

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: P322489

Luminaire Tested: **GAN-SA5C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322489
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-SA5C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 20995 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

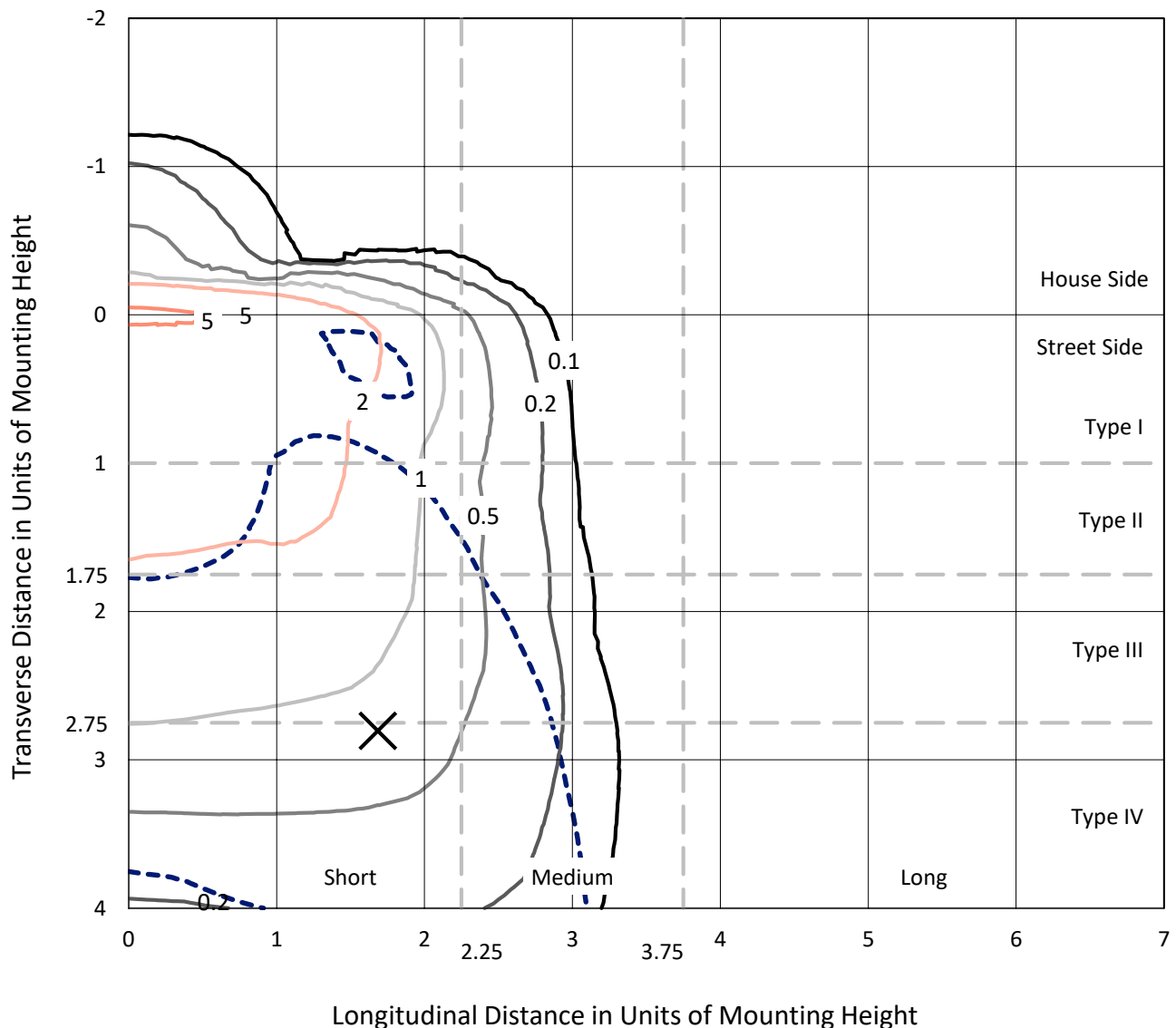
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322489
 CATALOG NUMBER: GAN-SA5C-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

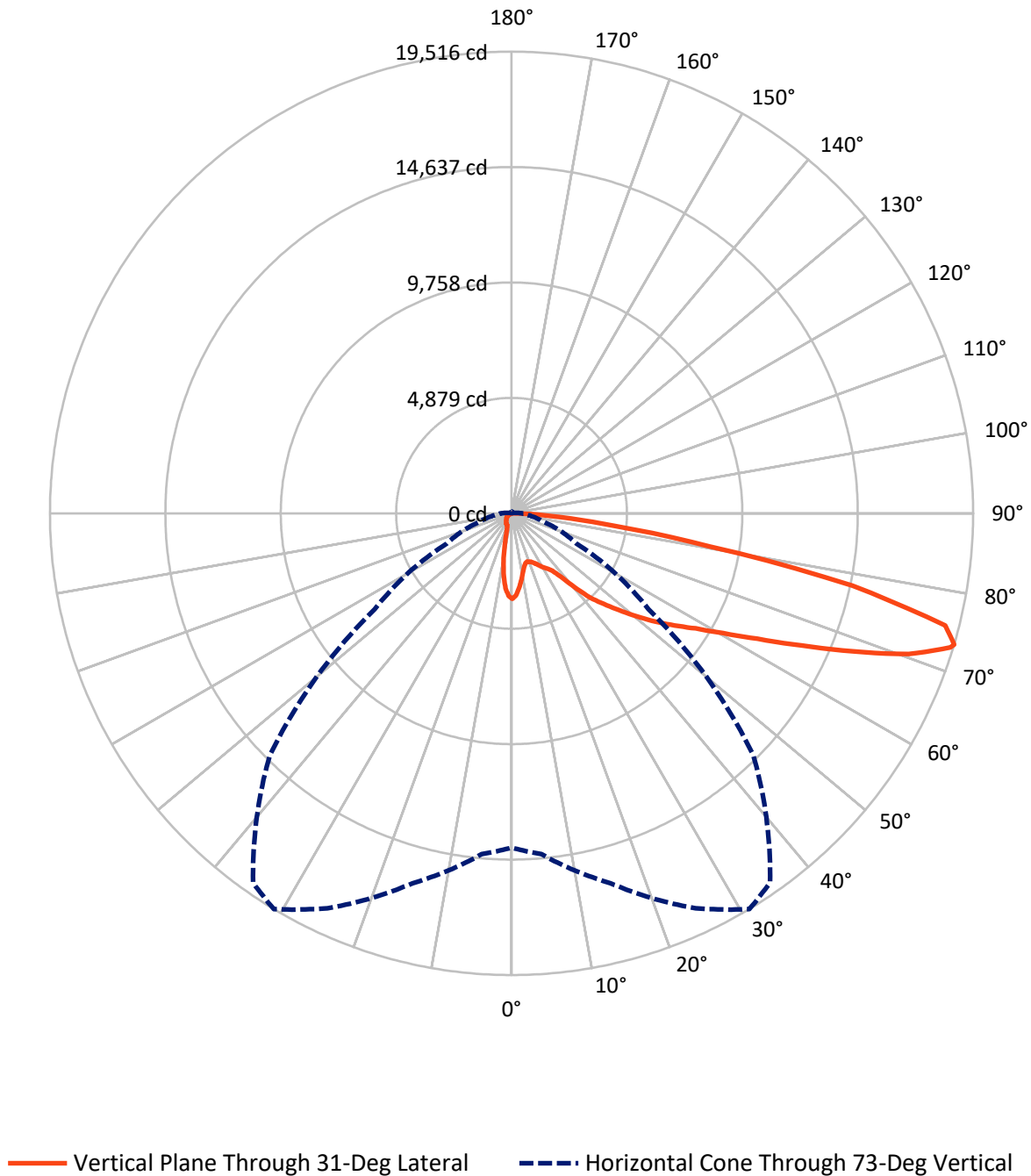
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P322489
CATALOG NUMBER: GAN-SA5C-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322489

CATALOG NUMBER: GAN-SA5C-727-U-T4FT-HSS

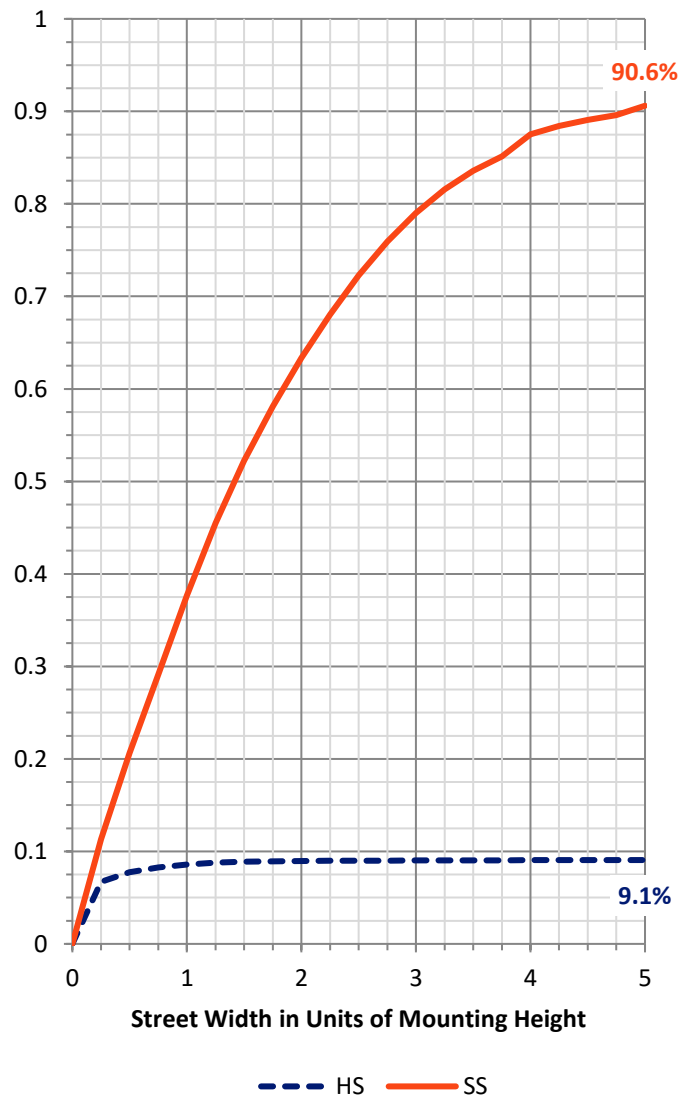
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1913.8	0.0	1913.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	19081.2	0.0	19081.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	20995.0	0.0	20995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	1.4
10°-20°	650.3	3.1
20°-30°	974.4	4.6
30°-40°	1550.2	7.4
40°-50°	2768.2	13.2
50°-60°	4295.5	20.5
60°-70°	5710.3	27.2
70°-80°	4295.3	20.5
80°-90°	451.3	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°	20995.0	100.0
