

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: P321833

Luminaire Tested: **GAN-SA9A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24785 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 290
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



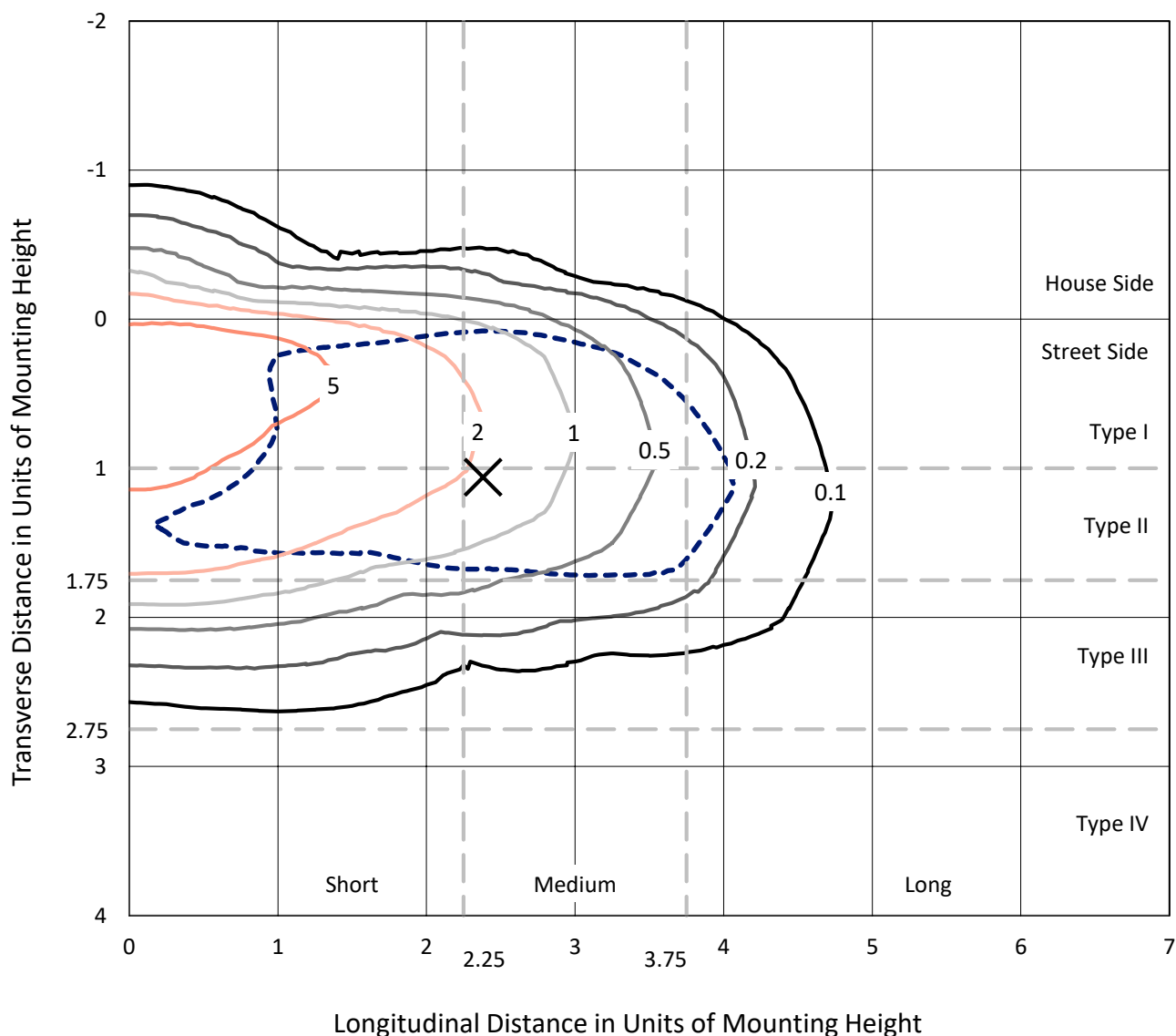
