

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: P319906

Luminaire Tested: **GAN-SA2A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7576 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

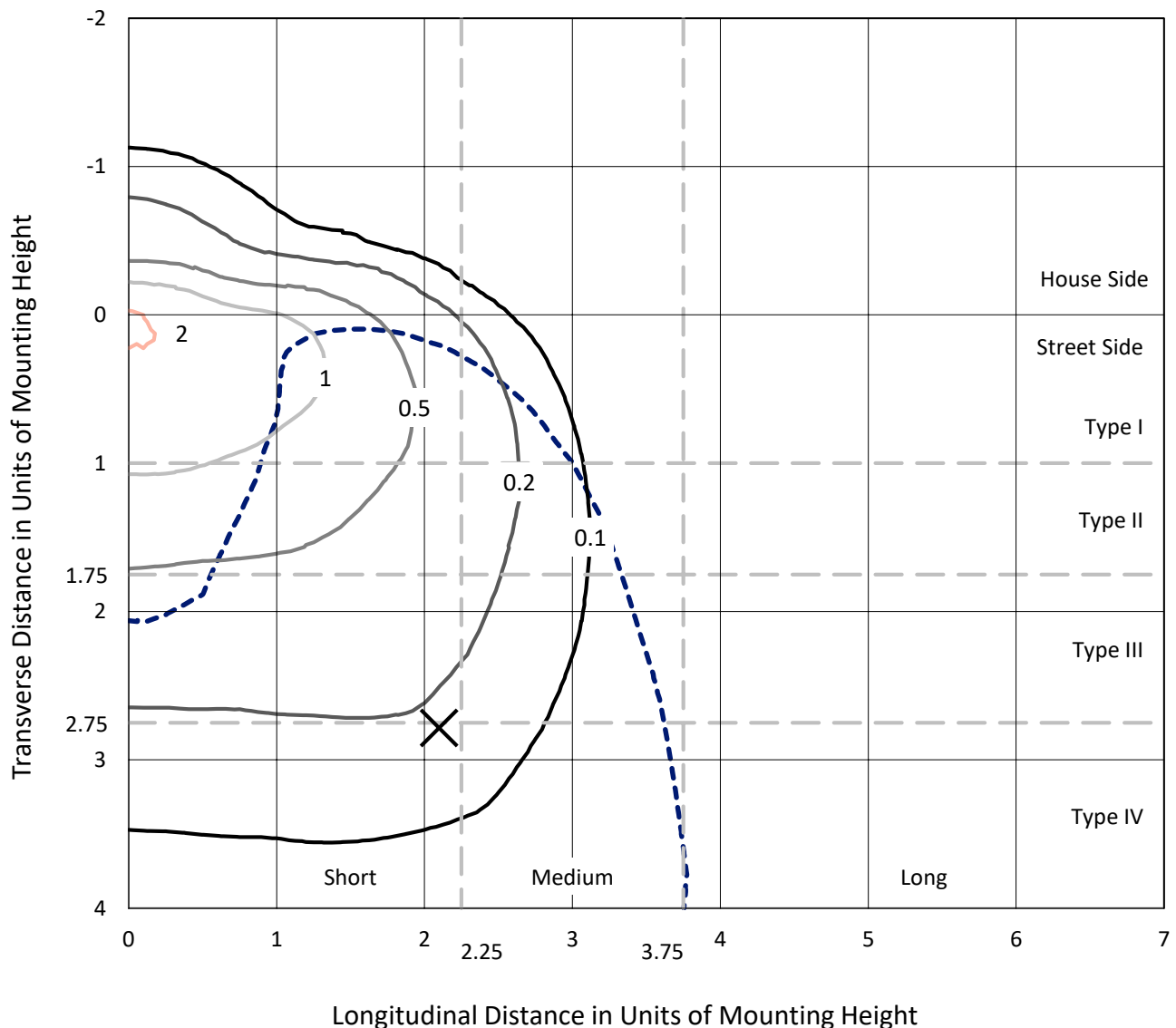
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319906
 CATALOG NUMBER: GAN-SA2A-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

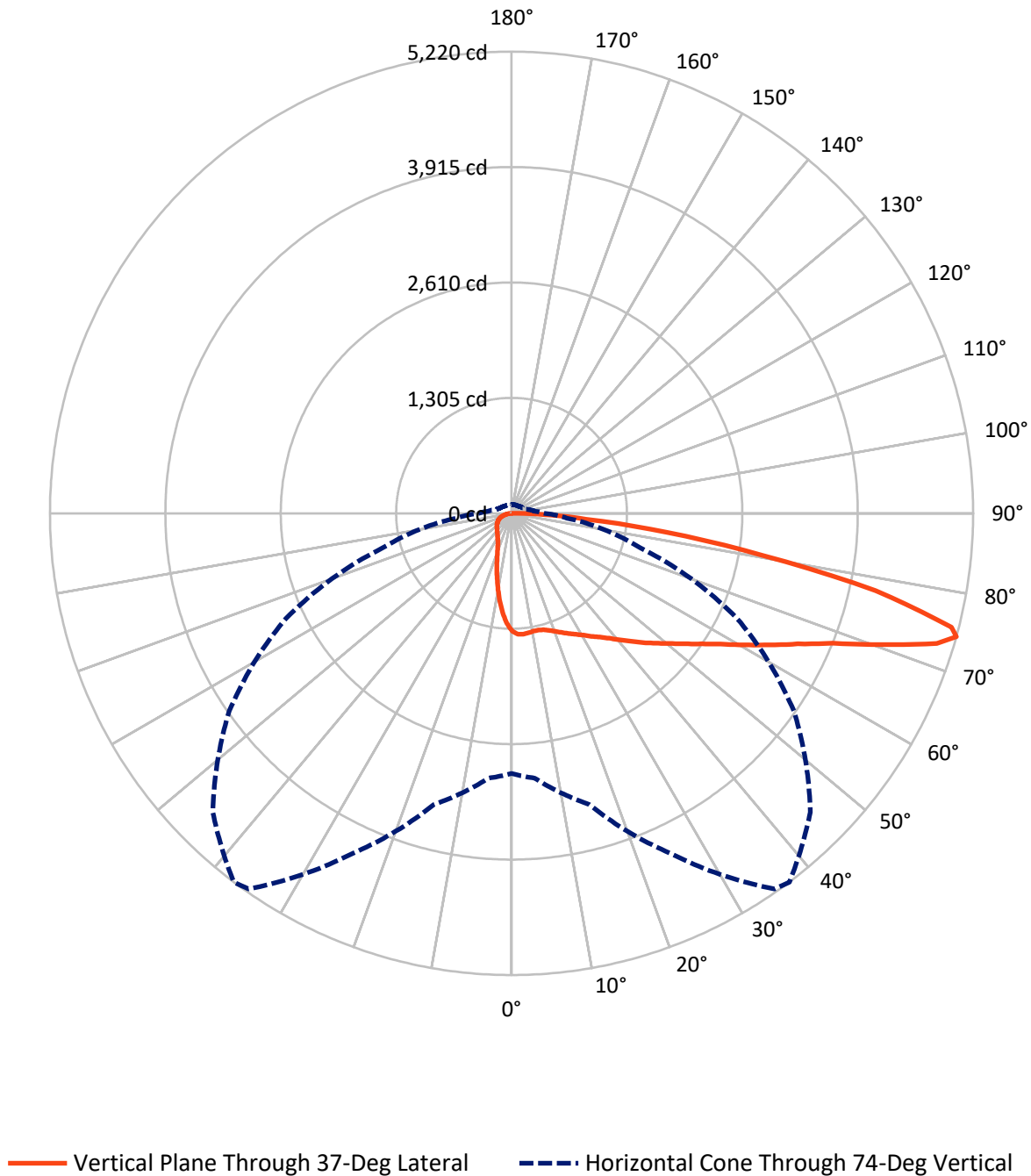
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P319906
CATALOG NUMBER: GAN-SA2A-727-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P319906

CATALOG NUMBER: GAN-SA2A-727-U-SL4

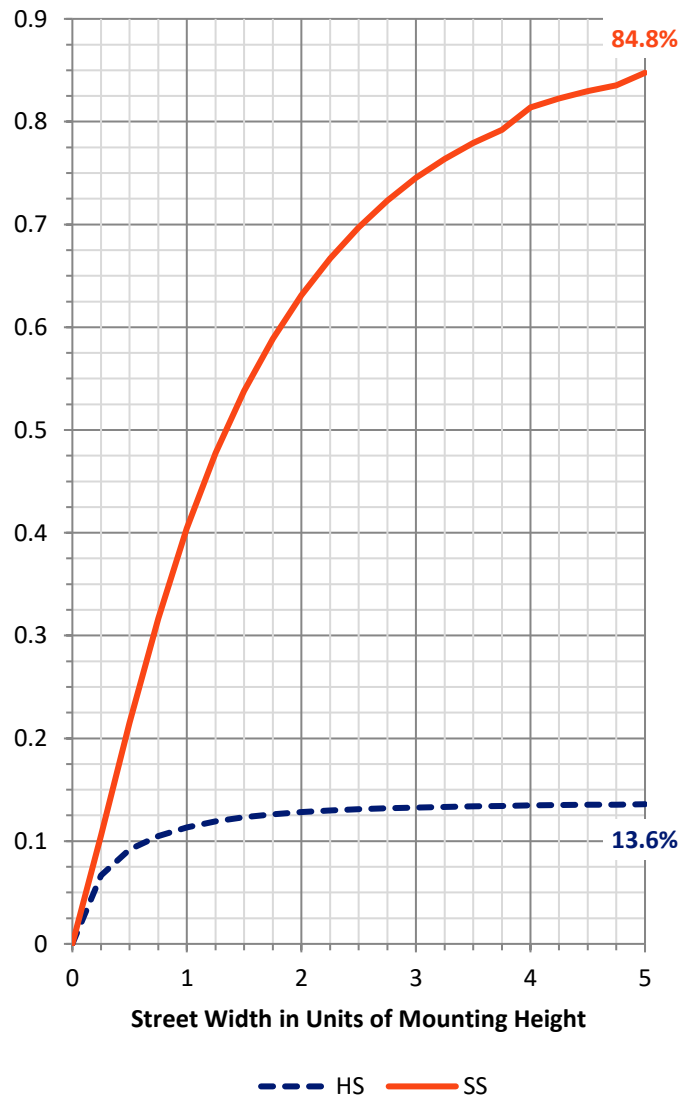
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1042.4	0.0	1042.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	6533.6	0.0	6533.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	7576.0	0.0	7576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	1.6
10°-20°	301.3	4.0
20°-30°	464.3	6.1
30°-40°	675.1	8.9
40°-50°	993.6	13.1
50°-60°	1395.4	18.4
60°-70°	1766.1	23.3
70°-80°	1555.1	20.5
80°-90°	307.5	4.1
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°	7576.0	100.0
0°-180°	7576.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319906

