

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: P322467

Luminaire Tested: **GAN-SA3A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8449 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

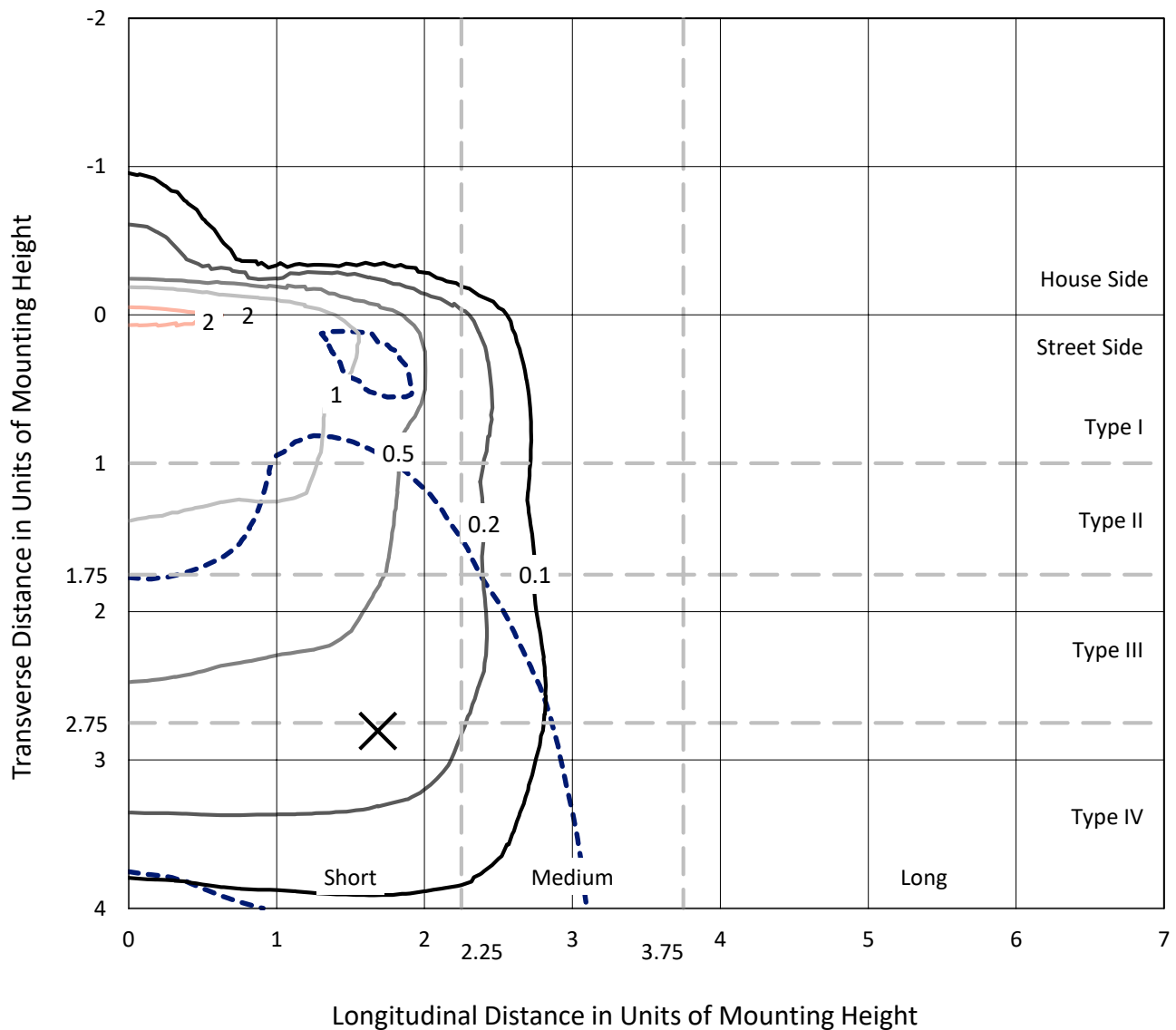
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322467
 CATALOG NUMBER: GAN-SA3A-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

