

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: P323431

Luminaire Tested: **GAN-SA7A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23549 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

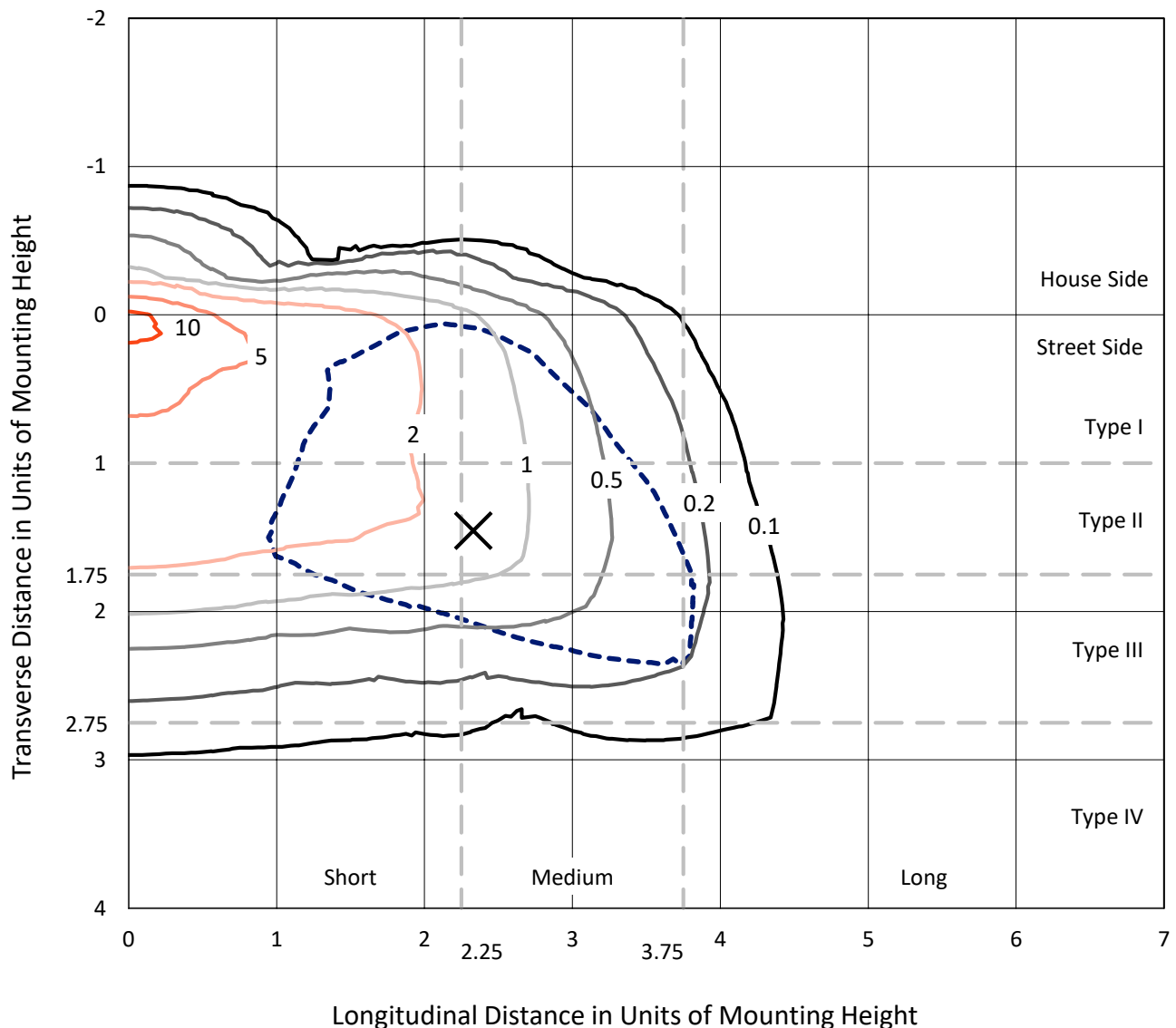
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323431
 CATALOG NUMBER: GAN-SA7A-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

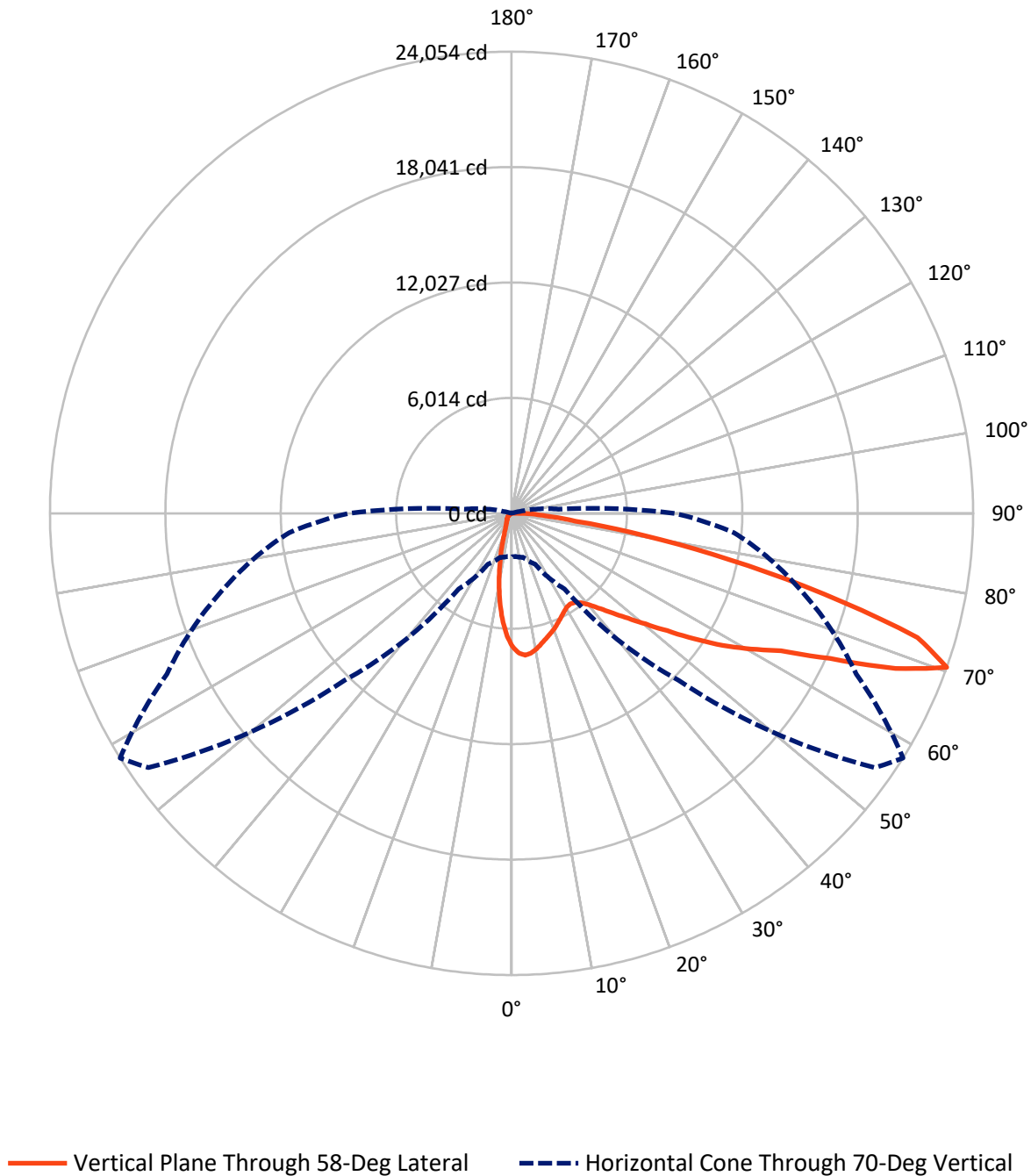
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P323431
CATALOG NUMBER: GAN-SA7A-727-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323431

CATALOG NUMBER: GAN-SA7A-727-U-SL3-HSS

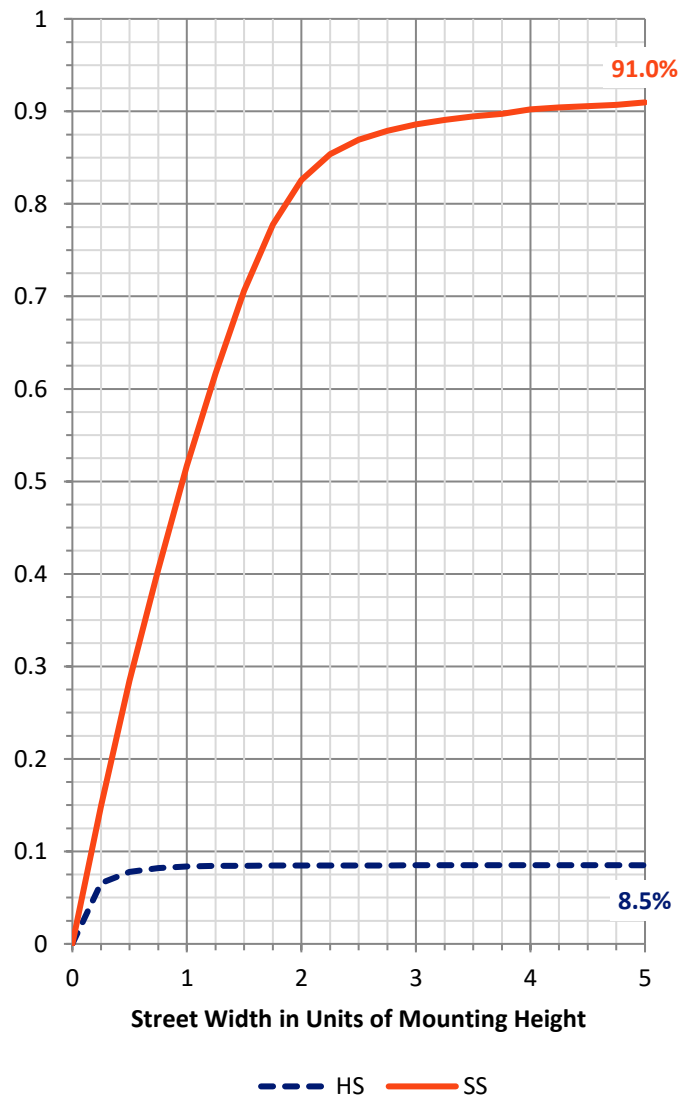
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2015.3	0.0	2015.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	21533.7	0.0	21533.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	23549.0	0.0	23549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.8	2.4
10°-20°	1193.9	5.1
20°-30°	1569.5	6.7
30°-40°	2078.7	8.8
40°-50°	3107.0	13.2
50°-60°	4977.2	21.1
60°-70°	6273.7	26.6
70°-80°	3384.0	14.4
80°-90°	396.1	1.7
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°	23549.0	100.0
0°-180°	23549.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323431

