

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: P322807

Luminaire Tested: **GAN-SA3C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13087 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

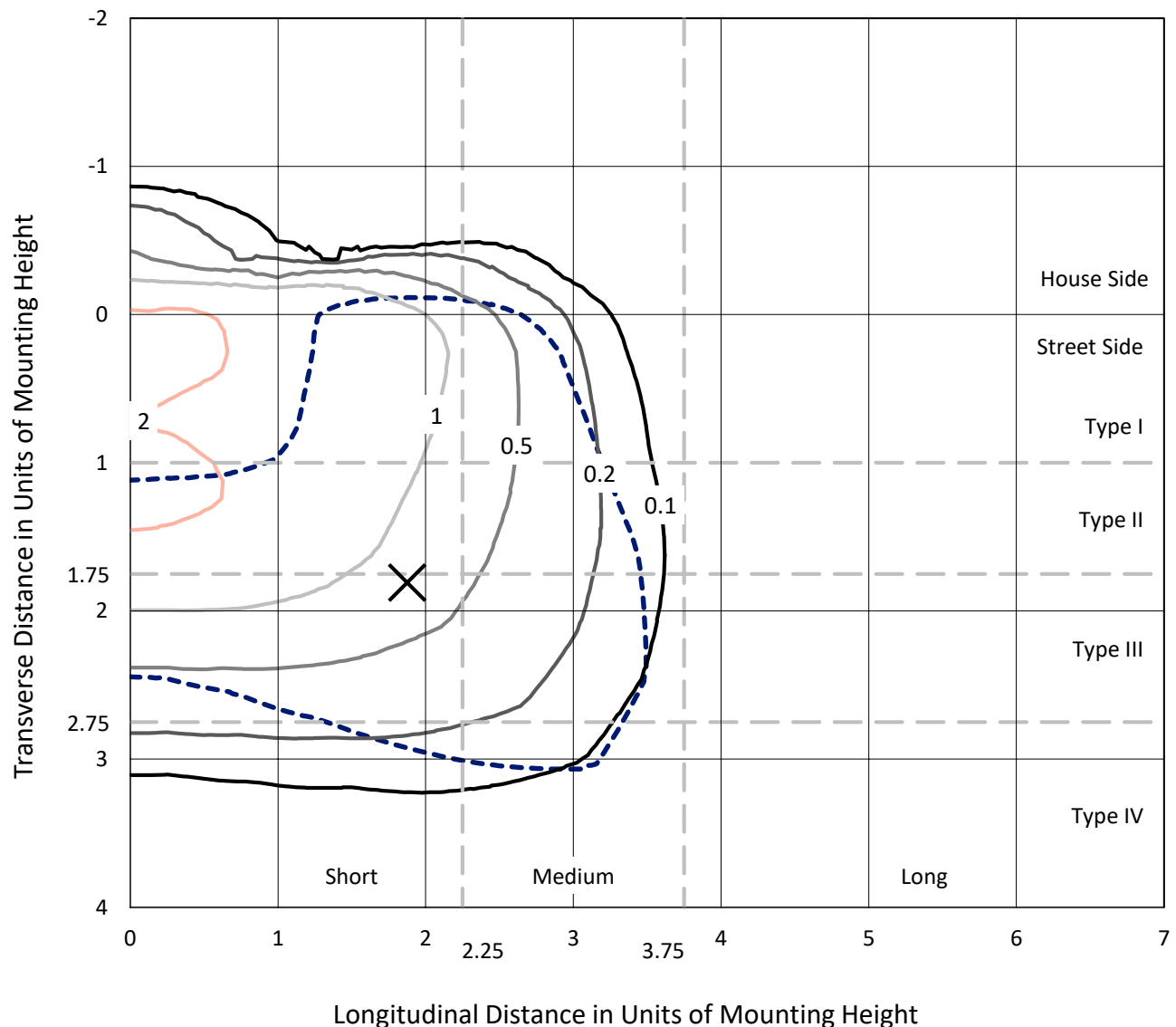
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322807
 CATALOG NUMBER: GAN-SA3C-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