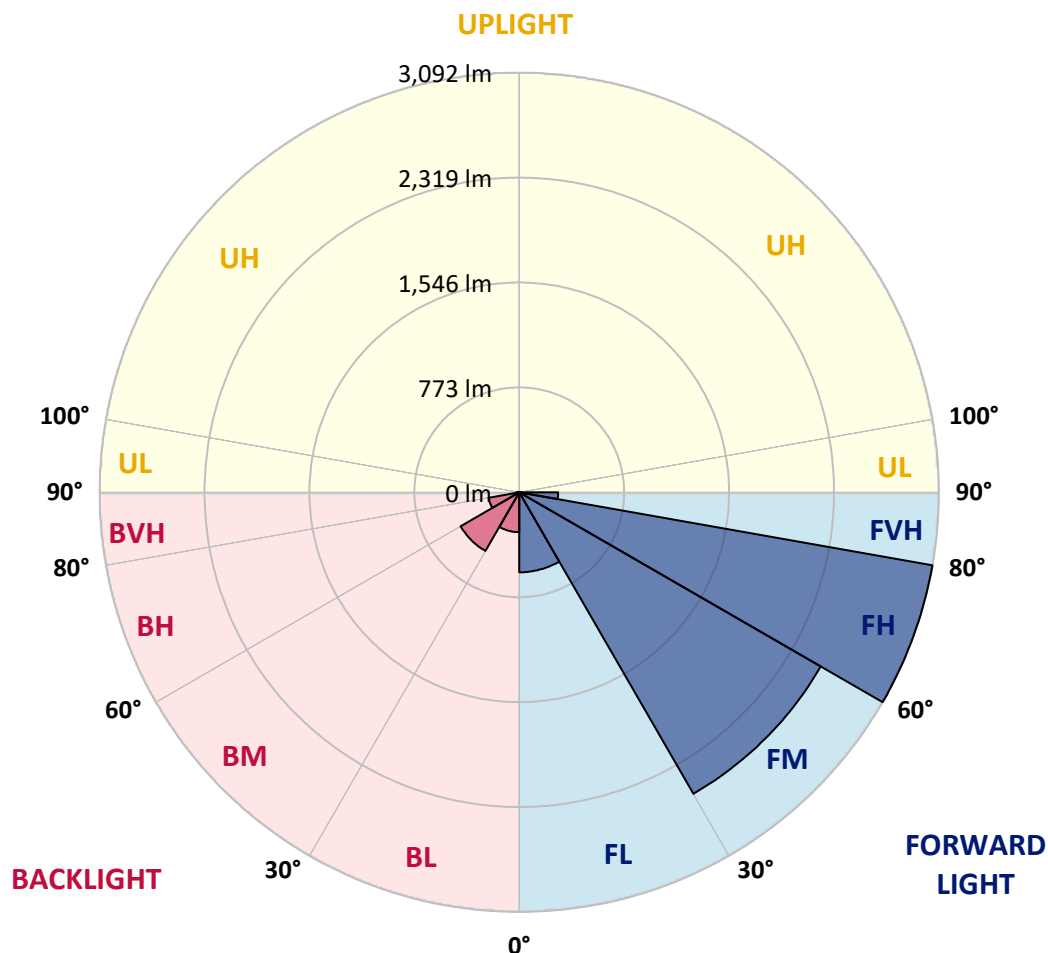
CATALOG NUMBER: GAN-SA2A-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.5	7.8			
FM	(30°-60°)	2565.3	33.9			
FH	(60°-80°)	3092.1	40.8			G2/5000
FVH	(80°-90°)	286.7	3.8			G3/500
BL	(0°-30°)	293.6	3.9	B1/500		
BM	(30°-60°)	498.8	6.6	B1/1000		
BH	(60°-80°)	229.1	3.0	B1/500		G1/500
BVH	(80°-90°)	20.8	0.3			G1/100
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: P319906

CATALOG NUMBER: GAN-SA2A-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9
2.5°	1380.5	1380.8	1380.5	1378.4	1373.3	1369.0	1365.6	1360.5	1349.3	1340.7	1327.9
5°	1393.6	1392.0	1390.9	1386.9	1378.9	1374.1	1367.4	1357.8	1339.4	1322.3	1301.5
7.5°	1387.4	1385.6	1383.2	1378.4	1369.3	1365.3	1355.9	1343.4	1321.3	1298.8	1268.9
10°	1368.5	1368.0	1366.9	1365.8	1358.1	1354.9	1346.3	1333.0	1311.1	1283.9	1248.9
12.5°	1347.4	1348.7	1353.0	1358.6	1355.1	1353.5	1348.2	1339.1	1316.7	1287.4	1245.2
15°	1334.1	1337.8	1349.3	1364.0	1366.9	1366.4	1365.0	1359.1	1335.4	1302.8	1253.7
17.5°	1329.5	1335.7	1357.5	1381.8	1390.4	1392.2	1392.8	1382.6	1356.2	1321.8	1262.5
20°	1337.8	1345.5	1377.6	1410.9	1424.5	1425.6	1423.2	1405.6	1376.0	1338.1	1267.3
22.5°	1362.9	1369.8	1409.9	1447.5	1463.0	1464.6	1457.4	1430.7	1396.8	1357.3	1274.0