REPORT NUMBER: P321833

CATALOG NUMBER: GAN-SA9A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

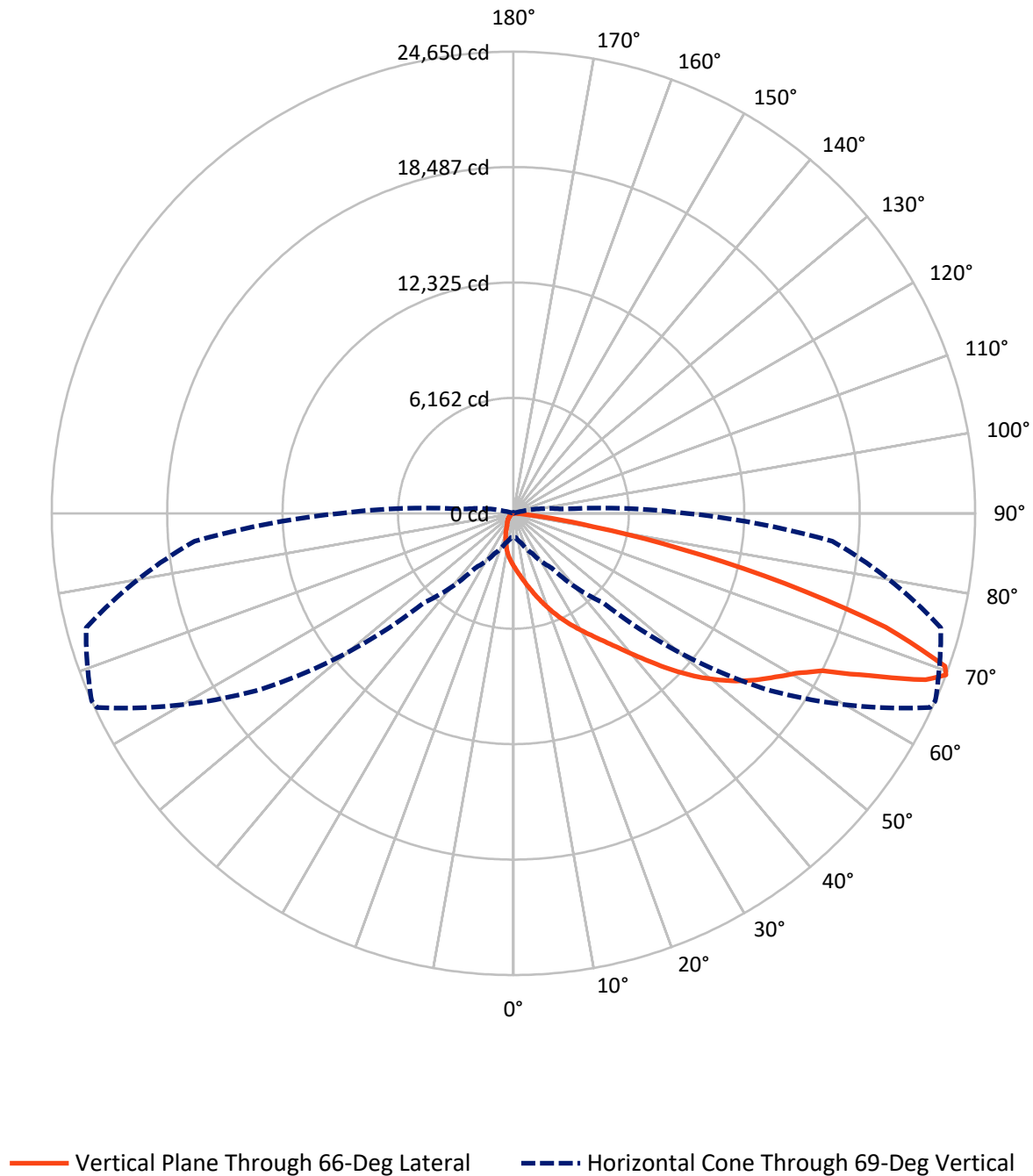
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P321833
CATALOG NUMBER: GAN-SA9A-727-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321833

