

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: P322171

Luminaire Tested: **GAN-SA7C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322171
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-SA7C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 30489 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 391
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

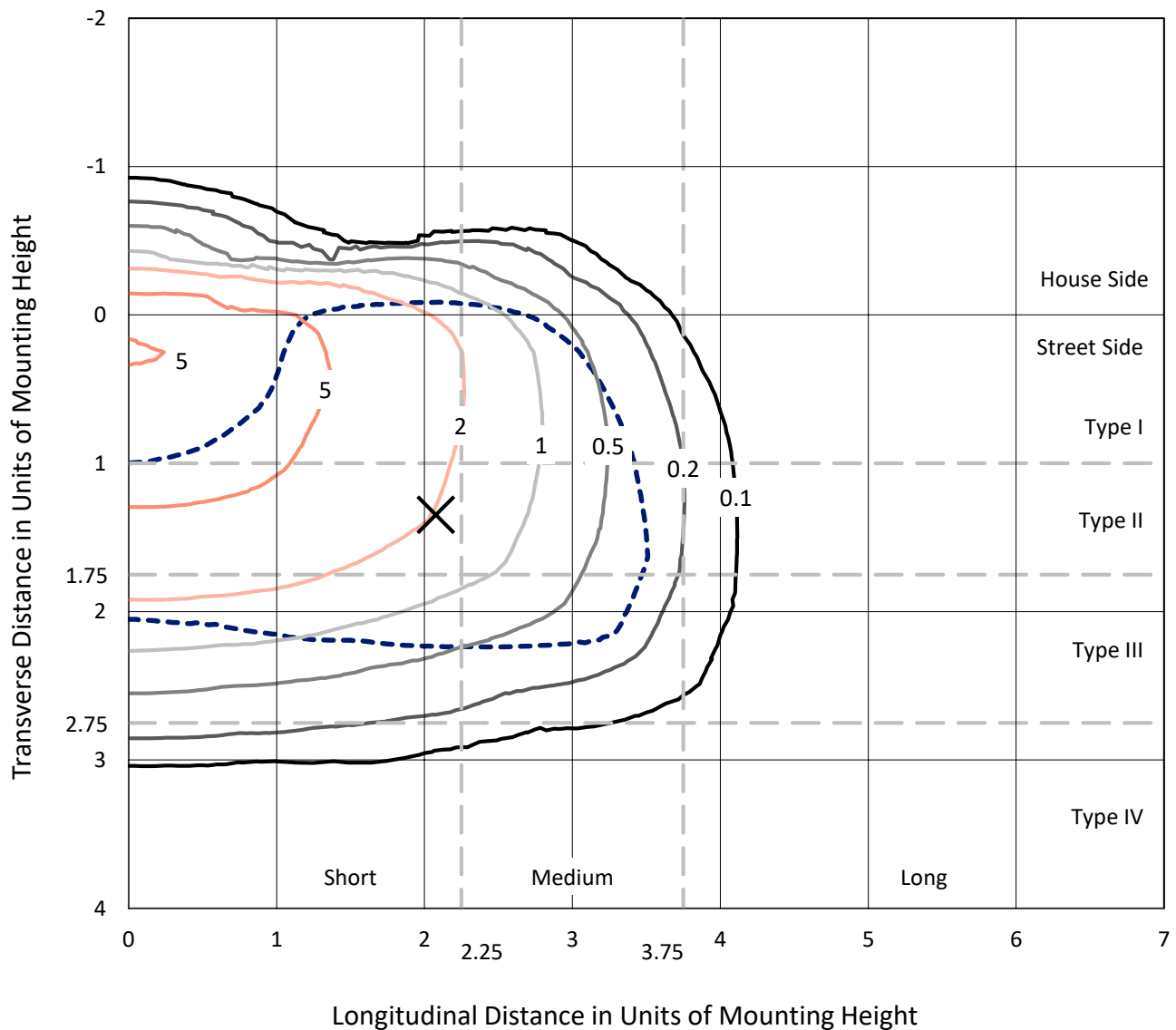


REPORT NUMBER: P322171

CATALOG NUMBER: GAN-SA7C-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

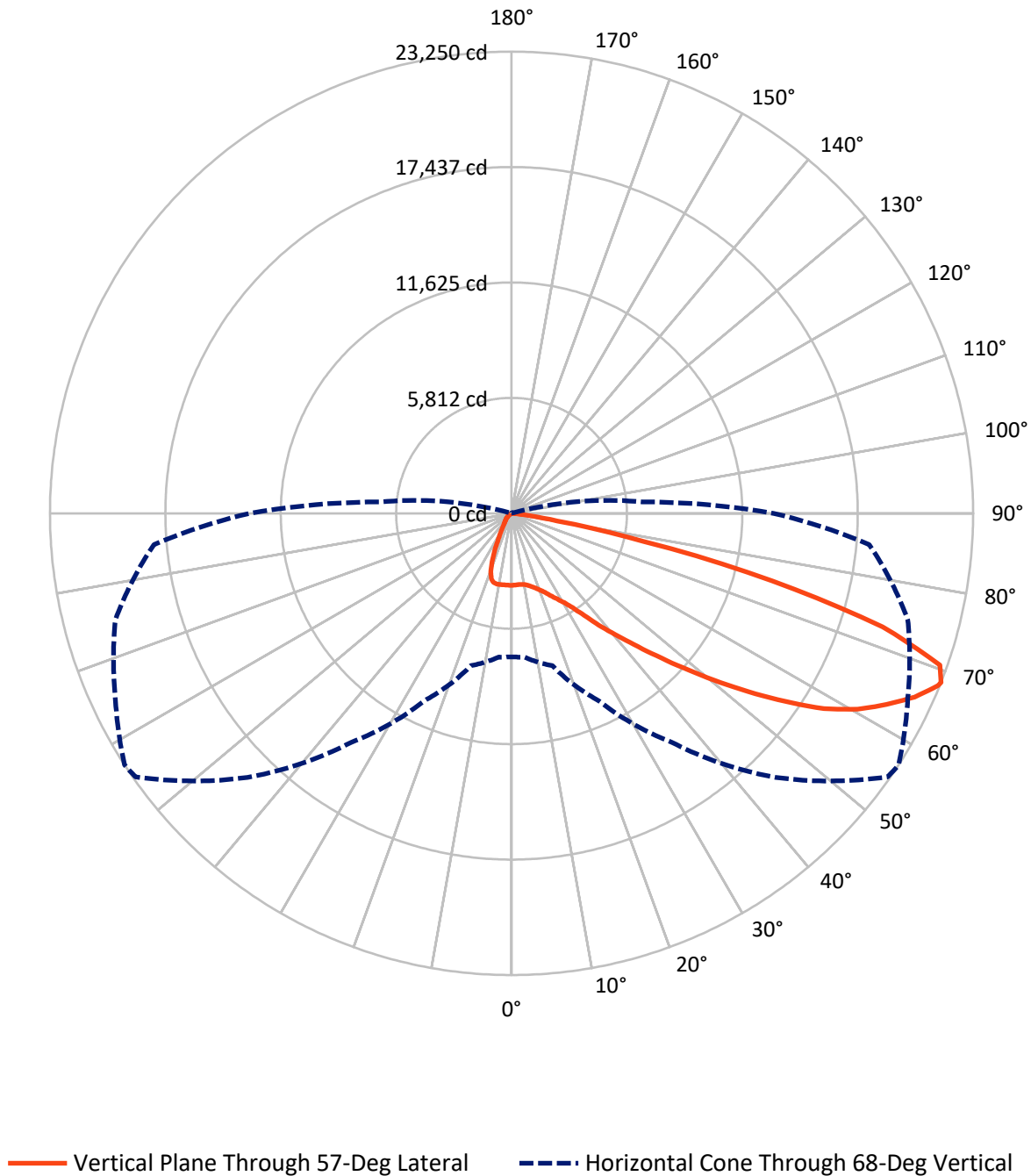
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Short - N/A

REPORT NUMBER: P322171
CATALOG NUMBER: GAN-SA7C-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322171

