

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: P322371

Luminaire Tested: **GAN-SA7C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322371
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-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 26800 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

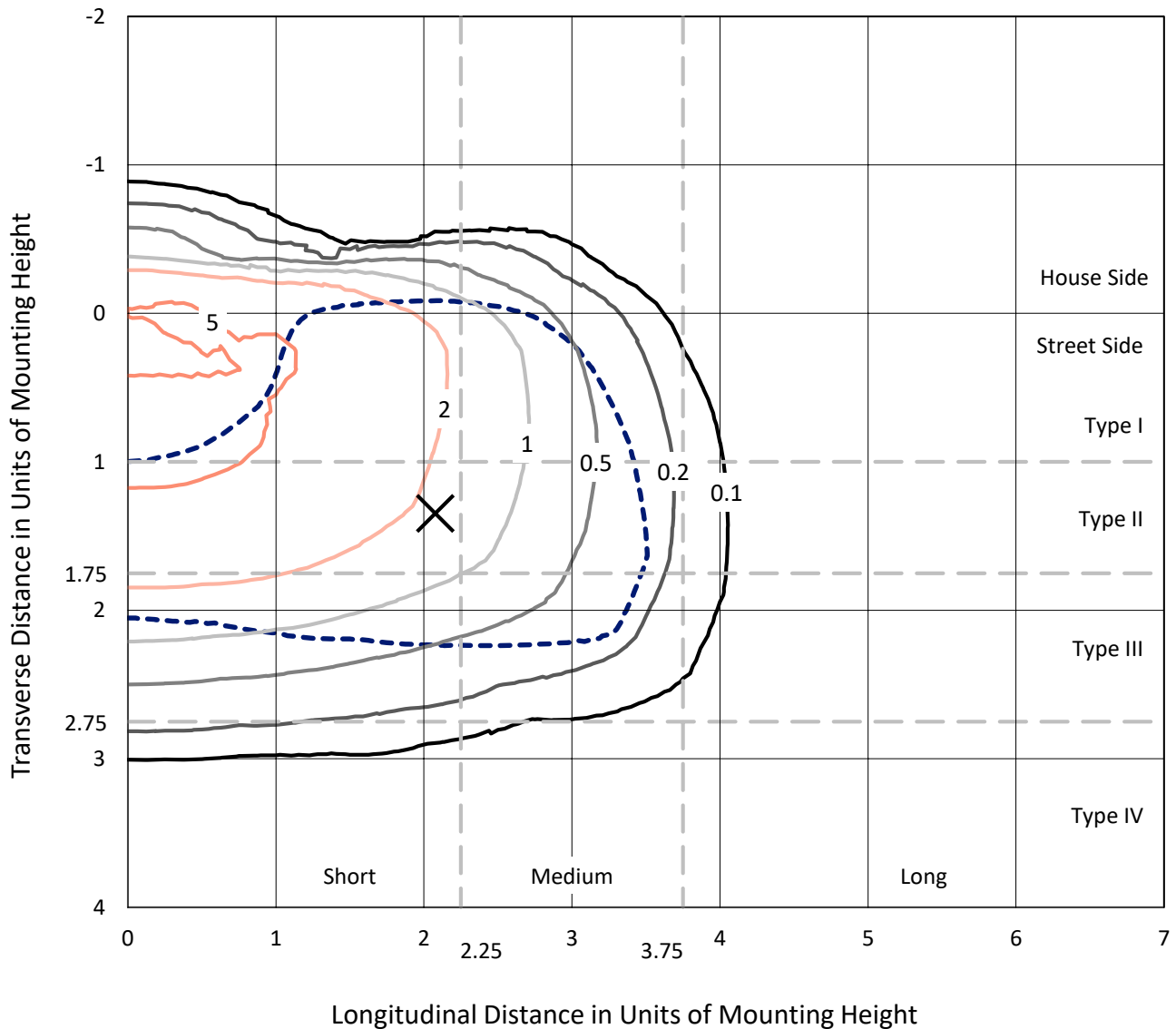
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322371
 CATALOG NUMBER: GAN-SA7C-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

