

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: P324936

Luminaire Tested: **GAN-SA2D-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324936
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 9554 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

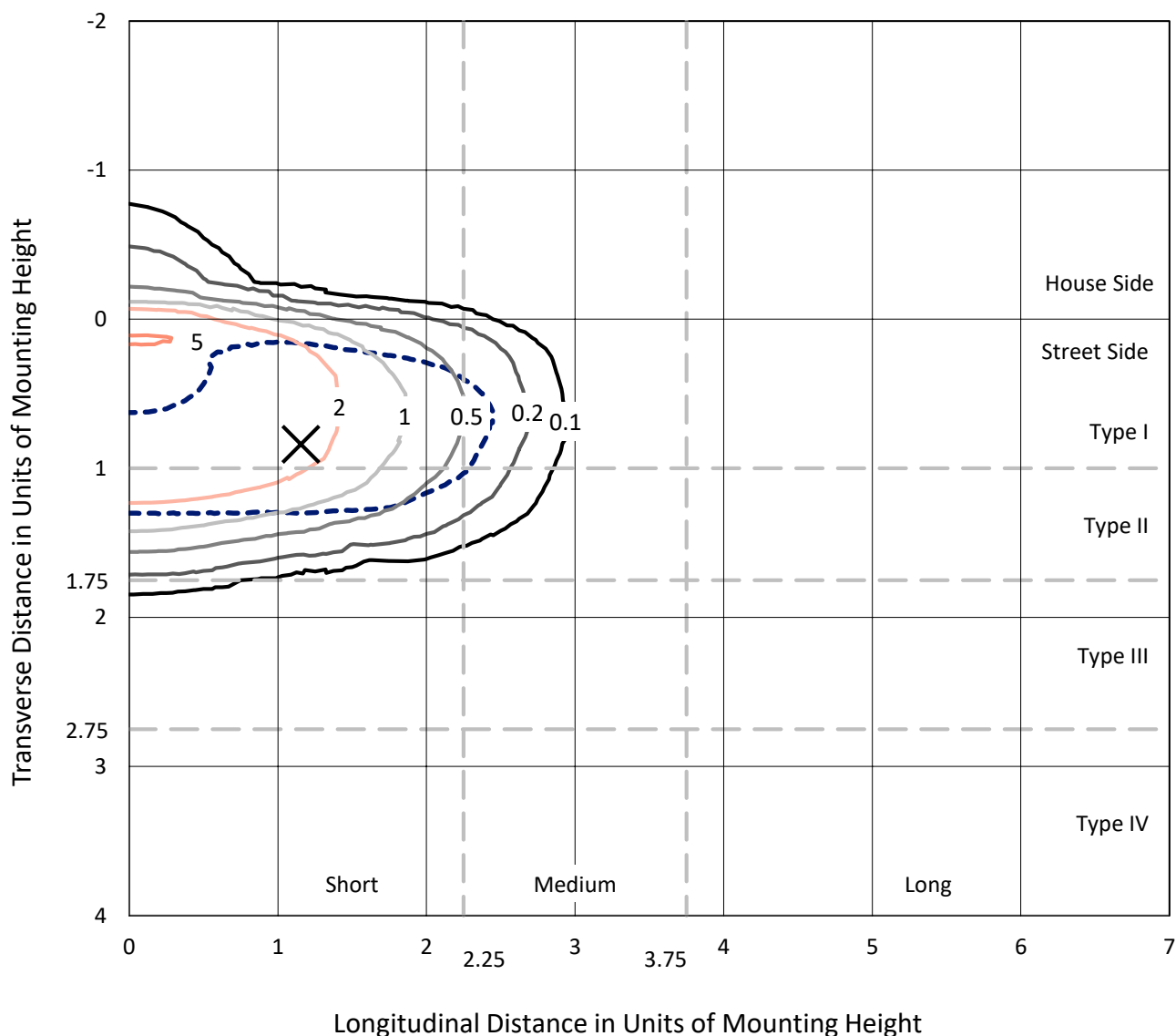
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324936
 CATALOG NUMBER: GAN-SA2D-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

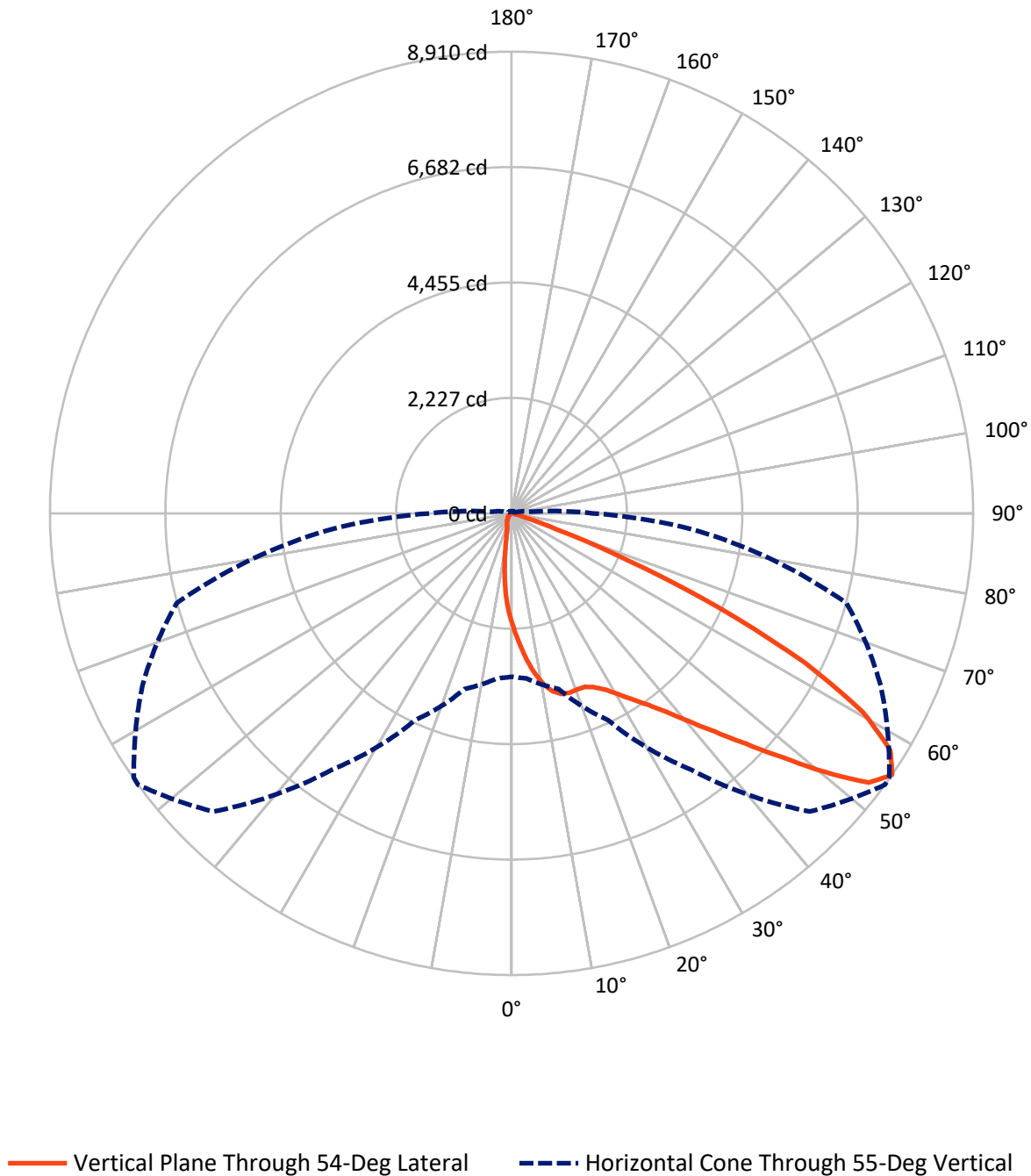
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P324936
CATALOG NUMBER: GAN-SA2D-827-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324936

CATALOG NUMBER: GAN-SA2D-827-U-AFL-HSS

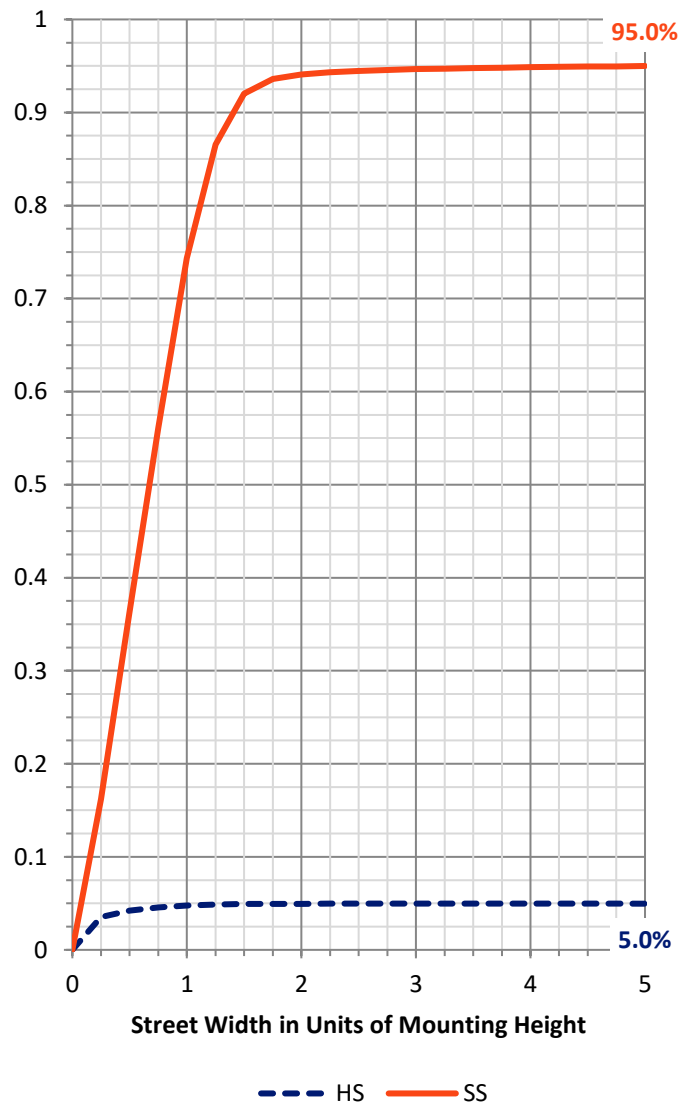
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.7	0.0	476.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9077.3	0.0	9077.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	9554.0	0.0	9554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	2.1
10°-20°	540.4	5.7
20°-30°	922.6	9.7
30°-40°	1480.7	15.5
40°-50°	2366.1	24.8
50°-60°	2535.4	26.5
60°-70°	1301.7	13.6
70°-80°	197.2	2.1
80°-90°	12.8	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°	9554.0	100.0