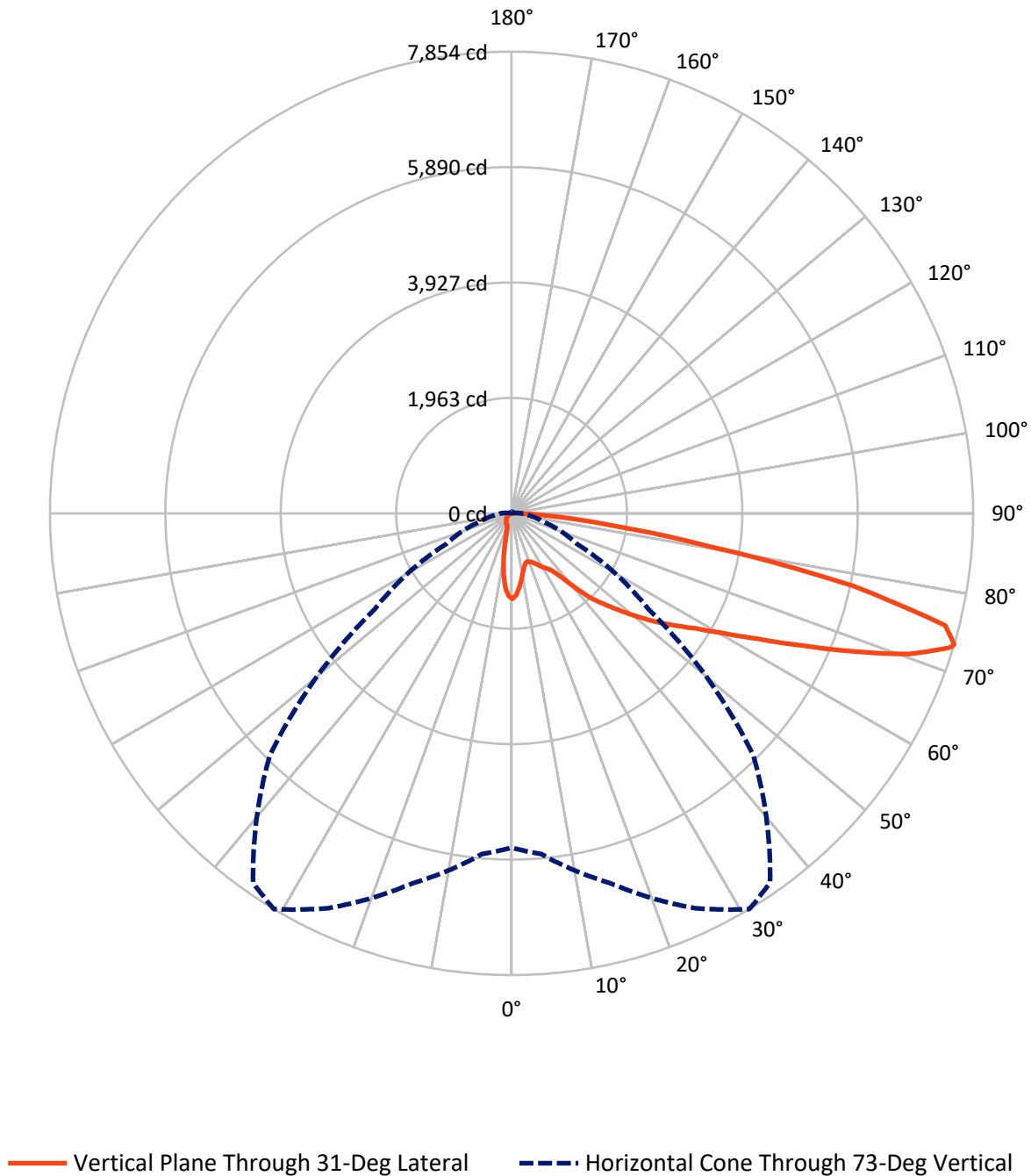
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P322467
CATALOG NUMBER: GAN-SA3A-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322467

