

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: P317351

Luminaire Tested: **GAN-SA7A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28719 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

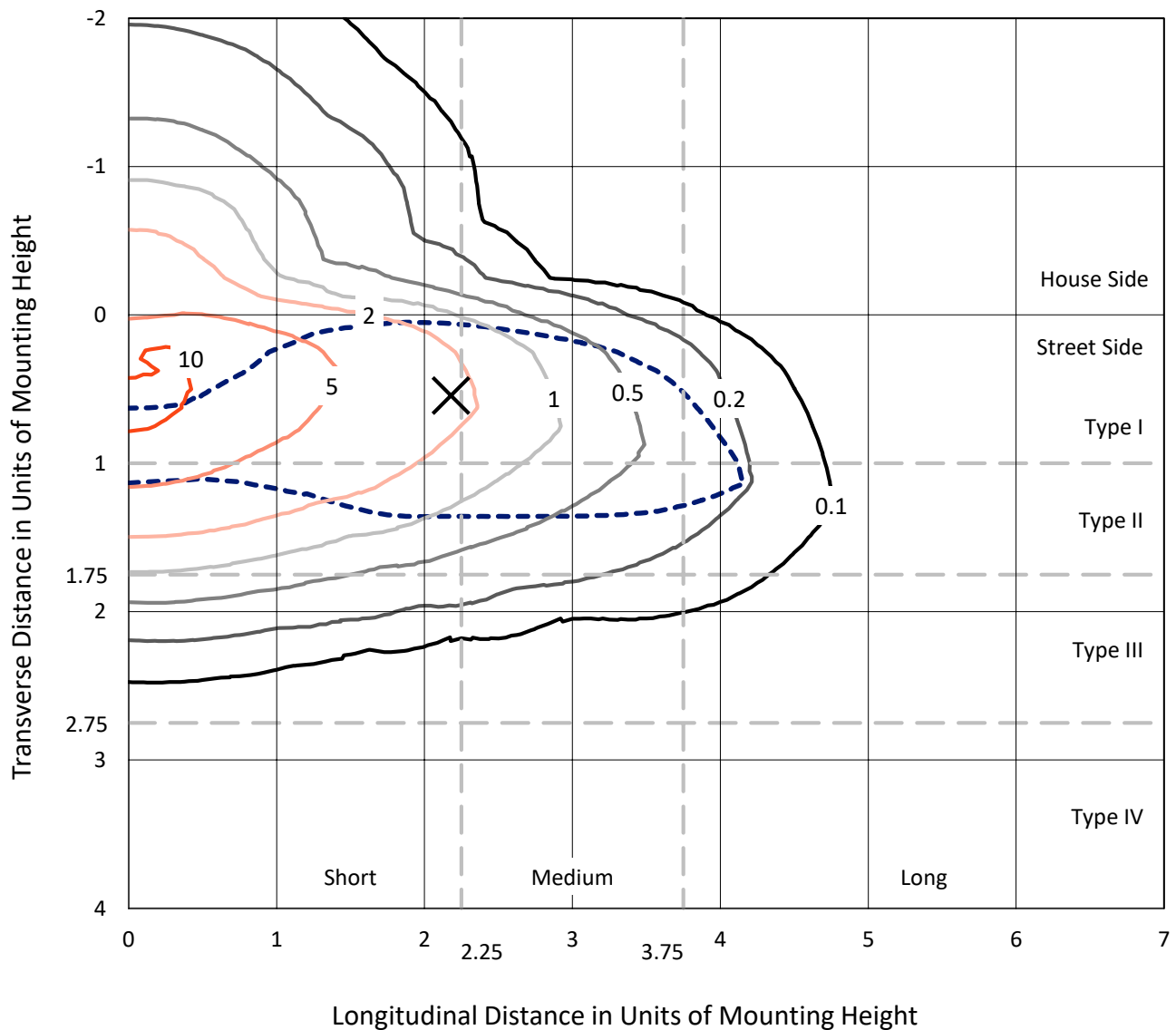
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317351
 CATALOG NUMBER: GAN-SA7A-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

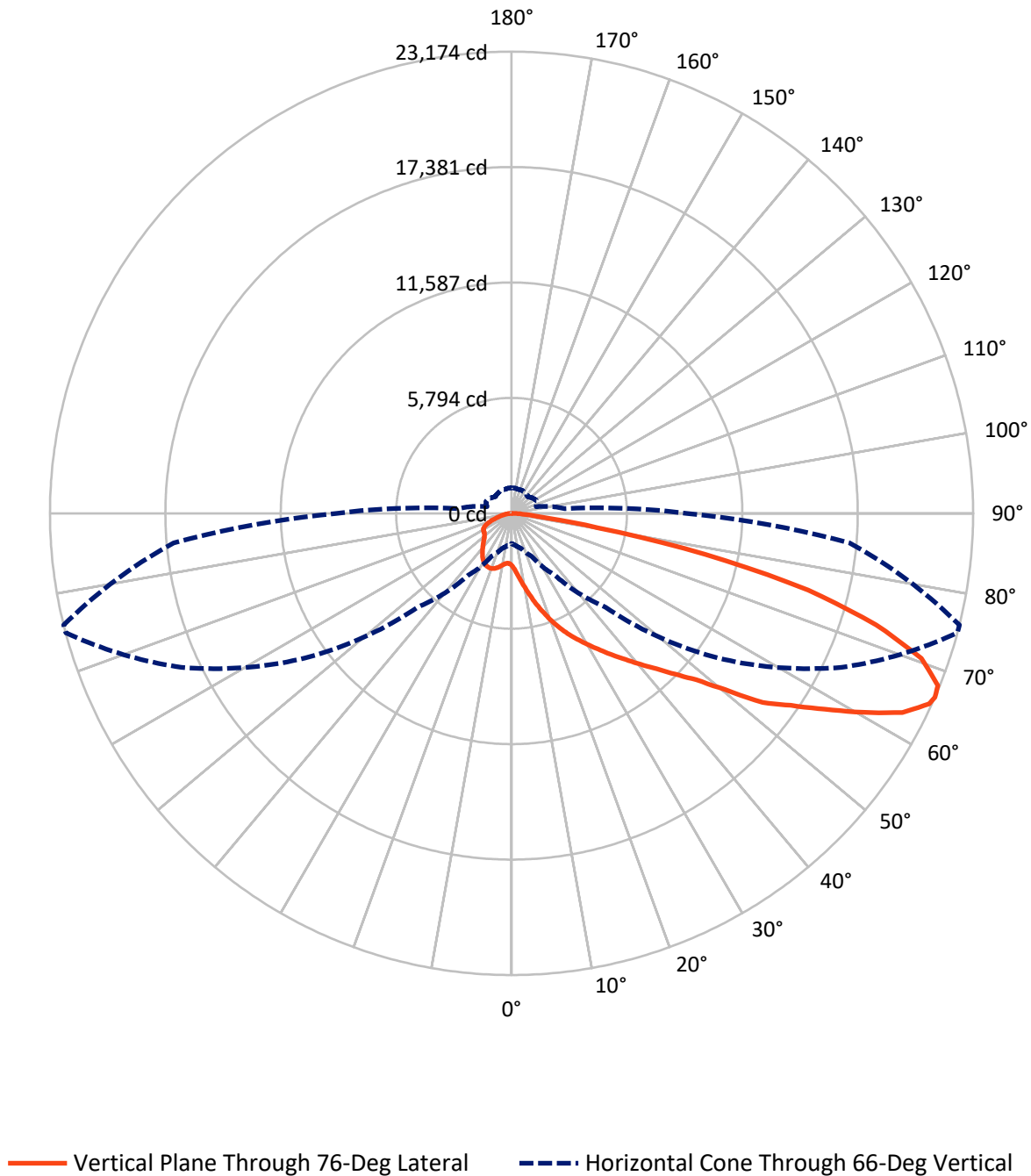
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P317351
CATALOG NUMBER: GAN-SA7A-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317351

CATALOG NUMBER: GAN-SA7A-727-U-T2R

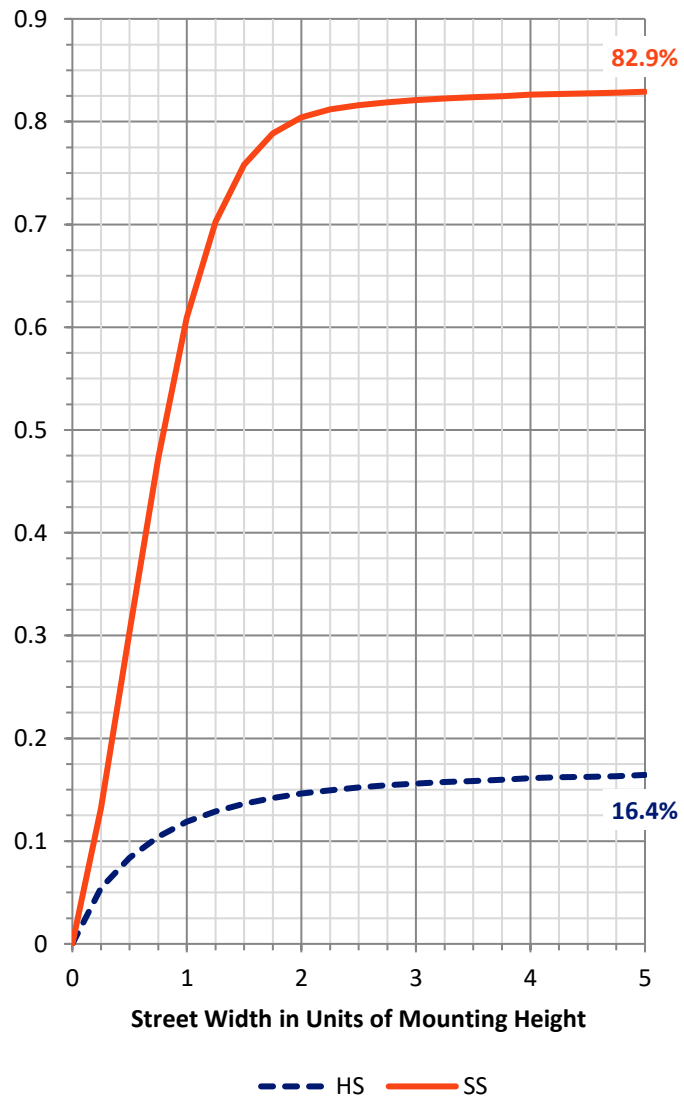
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4832.4	0.0	4832.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23886.6	0.0	23886.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	28719.0	0.0	28719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.1
10°-20°	1252.4	4.4
20°-30°	2433.8	8.5
30°-40°	3972.4	13.8
40°-50°	5427.3	18.9
50°-60°	6321.7	22.0
60°-70°	5667.5	19.7
70°-80°	2864.1	10.0
80°-90°	462.5	1.6
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°	28719.0	100.0
0°-180°	28719.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317351

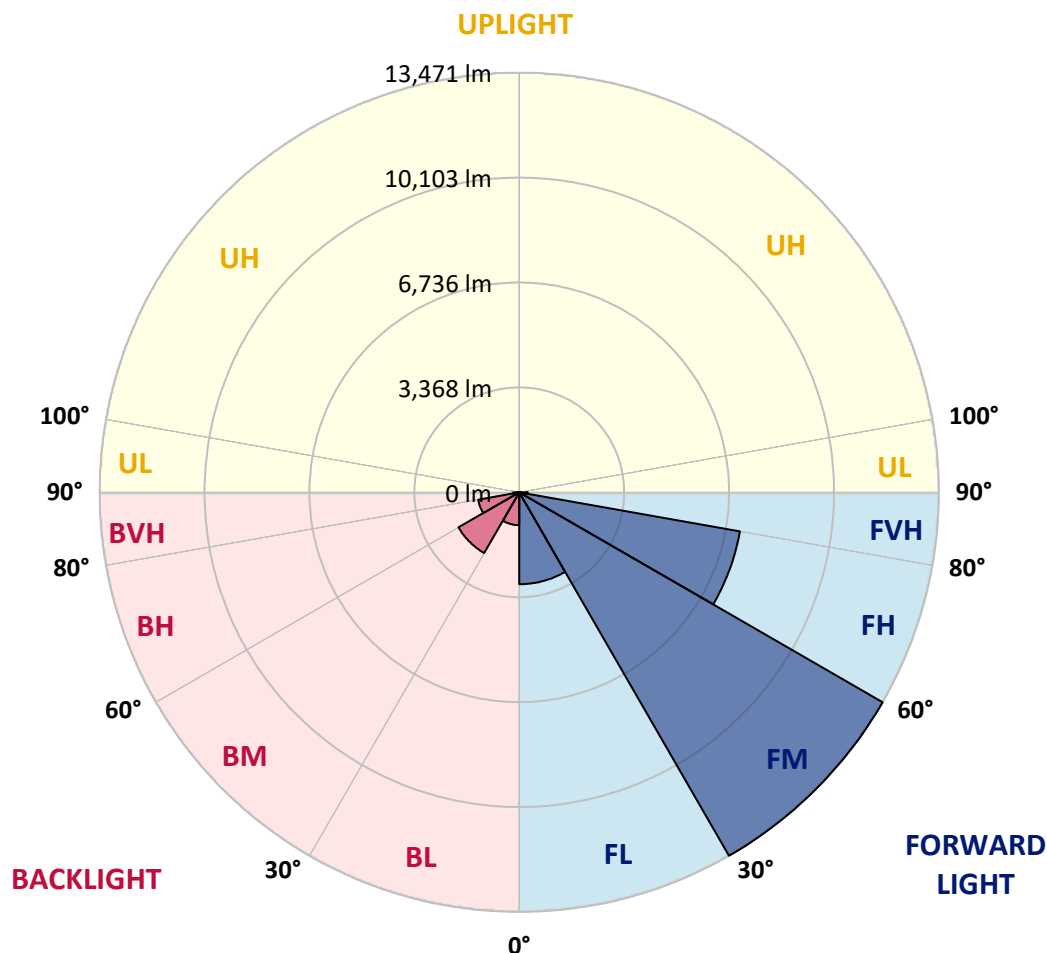
