

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: P322499

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322499
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-SA5D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 23031 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

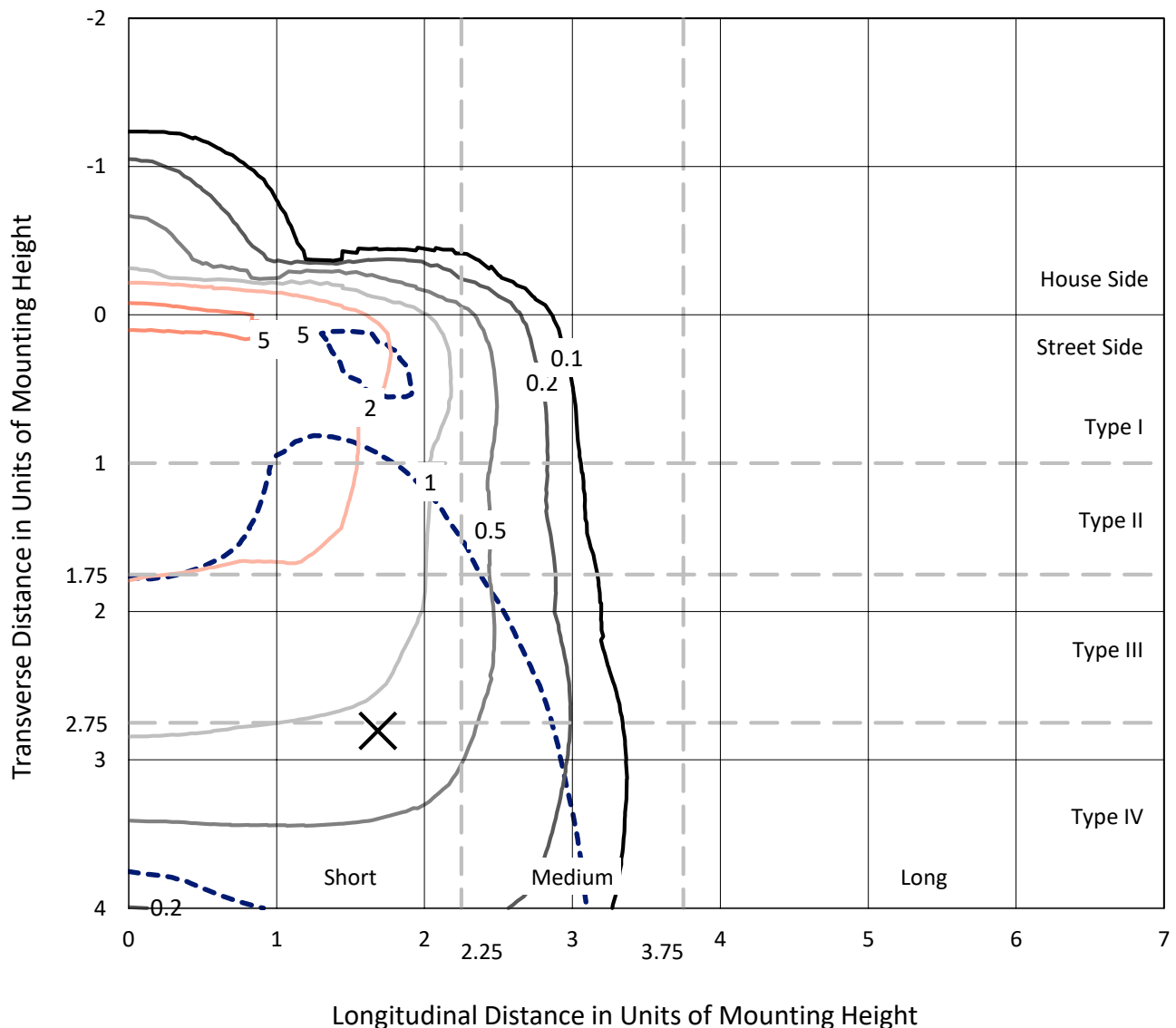
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322499
 CATALOG NUMBER: GAN-SA5D-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

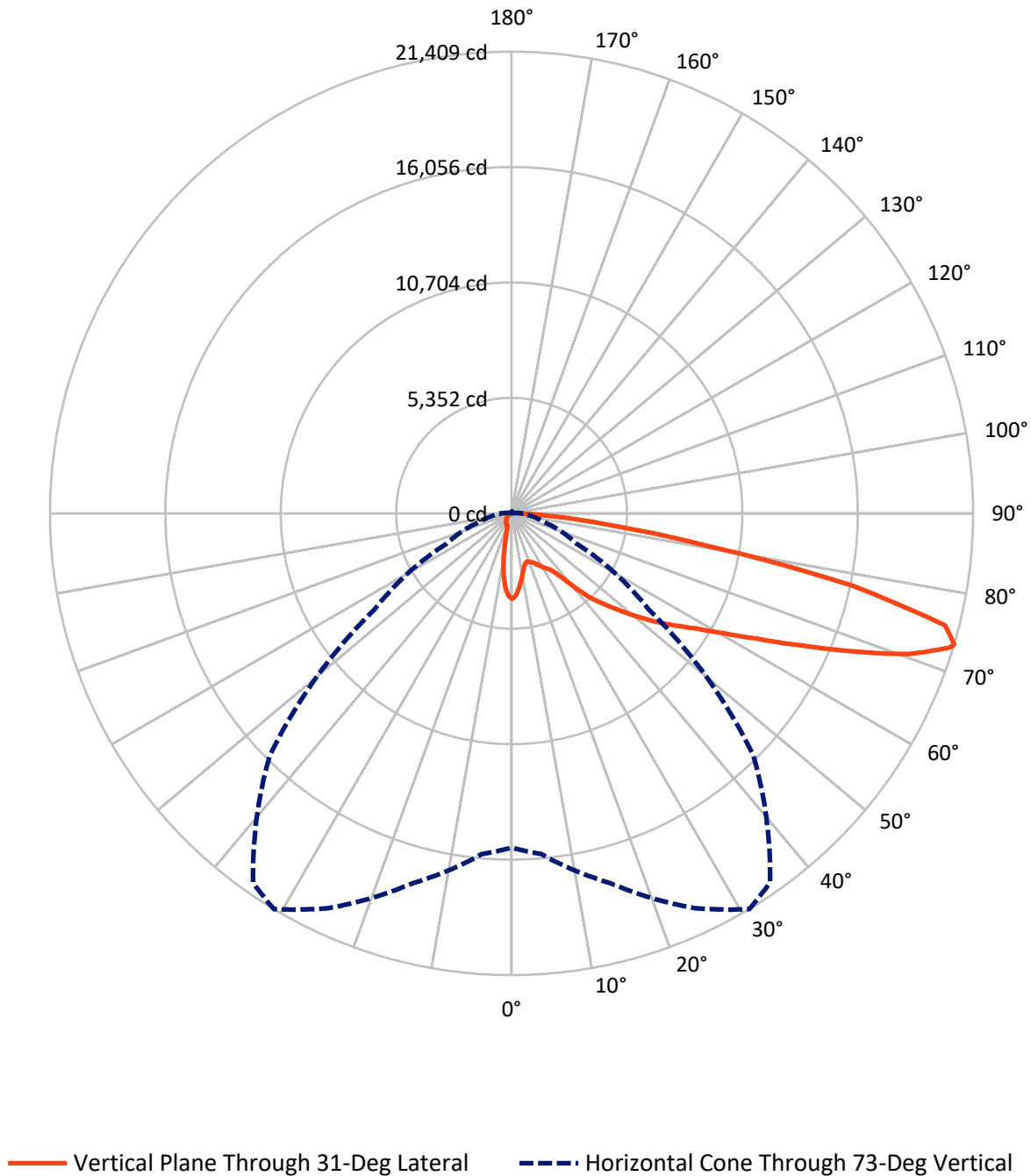
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P322499
CATALOG NUMBER: GAN-SA5D-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322499

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

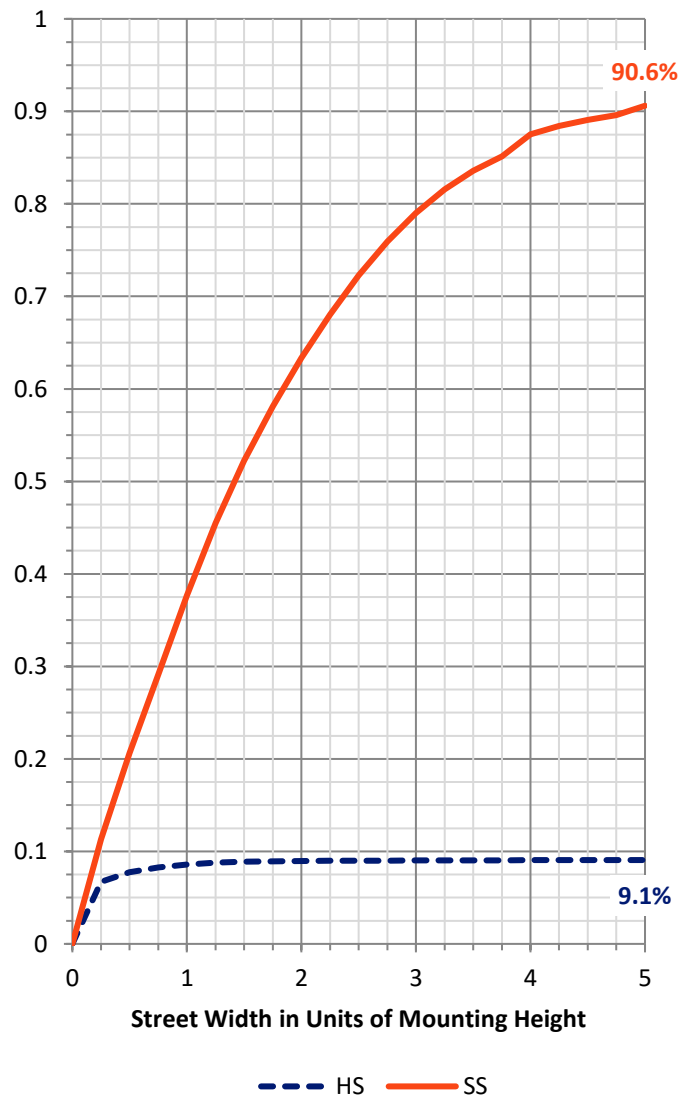
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2099.4	0.0	2099.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	20931.6	0.0	20931.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	23031.0	0.0	23031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	1.4
10°-20°	713.4	3.1
20°-30°	1068.8	4.6
30°-40°	1700.5	7.4
40°-50°	3036.7	13.2
50°-60°	4712.1	20.5
60°-70°	6264.0	27.2
70°-80°	4711.8	20.5
80°-90°	495.1	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°	23031.0	100.0