CATALOG NUMBER: GAN-SA3A-727-U-T4FT-HSS

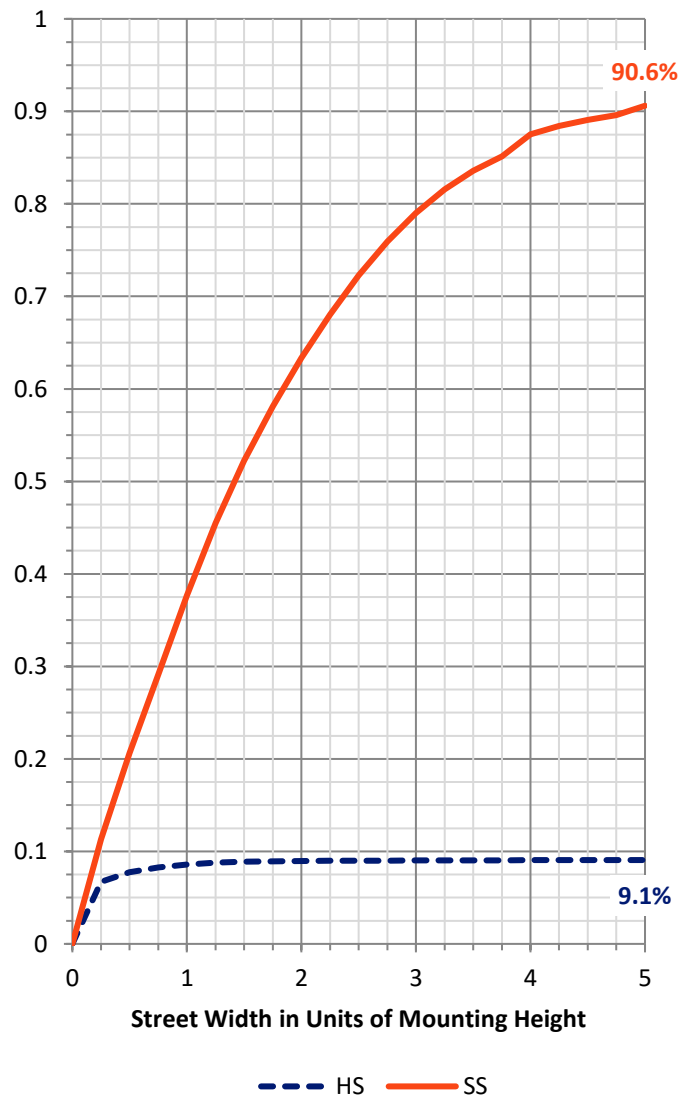
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.2	0.0	770.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7678.8	0.0	7678.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	8449.0	0.0	8449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.4
10°-20°	261.7	3.1
20°-30°	392.1	4.6
30°-40°	623.8	7.4
40°-50°	1114.0	13.2
50°-60°	1728.6	20.5
60°-70°	2298.0	27.2
70°-80°	1728.6	20.5
80°-90°	181.6	2.1
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°	8449.0	100.0
0°-180°	8449.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322467

