

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: P322153

Luminaire Tested: **GAN-SA9A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322153
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-SA9A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 25389 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - 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

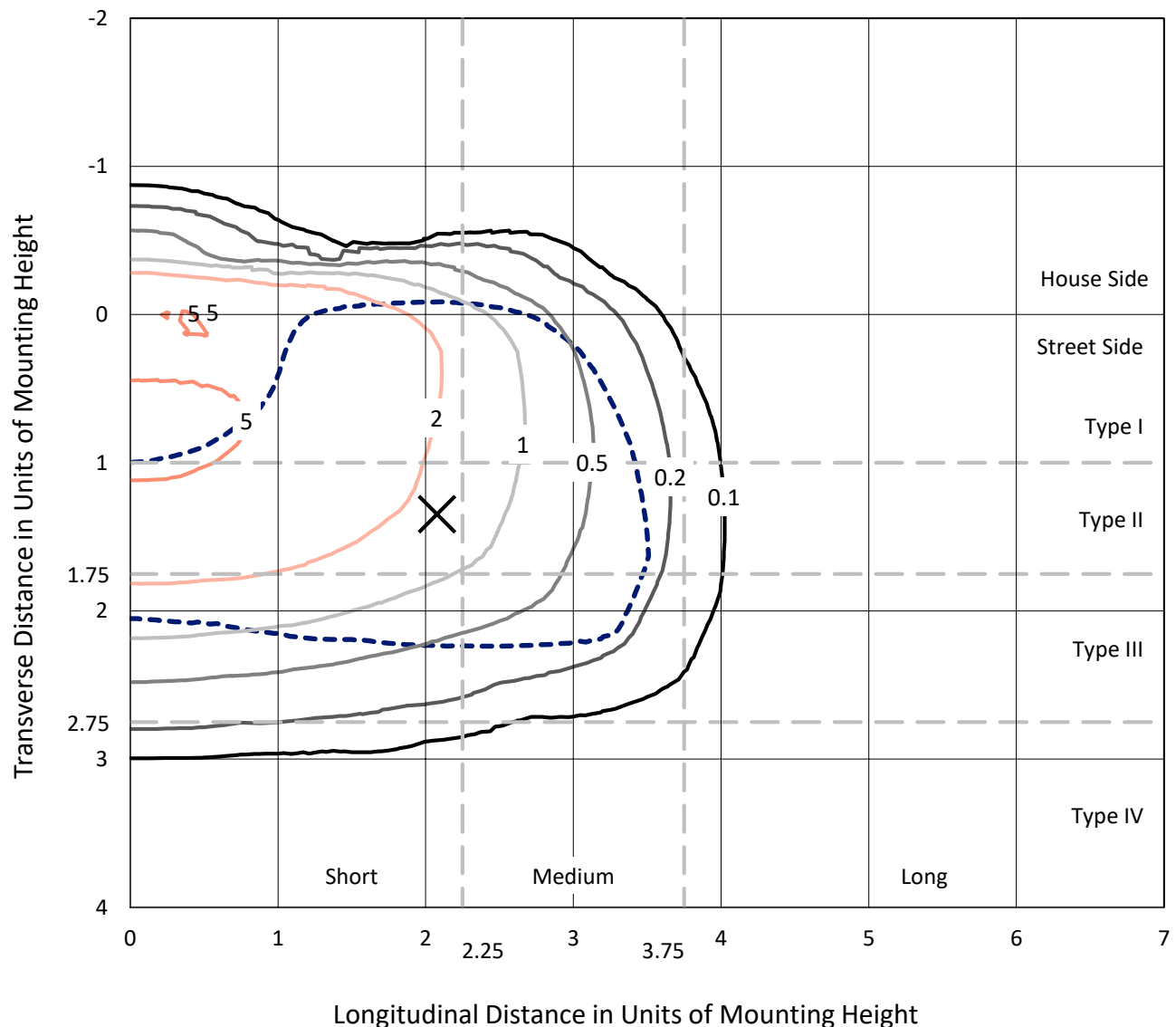


REPORT NUMBER: P322153

CATALOG NUMBER: GAN-SA9A-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

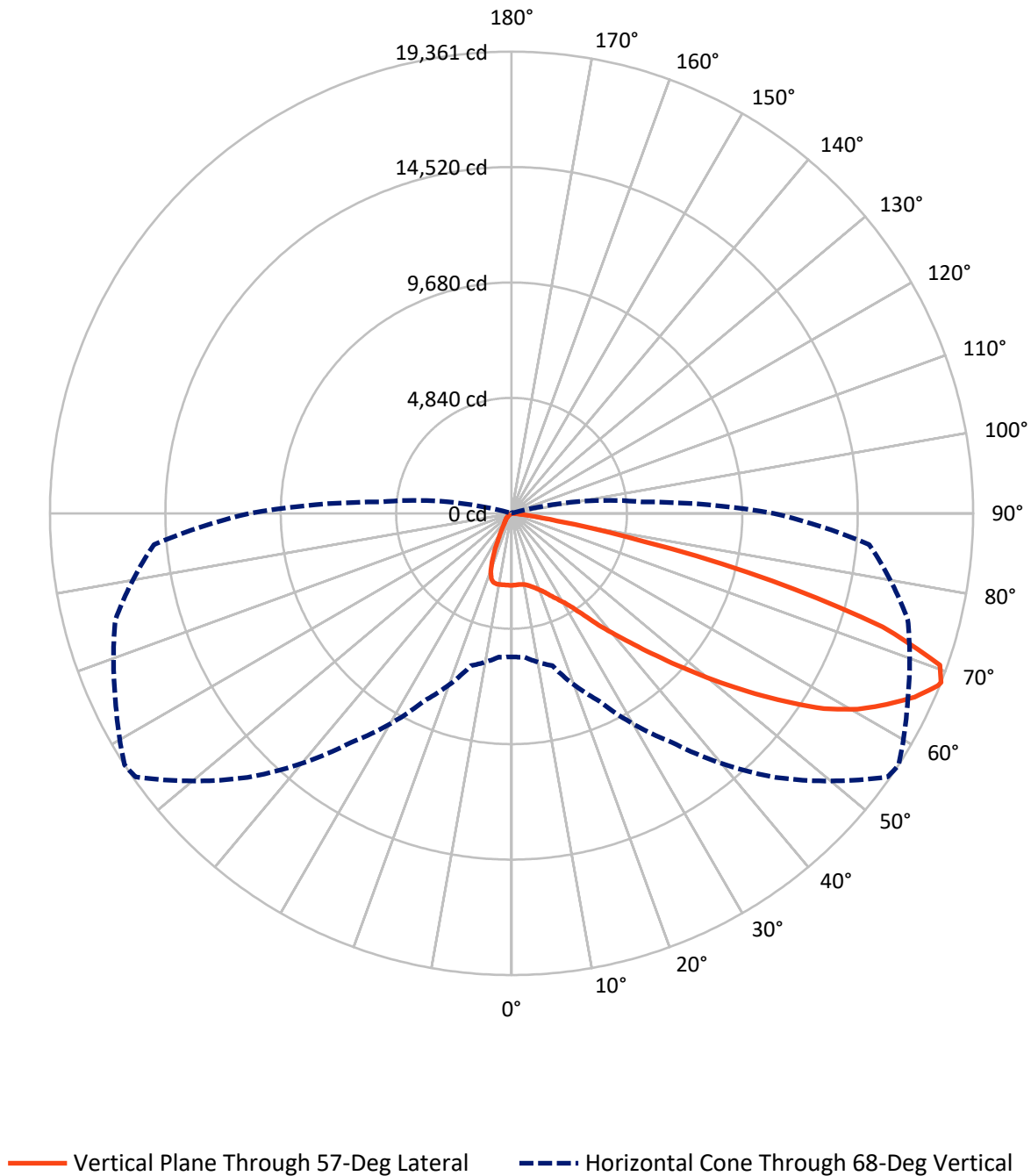
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P322153
CATALOG NUMBER: GAN-SA9A-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322153