CATALOG NUMBER: GAN-SA7C-727-U-T3-HSS

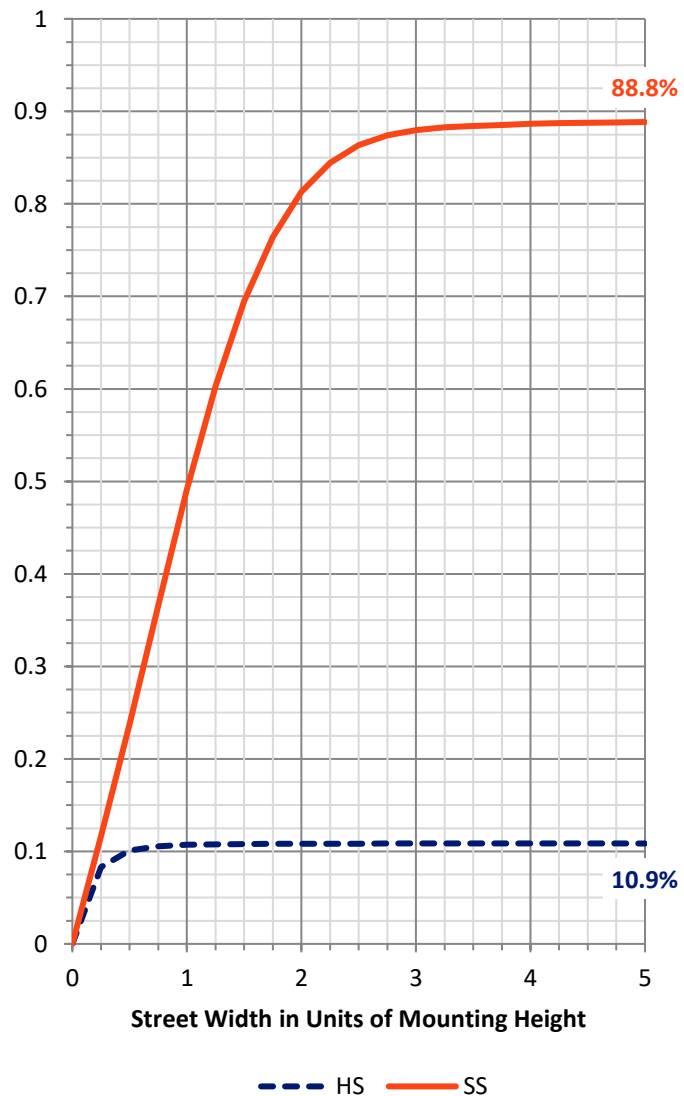
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3343.3	0.0	3343.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	27145.7	0.0	27145.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	30489.0	0.0	30489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	1.1
10°-20°	939.5	3.1
20°-30°	1620.8	5.3
30°-40°	2797.4	9.2
40°-50°	4785.0	15.7
50°-60°	7655.5	25.1
60°-70°	8845.1	29.0
70°-80°	3379.9	11.1
80°-90°	126.7	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°	30489.0	100.0
0°-180°	30489.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322171