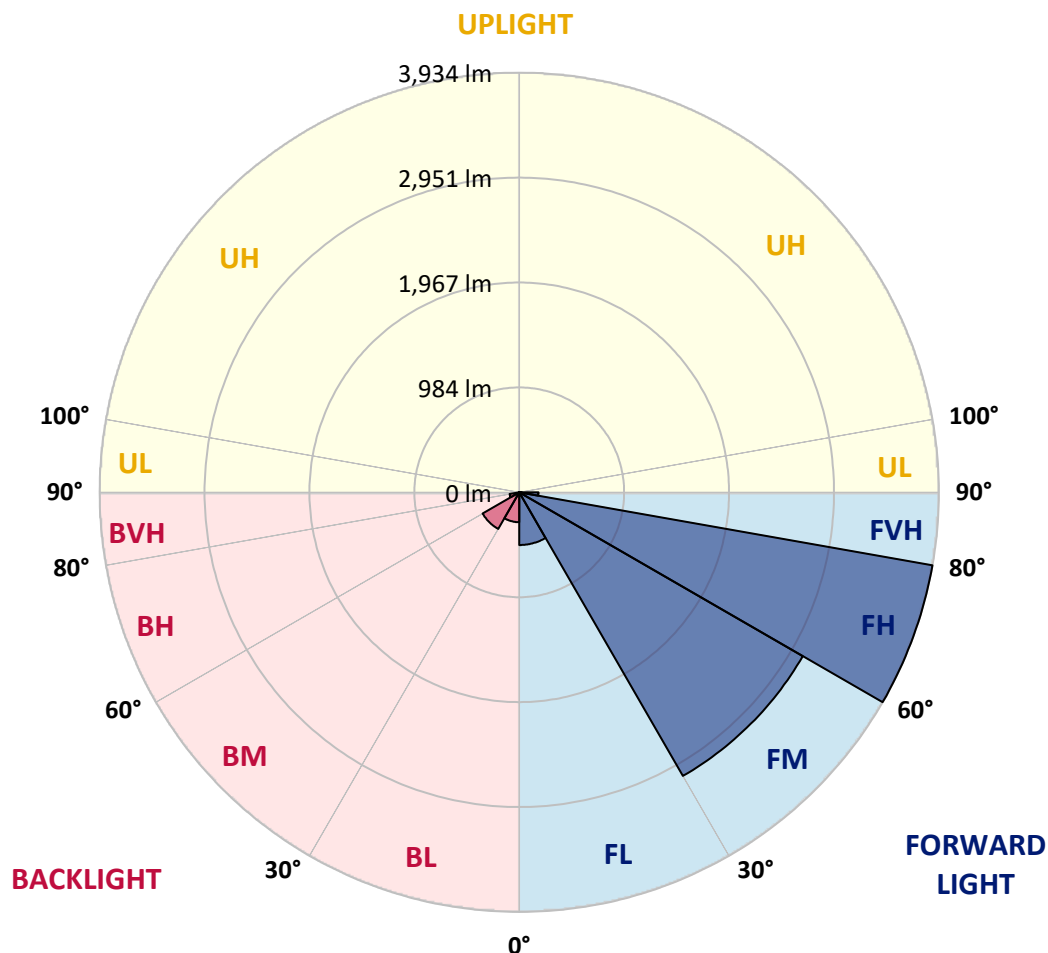
CATALOG NUMBER: GAN-SA3A-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.3	5.9			
FM	(30°-60°)	3070.1	36.3			
FH	(60°-80°)	3934.4	46.6			G2/5000
FVH	(80°-90°)	180.1	2.1			G2/225
BL	(0°-30°)	280.1	3.3	B1/500		
BM	(30°-60°)	396.4	4.7	B1/1000		
BH	(60°-80°)	92.1	1.1	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G2