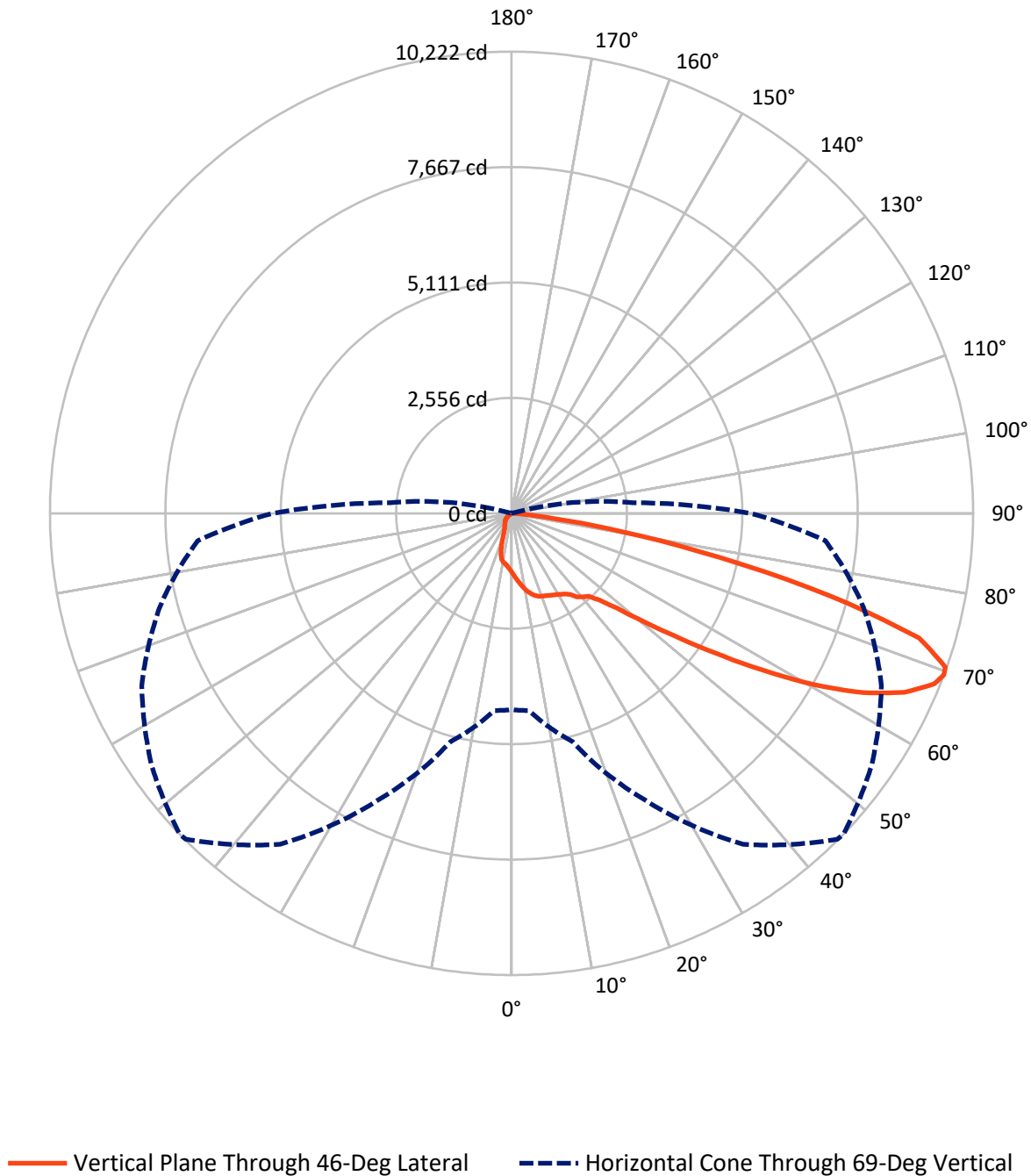
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P322807
CATALOG NUMBER: GAN-SA3C-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322807
 CATALOG NUMBER: GAN-SA3C-727-U-T4W-HSS