25°	1411.2	1419.7	1459.8	1497.4	1505.4	1505.7	1495.2	1462.2	1424.0	1384.2	1288.4
27.5°	1474.2	1482.7	1518.7	1555.6	1551.3	1548.9	1534.7	1501.7	1459.5	1421.3	1314.0
30°	1544.4	1553.7	1587.9	1614.0	1603.9	1599.1	1587.6	1544.9	1508.9	1472.0	1353.3
32.5°	1616.9	1625.5	1655.4	1673.2	1660.4	1658.3	1641.0	1602.0	1573.2	1549.4	1416.8
35°	1691.4	1697.5	1726.9	1737.0	1719.9	1719.4	1714.6	1678.9	1660.7	1671.9	1509.1
37.5°	1767.5	1769.1	1794.1	1794.7	1789.6	1791.7	1796.8	1774.4	1779.5	1814.4	1629.2
40°	1835.2	1839.5	1857.7	1863.3	1872.1	1879.5	1904.9	1890.2	1929.4	1991.4	1778.7
42.5°	1885.4	1893.7	1922.8	1937.2	1965.7	1977.5	2013.2	2026.8	2105.8	2198.7	1956.4
45°	1927.8	1940.6	1987.3	2017.0	2065.3	2085.8	2137.1	2182.7	2305.2	2423.7	2143.5
47.5°	1973.7	1990.0	2048.5	2105.0	2170.7	2193.9	2287.0	2355.4	2517.9	2650.0	2319.9
50°	2041.3	2053.8	2110.9	2199.8	2281.7	2311.6	2440.5	2538.4	2734.0	2865.6	2472.8
52.5°	2135.5	2130.7	2179.0	2303.6	2413.5	2450.4	2604.3	2733.2	2953.1	3060.7	2601.9
55°	2230.2	2222.2	2256.1	2412.2	2567.2	2605.9	2784.7	2928.9	3161.6	3236.3	2700.9
57.5°	2335.6	2320.4	2349.0	2534.7	2742.3	2788.5	2986.8	3136.7	3366.5	3378.3	2763.9
60°	2444.2	2423.7	2455.7	2686.5	2964.6	3019.1	3223.2	3339.6	3559.7	3491.9	2784.2
