

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: P318022

Luminaire Tested: **GAN-SA8D-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51032 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

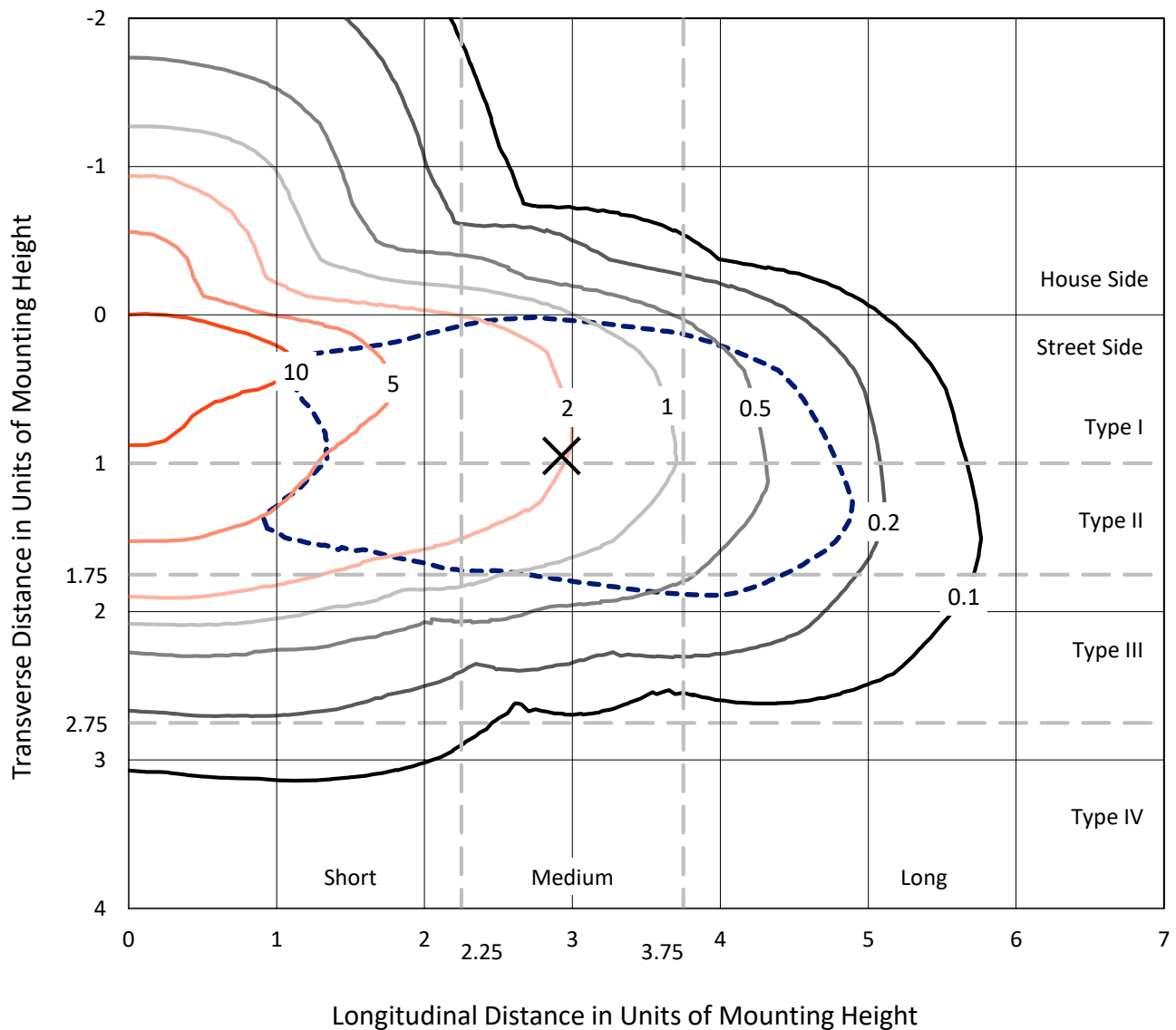


REPORT NUMBER: P318022

