

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: P322468

Luminaire Tested: **GAN-SA4A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322468
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-SA4A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 11164 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

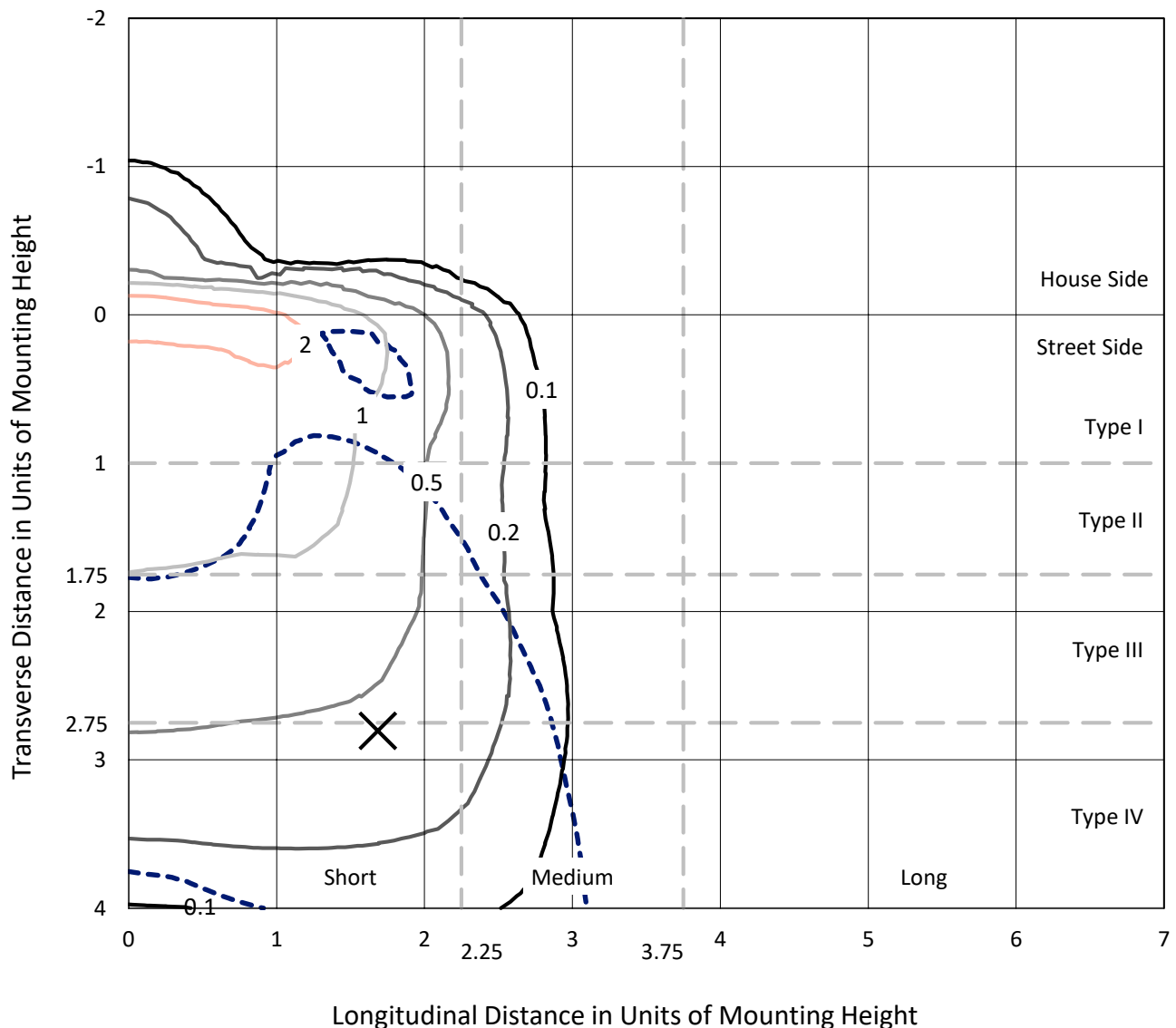
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322468
 CATALOG NUMBER: GAN-SA4A-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