62.5°	2539.2	2524.8	2574.2	2856.0	3215.2	3275.0	3455.4	3555.2	3750.3	3539.2	2711.1
65°	2622.2	2624.6	2710.0	3046.5	3494.6	3558.4	3721.7	3821.0	3900.2	3511.2	2540.0
67.5°	2721.2	2734.8	2880.5	3297.4	3846.3	3916.3	4109.2	4110.8	3984.0	3346.8	2203.2
70°	2865.6	2893.6	3115.1	3645.4	4346.4	4442.5	4591.4	4281.1	3866.3	2901.1	1733.6
72.5°	2993.7	3046.0	3364.6	4043.5	4956.0	5028.8	4873.5	4182.9	3374.5	2174.2	1080.0
74°	2941.7	3006.5	3410.0	4239.7	5185.5	5220.4	4778.2	3896.2	2813.6	1505.7	627.7
75°	2829.6	2900.0	3343.8	4237.8	5156.4	5136.9	4548.2	3568.8	2317.2	1026.9	417.6
77.5°	2283.6	2358.0	2817.6	3632.0	4228.0	4209.5	3493.8	2394.1	1014.9	336.8	212.2
80°	1327.7	1384.5	1749.0	2306.5	2850.9	2884.3	2297.7	1184.6	399.2	189.2	143.8
82.5°	589.8	629.0	844.9	1177.4	1720.5	1763.4	1203.3	620.7	246.6	115.0	86.5
85°	387.0	416.0	512.9	560.7	819.3	848.6	589.0	483.3	162.8	63.2	63.5
87.5°	278.3	306.4	381.1	332.8	376.0	356.0	320.5	447.3	65.4	36.0	21.3
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: P319906

CATALOG NUMBER: GAN-SA2A-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9	1334.9
2.5°	1322.3	1318.0	1308.4	1290.3	1280.2	1271.6	1257.5	1249.2	1245.5	1245.2	1246.8
5°	1289.5	1279.6	1254.8	1224.4	1200.1	1177.9	1150.5	1133.9	1122.2	1115.2	1117.1