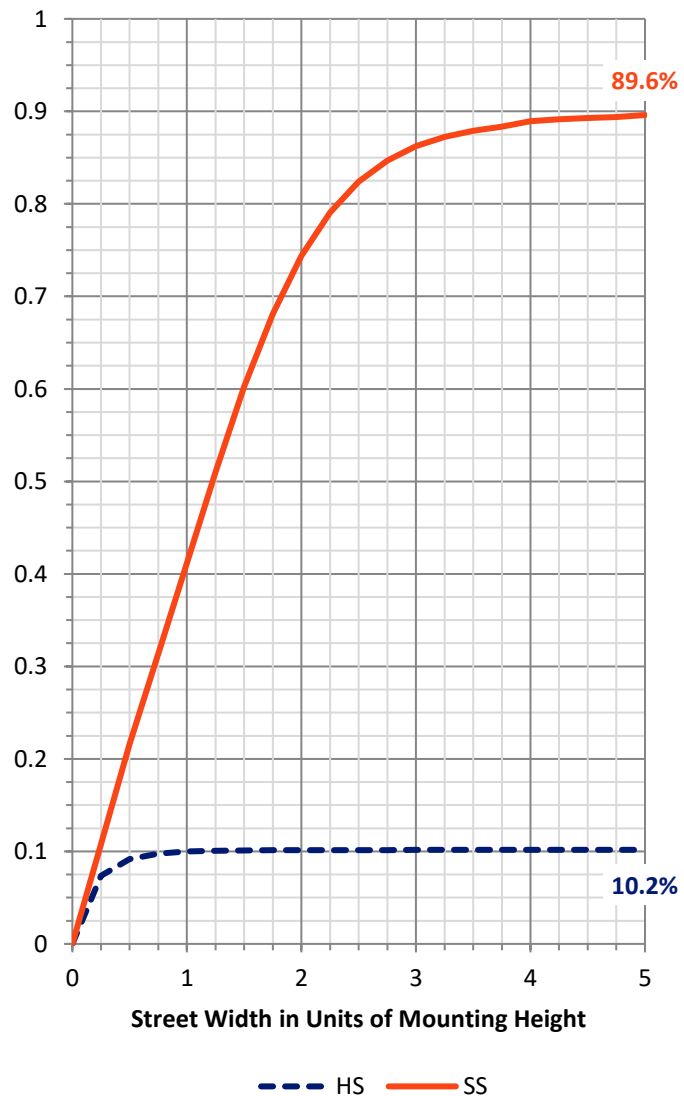
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.1	0.0	1343.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	11743.9	0.0	11743.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	13087.0	0.0	13087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	1.0
10°-20°	396.0	3.0
20°-30°	622.7	4.8
30°-40°	893.0	6.8
40°-50°	1543.4	11.8
50°-60°	3049.1	23.3
60°-70°	4261.4	32.6
70°-80°	2058.7	15.7
80°-90°	132.3	1.0
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°	13087.0	100.0
0°-180°	13087.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322807