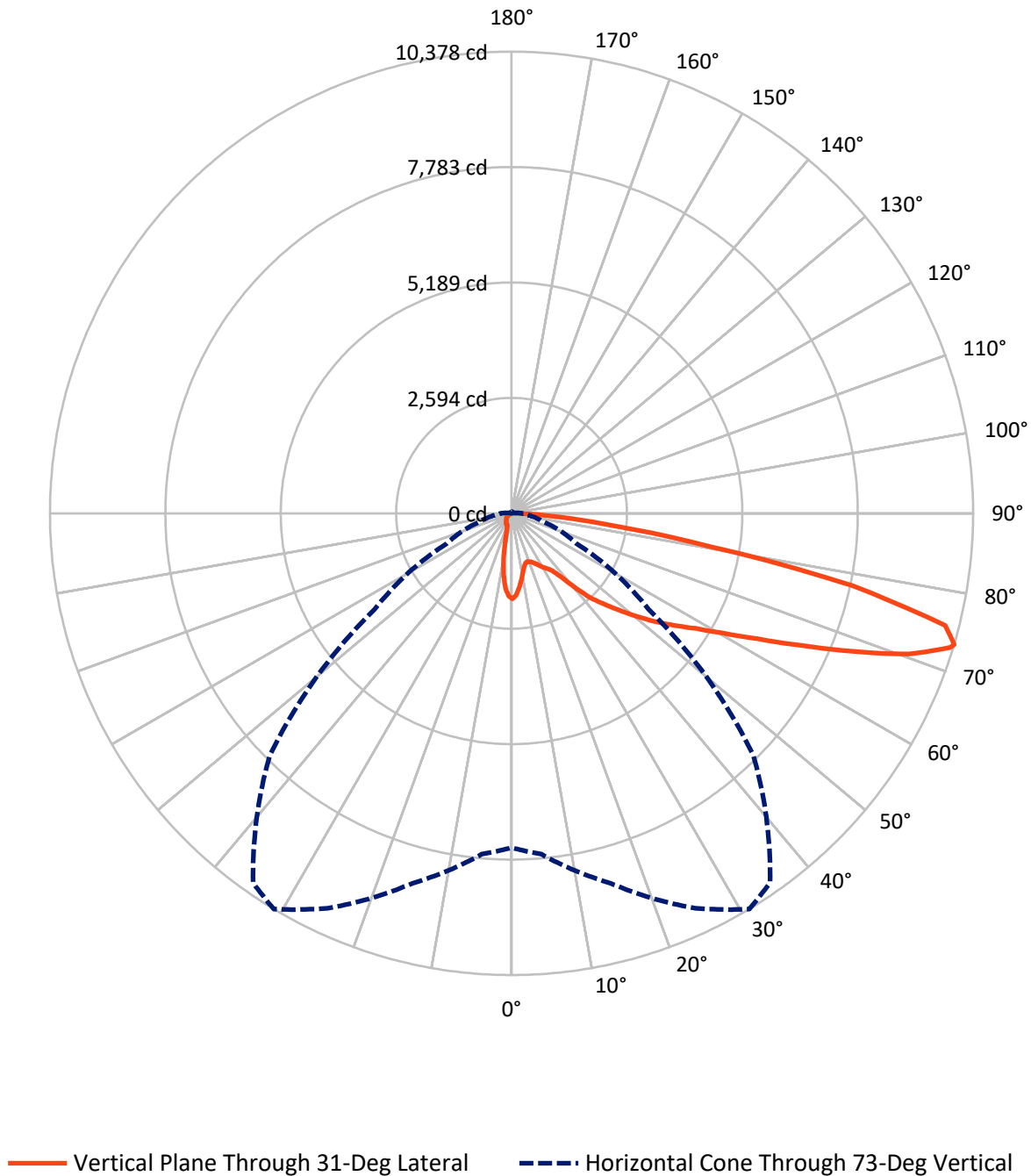
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P322468
CATALOG NUMBER: GAN-SA4A-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322468