0°-180°	9554.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324936

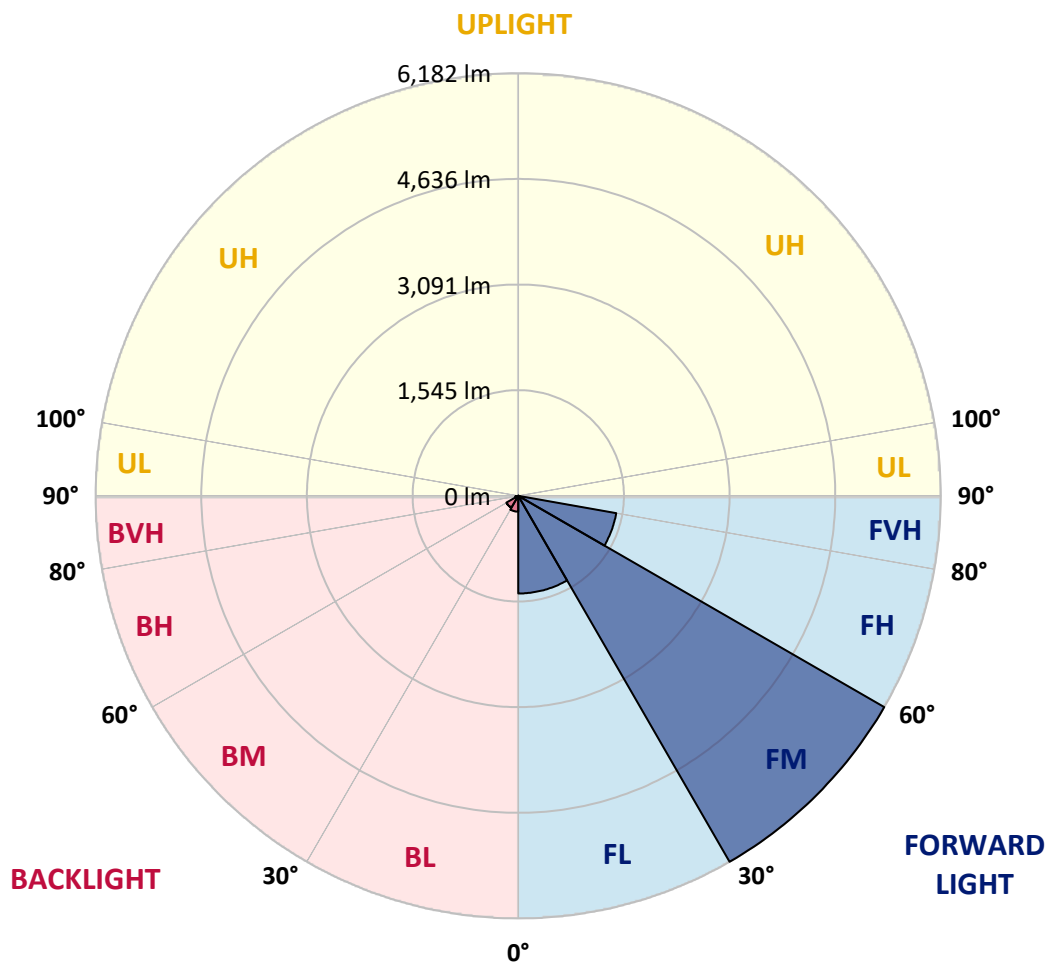
CATALOG NUMBER: GAN-SA2D-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1428.2	14.9			
FM	(30°-60°)	6181.9	64.7			
FH	(60°-80°)	1455.0	15.2			G1/1800
FVH	(80°-90°)	12.3	0.1			G1/100
BL	(0°-30°)	231.9	2.4	B1/500		
BM	(30°-60°)	200.3	2.1	B0/220		
BH	(60°-80°)	43.9	0.5	B0/110		G0/110
BVH	(80°-90°)	0.5	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: P324936

CATALOG NUMBER: GAN-SA2D-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7
2.5°	2685.2	2645.1	2646.4	2628.2	2561.8	2509.8	2455.8	2443.0	2358.8	2270.5	2185.5
5°	3149.3	3120.0	3113.0	3078.0	2985.5	2887.7	2782.9	2758.6	2594.0	2413.3	2235.4
7.5°	3387.8	3388.2	3382.4	3369.7	3311.9	3217.0	3089.1	3063.5	2839.5	2568.4	2287.4
10°	3318.5	3334.2	3366.4	3408.9	3453.0	3441.0	3344.9	3321.8	3078.4	2732.6	2345.2
12.5°	3156.8	3158.8	3194.7	3264.4	3391.5	3521.9	3523.6	3515.7	3306.5	2904.2	2408.7
15°	3076.3	3084.1	3097.3	3142.3	3262.8	3471.6	3620.9	3632.1	3515.7	3086.6	2476.4
17.5°	3129.1	3140.3	3129.1	3134.5	3204.2	3391.9	3637.8	3666.3	3698.5	3266.9	2540.3