CATALOG NUMBER: GAN-SA9A-727-U-T2-HSS

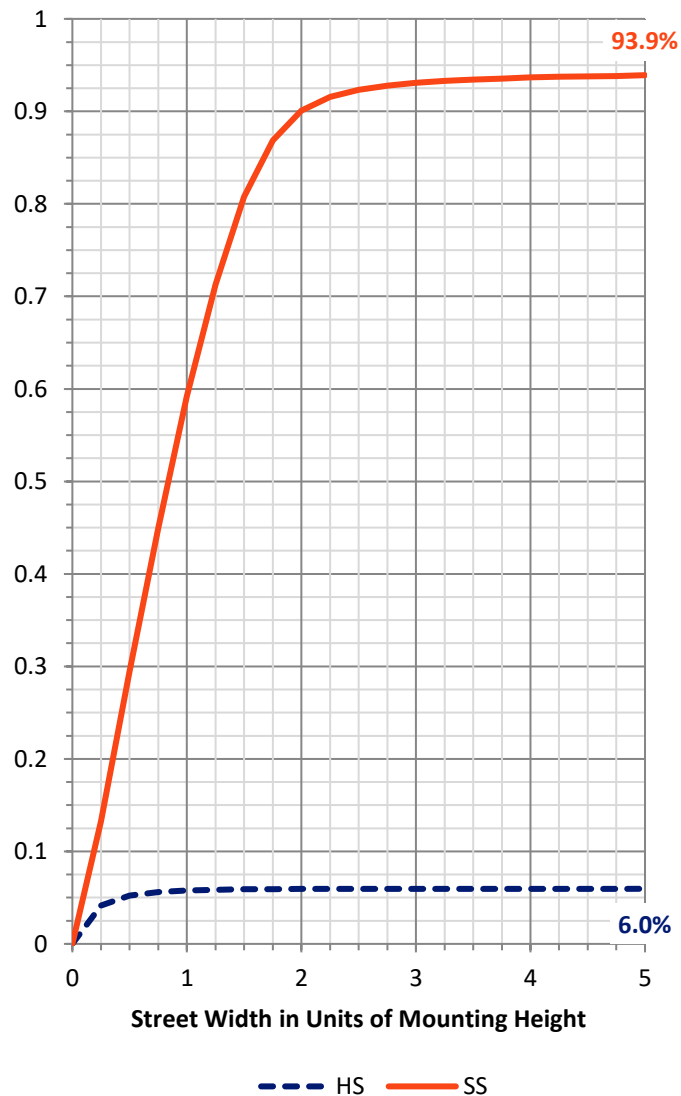
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.8	0.0	1486.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	23298.2	0.0	23298.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	24785.0	0.0	24785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.6	1.1
10°-20°	811.5	3.3
20°-30°	1413.0	5.7
30°-40°	2479.2	10.0
40°-50°	4149.8	16.7
50°-60°	6099.8	24.6
60°-70°	6262.9	25.3
70°-80°	3091.8	12.5
80°-90°	204.4	0.8
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°	24785.0	100.0
0°-180°	24785.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321833

