

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: P317681

Luminaire Tested: **GAN-SA7B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34562 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

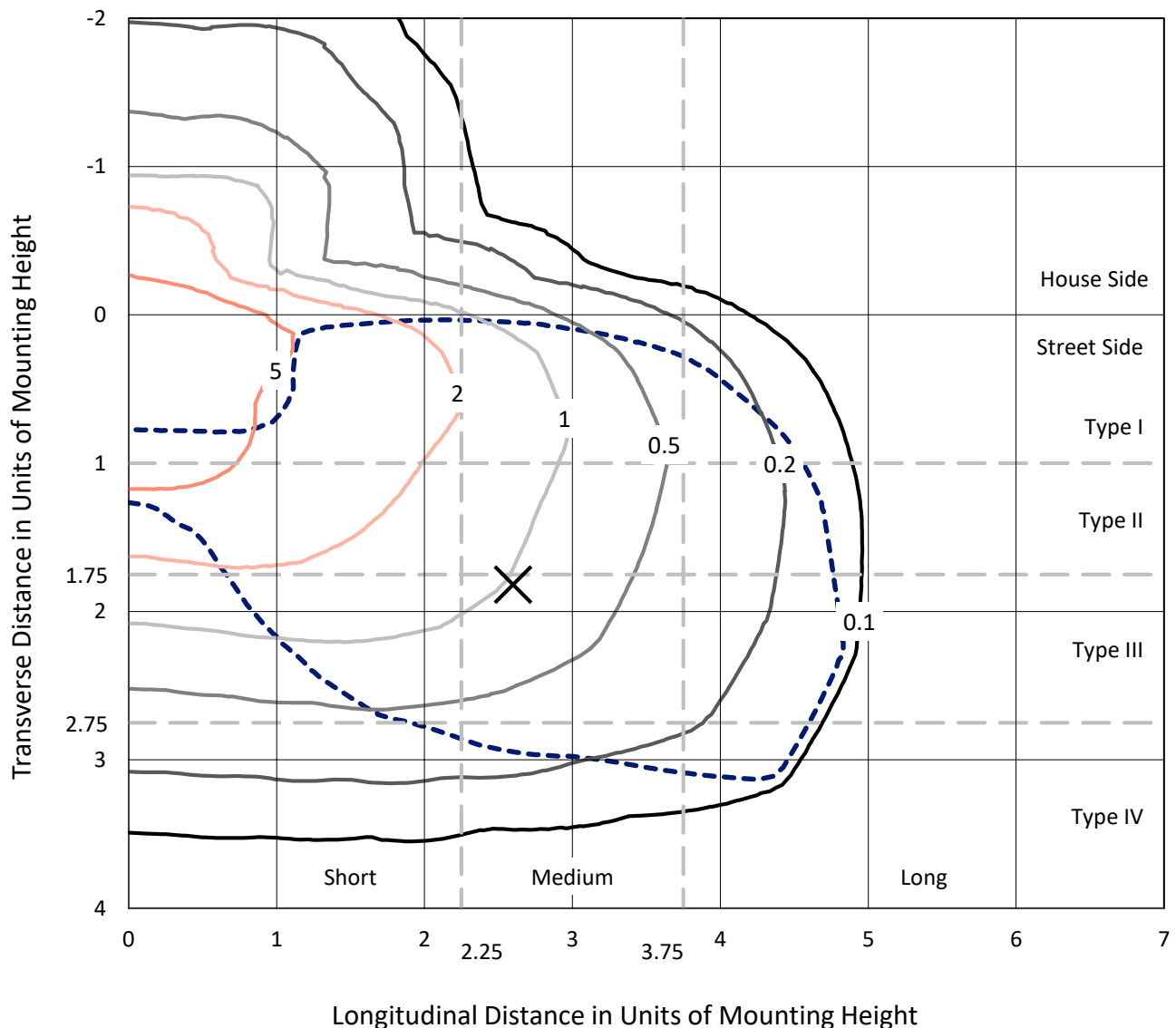
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317681
 CATALOG NUMBER: GAN-SA7B-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

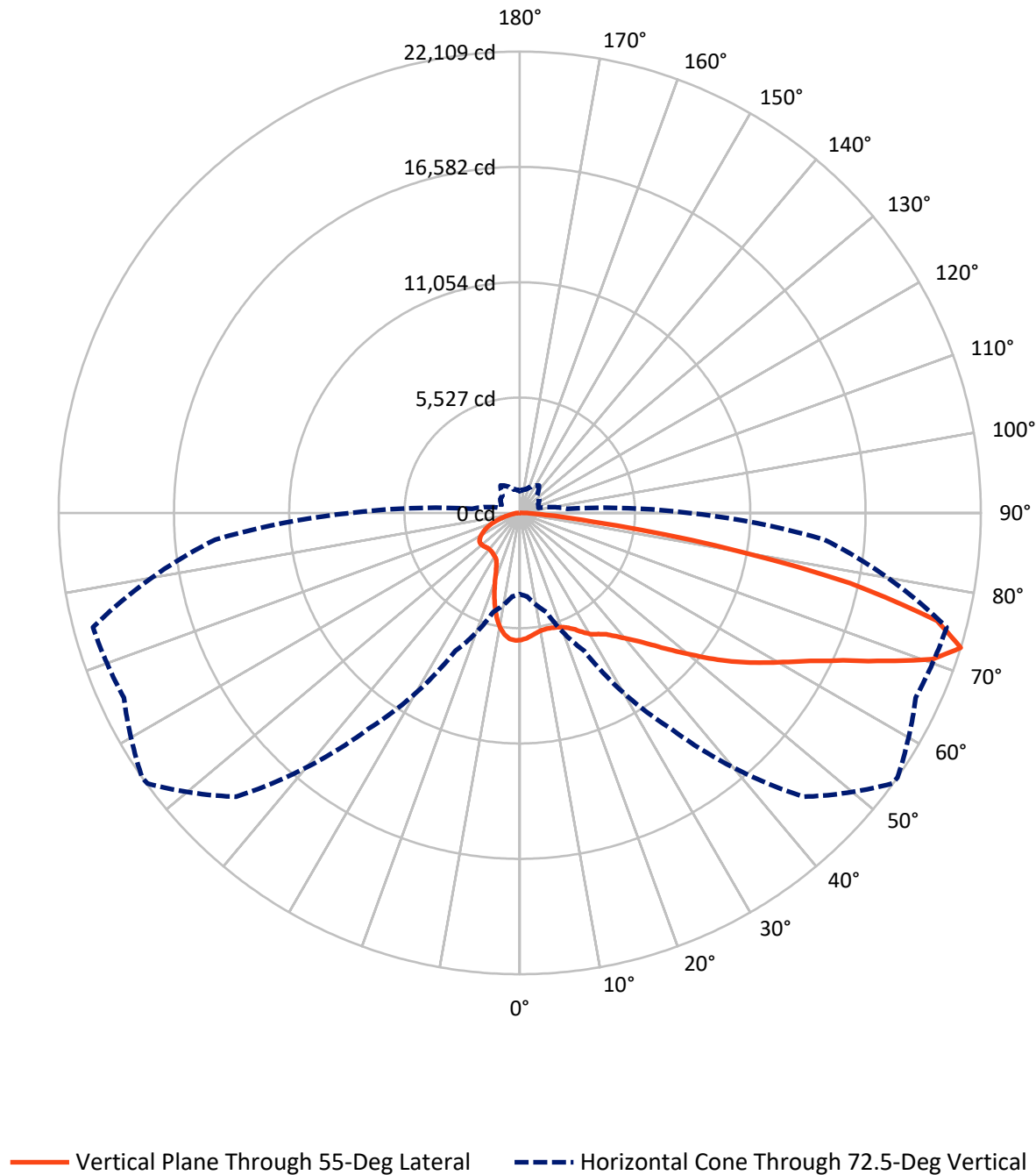
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317681
CATALOG NUMBER: GAN-SA7B-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317681

CATALOG NUMBER: GAN-SA7B-727-U-T3R

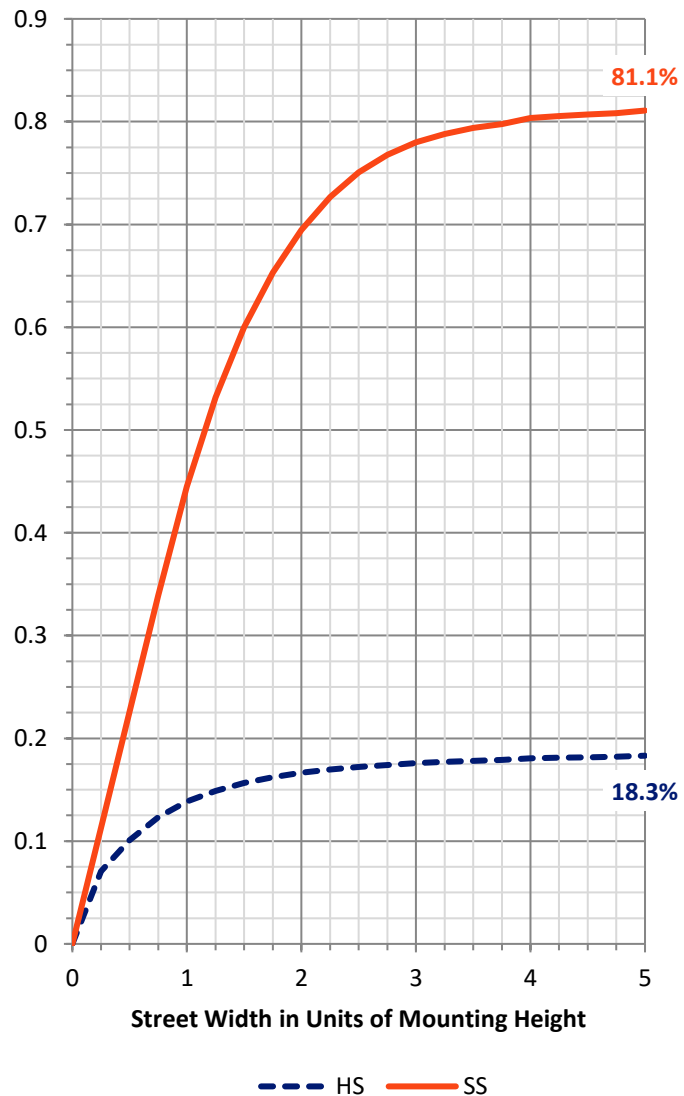
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6424.0	0.0	6424.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28138.1	0.0	28138.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	34562.0	0.0	34562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.6	1.6
10°-20°	1468.6	4.2
20°-30°	2421.4	7.0
30°-40°	3581.8	10.4
40°-50°	4999.4	14.5
50°-60°	6509.4	18.8
60°-70°	7999.9	23.1
70°-80°	6271.0	18.1
80°-90°	758.9	2.2
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°	34562.0	100.0
0°-180°	34562.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317681

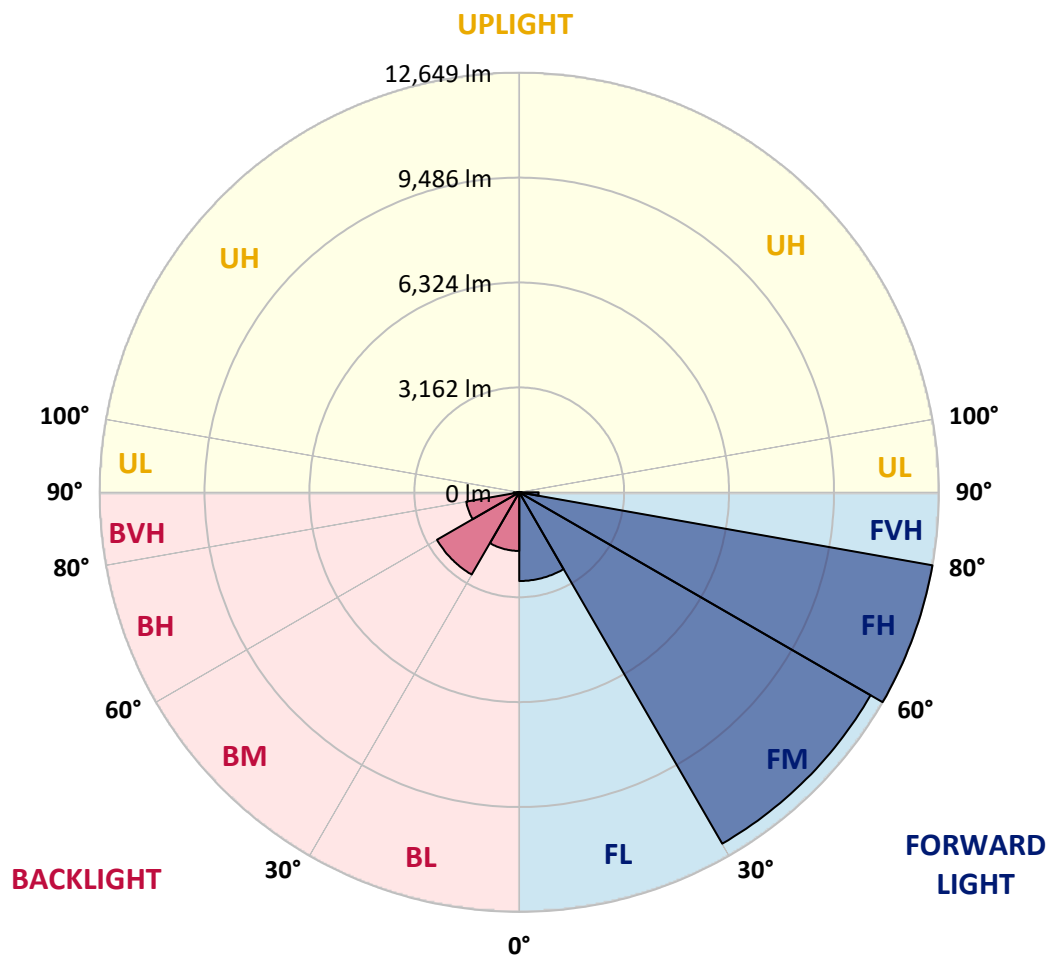