20°	3272.3	3282.6	3262.8	3240.9	3254.5	3368.8	3625.9	3664.2	3841.7	3427.0	2594.0
22.5°	3465.4	3469.5	3439.4	3403.5	3393.6	3447.2	3635.8	3675.4	3956.4	3571.8	2627.8
25°	3677.9	3681.6	3644.0	3602.8	3579.3	3601.1	3717.1	3746.8	4057.4	3710.0	2647.2
27.5°	3909.3	3912.6	3865.6	3814.8	3787.6	3788.4	3851.2	3882.9	4165.1	3867.7	2662.9
30°	4154.0	4152.3	4109.0	4038.5	4003.8	4003.0	4044.2	4076.4	4321.1	4069.8	2684.3
32.5°	4428.8	4425.5	4364.0	4276.5	4237.3	4243.1	4279.8	4298.4	4514.6	4285.2	2722.7
35°	4790.6	4781.1	4688.3	4579.8	4507.6	4505.5	4536.5	4551.3	4761.3	4546.0	2786.7
37.5°	5260.2	5251.5	5125.7	4968.0	4866.5	4828.6	4865.3	4884.3	5113.3	4880.6	2889.4
40°	5723.1	5714.4	5639.7	5495.3	5339.0	5247.8	5276.7	5296.9	5552.7	5286.6	3019.0
42.5°	6042.4	6049.9	6075.9	6087.8	5941.4	5749.9	5763.1	5784.2	6014.4	5720.6	3167.1
45°	6126.6	6142.7	6289.6	6578.0	6632.9	6483.5	6345.3	6356.8	6483.5	6154.7	3315.2
47.5°	5873.7	5903.4	6186.8	6723.2	7187.8	7293.4	7031.8	7016.6	6933.6	6505.8	3420.4
50°	5298.9	5326.2	5693.4	6486.8	7356.1	8066.6	7854.6	7809.6	7328.5	6715.8	3457.5
52.5°	4467.2	4500.2	4798.5	5742.5	7038.9	8411.6	8633.5	8596.0	7618.1	6732.3	3463.7