CATALOG NUMBER: GAN-SA9A-727-U-T3-HSS

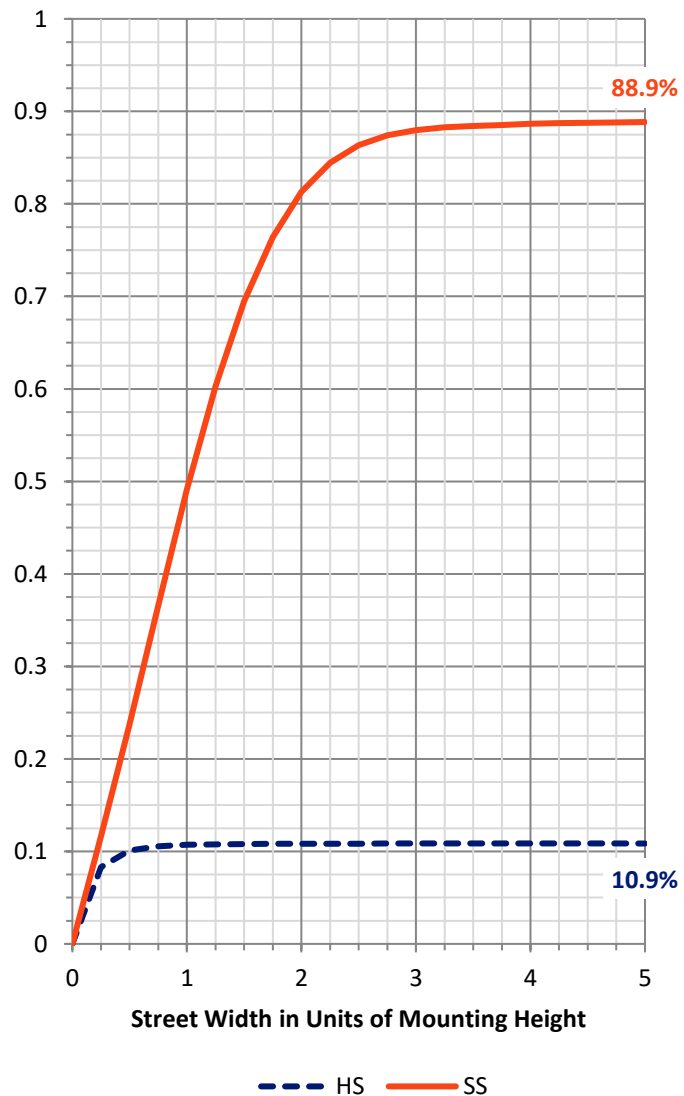
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2784.0	0.0	2784.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22604.9	0.0	22604.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	25389.0	0.0	25389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	1.1
10°-20°	782.4	3.1
20°-30°	1349.7	5.3
30°-40°	2329.5	9.2
40°-50°	3984.6	15.7
50°-60°	6375.0	25.1
60°-70°	7365.6	29.0
70°-80°	2814.5	11.1
80°-90°	105.5	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°	25389.0	100.0
0°-180°	25389.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322153