CATALOG NUMBER: GAN-SA8D-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

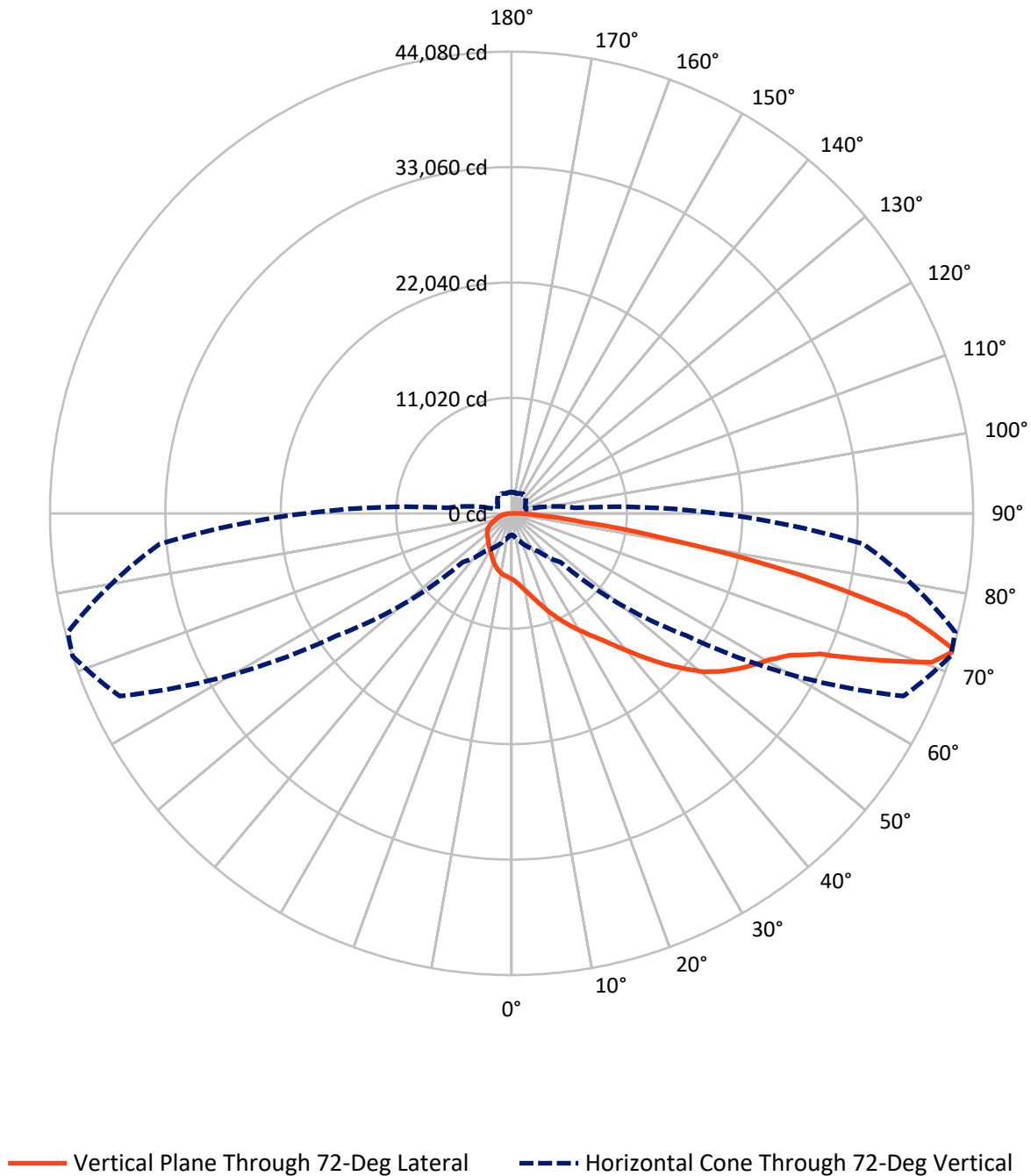
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type III - Medium - N/A

REPORT NUMBER: P318022
CATALOG NUMBER: GAN-SA8D-727-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318022

