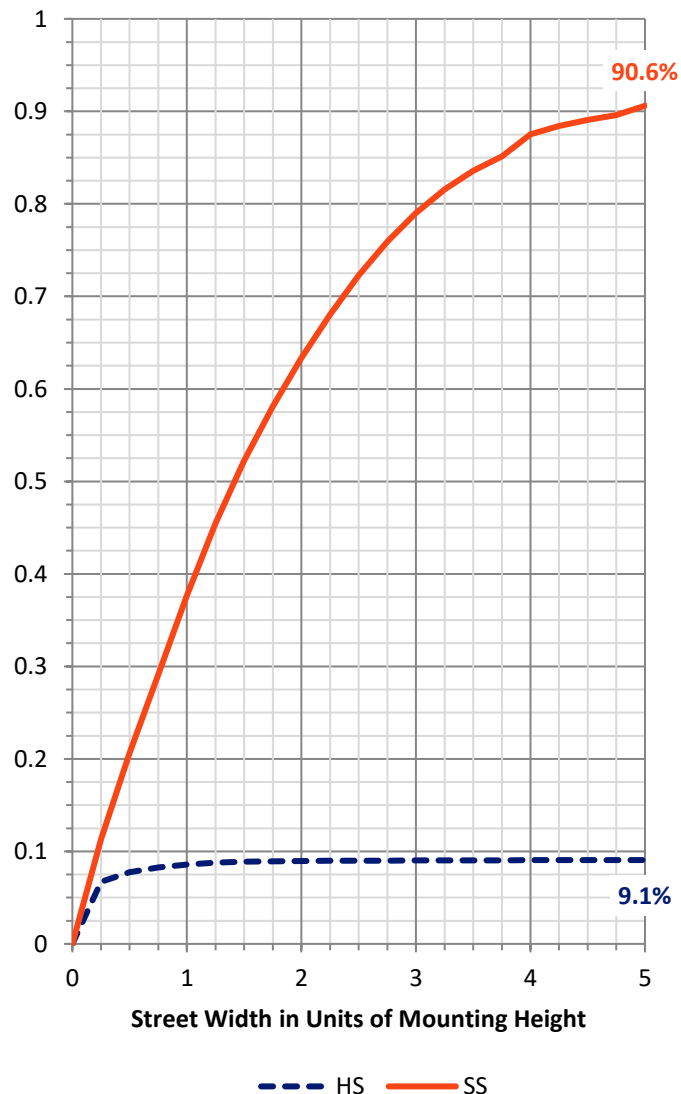
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2255.5	0.0	2255.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	22488.5	0.0	22488.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	24744.0	0.0	24744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	1.4
10°-20°	766.4	3.1
20°-30°	1148.3	4.6
30°-40°	1827.0	7.4
40°-50°	3262.5	13.2
50°-60°	5062.5	20.5
60°-70°	6729.9	27.2
70°-80°	5062.3	20.5
80°-90°	531.9	2.1
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°	24744.0	100.0
0°-180°	24744.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322473

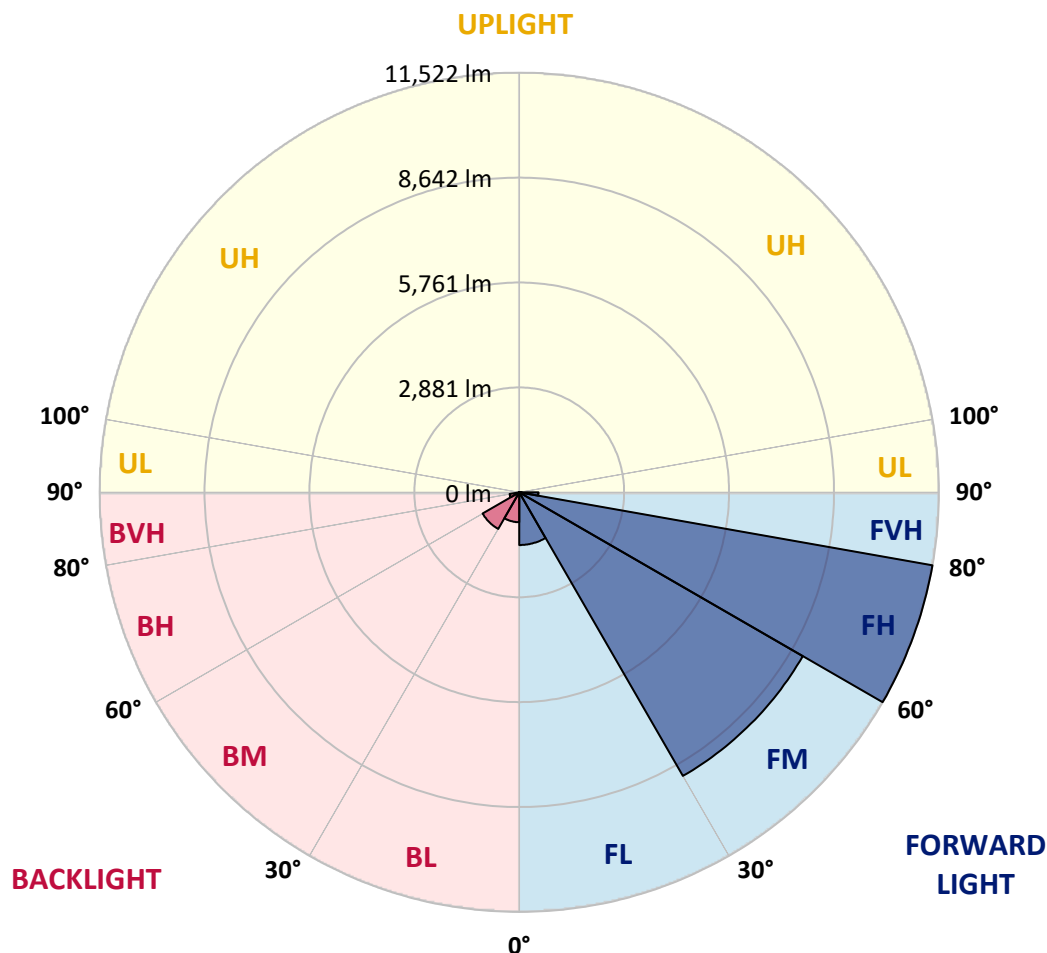
CATALOG NUMBER: GAN-SA9A-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1447.6	5.9			
FM	(30°-60°)	8991.1	36.3			
FH	(60°-80°)	11522.4	46.6			G4/12000
FVH	(80°-90°)	527.5	2.1			G4/750
BL	(0°-30°)	820.2	3.3	B2/1000		
BM	(30°-60°)	1161.0	4.7	B2/2500		
BH	(60°-80°)	269.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P322473

CATALOG NUMBER: GAN-SA9A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3
2.5°	4034.5	4051.4	4069.6	4073.2	4103.5	4104.7	4148.3	4181.0	4213.7	4245.1	4256.0
5°	3620.4	3648.2	3680.9	3713.6	3777.8	3803.2	3909.7	4018.7	4122.9	4222.1	4270.6
7.5°	3178.4	3209.9	3255.9	3337.0	3408.5	3458.1	3626.4	3820.1	4013.9	4196.7	4302.1
10°	2775.2	2804.3	2852.7	2938.7	3048.9	3116.7	3343.1	3611.9	3896.4	4173.7	4349.3
12.5°	2518.5	2534.3	2560.9	2652.9	2752.2	2828.5	3094.9	3427.8	3799.6	4172.5	4425.6
15°	2471.3	2476.1	2454.3	2495.5	2573.0	2646.9	2916.9	3278.9	3725.7	4191.9	4524.8
17.5°	2546.4	2543.9	2471.3	2466.4	2528.2	2588.7	2829.7	3176.0	3673.6	4236.7	4653.2
20°	2660.2	2651.7	2525.8	2502.8	2568.2	2625.1	2823.6	3137.2	3654.3	4311.7	4809.4
