

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: P320896

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13620 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

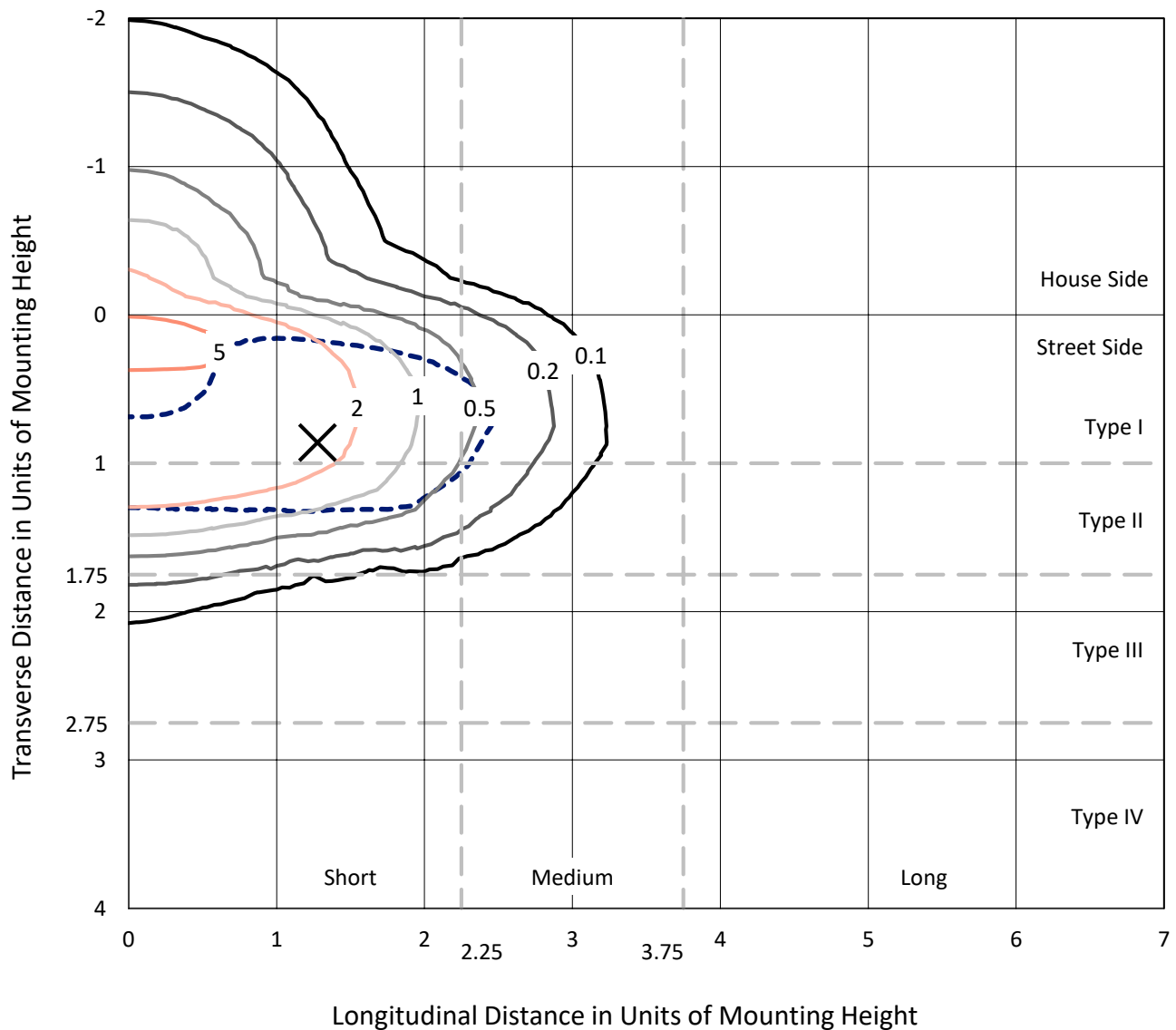


REPORT NUMBER: P320896

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