CATALOG NUMBER: GAN-SA7B-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2674.1	7.7			
FM	(30°-60°)	12228.7	35.4			
FH	(60°-80°)	12648.5	36.6			G5
FVH	(80°-90°)	586.7	1.7			G4/750
BL	(0°-30°)	1767.5	5.1	B3/2500		
BM	(30°-60°)	2862.0	8.3	B3/5000		
BH	(60°-80°)	1622.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	172.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P317681

CATALOG NUMBER: GAN-SA7B-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0
2.5°	5897.5	5883.5	5901.0	5925.6	5952.4	5988.6	6009.6	6018.9	6055.1	6069.1	6099.5
5°	5624.4	5617.4	5646.6	5688.6	5748.1	5832.2	5899.9	5912.7	6008.4	6076.1	6138.0
7.5°	5425.9	5425.9	5459.8	5510.0	5576.5	5689.7	5785.5	5803.0	5965.2	6111.2	6225.6
10°	5268.3	5274.2	5313.9	5373.4	5451.6	5571.8	5699.1	5718.9	5953.6	6192.9	6375.0
12.5°	5163.3	5177.3	5213.5	5267.2	5364.1	5510.0	5671.1	5697.9	5978.1	6309.6	6554.8
15°	5229.8	5253.2	5256.7	5278.8	5332.5	5491.3	5687.4	5715.4	6030.6	6428.7	6759.1
17.5°	5521.6	5529.8	5493.6	5446.9	5421.3	5522.8	5736.4	5765.6	6093.7	6546.6	6955.2
20°	5965.2	5960.6	5882.4	5756.3	5625.5	5641.9	5817.0	5847.3	6178.9	6650.5	7151.3
22.5°	6525.6	6509.2	6389.0	6156.7	5933.7	5840.3	5958.2	5983.9	6307.3	6798.7	7361.4
25°	7205.0	7168.8	7010.0	6698.4	6370.3	6129.8	6170.7	6195.2	6494.1	6964.5	7554.0
