

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: P324736

Luminaire Tested: **GAN-SA2D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10867 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

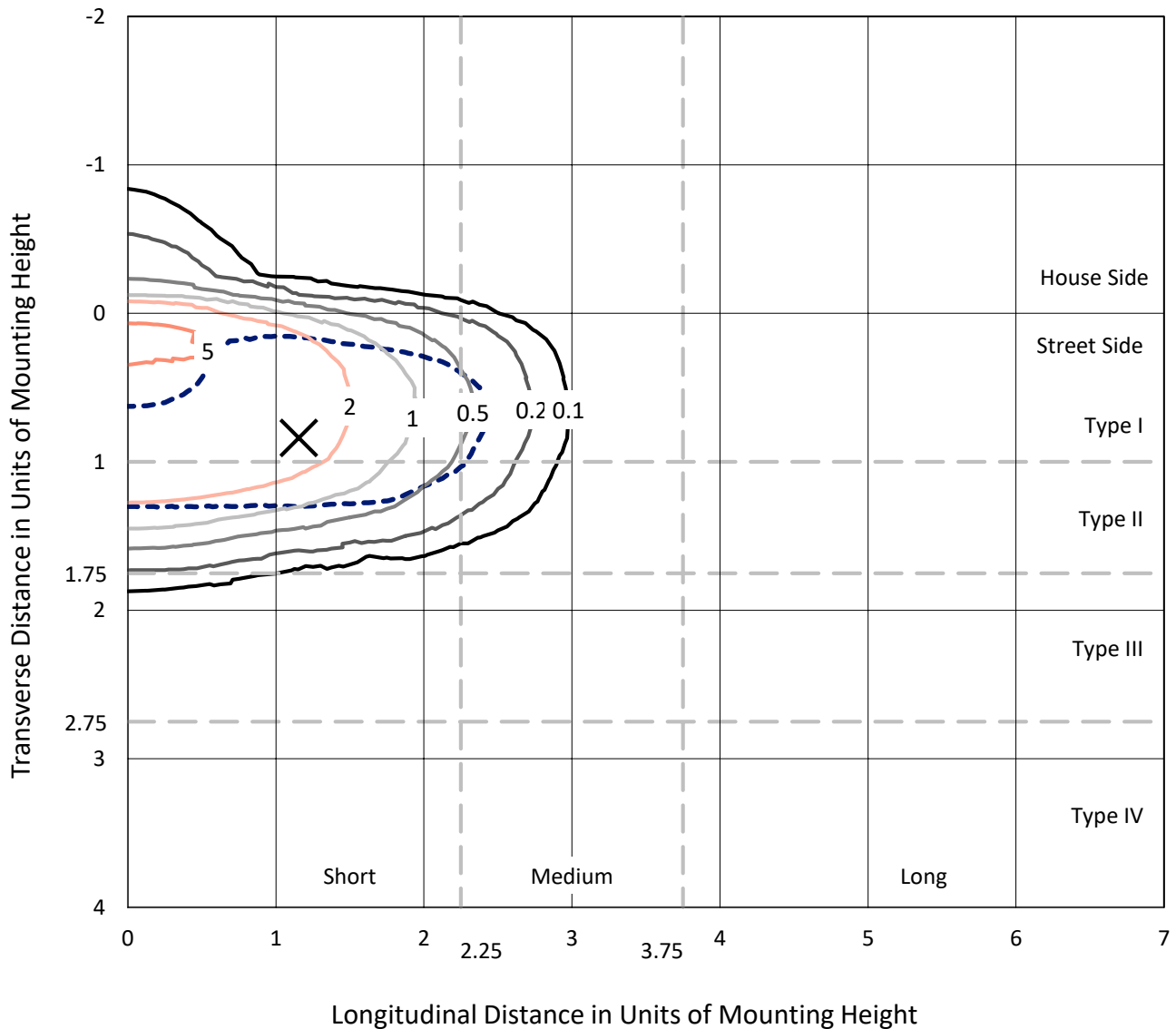
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324736
CATALOG NUMBER: GAN-SA2D-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

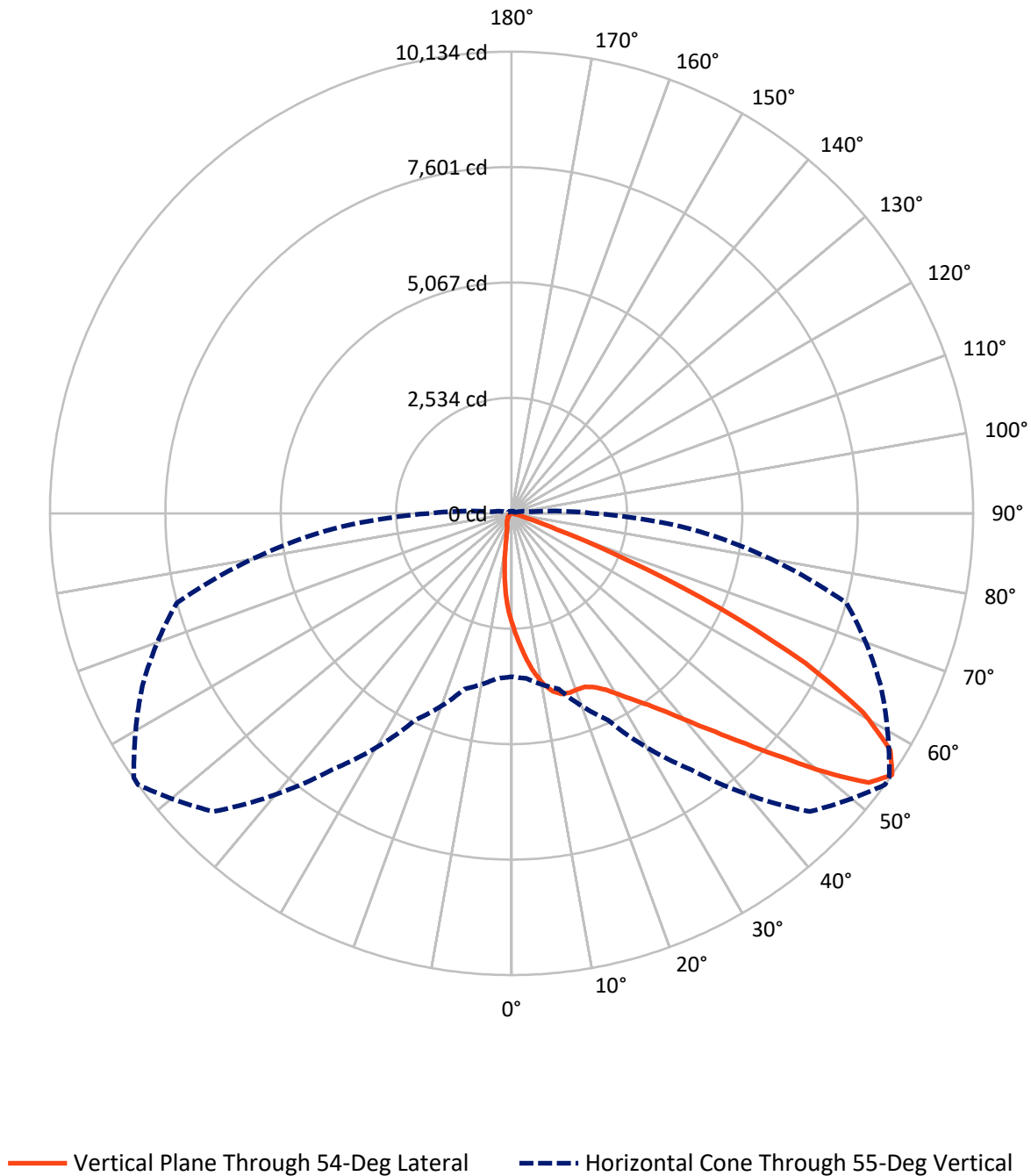
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - N/A

REPORT NUMBER: P324736
CATALOG NUMBER: GAN-SA2D-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324736

CATALOG NUMBER: GAN-SA2D-727-U-AFL-HSS

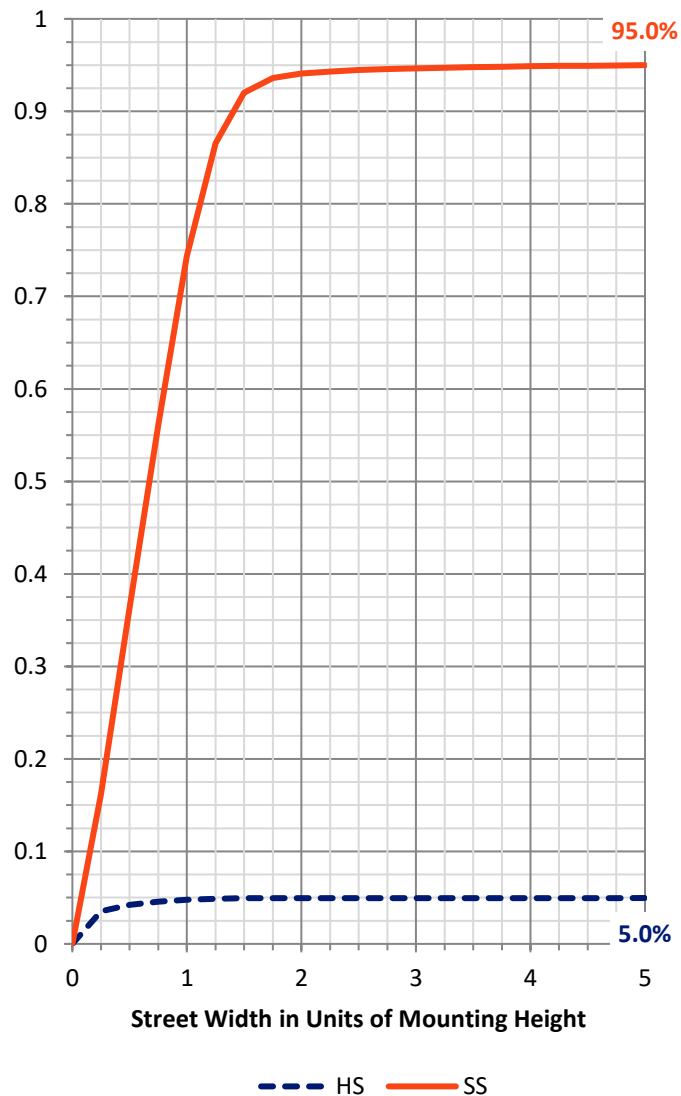
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	542.2	0.0	542.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10324.8	0.0	10324.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	10867.0	0.0	10867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	2.1
10°-20°	614.7	5.7
20°-30°	1049.4	9.7
30°-40°	1684.2	15.5
40°-50°	2691.3	24.8
50°-60°	2883.8	26.5
60°-70°	1480.6	13.6
70°-80°	224.3	2.1
80°-90°	14.6	0.1
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°	10867.0	100.0