CATALOG NUMBER: GAN-SA4A-727-U-T4FT-HSS

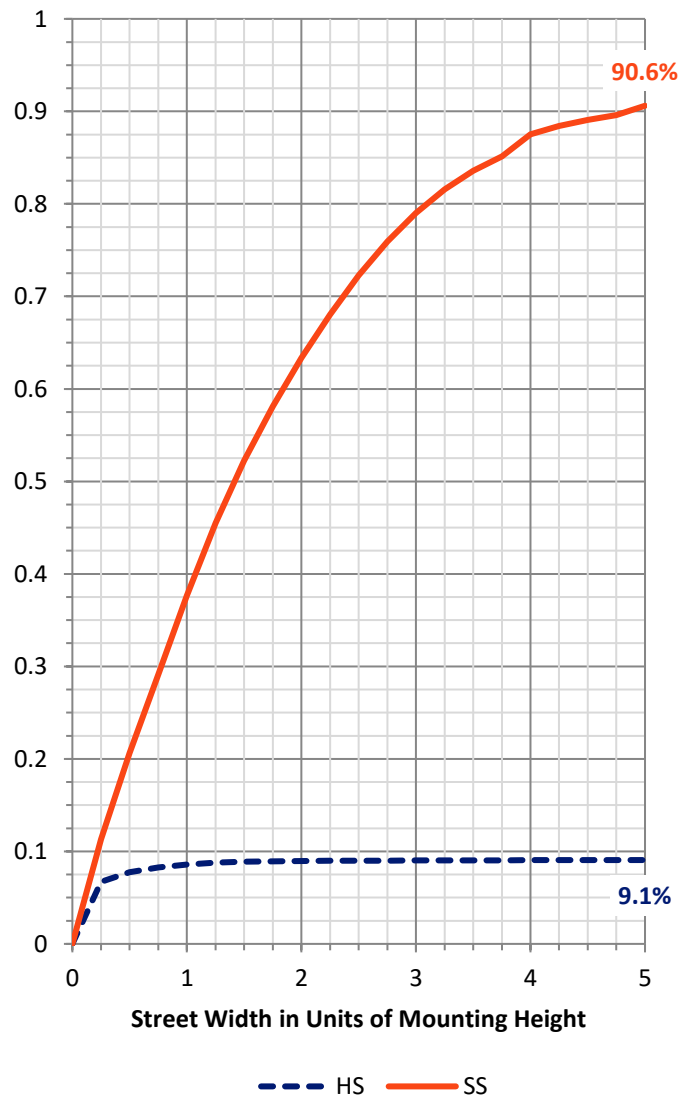
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1017.6	0.0	1017.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	10146.4	0.0	10146.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	11164.0	0.0	11164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.4
10°-20°	345.8	3.1
20°-30°	518.1	4.6
30°-40°	824.3	7.4
40°-50°	1472.0	13.2
50°-60°	2284.1	20.5
60°-70°	3036.4	27.2
70°-80°	2284.0	20.5
80°-90°	240.0	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°	11164.0	100.0
0°-180°	11164.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322468