CATALOG NUMBER: GAN-SA7A-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2949.4	10.3			
FM	(30°-60°)	13471.2	46.9			
FH	(60°-80°)	7192.9	25.0			G3/7500
FVH	(80°-90°)	273.1	1.0			G3/500
BL	(0°-30°)	1054.0	3.7	B3/2500		
BM	(30°-60°)	2250.3	7.8	B2/2500		
BH	(60°-80°)	1338.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	189.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P317351

CATALOG NUMBER: GAN-SA7A-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7
2.5°	3481.6	3429.0	3424.1	3347.1	3329.6	3182.3	3074.1	2961.0	2832.3	2807.0	2705.6
5°	4472.2	4467.4	4400.1	4274.3	4175.8	3924.3	3675.7	3412.4	3123.8	3077.0	2848.9
7.5°	5363.4	5355.6	5303.9	5168.4	5026.0	4716.9	4362.1	3958.4	3490.4	3421.2	3042.9
10°	6040.0	6037.1	6019.5	5920.1	5799.2	5502.8	5110.8	4560.0	3916.5	3821.9	3285.7
12.5°	6562.6	6568.4	6580.1	6545.0	6487.5	6235.0	5833.3	5197.6	4370.8	4277.2	3555.7
15°	6916.5	6934.0	6994.5	7044.2	7074.4	6919.4	6530.4	5849.9	4879.8	4767.6	3855.1
17.5°	7094.9	7114.4	7218.7	7368.9	7507.3	7491.7	7182.7	6471.9	5368.2	5260.0	4176.8
20°	7249.0	7263.6	7380.6	7561.0	7805.7	7913.9	7740.4	7070.5	5903.5	5774.8	4518.1
22.5°	7695.5	7714.0	7749.1	7851.5	8067.9	8266.8	8183.0	7637.0	6393.9	6274.0	4841.7
25°	8557.4	8579.8	8503.8	8417.0	8457.9	8596.4	8612.0	8153.7	6891.1	6755.6	5189.8
27.5°	9595.7	9627.9	9498.2	9275.0	9080.0	9026.4	9007.8	8576.9	7366.0	7209.0	5534.0