0°-180°	10867.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324736

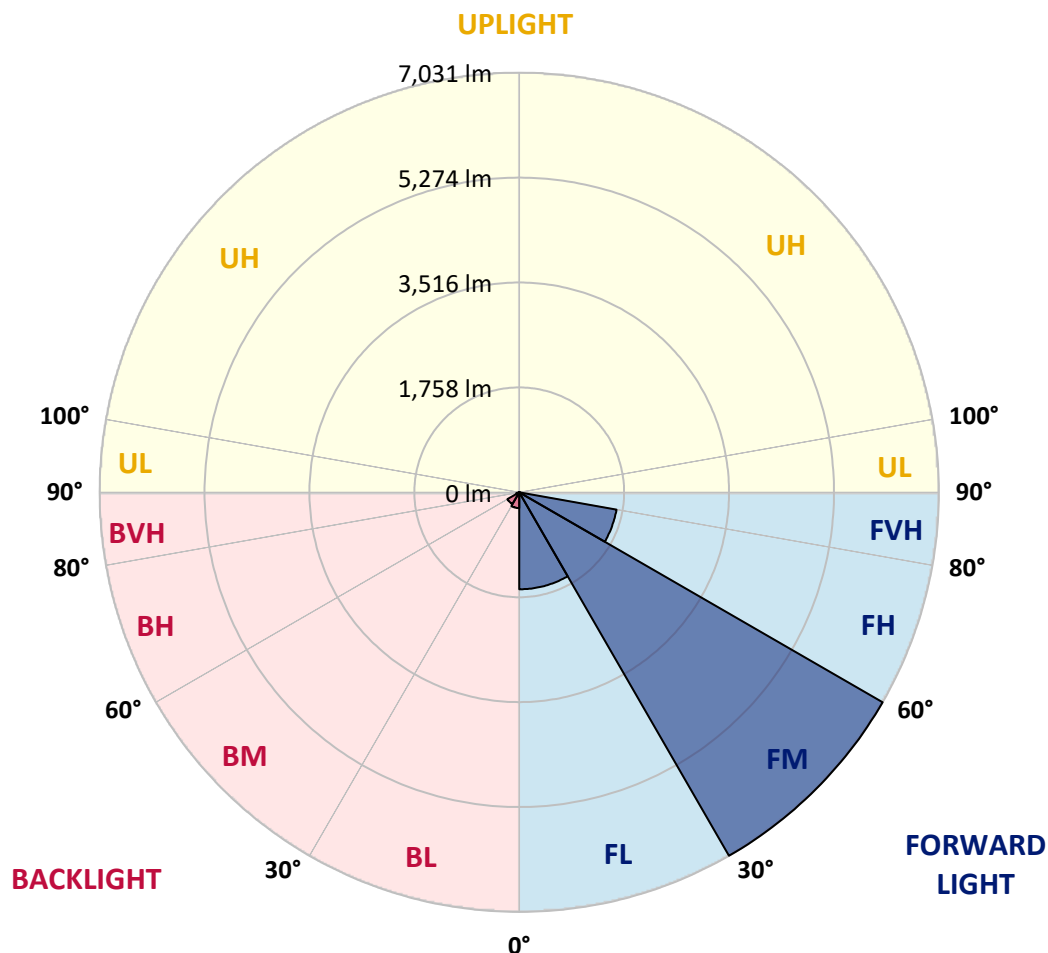
CATALOG NUMBER: GAN-SA2D-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.4	14.9			
FM	(30°-60°)	7031.4	64.7			
FH	(60°-80°)	1654.9	15.2			G1/1800
FVH	(80°-90°)	14.0	0.1			G1/100
BL	(0°-30°)	263.8	2.4	B1/500		
BM	(30°-60°)	227.8	2.1	B1/1000		
BH	(60°-80°)	50.0	0.5	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P324736

CATALOG NUMBER: GAN-SA2D-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8
2.5°	3054.2	3008.7	3010.1	2989.4	2913.9	2854.7	2793.3	2778.7	2683.0	2582.5	2485.9
5°	3582.1	3548.8	3540.8	3501.0	3395.8	3284.6	3165.4	3137.7	2950.5	2744.9	2542.6
7.5°	3853.4	3853.9	3847.3	3832.7	3767.0	3659.1	3513.6	3484.5	3229.7	2921.4	2601.8
10°	3774.6	3792.4	3829.0	3877.3	3927.5	3913.9	3804.6	3778.3	3501.4	3108.2	2667.5
12.5°	3590.6	3592.9	3633.8	3713.1	3857.6	4005.9	4007.8	3998.9	3760.9	3303.4	2739.8
15°	3499.1	3508.0	3523.0	3574.2	3711.2	3948.7	4118.5	4131.2	3998.9	3510.8	2816.7
17.5°	3559.1	3571.8	3559.1	3565.2	3644.6	3858.1	4137.8	4170.2	4206.8	3715.9	2889.5