0°-180°	23031.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322499

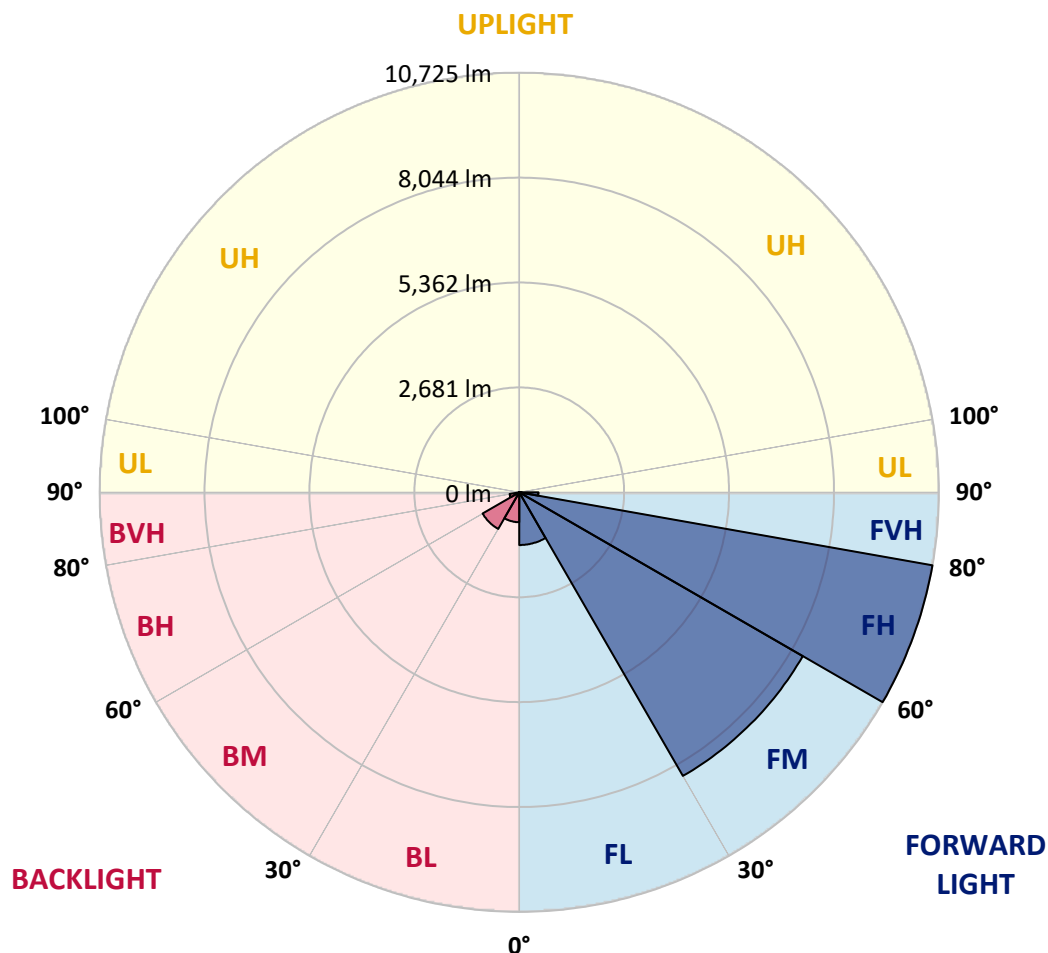
CATALOG NUMBER: GAN-SA5D-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1347.3	5.9			
FM	(30°-60°)	8368.7	36.3			
FH	(60°-80°)	10724.7	46.6			G4/12000
FVH	(80°-90°)	490.9	2.1			G3/500
BL	(0°-30°)	763.4	3.3	B2/1000		
BM	(30°-60°)	1080.6	4.7	B2/2500		
BH	(60°-80°)	251.2	1.1	B1/500		G1/500
BVH	(80°-90°)	4.2	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: P322499

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5
2.5°	3755.2	3770.9	3787.8	3791.2	3819.4	3820.5	3861.1	3891.5	3922.0	3951.3	3961.4
5°	3369.7	3395.6	3426.1	3456.5	3516.2	3539.9	3639.1	3740.5	3837.4	3929.8	3974.9
7.5°	2958.4	2987.7	3030.5	3106.0	3172.5	3218.7	3375.4	3555.7	3736.0	3906.2	4004.2
10°	2583.1	2610.1	2655.2	2735.2	2837.8	2900.9	3111.6	3361.8	3626.7	3884.8	4048.2
12.5°	2344.2	2358.8	2383.6	2469.3	2561.7	2632.7	2880.6	3190.5	3536.5	3883.6	4119.2
15°	2300.2	2304.7	2284.4	2322.7	2394.9	2463.6	2714.9	3051.9	3467.8	3901.7	4211.6
17.5°	2370.1	2367.8	2300.2	2295.7	2353.2	2409.5	2633.8	2956.1	3419.3	3943.4	4331.1
20°	2476.0	2468.1	2350.9	2329.5	2390.4	2443.3	2628.2	2920.1	3401.3	4013.2	4476.4