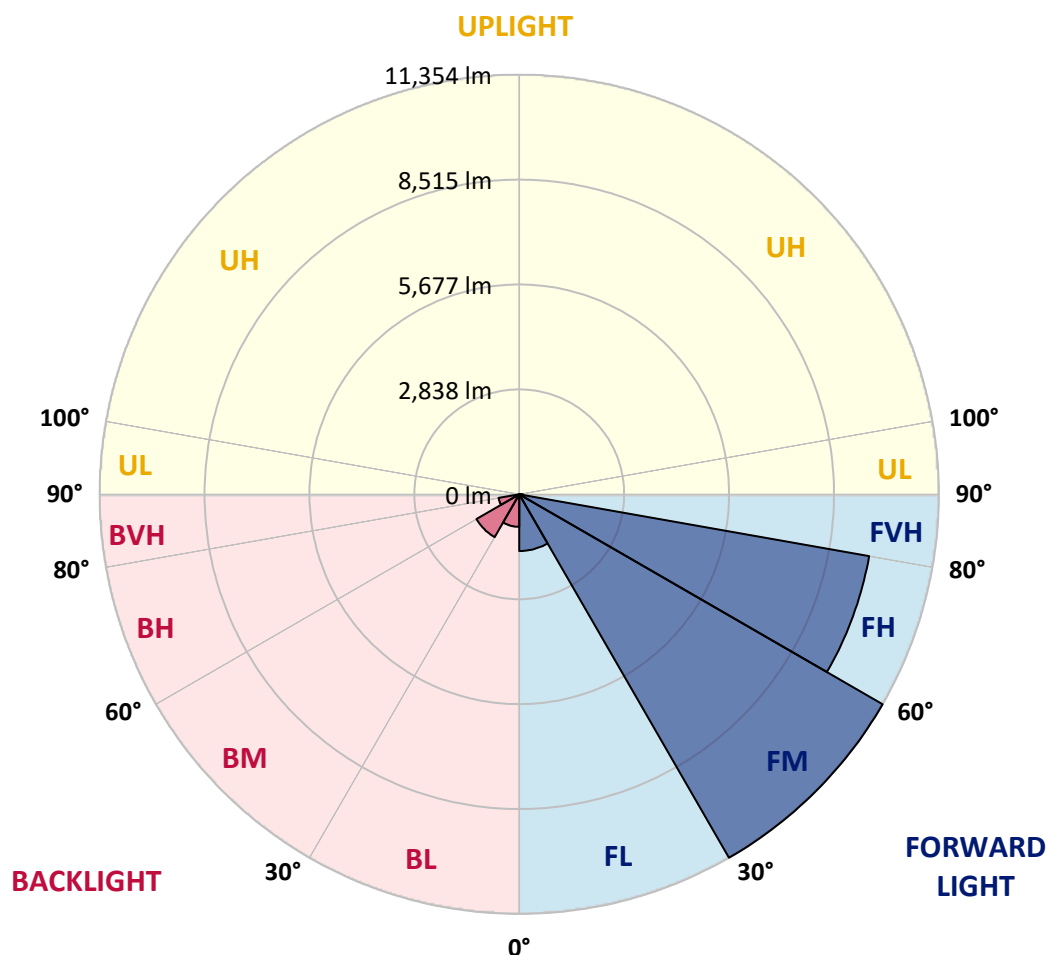
CATALOG NUMBER: GAN-SA9A-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1534.5	6.0			
FM	(30°-60°)	11353.7	44.7			
FH	(60°-80°)	9613.1	37.9			G4/12000
FVH	(80°-90°)	103.6	0.4			G2/225
BL	(0°-30°)	879.8	3.5	B2/1000		
BM	(30°-60°)	1335.3	5.3	B2/2500		
BH	(60°-80°)	567.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.9	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: P322153