0°-180°	20995.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322489

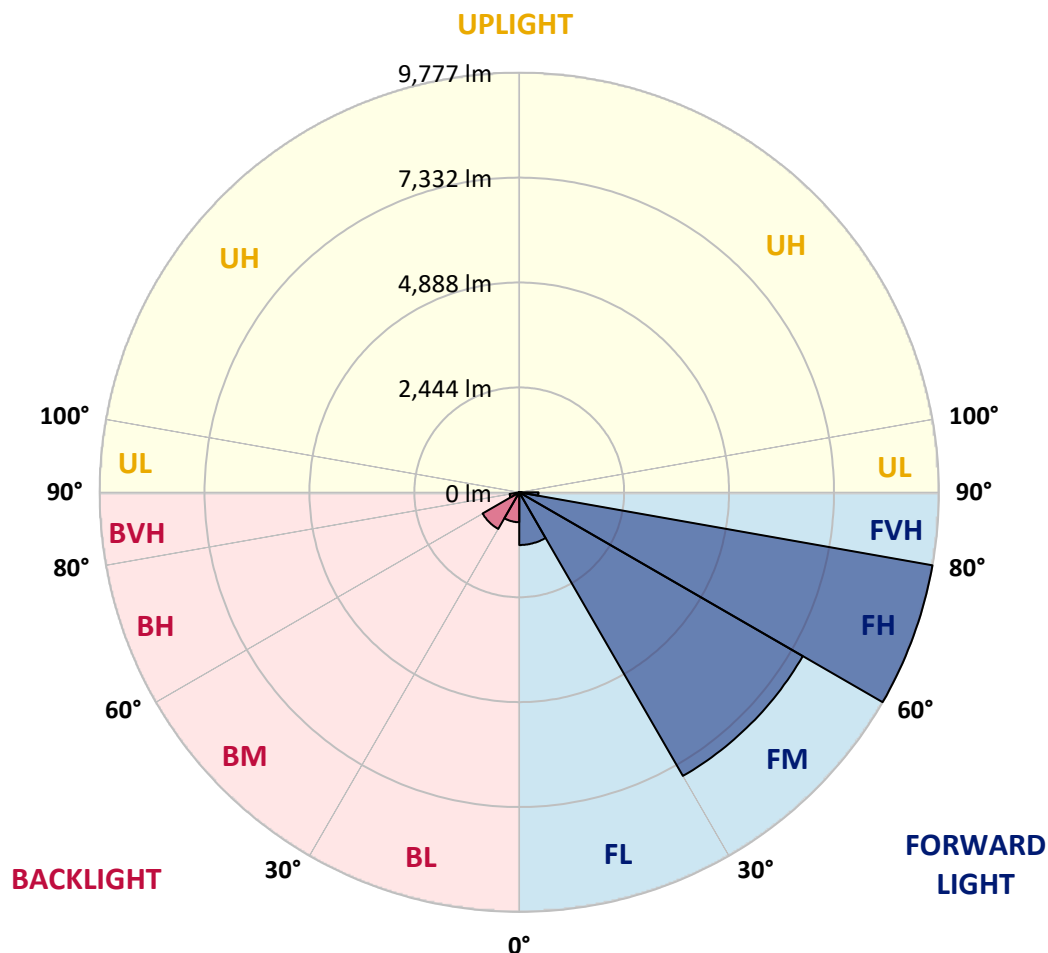
CATALOG NUMBER: GAN-SA5C-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1228.2	5.9			
FM	(30°-60°)	7628.9	36.3			
FH	(60°-80°)	9776.6	46.6			G4/12000
FVH	(80°-90°)	447.5	2.1			G3/500
BL	(0°-30°)	695.9	3.3	B2/1000		
BM	(30°-60°)	985.1	4.7	B1/1000		
BH	(60°-80°)	229.0	1.1	B1/500		G1/500
BVH	(80°-90°)	3.8	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: P322489

CATALOG NUMBER: GAN-SA5C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2
2.5°	3423.2	3437.6	3453.0	3456.1	3481.8	3482.8	3519.8	3547.5	3575.2	3602.0	3611.2
5°	3071.8	3095.5	3123.2	3150.9	3205.4	3227.0	3317.4	3409.8	3498.2	3582.4	3623.5
7.5°	2696.8	2723.6	2762.6	2831.4	2892.0	2934.2	3077.0	3241.4	3405.7	3560.9	3650.2
10°	2354.7	2379.4	2420.5	2493.4	2586.9	2644.5	2836.6	3064.6	3306.1	3541.3	3690.3
12.5°	2136.9	2150.3	2172.9	2251.0	2335.2	2399.9	2626.0	2908.5	3223.9	3540.3	3755.0
15°	2096.9	2101.0	2082.5	2117.4	2183.2	2245.8	2474.9	2782.1	3161.2	3556.8	3839.3
17.5°	2160.6	2158.5	2096.9	2092.8	2145.1	2196.5	2401.0	2694.8	3117.0	3594.8	3948.2
20°	2257.1	2249.9	2143.1	2123.6	2179.1	2227.3	2395.8	2661.9	3100.6	3658.5	4080.7