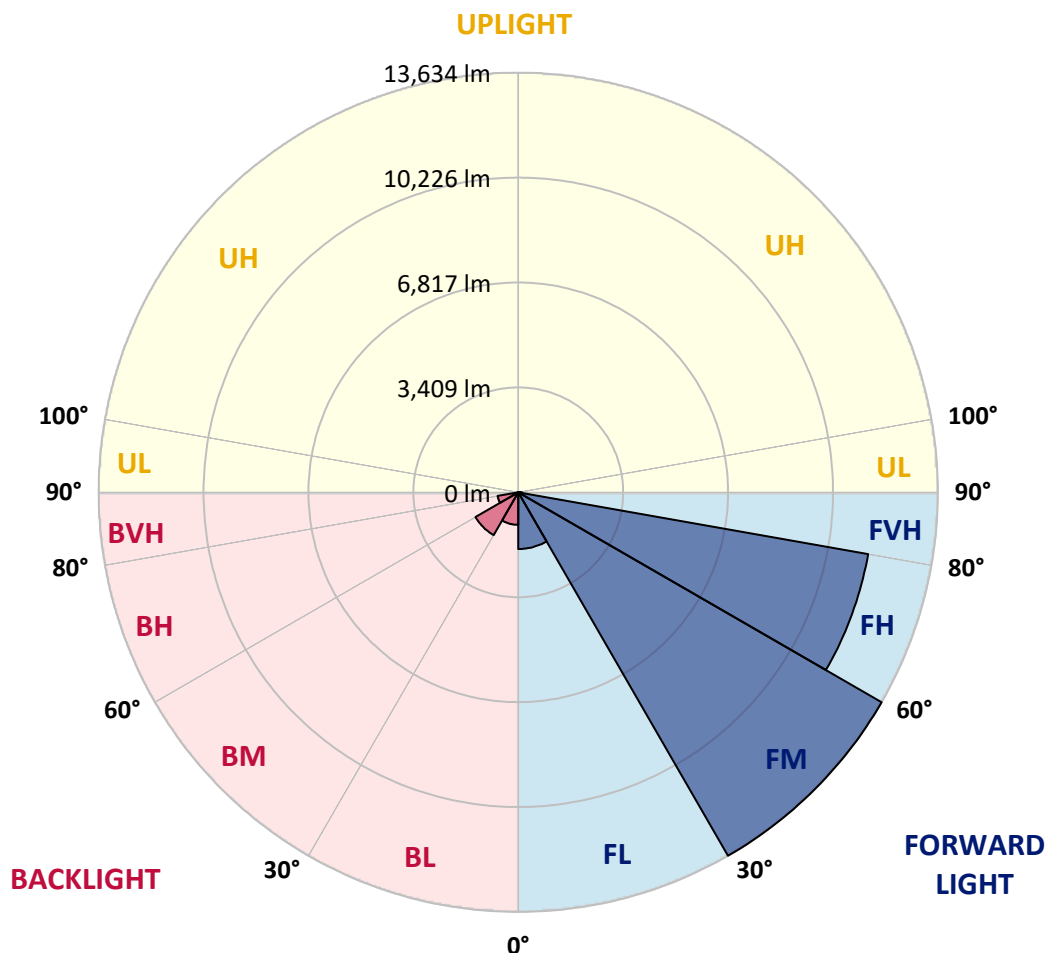
CATALOG NUMBER: GAN-SA7C-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.8	6.0			
FM	(30°-60°)	13634.4	44.7			
FH	(60°-80°)	11544.1	37.9			G4/12000
FVH	(80°-90°)	124.4	0.4			G2/225
BL	(0°-30°)	1056.6	3.5	B3/2500		
BM	(30°-60°)	1603.5	5.3	B2/2500		
BH	(60°-80°)	680.9	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.3	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-G4