CATALOG NUMBER: GAN-SA8D-727-U-T2

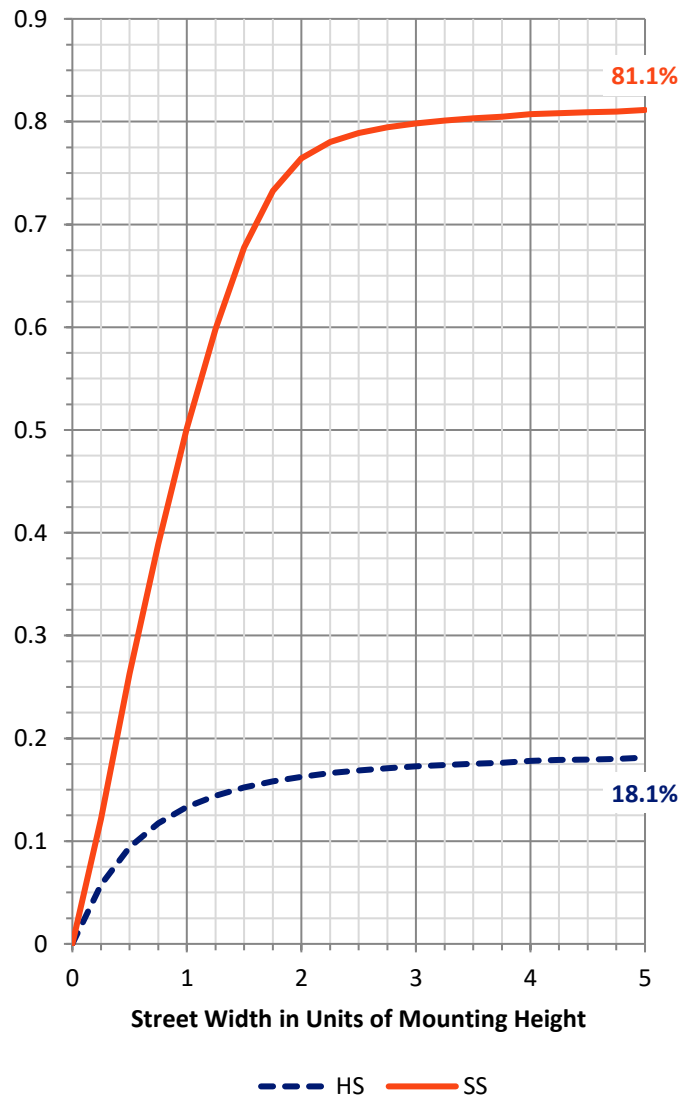
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9466.8	0.0	9466.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41565.2	0.0	41565.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	51032.0	0.0	51032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.1	1.2
10°-20°	2032.9	4.0
20°-30°	3562.4	7.0
30°-40°	5281.9	10.4
40°-50°	7725.2	15.1
50°-60°	10629.8	20.8
60°-70°	11834.1	23.2
70°-80°	8018.8	15.7
80°-90°	1318.0	2.6
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°	51032.0	100.0
0°-180°	51032.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318022