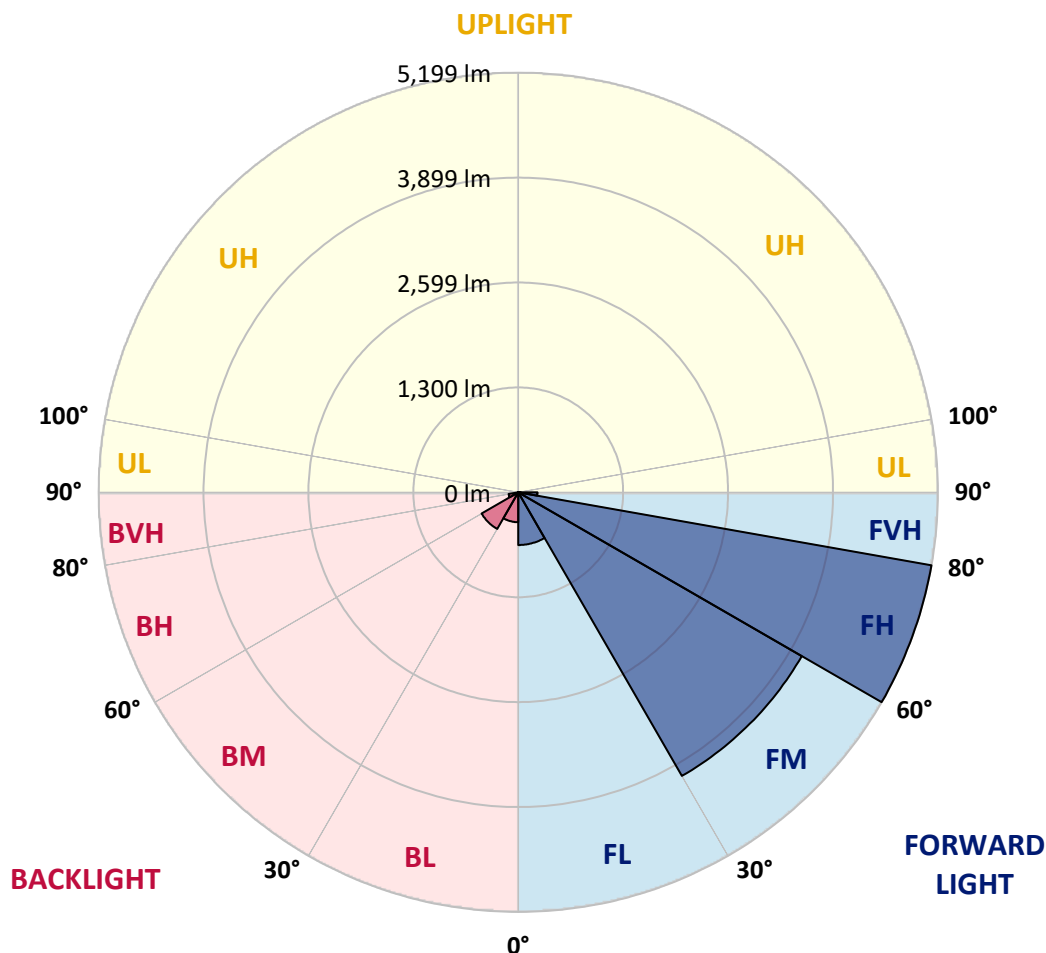
CATALOG NUMBER: GAN-SA4A-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.1	5.9			
FM	(30°-60°)	4056.6	36.3			
FH	(60°-80°)	5198.7	46.6			G3/7500
FVH	(80°-90°)	238.0	2.1			G3/500
BL	(0°-30°)	370.1	3.3	B1/500		
BM	(30°-60°)	523.8	4.7	B1/1000		
BH	(60°-80°)	121.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3