20°	3722.0	3733.7	3711.2	3686.3	3701.8	3831.8	4124.2	4167.8	4369.6	3898.0	2950.5
22.5°	3941.6	3946.3	3912.1	3871.2	3860.0	3921.0	4135.4	4180.5	4500.1	4062.7	2988.9
25°	4183.3	4187.5	4144.8	4097.9	4071.1	4096.0	4227.9	4261.7	4615.1	4219.9	3011.0
27.5°	4446.6	4450.3	4396.8	4339.1	4308.1	4309.1	4380.4	4416.5	4737.5	4399.2	3028.8
30°	4724.9	4723.0	4673.7	4593.5	4554.1	4553.1	4600.0	4636.6	4914.9	4629.1	3053.2
32.5°	5037.4	5033.7	4963.7	4864.3	4819.7	4826.2	4868.0	4889.1	5135.0	4874.1	3096.9
35°	5449.0	5438.2	5332.6	5209.2	5127.1	5124.7	5159.9	5176.8	5415.7	5170.7	3169.6
37.5°	5983.1	5973.2	5830.1	5650.8	5535.4	5492.2	5533.9	5555.5	5816.0	5551.3	3286.5
40°	6509.6	6499.8	6414.8	6250.6	6072.7	5969.0	6001.8	6024.8	6315.8	6013.1	3433.8
42.5°	6872.8	6881.3	6910.9	6924.5	6757.9	6540.1	6555.1	6579.1	6840.9	6506.8	3602.3
45°	6968.6	6986.9	7154.0	7482.0	7544.4	7374.5	7217.3	7230.5	7374.5	7000.5	3770.8
47.5°	6680.9	6714.7	7037.1	7647.2	8175.6	8295.8	7998.2	7980.9	7886.5	7399.9	3890.5
50°	6027.2	6058.1	6475.8	7378.3	8367.1	9175.2	8934.0	8882.8	8335.6	7638.7	3932.7
52.5°	5081.1	5118.6	5457.9	6531.7	8006.2	9567.5	9820.0	9777.3	8665.1	7657.5	3939.7
55°	3588.2	3633.8	3992.8	5006.0	6862.5	9255.5	10134.0	10121.3	8938.7	7607.8	3954.8