27.5°	7921.8	7885.6	7683.6	7306.6	6870.0	6495.2	6463.7	6484.7	6706.5	7087.1	7696.5
30°	8671.2	8632.7	8448.2	8025.7	7399.9	6873.5	6736.9	6745.0	6855.9	7153.6	7813.2
32.5°	9424.2	9388.0	9181.3	8691.1	7975.5	7279.7	6934.2	6923.7	6945.8	7222.5	7945.1
35°	10187.6	10201.6	9960.0	9417.2	8612.8	7731.5	7167.6	7145.5	7096.4	7363.8	8131.9
37.5°	11004.8	10995.4	10682.6	10115.2	9279.4	8221.8	7502.7	7499.2	7329.9	7631.1	8424.9
40°	11551.1	11556.9	11366.7	10829.7	9953.0	8764.6	7932.3	7924.1	7702.3	8031.5	8809.0
42.5°	11764.7	11803.3	11852.3	11511.4	10658.1	9393.8	8444.7	8433.1	8221.8	8605.8	9260.7
45°	11779.9	11857.0	12160.5	12117.3	11372.5	10114.1	9099.6	9066.9	8915.2	9369.3	9800.1
47.5°	11649.2	11728.5	12232.8	12478.0	12011.0	10874.0	9865.4	9839.7	9709.0	10324.2	10383.7
50°	11363.2	11439.0	12083.4	12654.3	12536.4	11604.8	10748.0	10680.2	10610.2	11427.4	11051.5
52.5°	10827.3	10973.3	11883.8	12696.3	12850.4	12253.9	11676.0	11631.6	11670.2	12591.2	11720.4
55°	9558.4	9721.8	11369.0	12661.3	13082.7	12799.0	12604.1	12601.7	12801.4	13812.3	12438.3
57.5°	8847.5	8963.0	10320.7	12601.7	13358.2	13340.7	13522.8	13545.0	13933.7	15141.9	13190.1
60°	8445.9	8567.3	9789.5	12381.1	13785.4	14041.1	14460.2	14504.5	15084.7	16614.0	14094.8
62.5°	8080.5	8213.6	9460.3	11931.7	14288.6	15042.7	15583.2	15622.9	16303.5	18126.9	14969.2