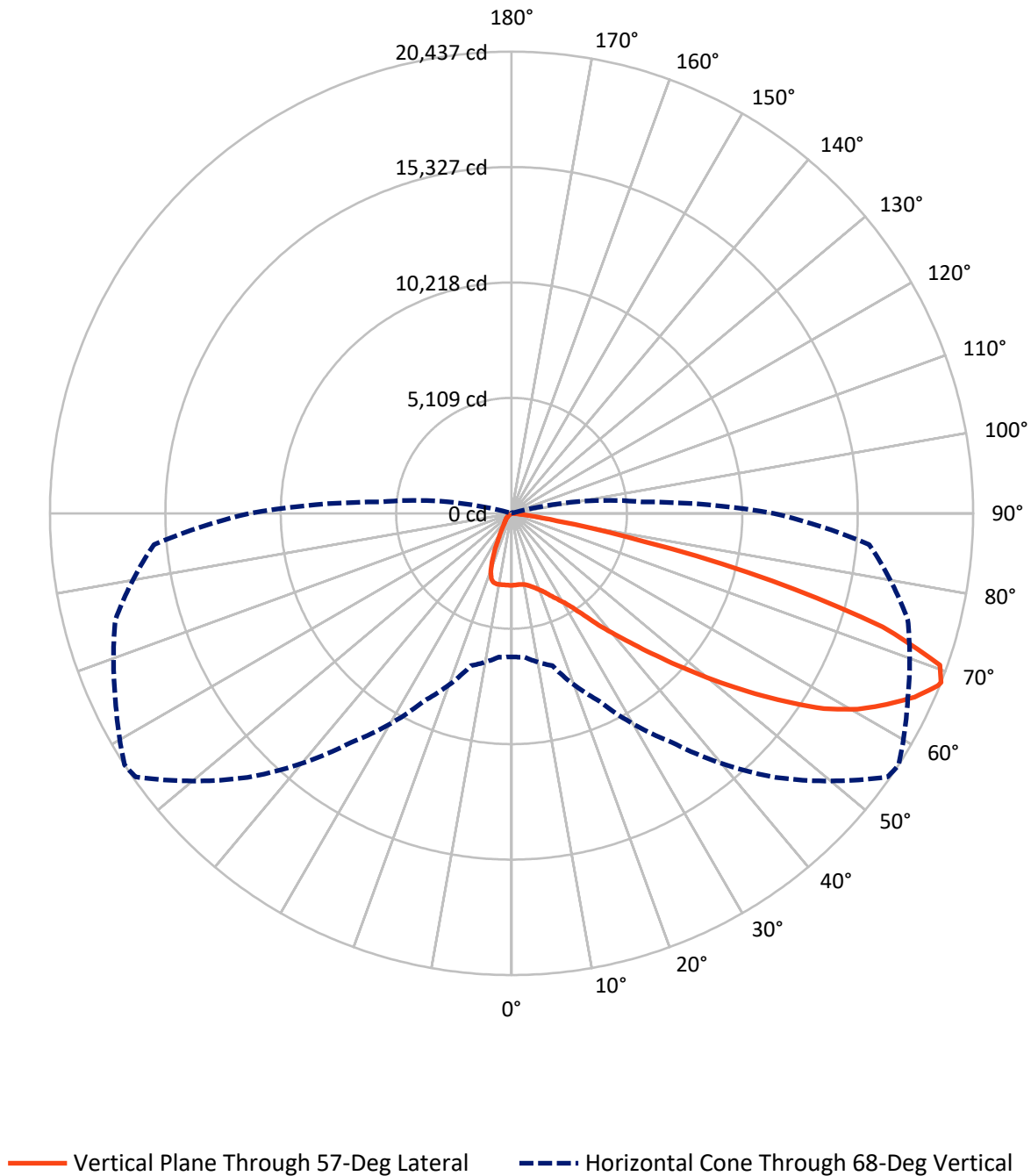
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

REPORT NUMBER: P322371
CATALOG NUMBER: GAN-SA7C-827-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322371