22.5°	2616.9	2603.4	2419.7	2397.1	2462.5	2517.7	2698.0	2955.0	3417.1	4106.8	4645.5
25°	2791.6	2771.3	2538.0	2513.2	2579.7	2634.9	2823.1	3055.3	3464.4	4220.6	4859.6
27.5°	2988.8	2959.5	2727.3	2663.1	2738.6	2796.1	2989.9	3208.6	3538.8	4341.2	5122.2
30°	3174.8	3136.4	2926.8	2820.9	2913.3	2977.5	3170.2	3391.1	3658.2	4527.2	5481.7
32.5°	3361.8	3319.0	3104.9	2978.7	3062.1	3131.9	3356.2	3642.5	3882.5	4811.2	5959.6
35°	3792.4	3747.3	3484.7	3276.2	3275.1	3314.5	3616.5	3986.2	4178.9	5206.7	6529.8
37.5°	4517.0	4491.1	4240.9	3845.3	3739.4	3695.4	3971.5	4396.4	4604.9	5751.1	7173.4
40°	5310.4	5287.9	5007.3	4648.9	4487.7	4379.5	4481.0	4967.8	5206.7	6416.0	7830.4
42.5°	6206.4	6099.3	5598.9	5491.9	5347.6	5265.3	5174.1	5672.2	5946.1	7139.5	8481.8
45°	7020.1	6839.8	6190.6	6028.3	5995.6	6015.9	6066.6	6618.9	6777.8	7999.4	9131.0
47.5°	7504.7	7362.7	6864.6	6709.0	6700.0	6834.1	7217.3	7688.4	7606.1	8748.9	9702.3
50°	7965.6	7837.2	7423.5	7461.9	7503.6	7686.1	8523.5	8788.3	8362.3	9428.5	10226.4
52.5°	8338.7	8142.6	7926.2	8141.4	8346.6	8640.7	9871.4	9775.6	8898.8	9969.4	10674.9
55°	8553.9	8464.9	8569.7	8786.1	9171.5	9649.4	11143.8	10597.2	9291.0	10463.1	10973.6
57.5°	9342.8	9168.1	9376.6	9563.7	10066.4	10734.7	12233.6	11209.1	9573.9	10768.5	11042.3