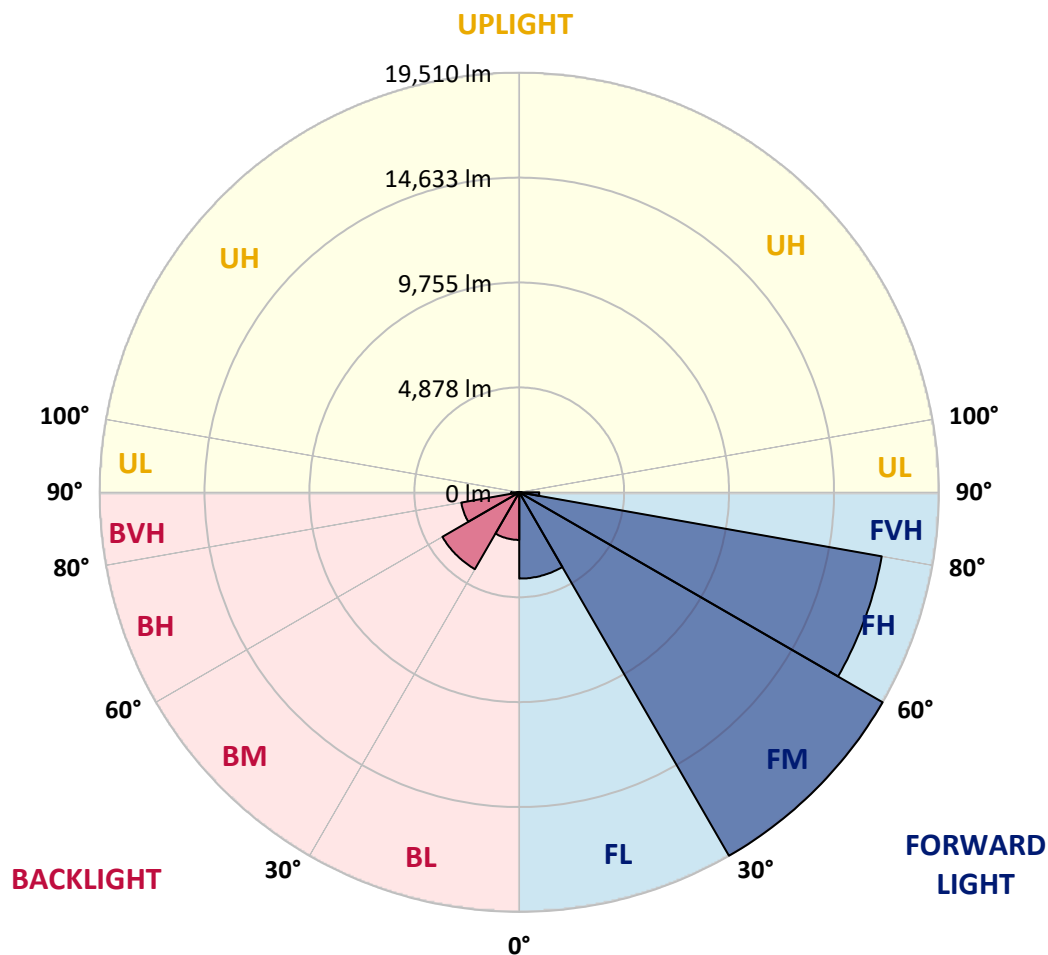
CATALOG NUMBER: GAN-SA8D-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4011.4	7.9			
FM	(30°-60°)	19510.2	38.2			
FH	(60°-80°)	17114.0	33.5			G5
FVH	(80°-90°)	929.7	1.8			G5
BL	(0°-30°)	2213.0	4.3	B3/2500		
BM	(30°-60°)	4126.6	8.1	B3/5000		
BH	(60°-80°)	2738.9	5.4	B4/5000		G4/5000
BVH	(80°-90°)	388.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