30°	10612.6	10668.2	10499.5	10210.0	9852.2	9600.6	9414.4	8991.3	7834.0	7683.8	5858.6
32.5°	11606.1	11583.7	11339.0	11056.3	10637.0	10322.1	9871.7	9435.8	8360.4	8187.9	6181.4
35°	12286.7	12294.5	12067.3	11731.9	11332.2	11090.4	10483.9	9915.5	8897.7	8738.7	6548.0
37.5°	12865.8	12829.7	12572.3	12259.4	11915.2	11811.9	11200.6	10444.0	9479.7	9306.2	6937.9
40°	13058.9	13016.9	12848.3	12623.0	12347.1	12338.4	11991.3	11042.6	10137.8	9966.2	7377.7
42.5°	12941.9	12888.2	12819.0	12757.6	12672.8	12711.8	12734.2	11744.6	10861.3	10669.2	7886.6
45°	12510.0	12429.0	12477.8	12611.3	12795.6	13016.0	13405.0	12521.7	11671.5	11510.6	8484.3
47.5°	11846.0	11772.9	11925.0	12210.6	12711.8	13269.5	14039.7	13379.6	12638.6	12478.8	9335.4
50°	10912.0	10933.4	11150.8	11670.5	12428.1	13386.5	14821.6	14515.5	14044.6	13895.4	10496.6
52.5°	9379.3	9383.2	9995.5	10848.6	11925.0	13326.0	15255.5	15967.2	15964.3	15783.9	11602.2
55°	7955.8	8042.6	8527.2	9661.1	11109.9	13084.2	15558.7	16673.1	17224.9	17013.4	12632.8
57.5°	6565.5	6616.2	7075.4	8214.2	9946.7	12439.8	15869.7	17520.4	18677.7	18544.1	13913.9
60°	4984.1	5062.1	5536.9	6588.9	8458.9	11296.1	15899.0	18404.7	20414.1	20279.6	15344.2
62.5°	3235.0	3369.5	3814.1	4799.8	6659.1	9651.3	15220.4	18982.8	22059.9	22012.1	16613.6