Iso-Footcandle Lines of Horizontal Illumination

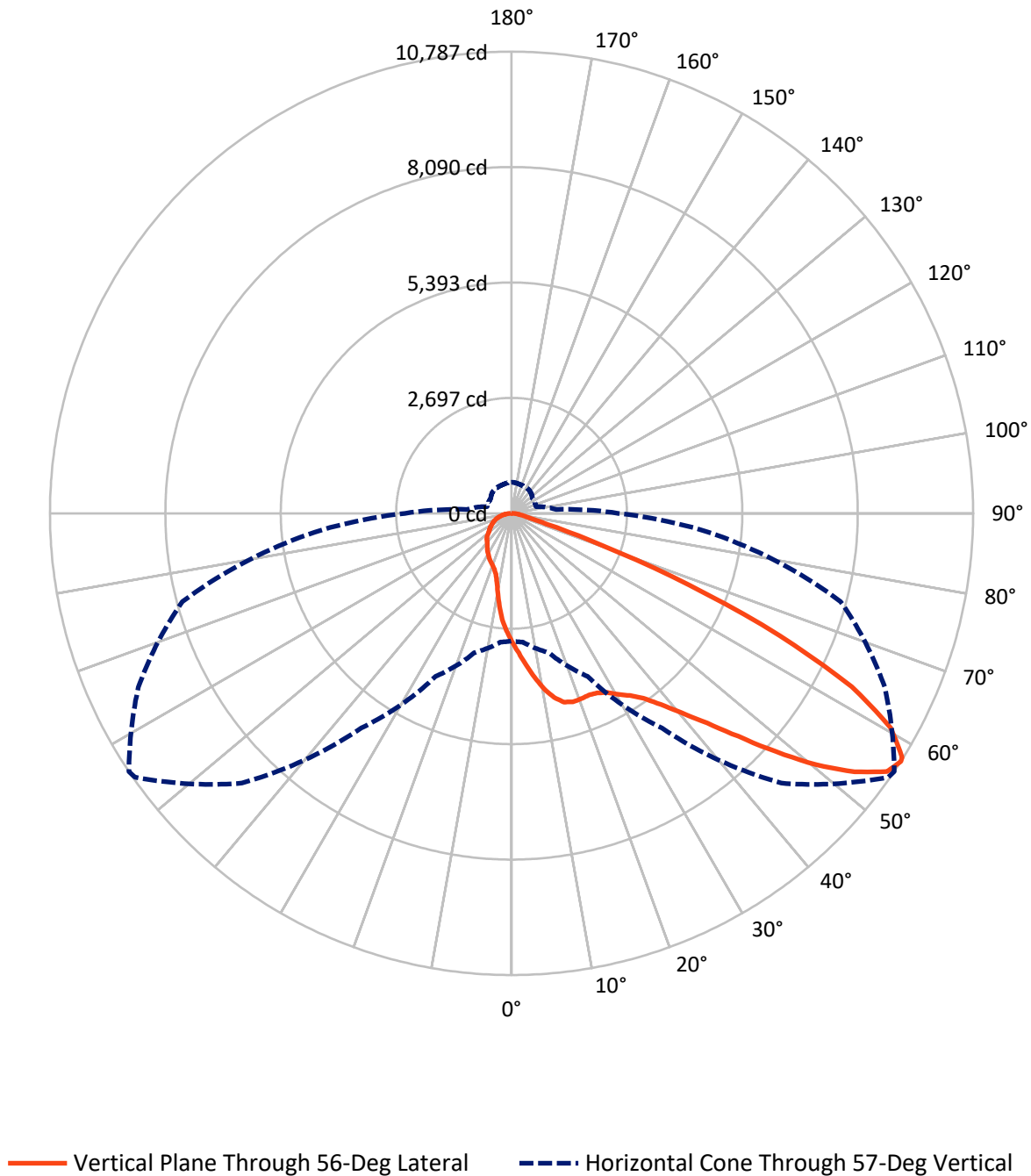
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - N/A

REPORT NUMBER: P320896
CATALOG NUMBER: GAN-SA2D-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320896