REPORT NUMBER: P318022

CATALOG NUMBER: GAN-SA8D-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3
2.5°	6935.4	6924.9	6888.0	6888.0	6817.7	6758.0	6645.5	6570.0	6480.3	6448.7	6343.3
5°	7606.7	7610.2	7564.5	7532.9	7429.2	7302.7	7111.2	6937.2	6763.2	6693.0	6476.8
7.5°	8170.7	8163.7	8151.4	8125.0	8028.4	7898.4	7640.1	7381.8	7125.2	7019.8	6647.3
10°	8532.7	8548.5	8559.0	8571.3	8530.9	8437.8	8193.6	7879.0	7543.4	7399.3	6851.1
12.5°	8715.4	8743.5	8792.7	8877.1	8943.9	8933.3	8755.8	8422.0	8023.1	7842.1	7105.9
15°	8822.6	8859.5	8936.8	9087.9	9276.0	9383.1	9335.7	9033.5	8588.9	8365.8	7416.9
17.5°	8889.4	8919.3	9038.7	9240.8	9520.2	9804.9	9929.6	9676.6	9228.5	8973.7	7773.6
20°	8935.1	8957.9	9107.3	9344.5	9706.5	10159.8	10507.7	10444.5	9933.1	9602.8	8146.1
22.5°	9037.0	9056.3	9198.6	9437.6	9838.2	10423.4	11064.7	11159.6	10676.4	10302.1	8545.0
25°	9321.6	9321.6	9441.1	9608.1	9984.1	10651.8	11535.6	11955.6	11435.5	10999.7	8914.0
27.5°	9864.6	9859.3	9903.3	9961.2	10245.9	10883.7	11955.6	12658.4	12222.7	11746.5	9272.4
30°	10507.7	10542.9	10548.1	10520.0	10653.6	11173.7	12343.9	13400.0	13015.1	12502.1	9639.7
32.5°	11335.3	11358.2	11331.8	11238.7	11219.3	11584.8	12725.2	14176.6	13872.6	13291.0	9975.3
35°	12386.1	12342.2	12259.6	12069.8	11888.8	12134.8	13161.0	14953.3	14835.5	14245.1	10437.4
37.5°	13512.4	13514.2	13412.3	12981.8	12732.2	12837.7	13761.9	15833.6	16000.5	15380.3	11029.6
40°	14415.6	14463.0	14526.3	13960.5	13637.2	13783.0	14526.3	16854.5	17378.1	16726.2	11801.0
42.5°	15046.4	15100.9	15280.1	14925.2	14589.5	14860.1	15425.9	17943.9	18924.4	18279.5	12704.1
45°	15714.1	15744.0	15870.5	15717.6	15503.3	16113.0	16439.8	19072.0	20560.3	19934.8	13714.5
47.5°	16417.0	16448.6	16578.6	16476.7	16364.3	17283.2	17497.6	20135.1	22127.7	21753.4	14793.4
50°	17285.0	17306.1	17429.1	17244.6	17279.7	18165.3	18443.0	21110.3	23770.6	23387.6	15875.8
52.5°	18469.3	18474.6	18645.0	18478.1	18312.9	18812.0	19256.5	22029.3	25058.6	24877.6	16958.2
55°	19397.1	19453.3	20012.1	19976.9	19882.1	19398.8	19936.5	22904.3	26207.8	26293.9	18107.3
57.5°	18804.9	19024.6	20156.2	20953.9	21730.6	20859.0	20855.5	23890.1	27276.1	27683.8	19370.7
60°	16469.7	16768.4	18435.9	20205.4	22635.5	23399.9	22763.8	25093.7	28355.0	29061.4	20953.9
62.5°	11762.3	12254.3	14514.0	17339.5	21395.0	25083.2	26647.1	27003.8	29822.2	30656.9	23011.5
65°	5946.2	6318.7	8212.9	11616.5	17093.5	23983.2	30867.7	31185.8	32371.8	33113.3	26179.7
67.5°	3612.7	3753.3	4677.5	6461.0	10479.6	18681.9	32245.3	38156.3	37305.9	37699.5	30697.3
70°	2662.1	2765.7	3342.1	4290.9	6027.0	10962.8	28017.6	43130.8	42572.0	42528.1	34035.8
72°	2073.4	2149.0	2658.6	3466.8	4406.9	6577.0	20307.3	41294.6	44079.7	43858.3	33730.1
72.5°	1966.2	2033.0	2496.9	3263.0	4164.4	5962.0	18258.5	40055.8	43970.7	43870.6	33334.7
75°	1548.0	1595.5	1848.5	2523.3	3259.5	3382.5	10005.2	31041.7	39006.8	40628.6	29982.1
77.5°	1281.0	1288.0	1421.5	1836.2	2540.8	2391.5	4914.7	21537.3	27931.5	29715.0	21238.6
80°	1043.7	1052.5	1115.8	1288.0	1922.3	1769.4	2333.5	12384.3	15638.6	15657.9	10100.1
82.5°	831.1	832.9	903.2	941.8	1381.1	1265.1	1337.2	5814.4	6833.5	6573.5	3630.3
85°	585.1	572.8	882.1	773.1	903.2	811.8	738.0	2301.9	2825.5	2702.5	1136.9
87.5°	195.0	202.1	391.8	500.8	527.1	460.4	328.6	882.1	1066.6	1057.8	360.2
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: P318022