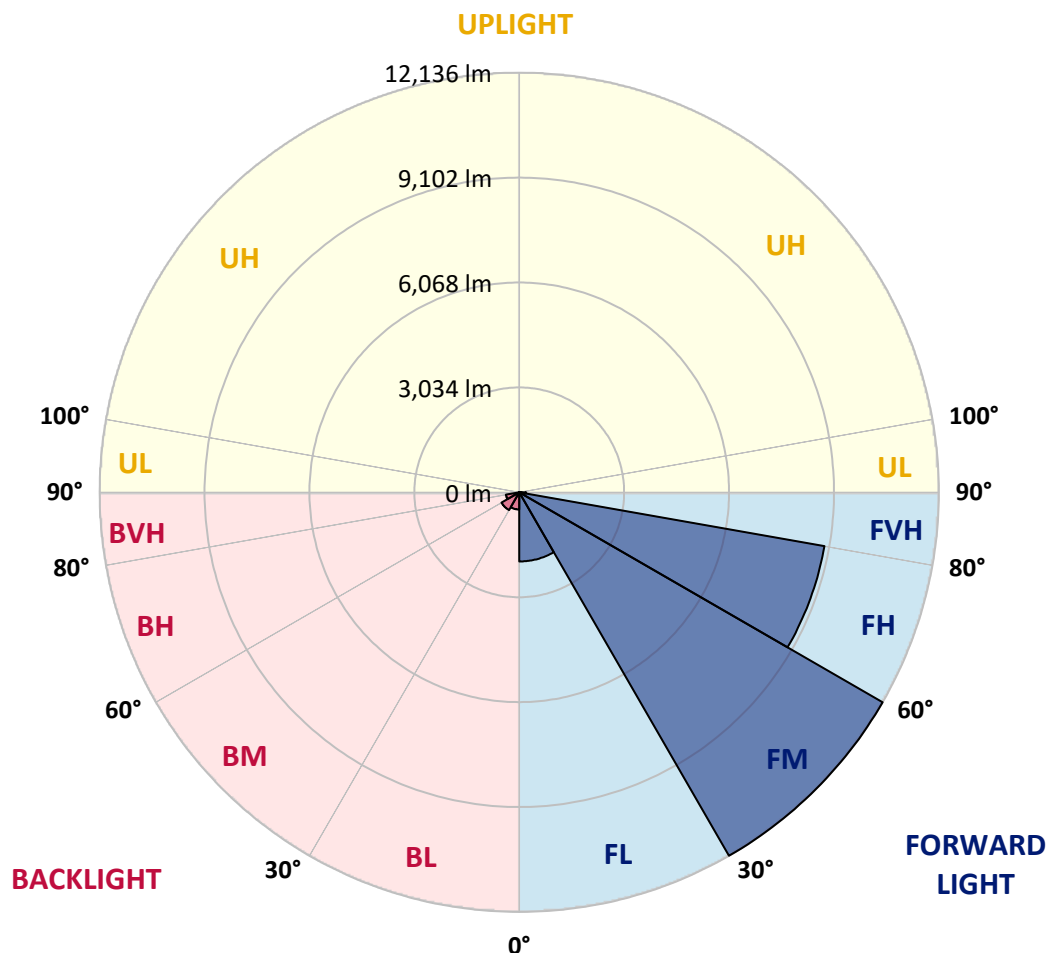
CATALOG NUMBER: GAN-SA9A-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1999.9	8.1			
FM	(30°-60°)	12135.9	49.0			
FH	(60°-80°)	8962.9	36.2			G4/12000
FVH	(80°-90°)	199.5	0.8			G2/225
BL	(0°-30°)	497.2	2.0	B1/500		
BM	(30°-60°)	592.8	2.4	B1/1000		
BH	(60°-80°)	391.8	1.6	B1/500		G1/500
BVH	(80°-90°)	4.9	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-G4