65°	7456.0	7606.6	8978.2	11636.3	14746.2	16349.0	17010.9	17037.7	17703.1	19712.2	15638.1
67.5°	6573.4	6711.2	8068.8	10983.8	15084.7	17935.4	18909.0	18924.2	19091.1	20831.7	15980.1
70°	5542.7	5595.2	6773.1	9636.6	14684.3	19419.2	20989.3	20992.8	20356.6	21548.4	15924.1
72.5°	3894.3	4018.1	4917.0	7294.9	12619.2	19238.2	22069.1	22108.8	20944.9	21186.6	14651.6
75°	2388.4	2519.2	3084.2	4420.8	8005.8	15130.3	20390.4	20665.9	19841.7	18890.3	11969.0
77.5°	1597.0	1646.0	2012.5	2577.5	3627.0	8705.1	15676.6	16194.9	16483.2	13776.1	7654.4
80°	890.7	984.1	1334.3	1601.6	1613.3	3458.9	9399.6	9521.0	9170.8	5485.5	2361.6
82.5°	471.6	523.0	890.7	940.9	880.2	1158.0	3503.3	3506.8	2930.1	1470.9	701.6
85°	365.4	408.6	610.5	574.3	449.4	513.6	1155.7	1218.7	996.9	602.4	228.8
87.5°	182.1	226.5	414.4	364.2	176.3	147.1	413.2	441.3	393.4	235.8	82.9
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: P317681

CATALOG NUMBER: GAN-SA7B-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0	6096.0
2.5°	6111.2	6121.7	6134.5	6120.5	6115.8	6097.2	6065.6	6058.6	6042.3	6043.5	6052.8
5°	6164.9	6182.4	6175.4	6121.7	6057.5	5967.6	5874.2	5794.8	5742.3	5738.8	5735.3
7.5°	6267.6	6279.3	6224.4	6071.5	5891.7	5683.9	5487.8	5316.2	5212.3	5186.6	5180.8
10°	6428.7	6426.4	6275.8	5967.6	5609.2	5238.0	4922.8	4684.6	4545.7	4504.9	4494.4