22.5°	2811.5	2797.0	2599.6	2575.4	2645.6	2705.0	2898.7	3174.8	3671.2	4412.2	4991.0
25°	2999.2	2977.4	2726.8	2700.1	2771.6	2830.9	3033.1	3282.5	3722.1	4534.5	5221.1
27.5°	3211.1	3179.6	2930.2	2861.2	2942.3	3004.1	3212.3	3447.2	3802.0	4664.1	5503.2
30°	3410.9	3369.7	3144.5	3030.7	3130.0	3199.0	3406.0	3643.4	3930.3	4863.9	5889.4
32.5°	3611.9	3565.9	3335.8	3200.2	3289.8	3364.9	3605.8	3913.4	4171.3	5169.0	6402.8
35°	4074.4	4026.0	3743.9	3519.9	3518.7	3561.0	3885.5	4282.7	4489.7	5594.0	7015.5
37.5°	4853.0	4825.1	4556.3	4131.3	4017.5	3970.3	4266.9	4723.4	4947.4	6178.8	7706.9
40°	5705.4	5681.2	5379.7	4994.6	4821.5	4705.3	4814.2	5337.3	5594.0	6893.2	8412.8
42.5°	6668.0	6553.0	6015.4	5900.3	5745.4	5657.0	5558.9	6094.1	6388.3	7670.6	9112.7
45°	7542.2	7348.5	6651.1	6476.7	6441.6	6463.4	6517.9	7111.2	7281.9	8594.4	9810.1
47.5°	8062.9	7910.3	7375.1	7208.0	7198.3	7342.4	7754.1	8260.2	8171.8	9399.6	10424.0
50°	8558.1	8420.1	7975.7	8016.9	8061.7	8257.8	9157.5	9442.0	8984.3	10129.8	10987.0
52.5°	8958.9	8748.2	8515.7	8747.0	8967.4	9283.4	10605.6	10502.7	9560.7	10710.9	11468.9
55°	9190.2	9094.5	9207.1	9439.6	9853.7	10367.1	11972.6	11385.4	9982.0	11241.3	11789.8
57.5°	10037.7	9850.1	10074.1	10275.0	10815.1	11533.1	13143.5	12042.9	10285.9	11569.4	11863.6
60°	11063.3	10911.9	11043.9	11378.1	12107.0	12951.0	14238.1	12579.2	10444.6	11780.1	11672.3
62.5°	12695.5	12495.7	12413.4	12787.5	13753.7	14675.2	15068.7	12951.0	10409.5	11686.9	11016.1
65°	14882.2	14675.2	14307.1	14646.1	15875.1	16525.3	15997.4	13029.7	10167.3	10932.5	9357.2
67.5°	17122.3	16972.1	16657.3	17228.8	18337.9	18547.4	16979.4	12838.4	9387.5	8864.4	6611.1
70°	18601.9	18537.7	18742.3	20006.4	20995.7	20935.1	17880.2	11810.4	7317.0	5451.1	3270.4