57.5°	2016.6	2049.4	2436.6	3209.0	5026.2	8061.6	9806.0	9890.0	9103.9	7521.4	3977.3
60°	895.4	904.3	1104.7	1597.5	2942.5	6160.9	8866.9	9008.6	8962.2	7406.0	4015.3
62.5°	496.5	489.0	489.0	664.1	1278.8	3814.0	7230.5	7464.6	8357.2	7269.4	4017.2
65°	389.0	382.0	361.8	364.6	487.1	1692.8	5006.9	5423.2	7208.4	6869.1	3882.0
67.5°	329.9	323.8	303.6	295.7	302.7	558.5	2751.0	3183.2	5469.7	5828.7	3362.5
70°	278.8	274.5	264.2	254.4	236.5	275.9	1052.6	1346.4	3370.5	3877.3	2295.3
72.5°	224.3	222.4	226.2	217.8	196.2	184.0	360.0	436.0	1514.0	1730.3	945.6
75°	193.4	192.4	194.3	185.8	161.4	128.1	183.0	199.9	427.1	423.3	191.5
77.5°	125.8	127.2	161.0	157.2	138.9	85.4	94.8	102.3	129.5	97.1	58.2
80°	80.2	79.3	81.7	130.5	124.8	65.2	47.4	49.7	62.4	47.9	28.2
82.5°	48.8	47.9	53.5	61.0	62.9	45.5	29.1	29.6	39.0	31.0	15.0
85°	4.2	5.6	32.4	30.0	21.6	14.1	14.1	15.0	20.6	18.3	8.4
87.5°	0.0	0.0	5.6	8.4	4.7	5.2	5.2	5.6	8.0	8.0	4.2
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: P324736

CATALOG NUMBER: GAN-SA2D-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8
2.5°	2435.6	2386.8	2288.3	2193.5	2113.2	2035.8	1947.6	1860.3	1819.5	1803.0	1786.1