65°	1859.3	1960.7	2269.8	3030.2	4594.1	7586.3	13606.8	18760.5	23072.9	23045.6	17088.4
66°	1519.0	1582.4	1819.3	2368.2	3790.7	6662.0	12668.9	18291.6	23173.3	23174.3	17033.9
67.5°	1214.8	1243.1	1349.4	1695.5	2797.2	5280.5	10992.9	17257.1	23048.5	23082.6	16681.9
70°	1005.2	1019.8	1053.0	1136.8	1526.8	3184.3	7802.8	14569.1	21795.6	21822.0	15308.1
72.5°	901.9	910.6	923.3	935.0	1077.4	1779.3	4765.7	11654.9	19109.6	19143.7	13214.9
75°	817.0	821.9	820.0	820.9	903.8	1133.9	2462.8	8701.7	15451.5	15383.2	10123.2
77.5°	717.6	722.5	712.7	714.7	799.5	871.6	1225.5	6091.7	10427.4	9945.8	5703.6
80°	606.4	610.3	606.4	613.3	696.1	658.1	712.7	3427.0	4610.7	4361.1	2028.0
82.5°	458.2	474.8	486.5	513.8	573.3	468.0	476.8	1334.7	1404.0	1336.7	622.0
85°	200.8	244.7	366.6	392.9	430.9	280.8	313.0	544.0	571.3	553.8	226.2
87.5°	52.6	57.5	181.3	228.1	238.9	126.7	162.8	247.6	261.3	247.6	75.1
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: P317351

CATALOG NUMBER: GAN-SA7A-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7
2.5°	2651.9	2604.2	2518.4	2442.3	2384.8	2345.8	2306.8	2287.3	2275.6	2263.9	2265.9
5°	2736.8	2640.2	2493.0	2388.7	2330.2	2293.1	2273.7	2265.9	2261.0	2249.3	2249.3
7.5°	2864.5	2728.0	2525.2	2417.9	2372.1	2343.8	2332.1	2328.2	2322.4	2308.7	2310.7
10°	3025.4	2834.3	2592.5	2488.1	2446.2	2415.0	2398.4	2392.6	2381.9	2366.3	2368.2