Type IV Short





REPORT NUMBER: P322467

CATALOG NUMBER: GAN-SA3A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7
2.5°	1377.6	1383.4	1389.6	1390.8	1401.2	1401.6	1416.5	1427.6	1438.8	1449.5	1453.3
5°	1236.2	1245.7	1256.9	1268.0	1289.9	1298.6	1335.0	1372.2	1407.8	1441.7	1458.2
7.5°	1085.3	1096.0	1111.7	1139.5	1163.8	1180.8	1238.3	1304.4	1370.6	1433.0	1469.0
10°	947.6	957.5	974.1	1003.4	1041.1	1064.2	1141.5	1233.3	1330.5	1425.1	1485.1
12.5°	860.0	865.3	874.4	905.9	939.8	965.8	1056.8	1170.5	1297.4	1424.7	1511.1
15°	843.8	845.5	838.1	852.1	878.6	903.8	996.0	1119.6	1272.2	1431.3	1545.0
17.5°	869.5	868.6	843.8	842.2	863.3	883.9	966.2	1084.5	1254.4	1446.6	1588.9
20°	908.3	905.4	862.4	854.6	876.9	896.3	964.2	1071.2	1247.8	1472.3	1642.2
22.5°	960.0	955.1	887.7	879.4	903.4	923.6	989.8	1084.0	1253.6	1506.6	1704.2
25°	1024.1	1016.7	931.1	922.0	946.4	966.6	1035.7	1120.8	1270.9	1548.3	1782.8
27.5°	1096.5	1085.7	1000.5	977.0	1004.7	1025.8	1096.9	1177.1	1298.2	1592.6	1879.1
30°	1164.7	1150.6	1073.7	1034.8	1068.8	1092.3	1163.0	1244.1	1342.0	1660.8	2011.0
32.5°	1233.3	1217.6	1139.0	1092.7	1123.3	1149.0	1231.2	1336.2	1424.3	1765.0	2186.3
35°	1391.2	1374.7	1278.4	1201.9	1201.5	1215.9	1326.7	1462.4	1533.0	1910.1	2395.5
37.5°	1657.1	1647.6	1555.8	1410.7	1371.8	1355.7	1457.0	1612.8	1689.3	2109.8	2631.6
40°	1948.1	1939.9	1836.9	1705.5	1646.3	1606.6	1643.9	1822.5	1910.1	2353.7	2872.6
42.5°	2276.8	2237.6	2054.0	2014.7	1961.8	1931.6	1898.1	2080.9	2181.3	2619.2	3111.6
45°	2575.3	2509.2	2271.0	2211.5	2199.5	2207.0	2225.6	2428.2	2486.4	2934.6	3349.7
47.5°	2753.1	2701.0	2518.3	2461.2	2457.9	2507.1	2647.7	2820.5	2790.3	3209.6	3559.3
50°	2922.2	2875.1	2723.4	2737.4	2752.7	2819.7	3126.9	3224.0	3067.8	3458.9	3751.6
52.5°	3059.1	2987.1	2907.7	2986.7	3062.0	3169.9	3621.4	3586.2	3264.6	3657.3	3916.1
55°	3138.0	3105.4	3143.8	3223.2	3364.6	3539.9	4088.1	3887.6	3408.4	3838.4	4025.7
57.5°	3427.4	3363.4	3439.9	3508.5	3692.9	3938.1	4487.9	4112.1	3512.2	3950.5	4050.9
60°	3777.6	3726.0	3771.0	3885.1	4134.0	4422.2	4861.7	4295.3	3566.4	4022.4	3985.6
62.5°	4335.0	4266.7	4238.6	4366.4	4696.3	5010.9	5145.3	4422.2	3554.4	3990.6	3761.5
65°	5081.6	5010.9	4885.2	5001.0	5420.7	5642.7	5462.4	4449.1	3471.7	3733.0	3195.1
67.5°	5846.5	5795.2	5687.7	5882.9	6261.6	6333.1	5797.7	4383.7	3205.4	3026.8	2257.4
70°	6351.7	6329.8	6399.7	6831.3	7169.1	7148.4	6105.3	4032.7	2498.4	1861.3	1116.7
72.5°	5987.5	6092.5	6608.5	7391.1	7803.7	7635.1	5947.4	3096.7	1428.0	716.1	322.9
73°	5685.7	5820.0	6514.6	7412.2	7853.8	7669.0	5814.7	2842.4	1217.2	565.2	244.8
75°	3955.4	4120.4	5393.4	6903.3	7619.8	7306.8	4846.8	1739.8	563.9	250.5	98.8
77.5°	1920.4	2042.4	2969.8	4987.8	5925.9	5708.8	3017.3	648.3	254.7	156.7	45.5
80°	716.9	797.1	1289.1	2538.5	3424.6	3514.3	1327.2	245.2	169.5	126.1	23.2
82.5°	187.7	209.2	475.5	1132.0	1755.1	1836.9	418.4	123.6	124.0	103.8	14.1
85°	59.9	68.6	148.4	508.1	826.9	726.0	109.1	59.9	90.1	77.3	7.9
87.5°	7.4	9.5	47.1	119.5	182.3	101.3	17.0	17.8	38.5	43.0	4.5
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: P322467