CATALOG NUMBER: GAN-SA7C-827-U-T3-HSS

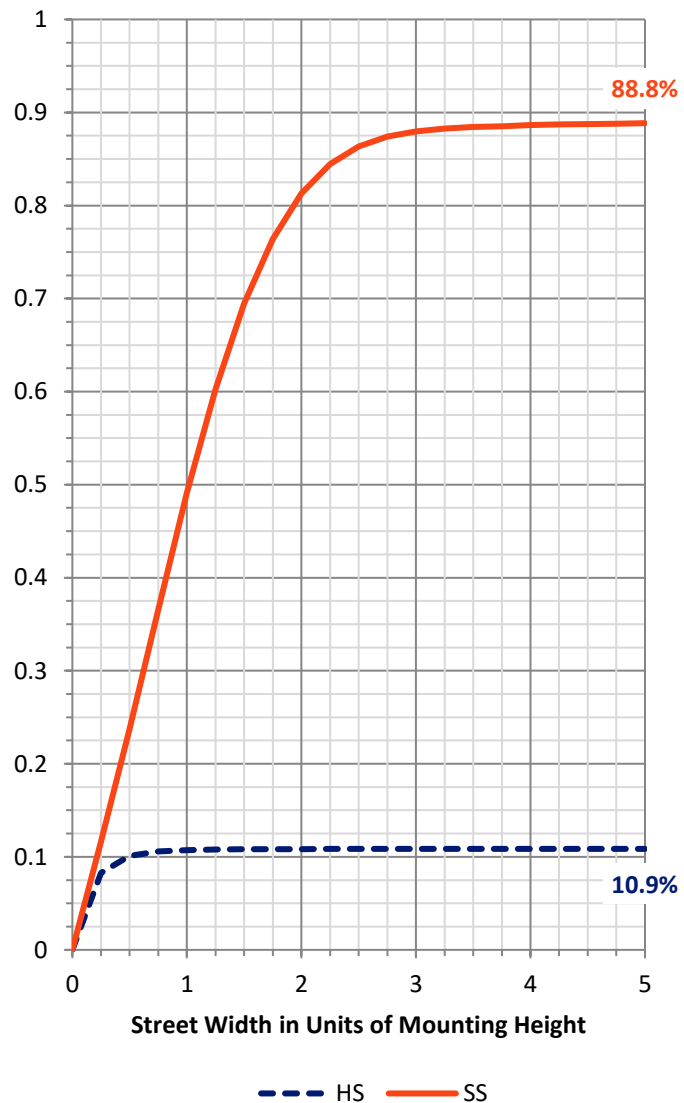
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2938.8	0.0	2938.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	23861.2	0.0	23861.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	26800.0	0.0	26800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	1.1
10°-20°	825.8	3.1
20°-30°	1424.7	5.3
30°-40°	2458.9	9.2
40°-50°	4206.0	15.7
50°-60°	6729.3	25.1
60°-70°	7774.9	29.0
70°-80°	2970.9	11.1
80°-90°	111.4	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°	26800.0	100.0
0°-180°	26800.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322371