12.5°	3214.5	2965.9	2681.2	2572.0	2521.3	2479.4	2452.1	2435.5	2417.0	2396.5	2397.5
15°	3421.2	3109.2	2776.7	2647.1	2577.8	2519.3	2475.5	2447.2	2417.9	2392.6	2391.6
17.5°	3630.8	3247.7	2849.9	2688.0	2594.4	2517.4	2457.9	2414.0	2378.0	2346.8	2343.8
20°	3857.0	3372.5	2890.8	2684.1	2563.2	2471.6	2392.6	2338.0	2298.0	2266.8	2262.0
22.5°	4087.1	3489.4	2897.6	2644.1	2494.0	2381.9	2299.0	2238.6	2197.6	2165.4	2153.7
25°	4297.7	3580.1	2869.4	2567.1	2397.5	2276.6	2195.7	2134.2	2101.1	2063.1	2051.4
27.5°	4489.8	3643.5	2812.8	2468.6	2289.2	2170.3	2094.3	2041.6	2005.5	1976.3	1966.5
30°	4662.3	3677.6	2720.2	2351.6	2178.1	2069.9	2005.5	1969.5	1938.3	1901.2	1894.4
32.5°	4826.1	3677.6	2601.2	2223.9	2067.9	1981.2	1943.1	1920.7	1885.6	1849.5	1839.8
35°	4989.9	3655.2	2460.8	2090.4	1966.5	1917.8	1915.8	1889.5	1835.9	1787.1	1774.5
37.5°	5162.5	3609.4	2302.9	1965.6	1883.7	1889.5	1906.1	1847.6	1771.5	1702.3	1683.8
40°	5357.5	3546.0	2139.1	1857.3	1814.4	1876.8	1879.8	1787.1	1638.9	1575.6	1559.0
42.5°	5586.6	3482.6	1987.0	1761.8	1759.8	1838.8	1830.0	1656.5	1567.8	1535.6	1526.8
45°	5887.9	3446.5	1842.7	1671.1	1716.9	1777.4	1745.2	1584.3	1547.3	1528.8	1521.0
47.5°	6362.7	3465.1	1710.1	1599.0	1674.0	1716.0	1587.3	1555.1	1528.8	1506.3	1498.5
50°	6957.4	3454.3	1602.9	1549.2	1625.3	1651.6	1516.1	1517.1	1503.4	1478.1	1466.4