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

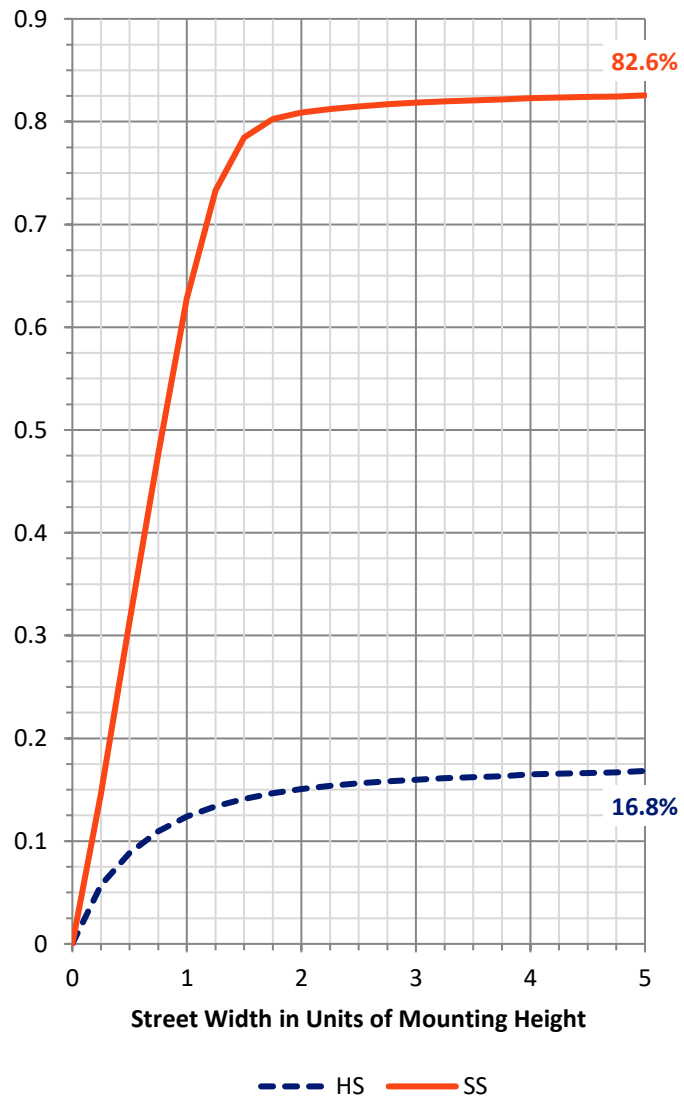
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2347.8	0.0	2347.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	11272.2	0.0	11272.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	13620.0	0.0	13620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	2.1
10°-20°	815.9	6.0
20°-30°	1328.9	9.8
30°-40°	1986.5	14.6
40°-50°	3013.2	22.1
50°-60°	3377.2	24.8
60°-70°	1994.7	14.6
70°-80°	653.6	4.8
80°-90°	161.5	1.2
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°	13620.0	100.0
0°-180°	13620.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320896