7.5°	1251.3	1235.9	1196.9	1148.3	1109.4	1066.4	1024.0	998.6	978.9	964.2	966.9
10°	1225.2	1203.8	1147.0	1077.1	1012.2	949.8	891.3	856.4	828.6	807.3	808.9
12.5°	1216.4	1187.6	1108.8	1015.4	924.4	839.0	762.7	709.1	680.5	656.2	658.1
15°	1217.7	1179.0	1076.8	959.9	845.4	737.9	645.3	582.6	543.9	527.1	527.3
17.5°	1218.8	1169.1	1043.2	900.4	767.2	643.4	542.8	479.3	442.7	427.3	427.5
20°	1215.3	1153.1	1001.5	832.1	685.6	556.7	459.3	405.4	377.6	365.6	365.6
22.5°	1210.8	1134.2	954.6	763.5	605.0	481.4	399.5	358.4	342.4	334.4	334.1
25°	1212.9	1120.0	906.5	693.1	530.8	421.4	359.7	332.5	321.8	316.8	316.5
27.5°	1224.4	1113.4	862.2	622.9	465.9	376.3	333.0	313.8	306.9	303.7	303.7
30°	1245.2	1113.4	816.1	563.1	412.0	342.9	312.5	299.4	294.6	292.5	292.5
32.5°	1281.5	1119.5	771.5	503.8	369.1	316.8	295.4	286.6	282.9	281.8	281.8
35°	1343.9	1140.3	728.0	447.8	334.4	295.4	279.1	274.1	271.4	271.1	271.9
37.5°	1431.7	1182.7	687.2	406.4	309.8	278.1	265.5	261.5	259.9	261.3	262.3
40°	1542.2	1240.4	650.1	369.1	291.2	264.2	253.0	250.3	249.5	251.4	253.0
42.5°	1675.6	1318.3	619.7	342.1	276.7	252.5	242.3	239.1	238.3	240.4	242.6
45°	1820.0	1402.1	598.3	322.1	265.5	243.6	233.0	229.5	227.9	229.0	231.4
47.5°	1951.3	1481.4	589.8	308.0	254.9	236.2	224.7	220.4	217.8	217.2	219.1