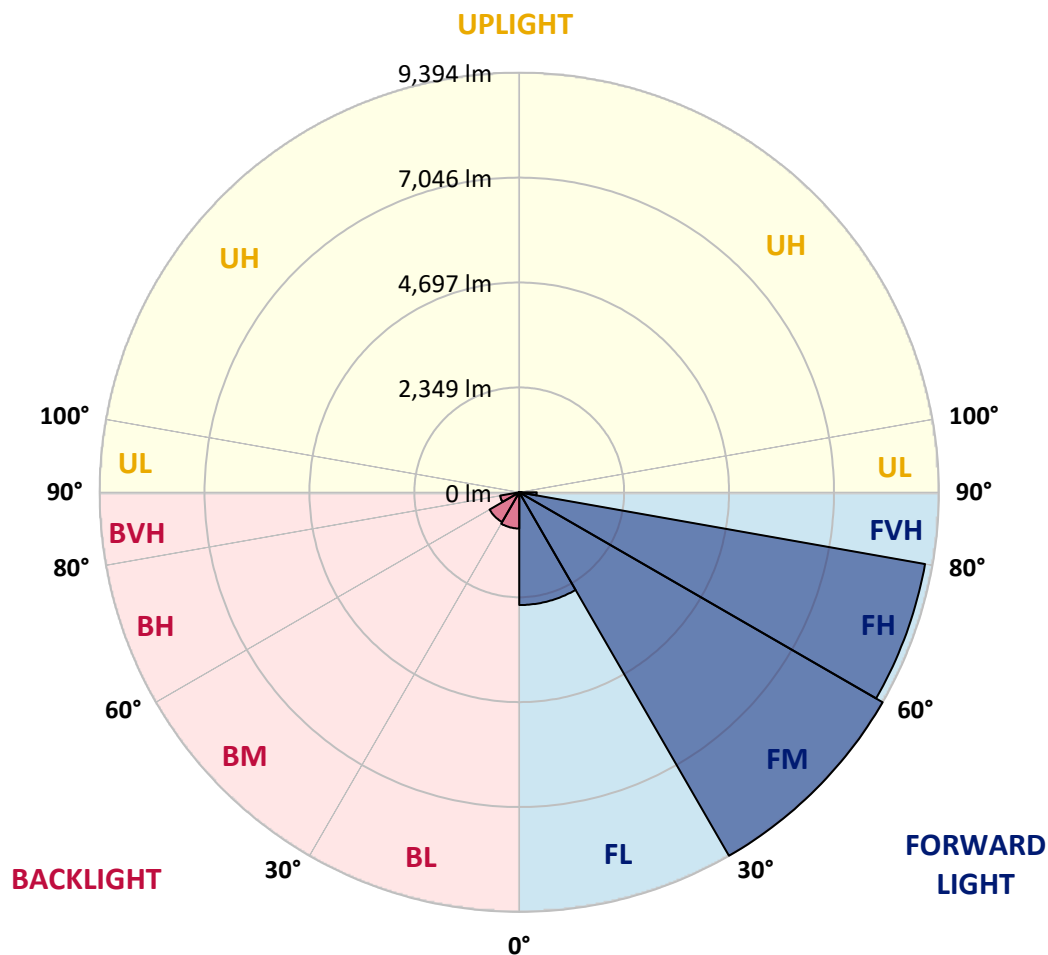
CATALOG NUMBER: GAN-SA7A-727-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2522.6	10.7			
FM	(30°-60°)	9394.1	39.9			
FH	(60°-80°)	9224.4	39.2			G4/12000
FVH	(80°-90°)	392.7	1.7			G3/500
BL	(0°-30°)	809.7	3.4	B2/1000		
BM	(30°-60°)	768.8	3.3	B1/1000		
BH	(60°-80°)	433.4	1.8	B1/500		G1/500
BVH	(80°-90°)	3.4	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 Medium



REPORT NUMBER: P323431

CATALOG NUMBER: GAN-SA7A-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3
2.5°	7533.0	7514.4	7507.6	7495.8	7450.8	7406.7	7319.5	7295.1	7240.2	7110.0	6971.9
5°	7538.9	7537.9	7558.5	7553.6	7537.9	7517.3	7454.7	7422.4	7329.3	7143.3	6890.7
7.5°	7175.6	7194.2	7240.2	7277.4	7320.5	7376.3	7384.2	7352.8	7276.5	7075.7	6740.8
10°	6688.0	6717.3	6782.0	6855.4	6968.0	7079.6	7179.5	7175.6	7149.2	6951.4	6560.7
12.5°	6199.3	6233.6	6308.0	6416.7	6576.3	6758.5	6936.7	6961.2	7005.2	6839.7	6394.2
15°	5771.4	5800.8	5874.2	6007.4	6205.2	6450.0	6711.5	6756.5	6870.1	6752.6	6255.2
17.5°	5408.1	5426.7	5480.6	5628.5	5857.6	6154.3	6494.1	6582.2	6751.6	6684.0	6134.7
20°	5154.5	5157.5	5192.7	5296.5	5525.6	5857.6	6268.9	6395.2	6626.3	6625.3	6010.4