72.5°	17535.1	17842.7	19353.8	21645.9	22854.3	22360.3	17417.7	9069.1	4182.2	2097.1	945.7
73°	16651.2	17044.8	19078.9	21707.6	23000.8	22459.6	17029.0	8324.4	3564.7	1655.2	716.8
75°	11583.9	12067.1	15795.2	20217.1	22315.5	21398.9	14194.5	5095.1	1651.6	733.8	289.4
77.5°	5624.3	5981.5	8697.3	14607.4	17354.7	16719.1	8836.6	1898.6	745.9	458.9	133.2
80°	2099.6	2334.5	3775.3	7434.5	10029.3	10292.0	3886.7	718.0	496.4	369.3	67.8
82.5°	549.7	612.7	1392.4	3315.2	5139.9	5379.7	1225.4	362.0	363.2	303.9	41.2
85°	175.6	201.0	434.7	1488.1	2421.6	2126.2	319.7	175.6	264.0	226.4	23.0
87.5°	21.8	27.8	138.0	349.9	534.0	296.7	49.6	52.1	112.6	125.9	13.3
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: P322473

CATALOG NUMBER: GAN-SA9A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3	4257.3
2.5°	4266.9	4260.9	4262.1	4230.6	4210.0	4168.9	4126.5	4107.1	4086.5	4078.1	4086.5
5°	4288.7	4277.8	4246.4	4149.5	4046.6	3913.4	3788.7	3694.2	3575.6	3542.9	3576.8
7.5°	4322.6	4300.8	4208.8	4011.5	3782.6	3528.3	3242.6	3034.3	2863.6	2753.4	2793.4
10°	4372.3	4331.1	4145.9	3810.5	3401.2	2950.8	2545.2	2229.1	2005.1	1913.1	1909.5
12.5°	4455.8	4378.3	4068.4	3548.9	2935.0	2334.5	1802.9	1460.3	1278.6	1161.2	1158.8
15°	4547.9	4434.0	3970.3	3235.3	2392.6	1672.1	1161.2	900.9	783.4	745.9	741.0
17.5°	4660.5	4498.2	3843.2	2849.1	1824.7	1107.9	758.0	682.9	678.1	674.4	674.4
20°	4802.1	4574.5	3679.7	2407.1	1294.4	739.8	644.2	649.0	651.4	646.6	647.8
22.5°	4966.8	4652.0	3484.8	1932.5	875.4	618.7	616.3	622.4	624.8	622.4	623.6
25°	5158.1	4741.6	3247.4	1434.8	632.0	587.2	593.3	601.8	607.8	607.8	607.8
27.5°	5395.4	4850.6	2961.7	1001.4	546.1	554.6	571.5	587.2	595.7	598.1	598.1