Type IV Short





REPORT NUMBER: P322468

CATALOG NUMBER: GAN-SA4A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	1820.3	1827.9	1836.1	1837.8	1851.4	1852.0	1871.6	1886.4	1901.1	1915.3	1920.2
5°	1633.4	1646.0	1660.8	1675.5	1704.5	1715.9	1764.0	1813.2	1860.1	1904.9	1926.8
7.5°	1434.0	1448.2	1469.0	1505.6	1537.8	1560.2	1636.2	1723.6	1811.0	1893.5	1941.0
10°	1252.1	1265.2	1287.1	1325.9	1375.6	1406.2	1508.3	1629.6	1758.0	1883.1	1962.3
12.5°	1136.3	1143.4	1155.4	1196.9	1241.7	1276.2	1396.3	1546.6	1714.3	1882.5	1996.7
15°	1115.0	1117.2	1107.3	1125.9	1160.9	1194.2	1316.0	1479.4	1681.0	1891.3	2041.5
17.5°	1148.9	1147.8	1115.0	1112.8	1140.7	1168.0	1276.7	1432.9	1657.5	1911.5	2099.4
20°	1200.2	1196.4	1139.6	1129.2	1158.7	1184.4	1274.0	1415.5	1648.7	1945.4	2169.9
22.5°	1268.5	1262.0	1172.9	1162.0	1193.7	1220.4	1307.8	1432.4	1656.4	1990.7	2251.8
25°	1353.2	1343.4	1230.3	1218.2	1250.5	1277.2	1368.5	1481.0	1679.3	2045.9	2355.6
27.5°	1448.8	1434.6	1322.0	1290.9	1327.5	1355.4	1449.3	1555.3	1715.4	2104.3	2482.9
30°	1538.9	1520.4	1418.7	1367.4	1412.2	1443.3	1536.7	1643.8	1773.3	2194.5	2657.2
32.5°	1629.6	1608.9	1505.1	1443.9	1484.3	1518.2	1626.9	1765.6	1882.0	2332.2	2888.8
35°	1838.3	1816.4	1689.2	1588.1	1587.5	1606.7	1753.1	1932.3	2025.7	2523.9	3165.3
37.5°	2189.6	2177.0	2055.7	1864.0	1812.6	1791.3	1925.2	2131.1	2232.2	2787.8	3477.2
40°	2574.2	2563.2	2427.2	2253.5	2175.4	2122.9	2172.1	2408.1	2523.9	3110.1	3795.7
42.5°	3008.5	2956.6	2714.0	2662.1	2592.2	2552.3	2508.1	2749.5	2882.3	3460.8	4111.5
45°	3402.9	3315.5	3000.8	2922.2	2906.3	2916.1	2940.7	3208.4	3285.4	3877.6	4426.1
47.5°	3637.8	3569.0	3327.5	3252.1	3247.8	3312.8	3498.5	3726.9	3687.0	4240.9	4703.1
50°	3861.2	3799.0	3598.5	3617.0	3637.3	3725.8	4131.7	4260.0	4053.5	4570.3	4957.1
52.5°	4042.1	3947.0	3842.1	3946.5	4045.9	4188.5	4785.0	4738.6	4313.6	4832.6	5174.5
55°	4146.4	4103.3	4154.1	4259.0	4445.8	4677.4	5401.8	5136.9	4503.7	5071.8	5319.3
57.5°	4528.8	4444.1	4545.2	4635.9	4879.5	5203.5	5930.1	5433.5	4640.8	5219.9	5352.6
60°	4991.5	4923.3	4982.8	5133.6	5462.4	5843.2	6423.9	5675.5	4712.4	5314.9	5266.3
62.5°	5728.0	5637.8	5600.7	5769.5	6205.4	6621.2	6798.7	5843.2	4696.5	5272.9	4970.2
65°	6714.6	6621.2	6455.1	6608.0	7162.5	7455.9	7217.7	5878.7	4587.3	4932.5	4221.8
67.5°	7725.2	7657.5	7515.4	7773.3	8273.7	8368.2	7660.8	5792.4	4235.5	3999.5	2982.8
70°	8392.8	8363.8	8456.2	9026.5	9472.8	9445.5	8067.2	5328.6	3301.3	2459.4	1475.6
72.5°	7911.5	8050.3	8732.1	9766.2	10311.4	10088.5	7858.5	4091.8	1886.9	946.2	426.7
73°	7512.7	7690.3	8608.0	9794.1	10377.5	10133.3	7683.2	3755.8	1608.3	746.8	323.4
75°	5226.4	5444.4	7126.5	9121.6	10068.3	9654.8	6404.3	2298.8	745.2	331.1	130.6
77.5°	2537.6	2698.7	3924.1	6590.6	7830.1	7543.3	3986.9	856.6	336.5	207.0	60.1
80°	947.3	1053.3	1703.4	3354.3	4525.0	4643.5	1753.6	324.0	224.0	166.6	30.6
82.5°	248.0	276.4	628.2	1495.8	2319.0	2427.2	552.9	163.3	163.9	137.1	18.6
85°	79.2	90.7	196.1	671.4	1092.6	959.3	144.2	79.2	119.1	102.2	10.4
87.5°	9.8	12.6	62.3	157.9	240.9	133.8	22.4	23.5	50.8	56.8	6.0
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: P322468