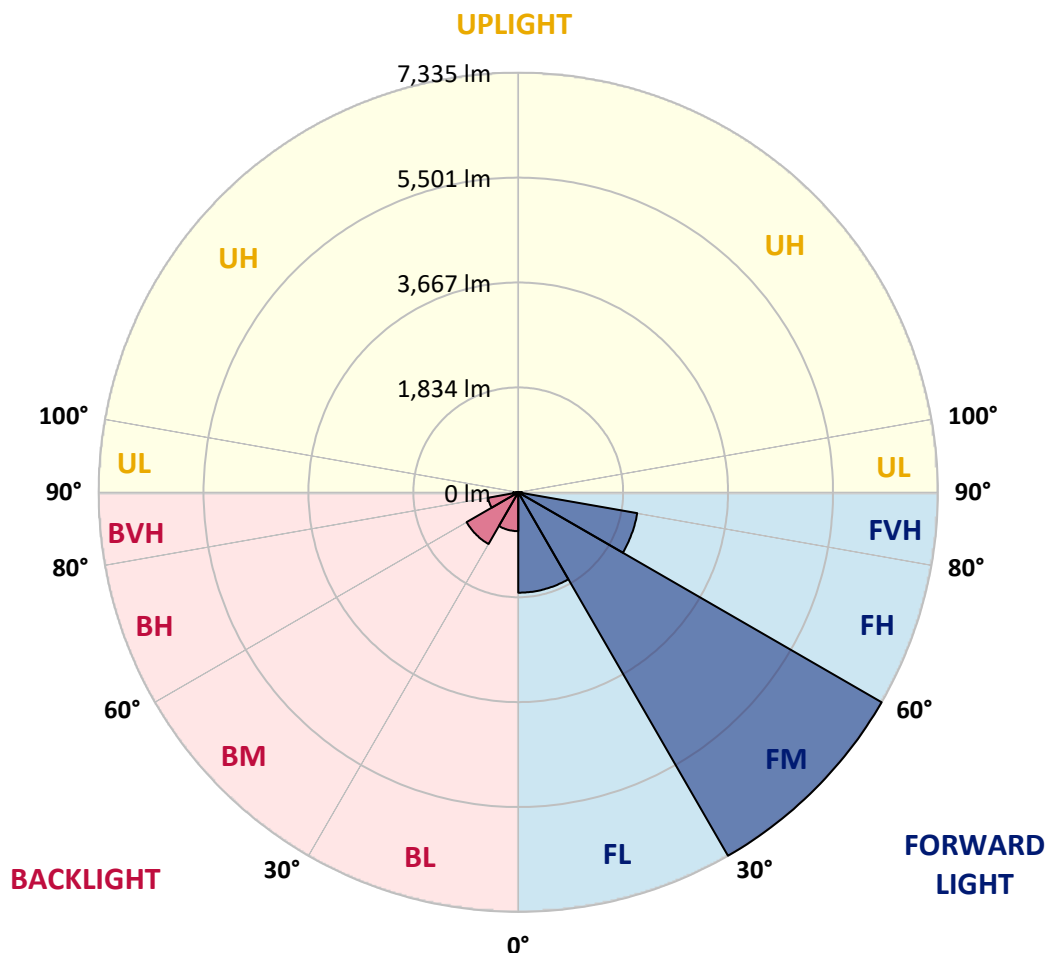
CATALOG NUMBER: GAN-SA2D-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.5	12.9			
FM	(30°-60°)	7334.8	53.9			
FH	(60°-80°)	2111.8	15.5			G2/5000
FVH	(80°-90°)	71.1	0.5			G1/100
BL	(0°-30°)	678.9	5.0	B2/1000		
BM	(30°-60°)	1042.1	7.7	B2/2500		
BH	(60°-80°)	536.4	3.9	B2/1000		G2/1000
BVH	(80°-90°)	90.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P320896