60°	10297.4	10156.5	10279.4	10590.4	11268.9	12054.4	13252.4	11708.4	9721.5	10964.6	10864.3
62.5°	11816.6	11630.6	11554.0	11902.2	12801.6	13659.2	14025.5	12054.4	9688.8	10877.8	10253.4
65°	13852.0	13659.2	13316.6	13632.2	14776.1	15381.3	14889.9	12127.6	9463.4	10175.7	8709.5
67.5°	15936.9	15797.2	15504.1	16036.1	17068.4	17263.4	15803.9	11949.6	8737.6	8250.8	6153.4
70°	17314.1	17254.4	17444.8	18621.4	19542.2	19485.8	16642.4	10992.8	6810.5	5073.8	3044.0
72.5°	16321.2	16607.5	18014.0	20147.4	21272.1	20812.3	16211.9	8441.2	3892.7	1952.0	880.2
73°	15498.5	15864.8	17758.1	20204.8	21408.5	20904.7	15850.1	7748.1	3317.9	1540.6	667.2
75°	10782.0	11231.7	14701.7	18817.5	20770.6	19917.5	13211.8	4742.4	1537.2	683.0	269.4
77.5°	5234.9	5567.4	8095.2	13596.1	16153.3	15561.6	8224.8	1767.1	694.2	427.1	124.0
80°	1954.2	2172.9	3514.0	6919.8	9334.9	9579.5	3617.7	668.3	462.1	343.7	63.1
82.5°	511.7	570.3	1296.0	3085.7	4784.1	5007.3	1140.5	337.0	338.1	282.9	38.3
85°	163.4	187.1	404.6	1385.1	2254.0	1979.0	297.5	163.4	245.7	210.7	21.4
87.5°	20.3	25.9	128.5	325.7	497.0	276.1	46.2	48.5	104.8	117.2	12.4
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: P322499

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5	3962.5
2.5°	3971.5	3965.9	3967.0	3937.7	3918.6	3880.3	3840.8	3822.8	3803.6	3795.7	3803.6