55°	3154.7	3194.7	3510.3	4401.1	6033.4	8137.2	8909.6	8898.4	7858.7	6688.6	3476.9
57.5°	1772.9	1801.8	2142.2	2821.3	4418.9	7087.5	8621.2	8695.0	8003.9	6612.6	3496.7
60°	787.2	795.1	971.2	1404.5	2587.0	5416.5	7795.6	7920.2	7879.3	6511.1	3530.2
62.5°	436.5	429.9	429.9	583.8	1124.3	3353.2	6356.8	6562.7	7347.5	6391.1	3531.8
65°	342.0	335.9	318.1	320.6	428.3	1488.2	4402.0	4767.9	6337.4	6039.1	3413.0
67.5°	290.1	284.7	266.9	259.9	266.1	491.0	2418.6	2798.6	4808.8	5124.4	2956.2
70°	245.1	241.4	232.3	223.6	207.9	242.6	925.4	1183.7	2963.3	3408.9	2018.0
72.5°	197.2	195.6	198.9	191.4	172.5	161.7	316.5	383.3	1331.0	1521.2	831.4
75°	170.0	169.2	170.8	163.4	141.9	112.6	160.9	175.8	375.5	372.2	168.3
77.5°	110.6	111.8	141.5	138.2	122.1	75.1	83.3	89.9	113.9	85.4	51.2
80°	70.6	69.7	71.8	114.7	109.8	57.4	41.7	43.7	54.9	42.1	24.8
82.5°	42.9	42.1	47.0	53.6	55.3	40.0	25.6	26.0	34.2	27.2	13.2
85°	3.7	5.0	28.5	26.4	19.0	12.4	12.4	13.2	18.2	16.1	7.4
87.5°	0.0	0.0	5.0	7.4	4.1	4.5	4.5	5.0	7.0	7.0	3.7
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: P324936

CATALOG NUMBER: GAN-SA2D-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7