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9
2.5°	3468.9	3500.7	3486.7	3438.0	3400.5	3347.6	3288.7	3270.9	3208.6	3138.9	3055.1
5°	4017.9	4002.0	3979.1	3903.2	3823.2	3730.1	3582.1	3558.7	3420.2	3262.5	3095.8
7.5°	4330.6	4329.2	4315.6	4271.1	4198.1	4076.4	3898.1	3870.5	3661.2	3407.6	3149.2
10°	4285.2	4281.9	4304.4	4350.7	4372.7	4347.4	4197.2	4169.6	3912.6	3568.1	3211.0
12.5°	4027.3	4029.2	4065.2	4162.6	4295.0	4454.2	4429.8	4416.2	4173.3	3749.7	3285.9
15°	3826.5	3830.7	3859.2	3944.0	4100.3	4389.1	4571.2	4575.9	4425.6	3950.0	3373.4
17.5°	3738.5	3747.4	3760.5	3819.9	3963.2	4259.4	4604.9	4630.2	4646.5	4157.9	3457.6
20°	3766.6	3775.0	3778.7	3816.6	3934.1	4180.8	4581.5	4626.9	4816.0	4353.5	3541.9
22.5°	3892.5	3897.6	3900.0	3909.8	4001.1	4203.3	4566.0	4613.8	4938.6	4529.1	3605.5
25°	4101.2	4097.5	4082.5	4069.9	4131.2	4292.2	4601.6	4647.0	5038.3	4688.2	3647.2
27.5°	4351.2	4346.5	4317.5	4282.8	4318.0	4430.8	4704.1	4740.2	5127.7	4837.0	3668.3
30°	4651.2	4639.0	4584.3	4543.1	4556.7	4638.6	4873.1	4905.8	5265.8	5006.0	3688.9
32.5°	4998.1	4985.0	4905.8	4837.5	4837.5	4905.8	5047.2	5074.4	5382.8	5197.0	3722.1
35°	5432.4	5416.0	5313.1	5198.4	5166.1	5200.7	5284.5	5303.7	5593.4	5437.6	3782.5
37.5°	5944.5	5922.5	5789.1	5635.6	5564.9	5563.0	5623.4	5662.7	5930.0	5753.5	3885.0
40°	6458.0	6442.5	6326.0	6205.2	6066.7	6022.2	6115.3	6127.5	6370.0	6145.8	4016.0
42.5°	6854.9	6852.1	6830.6	6846.5	6704.6	6614.8	6687.8	6697.6	6907.3	6570.3	4155.5
45°	7064.6	7069.3	7173.7	7404.9	7457.3	7391.8	7427.8	7430.6	7521.4	6998.6	4283.3
47.5°	6896.6	6920.9	7184.9	7702.1	8131.3	8349.0	8289.1	8323.7	8116.8	7366.5	4383.5
50°	6241.7	6271.7	6721.0	7569.6	8445.9	9275.3	9243.9	9236.0	8597.1	7636.1	4437.8
52.5°	5430.6	5454.0	5824.7	6881.1	8215.1	9787.4	10075.2	10034.0	9023.9	7837.8	4448.1
55°	4195.3	4231.8	4587.1	5506.9	7281.8	9591.7	10686.5	10649.5	9412.9	7943.6	4435.9
57°	2982.5	3020.9	3373.9	4202.8	6125.6	8914.4	10747.4	10786.7	9623.1	7961.4	4449.5
57.5°	2661.5	2700.8	3050.4	3855.5	5765.2	8669.6	10694.9	10760.5	9661.0	7958.6	4457.0
60°	1340.1	1355.1	1577.9	2152.2	3644.4	7008.9	10011.1	10180.1	9695.1	7821.0	4489.3
62.5°	833.2	822.4	815.4	991.4	1773.1	4647.9	8599.9	8925.2	9041.3	7487.7	4411.1
65°	732.5	712.4	635.2	621.1	783.1	2257.5	6476.2	6881.1	7644.1	6962.6	4224.8
67.5°	688.1	668.4	581.3	528.9	529.4	895.0	4020.7	4476.6	5954.8	6074.6	3785.3
70°	642.2	624.4	543.0	481.2	450.8	495.7	1849.8	2195.7	3881.7	4774.8	3163.7
72.5°	583.2	571.0	493.8	430.2	397.9	371.2	708.2	836.4	2247.2	3206.8	2197.1
75°	521.4	510.2	444.2	383.3	344.0	292.1	398.8	429.7	1141.6	1640.6	1081.7
77.5°	453.6	447.0	395.1	338.9	307.5	242.0	282.2	297.2	489.6	703.5	542.5
80°	360.9	373.5	345.4	301.9	272.9	193.8	199.9	209.7	285.1	343.6	308.0
82.5°	235.0	257.0	270.5	245.3	224.7	152.6	143.7	147.9	185.8	209.7	133.9
85°	97.8	110.0	177.9	160.5	149.3	111.4	96.4	98.3	115.1	119.4	54.8
87.5°	43.5	46.3	78.2	73.5	63.2	38.4	41.2	44.9	61.3	58.0	21.1
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: P320896