22.5°	2385.6	2373.2	2205.8	2185.2	2244.8	2295.1	2459.5	2693.8	3115.0	3743.7	4234.8
25°	2544.8	2526.3	2313.6	2291.0	2351.6	2402.0	2573.6	2785.2	3158.1	3847.5	4430.0
27.5°	2724.6	2697.9	2486.2	2427.7	2496.5	2548.9	2725.6	2924.9	3225.9	3957.4	4669.4
30°	2894.1	2859.2	2668.1	2571.5	2655.8	2714.3	2890.0	3091.4	3334.8	4126.9	4997.1
32.5°	3064.6	3025.6	2830.4	2715.3	2791.4	2855.1	3059.5	3320.5	3539.3	4385.8	5432.7
35°	3457.1	3416.0	3176.6	2986.6	2985.5	3021.5	3296.8	3633.8	3809.5	4746.4	5952.6
37.5°	4117.7	4094.1	3866.0	3505.4	3408.8	3368.7	3620.5	4007.8	4197.8	5242.7	6539.2
40°	4841.0	4820.4	4564.6	4237.9	4091.0	3992.4	4084.8	4528.6	4746.4	5848.8	7138.2
42.5°	5657.7	5560.1	5104.0	5006.4	4874.9	4799.9	4716.7	5170.8	5420.4	6508.4	7732.0
45°	6399.5	6235.1	5643.3	5495.4	5465.6	5484.1	5530.3	6033.7	6178.6	7292.3	8323.8
47.5°	6841.3	6711.8	6257.7	6115.9	6107.7	6230.0	6579.3	7008.7	6933.7	7975.5	8844.6
50°	7261.5	7144.3	6767.3	6802.2	6840.2	7006.7	7770.0	8011.4	7623.1	8595.0	9322.4
52.5°	7601.5	7422.7	7225.5	7421.7	7608.7	7876.8	8998.7	8911.4	8112.1	9088.1	9731.2
55°	7797.7	7716.6	7812.1	8009.4	8360.7	8796.3	10158.6	9660.4	8469.6	9538.1	10003.5
57.5°	8516.9	8357.7	8547.7	8718.3	9176.5	9785.7	11152.1	10218.2	8727.5	9816.5	10066.2