Type II Medium





REPORT NUMBER: P321833

CATALOG NUMBER: GAN-SA9A-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	3319.8	3305.6	3299.7	3273.8	3229.1	3195.0	3129.0	3052.5	3038.4	2964.2	2873.6
5°	3750.6	3738.8	3730.6	3694.1	3648.2	3562.3	3442.2	3299.7	3272.7	3131.4	2950.1
7.5°	4050.8	4072.0	4072.0	4048.5	3990.8	3926.0	3778.9	3584.6	3550.5	3333.9	3052.5
10°	4226.2	4252.1	4272.1	4292.1	4283.9	4258.0	4119.1	3900.1	3858.9	3571.7	3171.4
12.5°	4242.7	4268.6	4325.1	4408.7	4489.9	4548.8	4461.7	4249.8	4202.7	3847.1	3312.7
15°	4150.9	4177.9	4265.1	4427.5	4624.1	4796.0	4824.2	4637.1	4588.8	4175.6	3489.3
17.5°	3990.8	4008.4	4133.2	4358.1	4666.5	4982.0	5152.7	5052.6	5007.9	4551.1	3685.9
20°	3871.9	3884.8	3994.3	4235.6	4640.6	5098.5	5463.5	5494.1	5447.0	4953.7	3898.9
22.5°	4075.5	4099.1	4102.6	4216.8	4570.0	5156.2	5736.6	5928.5	5893.1	5381.1	4108.5
25°	4632.3	4659.4	4570.0	4499.3	4630.0	5182.1	5970.8	6373.5	6345.2	5841.4	4319.2
27.5°	5368.1	5396.4	5281.0	5070.3	4944.3	5279.8	6179.2	6825.5	6824.3	6328.7	4546.4
30°	6090.9	6119.2	6001.5	5790.7	5501.1	5556.5	6359.3	7298.7	7305.8	6831.4	4787.7
32.5°	6849.1	6884.4	6763.1	6492.4	6189.8	6034.4	6612.4	7774.3	7814.4	7414.1	5059.7
35°	7710.8	7715.5	7544.8	7261.1	6912.6	6673.6	7018.6	8307.6	8403.0	8135.7	5404.6
37.5°	8556.0	8590.2	8450.1	8002.7	7682.5	7411.8	7622.5	8973.9	9109.3	9017.5	5855.5
40°	9182.3	9254.1	9234.1	8751.4	8447.7	8254.6	8372.4	9766.2	9938.1	10044.0	6424.1
42.5°	9575.5	9629.6	9721.5	9430.7	9155.2	9187.0	9257.6	10689.1	10901.0	11214.2	7077.4
45°	10026.4	10052.3	10128.8	10000.5	9814.5	10134.7	10197.1	11728.6	11951.1	12472.6	7802.6
47.5°	10577.3	10638.5	10659.7	10542.0	10457.2	10972.8	11102.3	12673.9	12985.9	13820.5	8570.1
50°	11278.9	11295.4	11331.9	11255.4	11170.6	11693.3	11914.6	13666.3	13950.0	15173.2	9327.1
52.5°	11965.2	12024.1	12151.2	12103.0	12068.8	12306.6	12638.6	14561.0	14877.7	16300.9	10082.9
55°	12163.0	12213.6	12652.7	12952.9	13230.7	13062.4	13330.8	15362.7	15705.3	17308.6	10810.4
57.5°	11373.1	11475.5	12236.0	13017.7	14170.2	14237.3	14282.0	16185.6	16492.8	18080.9	11567.3
60°	9376.5	9396.5	10644.4	11985.2	14014.8	15262.6	15671.1	17069.7	17327.5	18800.2	12473.8
62.5°	5963.8	6167.4	7536.5	9429.5	12371.4	15114.3	17351.0	18407.0	18501.1	19663.1	13773.4
65°	2840.6	2972.5	3959.0	5826.0	8961.0	13215.4	18510.6	20826.2	20868.5	21373.6	15509.8
67.5°	1572.8	1636.3	2106.0	3136.1	5238.6	9345.9	18042.0	23691.5	23731.5	23120.5	17033.2
69°	1230.2	1284.3	1654.0	2363.9	3551.7	6717.2	16326.8	24530.9	24649.8	23620.9	17087.3
70°	1044.2	1097.2	1424.4	1996.6	2855.9	5190.4	14532.7	24322.5	24448.4	23573.8	16683.5
72.5°	639.2	669.8	948.8	1405.6	1914.2	2611.1	8962.2	20569.5	20782.6	21624.3	14338.5
75°	430.9	447.3	593.3	970.0	1369.1	1344.4	4655.9	14498.6	14960.1	16821.3	10590.2
77.5°	308.4	323.7	397.9	627.5	959.4	887.6	2108.4	9010.4	9109.3	10088.8	5775.4
80°	175.4	189.5	281.4	373.2	651.0	592.1	838.2	4303.9	4353.3	4326.3	1928.3
82.5°	91.8	103.6	154.2	246.0	417.9	387.3	348.5	1440.9	1448.0	1204.3	422.6
85°	17.7	21.2	76.5	168.3	215.4	168.3	142.4	337.9	344.9	304.9	104.8
87.5°	0.0	1.2	30.6	37.7	42.4	43.6	45.9	65.9	70.6	95.4	28.3
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: P321833