CATALOG NUMBER: GAN-SA8D-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3	6278.3
2.5°	6309.9	6253.7	6171.1	6079.7	6007.7	5933.9	5879.4	5851.3	5819.7	5793.3	5824.9
5°	6376.7	6271.2	6095.5	5923.3	5796.8	5684.4	5603.5	5561.4	5522.7	5496.3	5499.9
7.5°	6485.6	6315.2	6020.0	5768.7	5593.0	5471.7	5389.2	5361.0	5336.4	5329.4	5338.2
10°	6601.6	6350.3	5919.8	5586.0	5385.6	5285.5	5248.6	5267.9	5285.5	5301.3	5318.9
12.5°	6733.4	6381.9	5774.0	5371.6	5201.1	5162.5	5199.4	5283.7	5345.2	5382.1	5405.0
15°	6905.6	6410.1	5605.3	5157.2	5043.0	5086.9	5211.7	5357.5	5464.7	5533.2	5543.8
17.5°	7063.7	6408.3	5389.2	4941.1	4914.7	5043.0	5231.0	5436.6	5580.7	5677.3	5696.7
20°	7227.1	6360.9	5137.9	4730.2	4784.7	4995.6	5239.8	5487.6	5661.5	5774.0	5800.3
22.5°	7380.0	6278.3	4862.0	4538.7	4675.8	4932.3	5206.4	5457.7	5631.6	5723.0	5751.1
25°	7483.7	6134.2	4582.6	4377.0	4579.1	4855.0	5097.5	5299.5	5429.6	5475.3	5482.3
27.5°	7536.4	5946.2	4319.1	4236.5	4479.0	4728.5	4895.4	4995.6	5032.5	5028.9	5021.9
30°	7543.4	5698.4	4092.4	4122.3	4363.0	4542.2	4621.3	4602.0	4554.5	4473.7	4480.7
32.5°	7520.6	5419.0	3902.6	4013.3	4215.4	4315.5	4319.1	4225.9	4099.4	3971.1	3936.0
35°	7527.6	5144.9	3735.7	3890.3	4036.2	4080.1	4039.7	3902.6	3730.4	3565.2	3530.1
37.5°	7604.9	4905.9	3591.6	3748.0	3837.6	3848.1	3790.2	3646.1	3519.6	3357.9	3343.8
40°	7789.4	4735.5	3454.5	3588.1	3639.0	3644.3	3561.7	3459.8	3470.4	3384.3	3382.5
42.5°	8121.5	4661.7	3333.3	3421.2	3452.8	3463.3	3400.1	3335.1	3426.4	3370.2	3350.9
45°	8550.3	4679.3	3231.4	3257.7	3315.7	3364.9	3326.3	3247.2	3282.3	3038.1	2957.3
47.5°	9045.8	4791.7	3150.6	3117.2	3217.3	3310.5	3250.7	3131.2	3006.5	2764.0	2718.3
50°	9625.6	4965.7	3076.8	2978.4	3110.1	3236.7	3176.9	3006.5	2818.5	2700.7	2684.9
52.5°	10230.1	5178.3	3003.0	2825.5	2974.8	3180.4	3150.6	2978.4	2746.4	2630.4	2609.4
55°	10915.4	5392.7	2909.8	2648.0	2829.0	3154.1	3138.3	2876.4	2691.9	2626.9	2611.1
57.5°	11767.6	5636.9	2786.8	2463.5	2691.9	3059.2	3010.0	2814.9	2635.7	2586.5	2581.2
60°	12878.1	5997.1	2609.4	2266.7	2525.0	2913.3	2902.8	2725.3	2546.1	2511.0	2503.9
62.5°	14543.9	6592.8	2365.1	2069.9	2338.8	2665.6	2762.2	2604.1	2451.2	2449.5	2453.0
65°	17126.9	7488.9	2099.8	1897.7	2150.7	2456.5	2598.8	2479.3	2354.6	2389.7	2395.0
67.5°	20121.0	8232.2	1839.7	1729.0	1959.2	2257.9	2451.2	2354.6	2226.3	2317.7	2319.4
70°	21117.3	7568.0	1611.3	1562.1	1760.7	2066.4	2291.3	2217.5	2087.5	2178.9	2170.1
72°	19651.9	6109.6	1463.7	1435.6	1611.3	1908.3	2149.0	2089.2	1961.0	2022.5	1999.6
72.5°	19189.7	5824.9	1426.8	1404.0	1570.9	1867.8	2112.1	2057.6	1929.3	1982.1	1961.0
75°	17118.1	5058.8	1226.5	1231.8	1370.6	1671.0	1904.7	1887.2	1755.4	1760.7	1753.6
77.5°	12416.0	3709.3	1033.2	1068.3	1166.7	1469.0	1695.6	1685.1	1541.0	1514.7	1509.4
80°	5761.7	1892.4	841.7	857.5	959.4	1228.2	1446.1	1432.1	1316.1	1282.7	1263.4
82.5°	1973.3	899.7	632.6	643.1	743.3	989.3	1254.6	1245.8	1149.2	1084.2	1043.7
85°	704.6	448.1	442.8	432.3	530.7	778.4	1092.9	1045.5	903.2	769.6	766.1
87.5°	228.4	191.5	228.4	226.7	309.3	527.1	794.2	676.5	655.4	544.7	534.2
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)