22.5°	5029.2	5019.4	5026.3	5086.0	5254.4	5574.6	6043.6	6193.5	6513.7	6575.4	5884.0
25°	5005.7	4997.9	4978.3	4986.1	5087.9	5326.9	5816.5	5989.8	6414.8	6545.0	5774.4
27.5°	5079.1	5087.0	5053.7	5018.4	5026.3	5166.3	5614.8	5815.5	6334.5	6545.0	5697.0
30°	5227.0	5230.9	5206.4	5160.4	5098.7	5121.2	5474.7	5675.5	6294.3	6590.0	5648.0
32.5°	5390.5	5412.1	5409.1	5371.9	5283.8	5192.7	5441.4	5624.5	6291.4	6689.9	5643.2
35°	5593.2	5617.7	5658.8	5651.0	5558.9	5409.1	5555.0	5699.0	6349.2	6854.4	5696.0
37.5°	5808.6	5845.8	5934.0	5976.1	5916.3	5746.9	5809.6	5912.4	6503.9	7120.8	5830.2
40°	6017.2	6059.3	6219.9	6385.4	6340.3	6166.0	6195.4	6277.7	6779.0	7503.6	6084.8
42.5°	6221.9	6284.5	6520.5	6792.7	6846.6	6707.5	6723.2	6788.8	7187.4	8030.4	6500.9
45°	6466.7	6537.2	6886.7	7222.6	7366.5	7305.8	7372.4	7415.5	7721.0	8726.7	7062.0
47.5°	6826.0	6907.3	7336.2	7719.1	7971.7	8010.9	8145.0	8173.4	8395.7	9537.4	7793.5
50°	7527.1	7549.7	7937.4	8285.0	8649.3	8884.3	9037.1	9058.6	9212.3	10423.6	8707.1
52.5°	8409.4	8424.1	8643.4	8876.5	9290.7	9770.5	10127.9	10158.3	10190.6	11287.3	9608.9
55°	9285.8	9283.8	9428.8	9565.8	10039.8	10737.0	11512.5	11531.1	11299.0	12106.9	10298.3
57.5°	9833.2	9886.0	10106.4	10282.6	10944.6	11838.6	12914.7	12983.3	12463.3	12714.0	10979.8