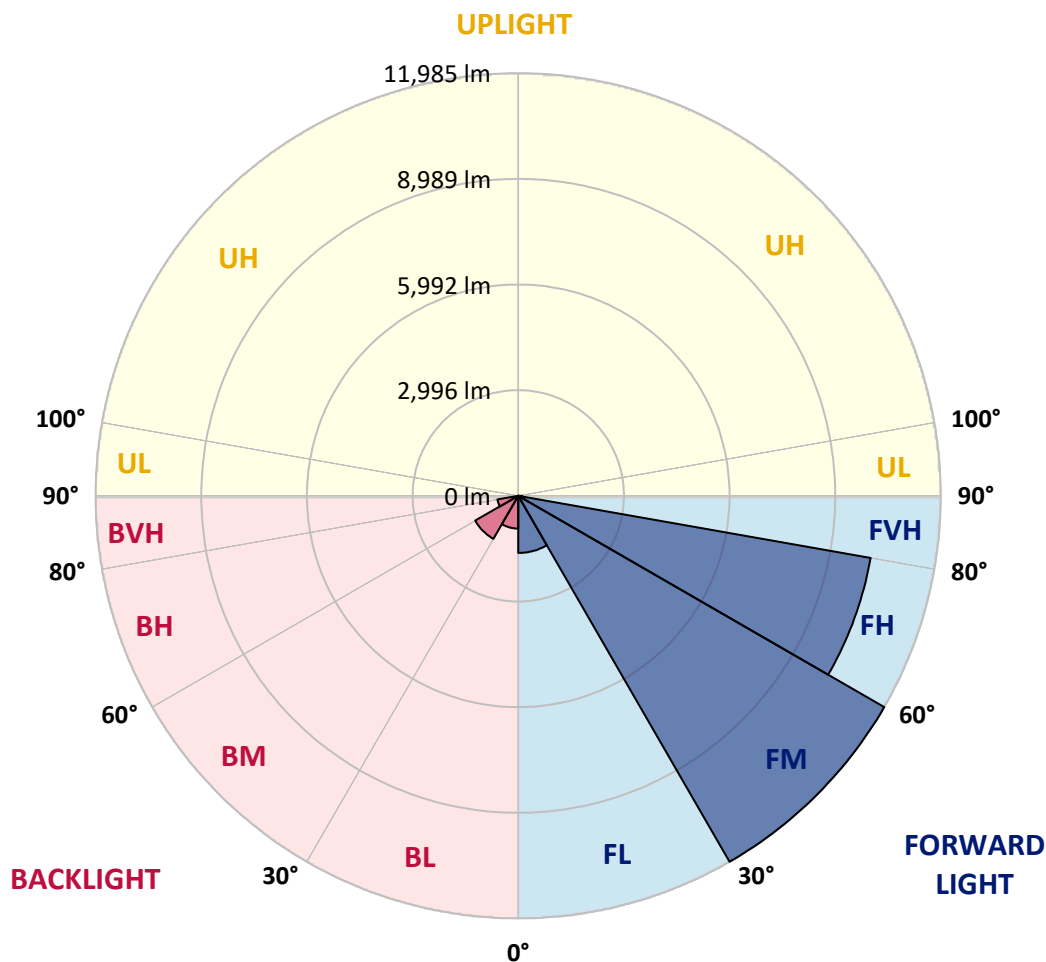
CATALOG NUMBER: GAN-SA7C-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.8	6.0			
FM	(30°-60°)	11984.7	44.7			
FH	(60°-80°)	10147.3	37.9			G4/12000
FVH	(80°-90°)	109.3	0.4			G2/225
BL	(0°-30°)	928.7	3.5	B2/1000		
BM	(30°-60°)	1409.5	5.3	B2/2500		
BH	(60°-80°)	598.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.0	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 III Short