60°	9387.1	9258.7	9370.6	9654.2	10272.7	10988.7	12080.8	10673.3	8862.1	9995.3	9903.8
62.5°	10772.0	10602.5	10532.6	10850.1	11669.9	12451.7	12785.6	10988.7	8832.3	9916.2	9347.0
65°	12627.4	12451.7	12139.4	12427.1	13469.8	14021.5	13573.6	11055.5	8626.8	9276.1	7939.5
67.5°	14528.0	14400.6	14133.5	14618.4	15559.5	15737.3	14406.8	10893.2	7965.2	7521.4	5609.4
70°	15783.5	15729.0	15902.7	16975.2	17814.6	17763.2	15171.2	10021.0	6208.4	4625.2	2774.9
72.5°	14878.4	15139.3	16421.5	18366.3	19391.6	18972.4	14778.7	7695.0	3548.5	1779.4	802.4
73°	14128.4	14462.3	16188.3	18418.7	19515.9	19056.7	14448.9	7063.2	3024.6	1404.4	608.2
75°	9828.8	10238.8	13402.0	17154.0	18934.4	18156.7	12043.9	4323.2	1401.3	622.6	245.5
77.5°	4772.1	5075.2	7379.6	12394.2	14725.3	14185.9	7497.7	1610.9	632.9	389.4	113.0
80°	1781.5	1980.8	3203.3	6308.1	8509.7	8732.6	3297.9	609.2	421.2	313.3	57.5
82.5°	466.4	519.8	1181.5	2812.9	4361.2	4564.6	1039.7	307.2	308.2	257.9	34.9
85°	149.0	170.5	368.8	1262.6	2054.7	1804.1	271.2	149.0	224.0	192.1	19.5
87.5°	18.5	23.6	117.1	296.9	453.1	251.7	42.1	44.2	95.5	106.8	11.3
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: P322489

CATALOG NUMBER: GAN-SA5C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2
2.5°	3620.5	3615.3	3616.3	3589.6	3572.2	3537.2	3501.3	3484.8	3467.4	3460.2	3467.4