CATALOG NUMBER: GAN-SA9A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2833.6	2791.2	2710.0	2615.8	2542.8	2471.0	2414.5	2355.6	2334.4	2323.8	2322.6
5°	2861.8	2772.3	2600.5	2423.9	2279.1	2142.5	2044.8	1951.8	1908.3	1888.3	1880.0
7.5°	2908.9	2765.3	2488.6	2219.1	2010.7	1840.0	1704.6	1603.4	1552.7	1531.6	1523.3
10°	2964.2	2755.9	2358.0	2002.4	1736.4	1559.8	1425.6	1325.5	1270.2	1246.7	1234.9
12.5°	3029.0	2739.4	2207.3	1783.5	1502.1	1325.5	1163.1	1039.5	975.9	948.8	935.9
15°	3109.0	2722.9	2049.5	1577.5	1296.1	1080.7	902.9	819.3	806.4	801.7	802.9
17.5°	3187.9	2697.0	1877.7	1373.8	1079.5	844.1	753.4	748.7	751.1	751.1	751.1
20°	3258.5	2638.1	1690.5	1199.6	873.5	712.2	693.4	685.1	679.3	674.5	668.7
22.5°	3313.9	2559.3	1510.4	1026.5	713.4	652.2	622.7	596.8	575.7	561.5	554.5
25°	3351.5	2454.5	1345.6	860.5	641.6	593.3	540.3	496.8	463.8	443.8	435.6
27.5°	3379.8	2341.5	1198.4	720.5	592.1	525.0	455.6	403.8	369.6	352.0	344.9
30°	3399.8	2213.2	1068.9	633.3	536.8	453.2	379.1	328.4	303.7	294.3	289.6
32.5°	3418.6	2070.7	946.5	592.1	485.0	387.3	317.8	279.0	263.7	251.9	248.4
35°	3465.7	1938.9	829.9	548.6	432.0	330.8	273.1	244.9	229.6	222.5	220.1
37.5°	3577.6	1841.2	718.1	503.8	379.1	286.1	239.0	219.0	204.8	197.8	195.4
40°	3757.7	1791.7	623.9	455.6	327.3	251.9	216.6	197.8	182.5	171.9	169.5
42.5°	4022.6	1798.8	558.0	407.3	286.1	224.8	195.4	173.1	156.6	147.2	144.8
45°	4343.9	1850.6	512.1	360.2	251.9	203.7	171.9	148.3	133.0	124.8	122.4
47.5°	4692.4	1934.2	474.4	317.8	224.8	183.6	148.3	123.6	110.7	103.6	102.4
50°	5059.7	2015.4	435.6	276.6	201.3	163.6	124.8	102.4	91.8	85.9	83.6
52.5°	5431.7	2109.6	400.3	239.0	181.3	140.1	103.6	83.6	75.3	70.6	68.3
55°	5831.9	2180.2	366.1	209.5	161.3	118.9	85.9	69.5	62.4	56.5	55.3
57.5°	6302.8	2289.7	330.8	181.3	137.7	98.9	70.6	55.3	49.4	43.6	42.4
60°	6938.5	2418.0	293.1	160.1	113.0	81.2	57.7	44.7	37.7	33.0	31.8
62.5°	7776.7	2560.4	246.0	140.1	91.8	65.9	45.9	35.3	27.1	21.2	21.2
65°	8839.7	2792.4	201.3	117.7	75.3	54.2	35.3	25.9	15.3	9.4	9.4
67.5°	9460.1	2832.4	162.5	96.5	61.2	45.9	29.4	17.7	4.7	1.2	0.0
69°	9261.2	2600.5	137.7	82.4	53.0	43.6	27.1	12.9	2.4	0.0	0.0
70°	8886.8	2378.0	121.3	73.0	48.3	41.2	25.9	9.4	2.4	0.0	0.0
72.5°	7343.5	1692.8	91.8	54.2	35.3	36.5	23.5	5.9	2.4	0.0	0.0
75°	5349.3	1028.9	65.9	37.7	22.4	27.1	16.5	2.4	1.2	0.0	0.0
77.5°	2976.0	485.0	41.2	21.2	14.1	16.5	8.2	0.0	0.0	0.0	0.0
80°	966.5	131.8	18.8	11.8	8.2	9.4	3.5	0.0	0.0	0.0	0.0
82.5°	178.9	37.7	10.6	5.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	38.8	15.3	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	4.7	1.2	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)