CATALOG NUMBER: GAN-SA9A-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9
2.5°	2946.1	2959.3	2968.9	2974.9	2982.1	2997.7	3002.5	3009.7	3013.3	3013.3	3021.7
5°	2829.6	2844.0	2864.4	2881.2	2914.8	2958.1	2989.3	3001.3	3022.9	3042.1	3052.9
7.5°	2721.6	2738.4	2762.4	2802.0	2859.6	2929.2	2994.1	3010.9	3052.9	3093.7	3114.1
10°	2651.9	2665.1	2696.3	2752.8	2828.4	2925.6	3016.9	3037.3	3109.3	3177.8	3216.2
12.5°	2627.9	2639.9	2672.3	2736.0	2829.6	2943.7	3069.7	3099.7	3205.4	3305.0	3359.0
15°	2662.7	2665.1	2699.9	2760.0	2852.4	2988.1	3157.3	3193.4	3326.6	3456.3	3523.5
17.5°	2797.2	2786.4	2804.4	2830.8	2904.0	3046.9	3249.8	3303.8	3481.5	3633.9	3697.6
20°	3133.3	3133.3	3092.5	3020.5	3021.7	3138.1	3374.6	3435.9	3653.2	3829.6	3887.3
22.5°	3708.4	3697.6	3615.9	3439.5	3277.4	3295.4	3527.1	3606.3	3859.6	4048.1	4067.3
25°	4399.9	4386.7	4260.6	4012.1	3731.2	3549.9	3733.6	3824.8	4105.7	4272.6	4233.0
27.5°	5132.2	5121.4	4996.5	4688.0	4288.2	3955.7	3979.7	4066.1	4356.7	4521.1	4395.1
30°	5841.7	5845.3	5721.6	5404.7	4952.1	4473.1	4291.8	4342.2	4600.4	4767.2	4587.2
32.5°	6516.4	6521.2	6414.3	6060.2	5637.6	5074.6	4724.0	4710.8	4883.7	5048.1	4841.7
35°	7117.8	7129.8	7056.6	6781.7	6333.9	5744.4	5284.6	5253.4	5285.8	5471.9	5231.8
37.5°	7697.7	7704.9	7649.7	7418.0	7043.4	6480.4	5992.9	5948.5	5878.9	6021.8	5746.8
40°	8332.7	8314.7	8251.1	8041.0	7719.3	7293.1	6754.1	6677.2	6556.0	6683.2	6423.9
42.5°	8923.4	8903.0	8913.8	8676.1	8404.8	8128.7	7641.2	7509.2	7438.4	7584.8	7254.7
45°	9661.7	9650.9	9686.9	9480.4	9260.7	9060.3	8658.1	8514.0	8482.8	8654.5	8259.5
47.5°	10390.4	10416.8	10528.5	10440.8	10352.0	10175.5	9734.9	9670.1	9689.3	9897.0	9319.6
50°	10997.9	11029.1	11335.2	11436.1	11564.5	11461.3	11019.5	10979.9	11055.5	11242.8	10460.0
52.5°	11437.3	11500.9	11881.5	12346.0	12814.2	12883.9	12443.3	12407.3	12509.3	12538.1	11341.2
55°	11742.2	11798.6	12229.6	13079.6	14032.8	14332.9	14059.2	13919.9	13900.7	13616.2	12268.0
57.5°	11796.2	11790.2	12409.7	13553.8	14988.4	15762.7	15589.8	15453.0	15059.2	14612.6	13330.5
60°	11491.3	11526.1	12245.2	13718.2	15588.6	16844.4	16857.6	16679.9	16066.4	15581.4	14360.5
62.5°	10552.5	10694.1	11420.5	13287.2	15581.4	17280.1	17786.8	17651.1	16917.6	16375.0	15404.9
65°	9030.2	9080.7	9773.4	11810.6	14528.6	17097.7	18623.5	18573.1	17684.7	17145.7	15941.6
67.5°	6594.4	6485.2	7212.7	9300.4	12300.4	16034.0	19223.8	19287.4	18276.6	17304.2	15370.1
68°	6018.2	6050.6	6617.2	8679.7	11717.0	15658.3	19263.4	19360.6	18335.4	17200.9	15058.0
70°	3587.1	3649.6	4155.0	5976.1	8913.8	13532.2	18836.0	19058.1	17984.8	16136.1	13024.3
72.5°	916.0	990.4	1468.2	2674.7	5091.4	9534.5	15900.8	16276.5	15615.0	13090.4	8792.5
75°	377.0	396.2	524.6	881.2	1896.8	4295.4	10480.5	11284.8	10825.0	7836.9	3973.7
77.5°	260.5	273.7	337.3	488.6	821.1	1456.2	5138.2	5719.2	5152.6	2674.7	866.8
80°	187.3	198.1	241.3	325.3	471.8	519.8	1674.7	1936.4	1537.9	587.0	214.9
82.5°	111.6	120.1	180.1	231.7	286.9	248.5	416.6	473.0	445.4	291.7	96.0
85°	55.2	64.8	121.3	165.7	154.9	104.4	127.3	141.7	175.3	177.7	51.6
87.5°	3.6	7.2	70.8	99.6	43.2	24.0	37.2	45.6	62.4	87.6	21.6
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: P322153