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9	3020.9
2.5°	3023.7	2984.4	2917.0	2842.6	2781.7	2733.1	2683.9	2650.2	2610.9	2589.8	2579.1
5°	3026.1	2948.8	2807.0	2661.5	2531.3	2412.4	2299.2	2212.1	2130.7	2086.7	2074.5
7.5°	3035.9	2919.8	2690.5	2450.8	2219.6	2008.5	1845.6	1743.6	1670.1	1637.3	1627.9
10°	3043.9	2885.7	2546.3	2191.5	1877.0	1663.1	1536.7	1479.6	1454.3	1450.1	1445.9
12.5°	3062.6	2850.6	2394.6	1921.0	1610.6	1462.7	1418.7	1415.0	1422.0	1432.3	1432.3
15°	3092.1	2815.9	2221.5	1688.8	1441.2	1389.2	1398.1	1418.7	1437.9	1453.8	1456.2
17.5°	3113.6	2773.3	2035.2	1503.0	1350.9	1364.9	1396.7	1425.7	1445.4	1460.8	1462.3
20°	3129.1	2707.3	1836.2	1361.1	1298.9	1342.4	1382.2	1408.0	1421.5	1437.0	1439.3
22.5°	3121.1	2618.9	1659.8	1259.6	1256.8	1309.7	1347.6	1378.5	1368.2	1353.2	1363.0
25°	3082.7	2497.2	1478.2	1183.8	1212.3	1265.7	1312.5	1291.9	1257.2	1250.7	1254.4
27.5°	3014.4	2341.8	1310.1	1113.5	1160.8	1224.9	1222.1	1201.5	1189.4	1180.9	1186.1
30°	2940.9	2173.3	1163.2	1052.2	1103.7	1156.6	1145.8	1145.4	1133.2	1119.6	1126.2
32.5°	2868.3	2003.8	1046.6	1001.7	1060.6	1067.7	1091.1	1098.1	1074.2	1045.7	1043.8
35°	2805.1	1843.7	958.1	955.8	1008.7	1009.6	1043.8	1034.0	974.5	945.0	945.0
37.5°	2757.9	1684.1	890.7	914.6	940.4	964.7	982.0	941.3	931.5	915.1	914.6
40°	2737.3	1543.7	848.6	883.2	892.1	923.0	878.6	894.5	899.2	890.7	890.7
42.5°	2715.7	1421.5	812.1	859.4	858.0	853.8	831.3	851.9	870.6	871.1	869.7
45°	2694.2	1316.2	779.8	808.4	828.0	782.6	786.8	808.8	835.0	844.4	844.4
47.5°	2670.3	1232.9	750.3	754.5	785.0	754.5	751.3	768.1	799.0	814.0	817.3
50°	2617.9	1158.0	716.6	707.3	715.7	726.0	728.8	736.7	770.9	794.8	800.4
52.5°	2545.4	1091.1	673.6	663.7	663.7	702.6	715.7	718.0	747.0	775.6	781.2
55°	2485.0	1048.5	629.1	627.2	625.3	677.8	700.2	704.0	724.1	746.6	749.4
57°	2489.2	1045.2	594.9	596.8	596.3	652.5	685.7	693.7	704.0	723.2	726.4
57.5°	2491.5	1047.5	587.4	588.4	587.9	645.5	681.5	690.4	698.4	718.5	721.8
60°	2526.6	1053.6	557.0	546.7	549.0	608.0	657.6	668.9	674.0	700.7	704.9
62.5°	2474.7	1026.5	532.7	507.9	507.9	568.7	624.4	642.2	650.2	686.2	693.2
65°	2324.0	950.2	504.1	463.9	468.5	529.4	584.6	613.6	625.8	670.7	678.2
67.5°	2091.3	861.7	473.7	424.5	429.2	488.2	543.4	574.8	594.0	653.9	660.0
70°	1788.5	753.6	432.5	382.9	388.5	443.3	494.8	530.3	558.9	638.0	639.9
72.5°	1318.6	617.9	374.9	337.0	343.1	390.8	445.6	486.8	525.2	598.2	597.3
75°	784.0	483.0	311.3	290.7	294.9	339.4	401.1	451.2	508.8	582.7	591.6
77.5°	475.6	363.7	253.7	243.4	248.5	293.9	369.3	422.7	501.8	549.5	546.7
80°	287.4	259.8	202.7	196.1	201.3	251.4	341.7	401.1	438.6	469.5	469.5
82.5°	150.3	158.7	148.8	143.7	150.7	204.1	310.8	350.1	387.6	332.8	310.8
85°	61.3	82.8	90.3	89.9	94.1	141.4	268.2	299.6	249.9	237.3	242.9
87.5°	20.6	35.1	44.0	37.9	39.8	88.9	185.8	144.6	171.8	119.8	113.7
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)