60°	9658.9	9684.3	10172.9	10825.1	12071.6	13404.3	14333.6	14351.2	13338.7	13320.1	11841.5
62.5°	8229.2	8242.9	9010.6	10355.1	12642.5	15435.2	16045.2	15758.3	14345.3	14161.2	12872.6
65°	5640.2	5729.3	6370.7	8032.4	11593.8	16709.1	18695.0	18220.0	15879.7	15373.5	13804.8
67.5°	3321.5	3302.9	3620.1	4844.1	8515.2	15863.1	22046.8	21574.8	17972.3	16185.3	13531.6
70°	2268.8	2256.1	2377.5	2932.7	4806.9	12305.7	23101.4	24054.1	19820.1	15638.9	11645.7
72.5°	1619.6	1626.5	1805.7	2278.6	3017.9	7169.7	19866.1	22121.2	19241.4	13633.5	8852.0
75°	1099.6	1118.3	1374.8	1869.3	2645.8	3647.5	14097.6	16815.9	15668.2	9908.6	5087.9
77.5°	591.4	612.0	914.6	1506.0	2392.2	2534.2	9068.4	11573.2	9842.0	4454.4	1474.7
80°	246.8	258.5	427.9	1094.7	2067.1	2225.7	5335.7	7018.0	4193.9	878.3	329.0
82.5°	106.7	112.6	178.2	653.1	1545.2	1879.1	2825.0	3376.3	1271.0	192.9	165.5
85°	20.6	21.5	73.4	345.7	986.1	1060.5	1831.1	1794.9	570.9	83.2	120.4
87.5°	0.0	0.0	17.6	108.7	289.8	577.7	1117.3	1103.6	193.9	40.1	45.0
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: P323431

CATALOG NUMBER: GAN-SA7A-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3	6956.3
2.5°	6901.4	6833.9	6691.9	6516.6	6382.4	6234.6	6117.1	5968.2	5903.6	5906.6	5871.3