50°	2062.1	1540.3	593.8	299.4	246.3	227.9	216.7	211.9	207.9	205.5	206.8
52.5°	2142.7	1577.4	597.5	295.7	239.6	218.8	207.9	203.4	198.0	194.0	194.0
55°	2201.1	1586.0	589.2	292.8	234.6	209.0	198.0	193.7	188.4	183.9	183.3
57.5°	2224.1	1562.0	558.5	288.5	231.1	199.6	187.6	184.4	179.9	174.5	174.3
60°	2193.1	1487.8	499.3	279.4	226.6	191.9	177.2	175.1	172.9	167.9	167.6
62.5°	2068.7	1325.0	422.7	261.0	217.5	183.6	167.6	168.7	168.9	165.5	164.9
65°	1843.2	1101.4	348.0	237.0	203.9	173.7	157.7	162.8	165.7	165.2	164.4
67.5°	1515.5	857.2	294.9	211.6	186.0	160.1	147.0	152.9	155.3	157.2	156.7
70°	1124.8	604.5	243.9	184.9	164.4	144.1	133.2	136.1	134.5	136.6	137.4
72.5°	627.1	362.7	198.8	158.3	142.0	125.4	117.7	117.2	113.7	113.7	113.7
74°	376.3	266.1	174.8	141.7	128.4	113.2	106.5	104.1	100.9	101.1	100.9
75°	302.6	228.7	160.4	130.8	118.8	105.9	99.3	96.1	93.7	93.7	93.4
77.5°	191.1	173.7	129.2	104.1	95.0	87.3	82.7	78.5	78.5	78.2	77.9
80°	144.4	138.2	100.6	78.7	72.9	67.0	64.0	62.2	62.2	63.0	62.7
82.5°	99.0	104.1	70.7	55.0	52.0	47.8	47.2	47.5	46.7	45.6	45.4
85°	72.3	78.2	47.8	34.7	31.8	29.1	31.2	32.3	31.0	28.6	27.5
87.5°	27.8	51.2	25.6	14.4	13.3	11.5	13.3	13.9	14.9	11.7	12.0
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)