Type III Short



REPORT NUMBER: P322171

CATALOG NUMBER: GAN-SA7C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9
2.5°	3537.8	3553.7	3565.2	3572.4	3581.1	3599.8	3605.6	3614.2	3618.6	3618.6	3628.7
5°	3398.0	3415.3	3439.8	3460.0	3500.4	3552.3	3589.7	3604.2	3630.1	3653.2	3666.1
7.5°	3268.2	3288.4	3317.3	3364.8	3434.0	3517.7	3595.5	3615.7	3666.1	3715.2	3739.7
10°	3184.6	3200.5	3238.0	3305.7	3396.6	3513.3	3622.9	3647.4	3733.9	3816.1	3862.2
12.5°	3155.8	3170.2	3209.1	3285.5	3398.0	3535.0	3686.3	3722.4	3849.2	3968.9	4033.8
15°	3197.6	3200.5	3242.3	3314.4	3425.4	3588.3	3791.6	3834.8	3994.8	4150.5	4231.3
17.5°	3359.1	3346.1	3367.7	3399.4	3487.4	3658.9	3902.6	3967.5	4180.8	4363.9	4440.3
20°	3762.7	3762.7	3713.7	3627.2	3628.7	3768.5	4052.5	4126.0	4387.0	4598.9	4668.1
22.5°	4453.3	4440.3	4342.3	4130.4	3935.7	3957.4	4235.6	4330.8	4634.9	4861.3	4884.4
25°	5283.7	5267.8	5116.5	4818.0	4480.7	4263.0	4483.6	4593.1	4930.5	5130.9	5083.3
27.5°	6163.1	6150.1	6000.2	5629.7	5149.6	4750.3	4779.1	4882.9	5231.8	5429.3	5277.9
30°	7015.1	7019.5	6871.0	6490.4	5946.9	5371.6	5153.9	5214.5	5524.4	5724.8	5508.6
32.5°	7825.3	7831.1	7702.8	7277.5	6770.0	6093.9	5672.9	5657.1	5864.7	6062.2	5814.2
35°	8547.6	8562.0	8474.1	8143.9	7606.2	6898.4	6346.2	6308.7	6347.6	6571.1	6282.8
37.5°	9243.9	9252.6	9186.3	8908.0	8458.2	7782.1	7196.8	7143.4	7059.8	7231.4	6901.2
40°	10006.6	9985.0	9908.5	9656.3	9269.9	8758.1	8110.8	8018.5	7872.9	8025.7	7714.3
42.5°	10715.9	10691.4	10704.3	10418.9	10093.1	9761.5	9176.2	9017.6	8932.5	9108.4	8712.0
45°	11602.5	11589.5	11632.8	11384.8	11121.0	10880.2	10397.3	10224.3	10186.8	10392.9	9918.6
47.5°	12477.6	12509.3	12643.4	12538.1	12431.5	12219.5	11690.4	11612.6	11635.7	11885.1	11191.6
50°	13207.1	13244.6	13612.2	13733.3	13887.5	13763.5	13233.0	13185.4	13276.3	13501.2	12561.2
52.5°	13734.7	13811.1	14268.1	14826.1	15388.3	15471.9	14942.8	14899.6	15022.1	15056.7	13619.4
55°	14100.9	14168.7	14686.2	15706.9	16851.6	17212.0	16883.3	16716.1	16693.0	16351.3	14732.3
57.5°	14165.8	14158.6	14902.5	16276.4	17999.2	18929.0	18721.4	18557.1	18084.2	17547.9	16008.2
60°	13799.6	13841.4	14705.0	16473.9	18720.0	20228.0	20243.8	20030.5	19293.8	18711.3	17245.2
62.5°	12672.2	12842.3	13714.5	15956.3	18711.3	20751.3	21359.7	21196.8	20315.9	19664.3	18499.4
65°	10844.2	10904.7	11736.6	14183.1	17447.0	20532.2	22364.5	22304.0	21237.1	20589.8	19143.8
67.5°	7919.1	7787.9	8661.5	11168.6	14771.3	19254.8	23085.3	23161.7	21947.9	20780.1	18457.6
68°	7227.1	7266.0	7946.4	10423.2	14070.6	18803.6	23132.9	23249.7	22018.5	20656.1	18082.8
70°	4307.7	4382.7	4989.6	7176.6	10704.3	16250.4	22619.7	22886.4	21597.5	19377.4	15640.6
72.5°	1100.0	1189.4	1763.2	3212.0	6114.1	11449.7	19094.8	19546.1	18751.7	15719.9	10558.7
75°	452.7	475.7	630.0	1058.2	2277.8	5158.3	12585.7	13551.6	12999.5	9411.2	4771.9
77.5°	312.8	328.7	405.1	586.8	986.1	1748.7	6170.3	6868.1	6187.6	3212.0	1040.9
80°	224.9	237.9	289.8	390.7	566.6	624.2	2011.1	2325.4	1846.8	705.0	258.1
82.5°	134.1	144.2	216.2	278.2	344.6	298.4	500.3	568.0	534.9	350.3	115.3
85°	66.3	77.8	145.6	198.9	186.0	125.4	152.8	170.1	210.5	213.4	62.0
87.5°	4.3	8.6	85.1	119.7	51.9	28.8	44.7	54.8	75.0	105.2	25.9
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: P322171