52.5°	7405.0	3370.5	1533.6	1521.0	1582.4	1537.5	1471.2	1480.0	1473.2	1436.1	1423.5
55°	7836.9	3298.4	1498.5	1510.2	1551.2	1395.2	1418.6	1440.0	1433.2	1397.1	1391.3
57.5°	8374.1	3284.7	1477.1	1513.2	1524.9	1324.0	1367.9	1396.2	1391.3	1375.7	1372.8
60°	9032.2	3288.6	1457.6	1518.0	1495.6	1271.4	1320.1	1356.2	1359.1	1356.2	1354.2
62.5°	9393.9	3182.3	1408.8	1504.4	1443.9	1225.5	1270.4	1323.0	1324.0	1329.9	1328.9
65°	9086.8	2864.5	1318.2	1456.6	1357.2	1187.5	1227.5	1285.0	1270.4	1296.7	1296.7
66°	8788.5	2681.2	1273.3	1425.4	1320.1	1172.9	1213.8	1265.5	1247.0	1283.1	1283.1
67.5°	8179.1	2372.1	1192.4	1359.1	1267.5	1152.4	1198.2	1233.3	1208.0	1261.6	1257.7
70°	7065.7	1834.9	1029.6	1209.0	1180.7	1122.2	1176.8	1169.0	1132.0	1213.8	1198.2
72.5°	5957.1	1394.2	826.8	1012.0	1049.1	1084.2	1146.6	1087.1	1040.3	1097.8	1063.7
75°	4622.4	1048.1	653.2	786.8	886.3	1024.7	1110.5	992.5	925.3	919.4	900.9
77.5°	2498.9	719.5	517.7	600.6	703.9	950.6	1086.1	891.1	789.7	766.3	751.7
80°	989.6	468.0	376.3	455.3	492.4	843.4	1027.6	773.2	651.3	627.9	605.5
82.5°	408.5	276.9	242.8	305.2	320.8	721.5	922.3	633.7	503.1	696.1	739.0
85°	175.5	152.1	144.3	157.9	181.3	506.0	734.2	483.6	543.1	484.6	385.1
87.5°	52.6	64.3	61.4	60.4	66.3	120.9	391.0	269.1	398.8	151.1	113.1
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)