2.5°	2141.4	2098.5	2011.8	1928.5	1857.9	1789.8	1712.3	1635.5	1599.6	1585.2	1570.3
5°	2145.1	2056.8	1878.1	1698.2	1511.7	1343.8	1200.6	1053.8	980.3	948.1	933.3
7.5°	2150.0	2015.5	1726.7	1424.7	1124.3	896.6	697.7	569.8	514.5	505.8	484.4
10°	2150.9	1965.6	1550.9	1122.7	753.8	540.5	415.9	349.9	325.5	321.4	314.4
12.5°	2152.5	1906.6	1355.8	831.4	502.5	361.4	300.8	278.9	272.3	271.9	271.9
15°	2157.5	1844.7	1153.2	599.1	361.0	286.3	264.1	255.4	252.9	254.2	253.7
17.5°	2157.5	1771.7	954.3	446.4	291.7	257.5	245.1	239.3	238.5	239.7	240.1
20°	2141.8	1683.0	772.0	347.4	258.7	238.9	227.8	222.4	220.3	221.2	221.6
22.5°	2104.2	1574.0	623.4	287.6	236.8	222.0	210.0	201.8	198.5	198.9	198.9
25°	2045.6	1444.9	487.7	248.8	219.1	203.8	189.8	180.3	178.2	177.8	178.7
27.5°	1970.5	1302.1	388.3	219.1	198.0	183.6	169.6	161.7	160.1	160.5	160.9
30°	1896.7	1154.0	306.1	193.9	174.5	160.9	150.2	146.5	146.5	147.7	148.1
32.5°	1829.0	1011.7	242.2	172.1	153.5	141.1	134.9	134.5	136.6	137.4	137.8
35°	1770.9	880.1	200.5	155.1	137.0	126.3	124.2	125.8	128.3	130.0	130.4
37.5°	1729.6	762.5	175.4	141.1	124.2	115.5	115.1	118.4	121.7	125.4	126.3
40°	1712.3	663.0	158.0	128.7	113.9	107.3	106.0	110.6	116.8	122.1	123.0