CATALOG NUMBER: GAN-SA9A-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9
2.5°	3025.3	3026.5	3018.1	3014.5	3016.9	3002.5	2996.5	2998.9	2998.9	3002.5	2996.5
5°	3055.3	3055.3	3040.9	3021.7	3010.9	2983.3	2965.3	2960.5	2956.9	2954.5	2949.7
7.5°	3120.1	3112.9	3087.7	3045.7	3009.7	2949.7	2904.0	2880.0	2868.0	2863.2	2859.6
10°	3224.6	3211.4	3169.3	3091.3	3008.5	2901.6	2802.0	2731.2	2672.3	2648.3	2633.9
12.5°	3365.0	3345.8	3275.0	3145.3	3000.1	2803.2	2587.1	2379.4	2186.1	2106.9	2067.3
15°	3527.1	3499.5	3387.8	3191.0	2950.9	2581.1	2111.7	1747.9	1480.2	1379.4	1336.2
17.5°	3691.6	3655.6	3486.3	3219.8	2803.2	2121.3	1481.4	1118.9	940.0	892.0	875.2
20°	3857.2	3804.4	3571.5	3198.2	2469.4	1529.5	977.2	817.5	765.9	751.5	746.7
22.5°	4014.5	3932.9	3648.4	3114.1	1955.6	1026.4	773.1	722.7	705.9	697.5	695.1
25°	4151.4	4037.3	3715.6	2854.8	1384.2	775.5	696.3	679.5	657.9	642.3	643.5
27.5°	4279.8	4141.8	3756.4	2427.4	923.2	662.7	644.7	621.9	582.2	559.4	559.4
30°	4434.7	4281.0	3786.4	1868.0	679.5	585.8	571.4	536.6	482.6	452.6	452.6
32.5°	4667.6	4492.3	3767.2	1311.0	563.0	515.0	481.4	433.4	374.6	345.7	344.5
35°	5024.1	4818.8	3630.3	859.6	497.0	447.8	393.8	334.9	283.3	259.3	258.1
37.5°	5504.3	5255.8	3323.0	614.7	445.4	385.4	320.5	255.7	217.3	201.7	200.5
40°	6127.4	5763.7	2883.6	498.2	397.4	325.3	247.3	198.1	171.7	159.7	160.9
42.5°	6875.3	6307.5	2356.6	429.8	350.5	267.7	193.3	156.1	139.3	130.9	128.5
45°	7706.1	6844.1	1804.4	383.0	303.7	216.1	151.3	123.7	110.4	105.6	105.6
47.5°	8619.7	7366.3	1320.6	342.1	253.3	166.9	121.3	100.8	90.0	86.4	85.2
50°	9449.2	7728.9	952.0	298.9	207.7	132.1	98.4	84.0	76.8	72.0	72.0
52.5°	10140.7	7842.9	701.1	252.1	168.1	105.6	81.6	72.0	64.8	61.2	61.2
55°	10749.4	7796.1	521.0	207.7	135.7	86.4	69.6	61.2	55.2	51.6	51.6
57.5°	11332.8	7644.9	389.0	169.3	109.2	69.6	58.8	51.6	45.6	43.2	43.2
60°	11809.4	7392.7	289.3	136.9	87.6	56.4	49.2	42.0	37.2	33.6	33.6
62.5°	12196.0	7114.2	212.5	112.8	69.6	44.4	38.4	34.8	27.6	24.0	24.0
65°	12198.4	6652.0	159.7	93.6	54.0	34.8	28.8	27.6	18.0	14.4	13.2
67.5°	11316.0	5734.8	122.5	80.4	42.0	26.4	21.6	22.8	9.6	6.0	4.8
68°	10995.5	5501.9	115.2	79.2	39.6	25.2	20.4	22.8	8.4	4.8	3.6
70°	9270.3	4377.1	92.4	76.8	34.8	19.2	16.8	22.8	7.2	3.6	2.4
72.5°	5929.3	2540.3	68.4	61.2	26.4	14.4	10.8	20.4	7.2	2.4	1.2
75°	2523.5	787.5	46.8	43.2	15.6	10.8	7.2	13.2	4.8	1.2	0.0
77.5°	531.8	177.7	27.6	26.4	10.8	7.2	4.8	3.6	1.2	0.0	0.0
80°	136.9	51.6	14.4	13.2	6.0	3.6	2.4	0.0	0.0	0.0	0.0
82.5°	43.2	20.4	8.4	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.6	12.0	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	3.6	1.2	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)