REPORT NUMBER: P322371

CATALOG NUMBER: GAN-SA7C-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	3109.8	3123.7	3133.9	3140.2	3147.8	3164.3	3169.3	3176.9	3180.7	3180.7	3189.6
5°	2986.9	3002.1	3023.6	3041.3	3076.8	3122.5	3155.4	3168.1	3190.9	3211.2	3222.6
7.5°	2872.8	2890.5	2915.9	2957.7	3018.5	3092.0	3160.5	3178.2	3222.6	3265.6	3287.2
10°	2799.3	2813.2	2846.2	2905.8	2985.6	3088.2	3184.5	3206.1	3282.1	3354.4	3394.9
12.5°	2774.0	2786.6	2820.9	2888.0	2986.9	3107.2	3240.3	3272.0	3383.5	3488.7	3545.7
15°	2810.7	2813.2	2850.0	2913.4	3010.9	3154.1	3332.8	3370.8	3511.5	3648.4	3719.3
17.5°	2952.6	2941.2	2960.2	2988.1	3065.4	3216.2	3430.4	3487.4	3675.0	3835.9	3903.1
20°	3307.5	3307.5	3264.4	3188.3	3189.6	3312.5	3562.2	3626.8	3856.2	4042.5	4103.3
22.5°	3914.5	3903.1	3816.9	3630.6	3459.5	3478.5	3723.1	3806.8	4074.1	4273.1	4293.4
25°	4644.4	4630.5	4497.4	4235.1	3938.5	3747.2	3941.1	4037.4	4333.9	4510.1	4468.2
27.5°	5417.4	5406.0	5274.2	4948.5	4526.5	4175.5	4200.9	4292.1	4598.8	4772.4	4639.3
30°	6166.3	6170.1	6039.6	5705.1	5227.3	4721.7	4530.3	4583.6	4856.0	5032.2	4842.1
32.5°	6878.5	6883.6	6770.8	6397.0	5950.9	5356.6	4986.5	4972.6	5155.1	5328.7	5110.7
35°	7513.4	7526.1	7448.8	7158.6	6685.9	6063.7	5578.3	5545.4	5579.6	5776.0	5522.6
37.5°	8125.5	8133.1	8074.8	7830.2	7434.8	6840.5	6326.0	6279.1	6205.6	6356.4	6066.2
40°	8795.8	8776.8	8709.7	8487.9	8148.3	7698.4	7129.4	7048.3	6920.3	7054.7	6780.9
42.5°	9419.3	9397.8	9409.2	9158.3	8871.9	8580.4	8065.9	7926.5	7851.8	8006.4	7657.9
45°	10198.7	10187.3	10225.3	10007.3	9775.4	9563.8	9139.3	8987.2	8954.2	9135.5	8718.5
47.5°	10967.9	10995.7	11113.6	11021.1	10927.3	10741.0	10276.0	10207.5	10227.8	10447.0	9837.5
50°	11609.1	11642.0	11965.2	12071.6	12207.2	12098.2	11631.9	11590.1	11669.9	11867.6	11041.4
52.5°	12072.9	12140.1	12541.8	13032.2	13526.4	13599.9	13134.8	13096.8	13204.5	13234.9	11971.5
55°	12394.8	12454.3	12909.3	13806.5	14812.6	15129.4	14840.5	14693.5	14673.2	14372.9	12949.8
57.5°	12451.8	12445.5	13099.3	14307.0	15821.4	16638.7	16456.2	16311.8	15896.1	15424.7	14071.3
60°	12129.9	12166.7	12925.7	14480.6	16455.0	17780.5	17794.4	17606.9	16959.3	16447.4	15158.6
62.5°	11138.9	11288.5	12055.1	14025.7	16447.4	18240.5	18775.3	18632.1	17857.8	17285.0	16261.1
65°	9532.1	9585.3	10316.5	12467.0	15336.0	18047.9	19658.5	19605.3	18667.6	18098.6	16827.5
67.5°	6960.9	6845.6	7613.5	9817.2	12984.0	16925.1	20292.1	20359.3	19292.3	18265.8	16224.3
68°	6352.6	6386.8	6985.0	9162.1	12368.2	16528.5	20334.0	20436.6	19354.4	18156.9	15894.9
70°	3786.5	3852.4	4385.9	6308.3	9409.2	14284.2	19882.8	20117.3	18984.4	17032.8	13748.2
72.5°	966.9	1045.5	1549.8	2823.4	5374.3	10064.3	16784.4	17181.1	16482.8	13817.9	9281.2
75°	397.9	418.2	553.8	930.1	2002.2	4534.1	11062.9	11912.0	11426.6	8272.5	4194.5
77.5°	275.0	288.9	356.1	515.8	866.8	1537.1	5423.7	6037.1	5438.9	2823.4	914.9
80°	197.7	209.1	254.7	343.4	498.0	548.7	1767.8	2044.0	1623.3	619.7	226.8
82.5°	117.9	126.7	190.1	244.6	302.9	262.3	439.7	499.3	470.1	307.9	101.4
85°	58.3	68.4	128.0	174.9	163.5	110.2	134.3	149.5	185.0	187.5	54.5
87.5°	3.8	7.6	74.8	105.2	45.6	25.3	39.3	48.2	65.9	92.5	22.8
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: P322371