CATALOG NUMBER: GAN-SA7C-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9
2.5°	3633.0	3634.4	3624.3	3620.0	3622.9	3605.6	3598.4	3601.3	3601.3	3605.6	3598.4
5°	3669.0	3669.0	3651.7	3628.7	3615.7	3582.5	3560.9	3555.1	3550.8	3547.9	3542.2
7.5°	3746.9	3738.2	3708.0	3657.5	3614.2	3542.2	3487.4	3458.5	3444.1	3438.4	3434.0
10°	3872.3	3856.4	3806.0	3712.3	3612.8	3484.5	3364.8	3279.8	3209.1	3180.3	3163.0
12.5°	4041.0	4017.9	3932.9	3777.2	3602.7	3366.3	3106.8	2857.4	2625.3	2530.1	2482.5
15°	4235.6	4202.4	4068.4	3831.9	3543.6	3099.6	2535.9	2099.1	1777.6	1656.5	1604.6
17.5°	4433.1	4389.9	4186.6	3866.5	3366.3	2547.4	1779.0	1343.6	1128.8	1071.2	1051.0
20°	4632.1	4568.6	4288.9	3840.6	2965.5	1836.7	1173.5	981.8	919.8	902.5	896.7
22.5°	4820.9	4722.9	4381.2	3739.7	2348.5	1232.6	928.4	867.9	847.7	837.6	834.7
25°	4985.3	4848.3	4461.9	3428.3	1662.2	931.3	836.2	816.0	790.0	771.3	772.7
27.5°	5139.5	4973.7	4511.0	2915.0	1108.6	795.8	774.2	746.8	699.2	671.8	671.8
30°	5325.5	5141.0	4547.0	2243.2	816.0	703.5	686.2	644.4	579.5	543.5	543.5
32.5°	5605.2	5394.7	4523.9	1574.3	676.1	618.5	578.1	520.4	449.8	415.2	413.8
35°	6033.4	5786.8	4359.6	1032.2	596.8	537.7	472.9	402.2	340.2	311.4	310.0
37.5°	6610.0	6311.6	3990.5	738.1	534.9	462.8	384.9	307.1	260.9	242.2	240.8
40°	7358.2	6921.4	3462.9	598.3	477.2	390.7	297.0	237.9	206.2	191.7	193.2
42.5°	8256.4	7574.5	2830.0	516.1	421.0	321.5	232.1	187.4	167.2	157.1	154.3
45°	9254.0	8218.9	2166.8	459.9	364.7	259.5	181.6	148.5	132.6	126.9	126.9
47.5°	10351.1	8846.0	1585.8	410.9	304.2	200.4	145.6	121.1	108.1	103.8	102.4
50°	11347.3	9281.4	1143.2	359.0	249.4	158.6	118.2	100.9	92.3	86.5	86.5
52.5°	12177.7	9418.4	841.9	302.7	201.8	126.9	98.0	86.5	77.8	73.5	73.5
55°	12908.6	9362.2	625.7	249.4	162.9	103.8	83.6	73.5	66.3	62.0	62.0
57.5°	13609.3	9180.5	467.1	203.3	131.2	83.6	70.6	62.0	54.8	51.9	51.9
60°	14181.6	8877.8	347.4	164.3	105.2	67.8	59.1	50.5	44.7	40.4	40.4
62.5°	14645.8	8543.3	255.2	135.5	83.6	53.3	46.1	41.8	33.2	28.8	28.8
65°	14648.7	7988.3	191.7	112.4	64.9	41.8	34.6	33.2	21.6	17.3	15.9
67.5°	13589.1	6886.8	147.0	96.6	50.5	31.7	25.9	27.4	11.5	7.2	5.8
68°	13204.2	6607.1	138.4	95.1	47.6	30.3	24.5	27.4	10.1	5.8	4.3
70°	11132.5	5256.3	111.0	92.3	41.8	23.1	20.2	27.4	8.6	4.3	2.9
72.5°	7120.4	3050.6	82.2	73.5	31.7	17.3	13.0	24.5	8.6	2.9	1.4
75°	3030.4	945.7	56.2	51.9	18.7	13.0	8.6	15.9	5.8	1.4	0.0
77.5°	638.7	213.4	33.2	31.7	13.0	8.6	5.8	4.3	1.4	0.0	0.0
80°	164.3	62.0	17.3	15.9	7.2	4.3	2.9	0.0	0.0	0.0	0.0
82.5°	51.9	24.5	10.1	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.9	14.4	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	4.3	1.4	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)