12.5°	6608.5	6581.6	6293.3	5778.5	5210.0	4695.2	4295.9	4030.9	3886.2	3839.5	3827.8
15°	6794.1	6727.5	6250.1	5496.0	4719.7	4110.3	3691.2	3446.1	3367.9	3342.2	3337.5
17.5°	6966.8	6838.4	6126.3	5113.1	4160.5	3527.8	3200.9	3102.9	3121.5	3155.4	3156.6
20°	7136.1	6913.2	5927.9	4629.8	3571.0	3048.0	2937.1	3009.5	3098.2	3167.1	3176.4
22.5°	7303.1	6965.7	5672.2	4071.8	3043.3	2778.3	2856.5	2988.5	3090.0	3164.7	3177.6
25°	7443.1	6978.5	5319.7	3476.4	2676.8	2676.8	2818.0	2942.9	3043.3	3116.9	3129.7
27.5°	7494.5	6892.1	4822.4	2925.4	2492.3	2630.1	2764.3	2868.2	2953.4	3031.7	3045.7
30°	7514.3	6732.2	4248.1	2483.0	2416.5	2579.9	2691.9	2780.7	2861.2	2934.8	2947.6
32.5°	7517.8	6539.6	3638.7	2232.0	2363.9	2527.4	2602.1	2680.3	2766.7	2795.8	2800.5
35°	7540.0	6312.0	2996.6	2103.6	2314.9	2478.3	2537.9	2593.9	2453.8	2464.3	2473.7
37.5°	7604.2	6086.7	2459.6	2031.2	2283.4	2452.6	2523.8	2320.7	2211.0	2185.3	2181.8
40°	7724.5	5846.2	2061.6	1972.9	2271.7	2465.5	2434.0	2166.6	1977.5	1836.3	1815.3
42.5°	7891.4	5587.0	1807.1	1934.3	2279.9	2527.4	2309.1	2018.4	1704.4	1613.3	1601.6
45°	8079.4	5315.0	1669.3	1907.5	2307.9	2575.2	2283.4	1821.1	1577.1	1508.2	1502.4
47.5°	8261.5	4982.3	1598.1	1895.8	2346.4	2536.7	2174.8	1760.4	1516.4	1480.2	1483.7