CATALOG NUMBER: GAN-SA7C-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	3193.4	3194.7	3185.8	3182.0	3184.5	3169.3	3163.0	3165.5	3165.5	3169.3	3163.0
5°	3225.1	3225.1	3209.9	3189.6	3178.2	3149.1	3130.1	3125.0	3121.2	3118.7	3113.6
7.5°	3293.5	3285.9	3259.3	3215.0	3176.9	3113.6	3065.4	3040.1	3027.4	3022.3	3018.5
10°	3403.8	3389.8	3345.5	3263.1	3175.7	3062.9	2957.7	2882.9	2820.9	2795.5	2780.3
12.5°	3552.0	3531.8	3457.0	3320.1	3166.8	2959.0	2730.9	2511.6	2307.6	2224.0	2182.2
15°	3723.1	3694.0	3576.1	3368.3	3114.8	2724.5	2229.1	1845.1	1562.5	1456.0	1410.4
17.5°	3896.7	3858.7	3680.0	3398.7	2959.0	2239.2	1563.8	1181.1	992.2	941.6	923.8
20°	4071.6	4015.8	3770.0	3375.9	2606.7	1614.4	1031.5	863.0	808.5	793.3	788.2
22.5°	4237.6	4151.4	3851.1	3287.2	2064.3	1083.5	816.1	762.9	745.1	736.3	733.7
25°	4382.1	4261.7	3922.1	3013.5	1461.1	818.6	735.0	717.3	694.4	678.0	679.2
27.5°	4517.7	4371.9	3965.2	2562.3	974.5	699.5	680.5	656.4	614.6	590.5	590.5
30°	4681.1	4518.9	3996.8	1971.8	717.3	618.4	603.2	566.5	509.4	477.7	477.7
32.5°	4927.0	4742.0	3976.6	1383.8	594.3	543.6	508.2	457.5	395.4	365.0	363.7
35°	5303.4	5086.7	3832.1	907.3	524.6	472.7	415.7	353.6	299.1	273.7	272.5
37.5°	5810.2	5547.9	3507.7	648.8	470.1	406.8	338.4	269.9	229.4	212.9	211.6
40°	6467.9	6084.0	3043.9	525.9	419.5	343.4	261.0	209.1	181.2	168.5	169.8
42.5°	7257.4	6658.0	2487.6	453.7	370.0	282.6	204.0	164.7	147.0	138.1	135.6
45°	8134.3	7224.5	1904.6	404.2	320.6	228.1	159.7	130.5	116.6	111.5	111.5
47.5°	9098.7	7775.7	1394.0	361.2	267.4	176.1	128.0	106.4	95.0	91.2	90.0
50°	9974.4	8158.4	1004.9	315.5	219.2	139.4	103.9	88.7	81.1	76.0	76.0
52.5°	10704.3	8278.8	740.1	266.1	177.4	111.5	86.2	76.0	68.4	64.6	64.6
55°	11346.8	8229.4	550.0	219.2	143.2	91.2	73.5	64.6	58.3	54.5	54.5
57.5°	11962.6	8069.7	410.6	178.7	115.3	73.5	62.1	54.5	48.2	45.6	45.6
60°	12465.7	7803.6	305.4	144.5	92.5	59.6	52.0	44.4	39.3	35.5	35.5
62.5°	12873.8	7509.6	224.3	119.1	73.5	46.9	40.6	36.7	29.1	25.3	25.3
65°	12876.3	7021.7	168.5	98.8	57.0	36.7	30.4	29.1	19.0	15.2	13.9
67.5°	11944.9	6053.6	129.3	84.9	44.4	27.9	22.8	24.1	10.1	6.3	5.1
68°	11606.6	5807.7	121.7	83.6	41.8	26.6	21.5	24.1	8.9	5.1	3.8
70°	9785.5	4620.3	97.6	81.1	36.7	20.3	17.7	24.1	7.6	3.8	2.5
72.5°	6258.8	2681.5	72.2	64.6	27.9	15.2	11.4	21.5	7.6	2.5	1.3
75°	2663.7	831.3	49.4	45.6	16.5	11.4	7.6	13.9	5.1	1.3	0.0
77.5°	561.4	187.5	29.1	27.9	11.4	7.6	5.1	3.8	1.3	0.0	0.0
80°	144.5	54.5	15.2	13.9	6.3	3.8	2.5	0.0	0.0	0.0	0.0
82.5°	45.6	21.5	8.9	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	12.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	3.8	1.3	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)