5°	3638.9	3629.7	3603.0	3520.8	3433.5	3320.5	3214.6	3134.5	3033.8	3006.1	3034.9
7.5°	3667.7	3649.2	3571.1	3403.7	3209.5	2993.8	2751.3	2574.6	2429.7	2336.2	2370.1
10°	3709.8	3674.9	3517.7	3233.1	2885.9	2503.7	2159.5	1891.4	1701.3	1623.2	1620.2
12.5°	3780.7	3715.0	3452.0	3011.2	2490.3	1980.8	1529.8	1239.0	1084.9	985.2	983.2
15°	3858.8	3762.2	3368.7	2745.1	2030.1	1418.8	985.2	764.4	664.7	632.9	628.8
17.5°	3954.3	3816.7	3260.9	2417.4	1548.2	940.0	643.1	579.4	575.3	572.2	572.2
20°	4074.5	3881.4	3122.2	2042.4	1098.3	627.7	546.6	550.7	552.7	548.6	549.6
22.5°	4214.3	3947.2	2956.8	1639.7	742.8	525.0	522.9	528.1	530.1	528.1	529.1
25°	4376.6	4023.2	2755.4	1217.4	536.3	498.3	503.4	510.6	515.7	515.7	515.7
27.5°	4578.0	4115.6	2512.9	849.6	463.3	470.5	484.9	498.3	505.5	507.5	507.5
30°	4839.9	4230.7	2222.2	582.5	421.2	433.6	460.3	485.9	499.3	501.4	502.4
32.5°	5170.8	4360.2	1885.2	430.5	385.3	394.5	423.3	466.4	492.1	496.2	496.2
35°	5549.9	4510.2	1522.6	375.0	359.6	362.7	385.3	434.6	479.8	491.1	492.1
37.5°	5964.9	4658.1	1157.8	350.3	338.0	338.0	354.4	396.6	450.0	484.9	489.0
40°	6352.2	4747.5	811.6	330.8	318.5	318.5	332.9	363.7	414.0	466.4	477.7
42.5°	6709.8	4778.3	565.1	312.3	300.0	303.1	315.4	340.1	378.1	430.5	440.7