5°	2439.9	2339.4	2136.2	1931.6	1719.5	1528.5	1365.7	1198.6	1115.0	1078.4	1061.5
7.5°	2445.5	2292.5	1964.0	1620.5	1278.8	1019.8	793.6	648.1	585.2	575.4	551.0
10°	2446.4	2235.7	1764.1	1277.0	857.4	614.8	473.1	398.0	370.3	365.6	357.6
12.5°	2448.3	2168.6	1542.1	945.6	571.6	411.1	342.1	317.2	309.7	309.3	309.3
15°	2454.0	2098.2	1311.7	681.4	410.6	325.7	300.3	290.5	287.7	289.1	288.6
17.5°	2454.0	2015.2	1085.5	507.8	331.8	292.8	278.8	272.2	271.3	272.7	273.1
20°	2436.1	1914.3	878.1	395.1	294.2	271.7	259.1	253.0	250.6	251.5	252.0
22.5°	2393.4	1790.4	709.1	327.1	269.4	252.5	238.9	229.5	225.7	226.2	226.2
25°	2326.8	1643.5	554.7	283.0	249.2	231.8	215.9	205.1	202.7	202.3	203.2
27.5°	2241.4	1481.1	441.6	249.2	225.3	208.8	192.9	184.0	182.1	182.6	183.0
30°	2157.4	1312.6	348.2	220.6	198.5	183.0	170.8	166.6	166.6	168.0	168.5
32.5°	2080.4	1150.7	275.5	195.7	174.6	160.5	153.5	153.0	155.3	156.3	156.7
35°	2014.2	1001.0	228.1	176.5	155.8	143.6	141.3	143.1	146.0	147.8	148.3
37.5°	1967.3	867.3	199.5	160.5	141.3	131.4	130.9	134.7	138.4	142.7	143.6
40°	1947.6	754.2	179.7	146.4	129.5	122.0	120.6	125.8	132.8	138.9	139.9