5°	6746.7	6607.7	6293.3	5896.8	5591.3	5275.9	5004.7	4734.4	4574.8	4522.9	4474.0
7.5°	6525.4	6305.1	5803.7	5192.7	4675.7	4170.4	3730.8	3344.0	3099.2	2979.7	2935.7
10°	6275.7	5966.3	5240.7	4435.8	3697.5	3014.0	2444.1	1948.6	1750.8	1616.7	1582.4
12.5°	6056.4	5637.3	4690.4	3659.3	2782.9	1958.4	1414.9	1106.5	972.3	919.5	910.7
15°	5849.8	5329.8	4160.6	2956.2	1927.1	1205.4	899.9	795.1	763.8	755.0	755.0
17.5°	5654.9	5037.0	3642.6	2263.9	1274.9	845.1	745.2	721.7	711.9	710.9	711.9
20°	5451.2	4744.2	3133.5	1658.8	890.1	715.8	688.4	675.7	672.7	672.7	672.7
22.5°	5256.4	4451.5	2638.0	1184.8	713.8	653.1	639.4	630.6	627.7	626.7	624.7
25°	5069.3	4173.4	2154.2	837.2	626.7	598.3	586.5	574.8	566.0	561.1	558.1
27.5°	4915.6	3925.6	1703.8	671.7	566.0	541.5	526.8	509.2	487.6	477.9	473.9
30°	4793.2	3699.4	1313.1	567.0	509.2	484.7	462.2	431.8	400.5	383.8	382.9
32.5°	4697.2	3477.2	996.8	501.4	458.3	427.9	395.6	357.4	321.2	302.6	301.6
35°	4650.2	3281.3	761.8	453.4	413.2	375.0	334.9	292.8	257.5	239.9	237.9
37.5°	4681.6	3115.8	594.4	413.2	375.0	331.0	284.0	239.9	208.6	192.9	191.9
40°	4796.1	3010.1	482.7	379.0	342.7	288.9	237.9	196.8	170.4	157.7	156.7