45°	7077.6	4773.2	412.0	290.7	281.5	290.7	300.0	318.5	346.2	376.0	378.1
47.5°	7354.9	4730.0	326.7	270.2	264.0	276.4	284.6	296.9	312.3	310.3	310.3
50°	7614.9	4625.2	263.0	242.5	246.6	261.0	265.1	269.2	270.2	250.7	248.6
52.5°	7812.1	4461.9	210.6	212.7	229.1	243.5	239.4	233.2	222.9	199.3	195.2
55°	7877.9	4147.5	165.4	175.7	203.4	221.9	206.5	193.1	173.6	154.1	150.0
57.5°	7758.7	3741.7	134.6	136.6	171.6	187.0	169.5	154.1	132.5	116.1	113.0
60°	7506.0	3290.7	111.0	102.7	132.5	145.9	134.6	119.2	99.7	87.3	86.3
62.5°	7004.6	2809.9	91.4	80.1	100.7	112.0	104.8	93.5	77.1	68.8	67.8
65°	5950.5	2247.9	74.0	64.7	78.1	87.3	81.2	72.9	60.6	54.5	53.4
67.5°	4153.7	1519.5	60.6	53.4	61.6	68.8	63.7	59.6	48.3	47.3	48.3
70°	2003.4	732.5	50.3	43.1	48.3	53.4	51.4	48.3	46.2	53.4	61.6
72.5°	574.3	245.5	40.1	36.0	39.0	42.1	44.2	43.1	50.3	64.7	75.0
73°	441.8	198.3	38.0	33.9	37.0	41.1	43.1	42.1	51.4	65.8	75.0
75°	189.0	95.5	28.8	27.7	30.8	36.0	38.0	38.0	51.4	66.8	71.9
77.5°	85.3	51.4	18.5	21.6	26.7	28.8	31.8	31.8	41.1	51.4	51.4
80°	48.3	27.7	14.4	16.4	19.5	19.5	19.5	17.5	18.5	20.5	22.6
82.5°	30.8	18.5	11.3	13.4	12.3	10.3	8.2	8.2	7.2	8.2	10.3
85°	17.5	10.3	10.3	8.2	5.1	4.1	5.1	4.1	1.0	0.0	1.0
87.5°	10.3	6.2	3.1	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)