42.5°	1697.8	581.8	143.2	116.8	105.6	96.1	95.7	101.5	108.9	114.3	115.5
45°	1685.4	516.6	129.6	104.0	94.9	82.5	83.8	91.2	97.0	102.7	104.0
47.5°	1659.9	462.9	114.7	90.4	78.4	70.6	73.0	79.6	84.2	92.8	94.1
50°	1614.1	419.2	99.4	73.9	64.0	61.1	64.8	69.3	75.1	82.5	83.3
52.5°	1583.1	386.2	86.2	61.9	52.8	53.6	57.4	59.0	62.3	65.2	64.4
55°	1565.4	368.0	75.5	53.6	45.0	47.4	48.3	46.2	44.6	41.7	40.4
57.5°	1563.3	351.5	67.3	46.6	39.6	40.8	38.0	30.9	25.2	21.9	21.0
60°	1560.0	331.3	60.7	39.2	35.1	33.4	27.2	16.9	12.0	11.1	11.1
62.5°	1524.1	300.0	55.7	33.0	29.7	25.2	15.7	7.8	6.6	7.0	7.0
65°	1409.8	256.2	50.7	26.8	23.5	18.2	7.8	4.5	2.5	2.9	2.9
67.5°	1198.6	204.2	45.4	20.6	17.7	11.6	4.5	2.1	0.0	0.0	0.0
70°	802.5	126.7	38.4	14.4	11.6	7.0	3.3	0.4	0.0	0.0	0.0
72.5°	307.8	68.5	30.9	8.7	7.4	5.0	2.1	0.0	0.0	0.0	0.0
75°	69.3	45.0	21.5	6.2	5.4	3.3	0.8	0.0	0.0	0.0	0.0
77.5°	26.4	32.6	12.4	4.1	3.7	2.1	0.0	0.0	0.0	0.0	0.0
80°	12.8	19.4	5.8	2.5	2.1	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	7.4	2.5	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	3.7	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.2	0.4	0.4	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)