5°	3991.8	3981.7	3952.4	3862.2	3766.4	3642.5	3526.4	3438.5	3328.0	3297.6	3329.2
7.5°	4023.4	4003.1	3917.5	3733.7	3520.7	3284.1	3018.1	2824.3	2665.4	2562.8	2600.0
10°	4069.6	4031.3	3858.8	3546.7	3165.7	2746.5	2369.0	2074.8	1866.3	1780.7	1777.3
12.5°	4147.4	4075.2	3786.7	3303.2	2731.8	2172.9	1678.1	1359.2	1190.1	1080.8	1078.5
15°	4233.0	4127.1	3695.4	3011.3	2227.0	1556.4	1080.8	838.5	729.2	694.2	689.7
17.5°	4337.8	4186.8	3577.1	2651.8	1698.4	1031.2	705.5	635.6	631.1	627.7	627.7
20°	4469.7	4257.8	3425.0	2240.5	1204.8	688.6	599.6	604.1	606.3	601.8	602.9
22.5°	4623.0	4329.9	3243.5	1798.7	814.8	575.9	573.6	579.3	581.5	579.3	580.4
25°	4801.0	4413.3	3022.6	1335.5	588.3	546.6	552.2	560.1	565.8	565.8	565.8
27.5°	5021.9	4514.8	2756.6	932.0	508.3	516.2	531.9	546.6	554.5	556.7	556.7
30°	5309.3	4641.0	2437.7	639.0	462.1	475.6	504.9	533.1	547.7	550.0	551.1
32.5°	5672.2	4783.0	2068.0	472.2	422.6	432.8	464.3	511.7	539.8	544.3	544.3
35°	6088.1	4947.5	1670.2	411.4	394.4	397.8	422.6	476.7	526.3	538.7	539.8
37.5°	6543.4	5109.8	1270.1	384.3	370.8	370.8	388.8	435.0	493.6	531.9	536.5
40°	6968.2	5207.9	890.3	362.9	349.4	349.4	365.1	399.0	454.2	511.7	524.1
42.5°	7360.4	5241.7	619.8	342.6	329.1	332.5	346.0	373.0	414.7	472.2	483.5