42.5°	5040.0	2970.9	412.2	350.6	311.4	249.7	197.8	162.5	138.1	129.3	127.3
45°	5447.3	3028.7	364.3	323.1	279.1	212.5	163.5	133.2	111.6	104.8	103.8
47.5°	5989.8	3180.5	330.0	296.7	249.7	179.2	136.1	107.7	91.1	84.2	83.2
50°	6688.9	3421.3	301.6	270.3	222.3	151.8	112.6	85.2	70.5	65.6	65.6
52.5°	7449.8	3708.2	276.1	245.8	194.9	126.3	91.1	65.6	55.8	49.9	49.9
55°	8078.4	3958.9	248.7	227.2	161.6	104.8	69.5	49.9	41.1	38.2	38.2
57.5°	8706.1	4226.2	217.4	194.9	129.3	85.2	52.9	37.2	30.4	28.4	28.4
60°	9519.8	4553.3	187.0	158.6	101.8	64.6	39.2	26.4	22.5	21.5	21.5
62.5°	10414.8	4745.2	159.6	127.3	79.3	48.0	28.4	17.6	16.6	16.6	15.7
65°	10962.2	4474.0	134.2	101.8	61.7	36.2	18.6	12.7	14.7	13.7	11.8
67.5°	10264.0	3502.6	109.7	79.3	48.0	27.4	11.8	8.8	15.7	12.7	9.8
70°	8498.5	2451.9	85.2	55.8	38.2	23.5	7.8	5.9	16.6	12.7	7.8
72.5°	6359.9	1641.1	67.6	37.2	28.4	20.6	6.9	2.9	14.7	10.8	6.9
75°	3475.2	661.0	53.9	23.5	17.6	14.7	4.9	2.0	9.8	7.8	4.9
77.5°	914.6	174.3	39.2	15.7	9.8	5.9	2.9	1.0	4.9	3.9	2.0
80°	233.1	67.6	25.5	10.8	6.9	2.9	0.0	0.0	1.0	0.0	0.0
82.5°	124.4	28.4	15.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	94.0	18.6	8.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.2	5.9	2.9	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)