CATALOG NUMBER: GAN-SA4A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	1925.2	1922.4	1923.0	1908.8	1899.5	1880.9	1861.8	1853.0	1843.8	1839.9	1843.8
5°	1935.0	1930.1	1915.9	1872.2	1825.7	1765.6	1709.4	1666.8	1613.2	1598.5	1613.8
7.5°	1950.3	1940.5	1898.9	1809.9	1706.6	1591.9	1463.0	1369.0	1292.0	1242.3	1260.3
10°	1972.7	1954.1	1870.5	1719.2	1534.6	1331.3	1148.3	1005.7	904.7	863.2	861.5
12.5°	2010.4	1975.4	1835.6	1601.2	1324.2	1053.3	813.4	658.8	576.9	523.9	522.8
15°	2051.9	2000.5	1791.3	1459.7	1079.5	754.4	523.9	406.4	353.5	336.5	334.3
17.5°	2102.7	2029.5	1734.0	1285.4	823.3	499.9	342.0	308.1	305.9	304.3	304.3
20°	2166.6	2063.9	1660.2	1086.0	584.0	333.8	290.6	292.8	293.9	291.7	292.3
22.5°	2240.9	2098.9	1572.2	871.9	395.0	279.2	278.1	280.8	281.9	280.8	281.3
25°	2327.2	2139.3	1465.2	647.4	285.2	265.0	267.7	271.5	274.2	274.2	274.2
27.5°	2434.3	2188.5	1336.2	451.8	246.4	250.2	257.9	265.0	268.8	269.9	269.9
30°	2573.6	2249.7	1181.6	309.8	224.0	230.5	244.7	258.4	265.5	266.6	267.1
32.5°	2749.5	2318.5	1002.5	228.9	204.9	209.8	225.1	248.0	261.7	263.9	263.9
35°	2951.1	2398.3	809.6	199.4	191.2	192.8	204.9	231.1	255.1	261.1	261.7
37.5°	3171.8	2476.9	615.7	186.3	179.7	179.7	188.5	210.9	239.3	257.9	260.0
40°	3377.8	2524.5	431.6	175.9	169.4	169.4	177.0	193.4	220.2	248.0	254.0
42.5°	3567.9	2540.8	300.5	166.1	159.5	161.2	167.7	180.8	201.0	228.9	234.4
45°	3763.5	2538.1	219.1	154.6	149.7	154.6	159.5	169.4	184.1	199.9	201.0
47.5°	3911.0	2515.2	173.7	143.7	140.4	147.0	151.3	157.9	166.1	165.0	165.0
50°	4049.2	2459.4	139.9	128.9	131.1	138.8	140.9	143.1	143.7	133.3	132.2
52.5°	4154.1	2372.6	112.0	113.1	121.8	129.5	127.3	124.0	118.5	106.0	103.8
55°	4189.0	2205.4	88.0	93.4	108.2	118.0	109.8	102.7	92.3	81.9	79.8
57.5°	4125.7	1989.6	71.6	72.7	91.2	99.4	90.1	81.9	70.5	61.7	60.1
60°	3991.3	1749.8	59.0	54.6	70.5	77.6	71.6	63.4	53.0	46.4	45.9
62.5°	3724.7	1494.1	48.6	42.6	53.5	59.5	55.7	49.7	41.0	36.6	36.1
65°	3164.2	1195.3	39.3	34.4	41.5	46.4	43.2	38.8	32.2	29.0	28.4
67.5°	2208.7	808.0	32.2	28.4	32.8	36.6	33.9	31.7	25.7	25.1	25.7
70°	1065.3	389.5	26.8	22.9	25.7	28.4	27.3	25.7	24.6	28.4	32.8
72.5°	305.4	130.6	21.3	19.1	20.8	22.4	23.5	22.9	26.8	34.4	39.9
73°	234.9	105.4	20.2	18.0	19.7	21.9	22.9	22.4	27.3	35.0	39.9
75°	100.5	50.8	15.3	14.8	16.4	19.1	20.2	20.2	27.3	35.5	38.2
77.5°	45.3	27.3	9.8	11.5	14.2	15.3	16.9	16.9	21.9	27.3	27.3
80°	25.7	14.8	7.6	8.7	10.4	10.4	10.4	9.3	9.8	10.9	12.0
82.5°	16.4	9.8	6.0	7.1	6.6	5.5	4.4	4.4	3.8	4.4	5.5
85°	9.3	5.5	5.5	4.4	2.7	2.2	2.7	2.2	0.5	0.0	0.5
87.5°	5.5	3.3	1.6	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)