50°	8470.4	4682.3	1554.9	1883.0	2380.3	2512.2	2052.2	1728.9	1493.1	1537.4	1584.1
52.5°	8646.7	4371.8	1516.4	1857.3	2393.1	2469.0	2020.7	1734.7	1493.1	1578.3	1622.6
55°	8855.6	4137.2	1472.1	1803.6	2368.6	2346.4	1998.5	1769.7	1510.6	1456.9	1461.5
57.5°	9125.3	4060.1	1423.0	1719.5	2286.9	2167.8	1988.0	1803.6	1500.1	1466.2	1477.9
60°	9498.9	4141.8	1403.2	1609.8	2159.6	2027.7	1989.2	1786.1	1426.5	1368.2	1369.3
62.5°	9854.9	4232.9	1402.0	1540.9	2003.2	1902.8	1962.3	1728.9	1389.2	1355.3	1368.2
65°	9971.7	4140.7	1346.0	1463.9	1826.9	1753.4	1913.3	1668.2	1361.2	1309.8	1307.5
67.5°	9815.2	3854.6	1232.7	1339.0	1625.0	1579.4	1849.1	1595.8	1316.8	1274.8	1267.8
70°	9350.6	3216.1	1092.7	1174.4	1395.0	1383.3	1747.5	1511.7	1257.3	1221.1	1190.7
72.5°	8100.4	2291.5	921.1	977.1	1135.8	1173.2	1607.5	1402.0	1173.2	1095.0	1048.3
75°	6652.8	1696.2	756.5	768.1	862.7	964.2	1414.8	1273.6	1074.0	940.9	904.7
77.5°	4074.1	1037.8	602.4	607.0	618.7	769.3	1165.0	1130.0	947.9	784.5	758.8
80°	1319.1	566.2	435.4	457.6	422.6	563.8	901.2	961.9	813.7	656.1	628.0
82.5°	502.0	330.4	294.2	309.4	293.0	378.2	657.2	770.5	666.6	539.3	438.9
85°	242.8	186.8	173.9	195.0	180.9	193.8	420.3	567.3	505.5	351.4	326.9
87.5°	86.4	82.9	66.5	89.9	77.0	68.9	128.4	286.0	333.9	241.6	216.0
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)