45°	7763.9	5236.0	451.9	318.9	308.8	318.9	329.1	349.4	379.8	412.5	414.7
47.5°	8068.2	5188.7	358.4	296.4	289.6	303.2	312.2	325.7	342.6	340.4	340.4
50°	8353.3	5073.8	288.5	266.0	270.5	286.3	290.8	295.3	296.4	275.0	272.7
52.5°	8569.7	4894.6	231.0	233.3	251.3	267.1	262.6	255.8	244.6	218.6	214.1
55°	8641.8	4549.7	181.4	192.7	223.1	243.4	226.5	211.9	190.5	169.0	164.5
57.5°	8511.1	4104.5	147.6	149.9	188.2	205.1	186.0	169.0	145.4	127.4	124.0
60°	8233.9	3609.8	121.7	112.7	145.4	160.0	147.6	130.7	109.3	95.8	94.7
62.5°	7683.9	3082.3	100.3	87.9	110.4	122.8	115.0	102.6	84.5	75.5	74.4
65°	6527.6	2465.9	81.1	71.0	85.7	95.8	89.0	80.0	66.5	59.7	58.6
67.5°	4556.5	1666.8	66.5	58.6	67.6	75.5	69.9	65.4	53.0	51.8	53.0
70°	2197.6	803.6	55.2	47.3	53.0	58.6	56.3	53.0	50.7	58.6	67.6
72.5°	630.0	269.4	44.0	39.4	42.8	46.2	48.5	47.3	55.2	71.0	82.3
73°	484.6	217.5	41.7	37.2	40.6	45.1	47.3	46.2	56.3	72.1	82.3
75°	207.4	104.8	31.6	30.4	33.8	39.4	41.7	41.7	56.3	73.3	78.9
77.5°	93.5	56.3	20.3	23.7	29.3	31.6	34.9	34.9	45.1	56.3	56.3
80°	53.0	30.4	15.8	18.0	21.4	21.4	21.4	19.2	20.3	22.5	24.8
82.5°	33.8	20.3	12.4	14.7	13.5	11.3	9.0	9.0	7.9	9.0	11.3
85°	19.2	11.3	11.3	9.0	5.6	4.5	5.6	4.5	1.1	0.0	1.1
87.5°	11.3	6.8	3.4	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)