42.5°	1931.2	661.7	162.8	132.8	120.1	109.3	108.9	115.4	123.9	130.0	131.4
45°	1917.1	587.6	147.4	118.3	107.9	93.9	95.3	103.7	110.3	116.9	118.3
47.5°	1888.0	526.6	130.5	102.8	89.2	80.2	83.1	90.6	95.7	105.6	107.0
50°	1835.9	476.8	113.1	84.0	72.7	69.5	73.7	78.8	85.4	93.9	94.8
52.5°	1800.7	439.3	98.1	70.4	60.1	61.0	65.2	67.1	70.9	74.1	73.2
55°	1780.5	418.6	85.9	61.0	51.2	54.0	54.9	52.6	50.7	47.4	46.0
57.5°	1778.2	399.8	76.5	53.0	45.1	46.5	43.2	35.2	28.6	24.9	23.9
60°	1774.4	376.8	69.0	44.6	39.9	38.0	31.0	19.2	13.6	12.7	12.7
62.5°	1733.6	341.2	63.4	37.5	33.8	28.6	17.8	8.9	7.5	8.0	8.0
65°	1603.6	291.4	57.7	30.5	26.7	20.6	8.9	5.2	2.8	3.3	3.3
67.5°	1363.3	232.3	51.6	23.5	20.2	13.1	5.2	2.3	0.0	0.0	0.0
70°	912.8	144.1	43.6	16.4	13.1	8.0	3.8	0.5	0.0	0.0	0.0
72.5°	350.1	77.9	35.2	9.9	8.4	5.6	2.3	0.0	0.0	0.0	0.0
75°	78.8	51.2	24.4	7.0	6.1	3.8	0.9	0.0	0.0	0.0	0.0
77.5°	30.0	37.1	14.1	4.7	4.2	2.3	0.0	0.0	0.0	0.0	0.0
80°	14.5	22.1	6.6	2.8	2.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	8.4	2.8	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	4.2	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.4	0.5	0.5	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)