CATALOG NUMBER: GAN-SA3A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7
2.5°	1457.0	1454.9	1455.3	1444.6	1437.5	1423.5	1409.0	1402.4	1395.4	1392.5	1395.4
5°	1464.4	1460.7	1449.9	1416.9	1381.7	1336.2	1293.7	1261.4	1220.9	1209.7	1221.3
7.5°	1476.0	1468.6	1437.1	1369.7	1291.6	1204.8	1107.2	1036.1	977.8	940.2	953.8
10°	1492.9	1478.9	1415.6	1301.1	1161.4	1007.6	869.1	761.1	684.7	653.2	652.0
12.5°	1521.5	1495.0	1389.2	1211.8	1002.2	797.1	615.6	498.6	436.6	396.5	395.7
15°	1552.9	1514.0	1355.7	1104.7	817.0	571.0	396.5	307.6	267.5	254.7	253.0
17.5°	1591.3	1535.9	1312.3	972.8	623.1	378.3	258.8	233.2	231.5	230.3	230.3
20°	1639.7	1562.0	1256.5	821.9	442.0	252.6	220.0	221.6	222.4	220.8	221.2
22.5°	1695.9	1588.5	1189.9	659.9	298.9	211.3	210.4	212.5	213.3	212.5	212.9
25°	1761.3	1619.0	1108.9	489.9	215.8	200.5	202.6	205.5	207.5	207.5	207.5
27.5°	1842.3	1656.3	1011.3	341.9	186.5	189.4	195.1	200.5	203.4	204.2	204.2
30°	1947.7	1702.6	894.3	234.4	169.5	174.5	185.2	195.6	200.9	201.8	202.2
32.5°	2080.9	1754.7	758.7	173.2	155.0	158.8	170.3	187.7	198.0	199.7	199.7
35°	2233.4	1815.0	612.7	150.9	144.7	145.9	155.0	174.9	193.1	197.6	198.0
37.5°	2400.5	1874.6	466.0	141.0	136.0	136.0	142.6	159.6	181.1	195.1	196.8
40°	2556.3	1910.5	326.6	133.1	128.2	128.2	134.0	146.4	166.6	187.7	192.3
42.5°	2700.2	1922.9	227.4	125.7	120.7	122.0	126.9	136.8	152.1	173.2	177.4
45°	2848.2	1920.9	165.8	117.0	113.3	117.0	120.7	128.2	139.3	151.3	152.1
47.5°	2959.8	1903.5	131.5	108.7	106.3	111.2	114.5	119.5	125.7	124.9	124.9
50°	3064.4	1861.3	105.8	97.6	99.2	105.0	106.7	108.3	108.7	100.9	100.1
52.5°	3143.8	1795.6	84.8	85.6	92.2	98.0	96.3	93.9	89.7	80.2	78.6
55°	3170.3	1669.1	66.6	70.7	81.9	89.3	83.1	77.7	69.9	62.0	60.4
57.5°	3122.3	1505.8	54.2	55.0	69.0	75.2	68.2	62.0	53.3	46.7	45.5
60°	3020.6	1324.3	44.7	41.3	53.3	58.7	54.2	48.0	40.1	35.1	34.7
62.5°	2818.9	1130.8	36.8	32.2	40.5	45.1	42.2	37.6	31.0	27.7	27.3
65°	2394.7	904.6	29.8	26.0	31.4	35.1	32.7	29.4	24.4	21.9	21.5
67.5°	1671.6	611.5	24.4	21.5	24.8	27.7	25.6	24.0	19.4	19.0	19.4
70°	806.2	294.8	20.3	17.4	19.4	21.5	20.7	19.4	18.6	21.5	24.8
72.5°	231.1	98.8	16.1	14.5	15.7	17.0	17.8	17.4	20.3	26.0	30.2
73°	177.8	79.8	15.3	13.6	14.9	16.5	17.4	17.0	20.7	26.5	30.2
75°	76.1	38.5	11.6	11.2	12.4	14.5	15.3	15.3	20.7	26.9	28.9
77.5°	34.3	20.7	7.4	8.7	10.7	11.6	12.8	12.8	16.5	20.7	20.7
80°	19.4	11.2	5.8	6.6	7.9	7.9	7.9	7.0	7.4	8.3	9.1
82.5°	12.4	7.4	4.5	5.4	5.0	4.1	3.3	3.3	2.9	3.3	4.1
85°	7.0	4.1	4.1	3.3	2.1	1.7	2.1	1.7	0.4	0.0	0.4
87.5°	4.1	2.5	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)