30°	5704.2	4986.2	2619.0	686.5	496.4	511.0	542.4	572.7	588.5	590.9	592.1
32.5°	6094.1	5138.7	2221.9	507.3	454.1	465.0	498.9	549.7	580.0	584.8	584.8
35°	6540.9	5315.5	1794.4	442.0	423.8	427.4	454.1	512.2	565.5	578.8	580.0
37.5°	7030.0	5489.9	1364.6	412.9	398.4	398.4	417.7	467.4	530.3	571.5	576.4
40°	7486.5	5595.2	956.6	389.9	375.4	375.4	392.3	428.6	488.0	549.7	563.0
42.5°	7907.9	5631.5	666.0	368.1	353.6	357.2	371.7	400.8	445.6	507.3	519.4
45°	8341.4	5625.5	485.5	342.7	331.8	342.7	353.6	375.4	408.0	443.2	445.6
47.5°	8668.3	5574.6	385.0	318.4	311.2	325.7	335.4	349.9	368.1	365.7	365.7
50°	8974.6	5451.1	310.0	285.8	290.6	307.5	312.4	317.2	318.4	295.4	293.0
52.5°	9207.1	5258.6	248.2	250.6	270.0	287.0	282.1	274.9	262.7	234.9	230.1
55°	9284.6	4888.1	194.9	207.1	239.7	261.5	243.4	227.6	204.6	181.6	176.8
57.5°	9144.1	4409.8	158.6	161.0	202.2	220.4	199.8	181.6	156.2	136.8	133.2
60°	8846.3	3878.3	130.8	121.1	156.2	171.9	158.6	140.5	117.4	102.9	101.7
62.5°	8255.4	3311.6	107.8	94.4	118.7	132.0	123.5	110.2	90.8	81.1	79.9
65°	7013.1	2649.3	87.2	76.3	92.0	102.9	95.7	86.0	71.4	64.2	63.0
67.5°	4895.4	1790.8	71.4	63.0	72.6	81.1	75.1	70.2	56.9	55.7	56.9
70°	2361.1	863.3	59.3	50.9	56.9	63.0	60.5	56.9	54.5	63.0	72.6
72.5°	676.9	289.4	47.2	42.4	46.0	49.6	52.1	50.9	59.3	76.3	88.4
73°	520.7	233.7	44.8	40.0	43.6	48.4	50.9	49.6	60.5	77.5	88.4
75°	222.8	112.6	33.9	32.7	36.3	42.4	44.8	44.8	60.5	78.7	84.8
77.5°	100.5	60.5	21.8	25.4	31.5	33.9	37.5	37.5	48.4	60.5	60.5
80°	56.9	32.7	17.0	19.4	23.0	23.0	23.0	20.6	21.8	24.2	26.6
82.5°	36.3	21.8	13.3	15.7	14.5	12.1	9.7	9.7	8.5	9.7	12.1
85°	20.6	12.1	12.1	9.7	6.1	4.8	6.1	4.8	1.2	0.0	1.2
87.5°	12.1	7.3	3.6	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)