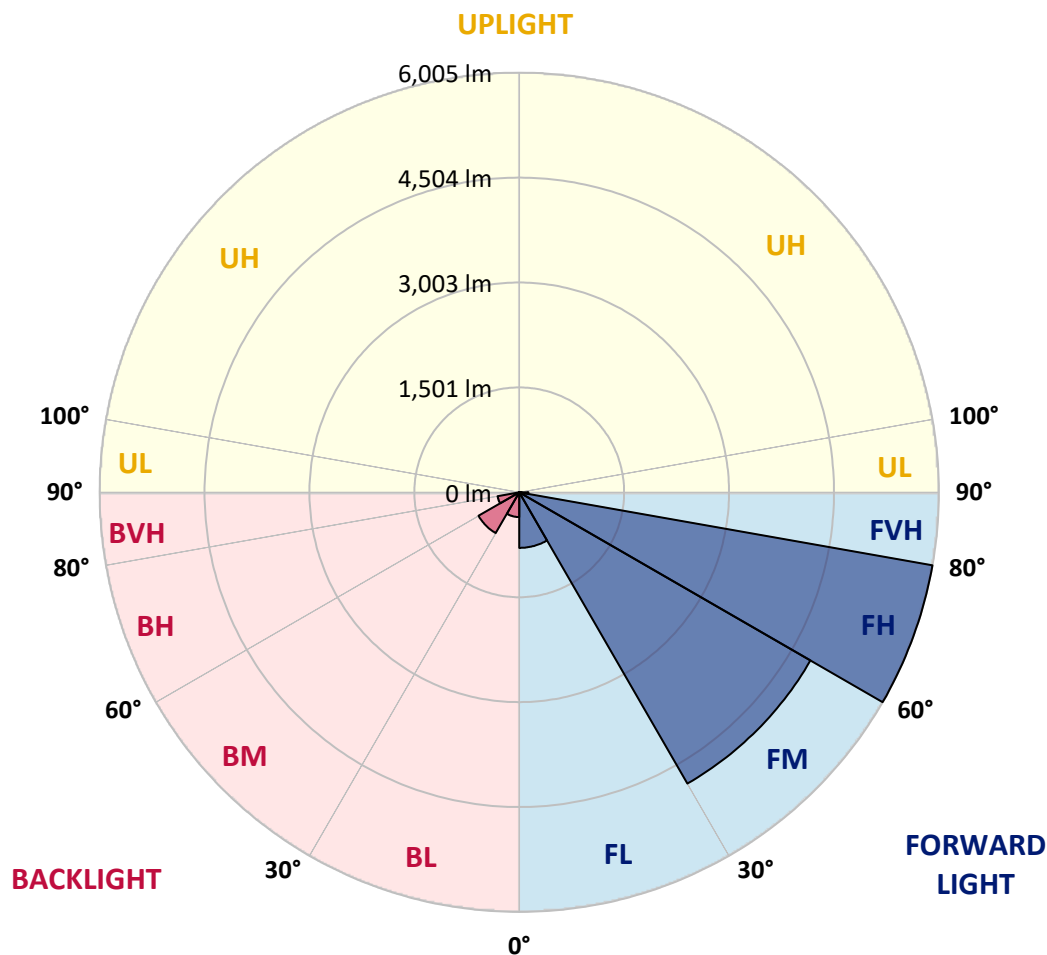
CATALOG NUMBER: GAN-SA3C-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.2	6.1			
FM	(30°-60°)	4812.4	36.8			
FH	(60°-80°)	6005.1	45.9			G3/7500
FVH	(80°-90°)	131.2	1.0			G2/225
BL	(0°-30°)	354.0	2.7	B1/500		
BM	(30°-60°)	673.1	5.1	B1/1000		
BH	(60°-80°)	314.9	2.4	B1/500		G1/500
BVH	(80°-90°)	1.1	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: P322807

CATALOG NUMBER: GAN-SA3C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3
2.5°	1456.7	1454.9	1446.3	1442.6	1421.7	1409.4	1404.5	1389.2	1367.1	1345.0	1320.5
5°	1622.4	1621.8	1605.8	1590.5	1551.2	1514.4	1507.6	1472.0	1422.3	1375.7	1329.1
7.5°	1791.7	1783.7	1767.8	1738.3	1681.3	1622.4	1616.8	1566.5	1496.0	1428.5	1361.6
10°	1935.3	1930.4	1909.5	1864.7	1797.9	1731.0	1724.2	1662.2	1582.5	1499.6	1414.4
12.5°	2047.0	2043.3	2015.7	1959.8	1888.7	1819.3	1810.1	1754.9	1669.6	1577.0	1476.3
15°	2115.1	2113.2	2079.5	2020.0	1950.0	1889.9	1881.9	1833.4	1754.3	1657.3	1543.8
17.5°	2131.0	2131.7	2096.7	2036.5	1978.9	1935.9	1929.8	1893.0	1826.7	1730.4	1611.3
20°	2095.5	2102.8	2071.5	2019.4	1983.8	1961.1	1956.2	1934.1	1878.2	1787.4	1665.3
22.5°	2045.1	2048.8	2027.3	1992.4	1977.6	1981.9	1979.5	1967.2	1920.0	1836.5	1718.7
25°	2014.5	2014.5	2001.6	1972.1	1981.9	2008.3	2008.9	2006.5	1969.1	1896.6	1783.7
27.5°	2013.2	2009.5	1994.8	1972.7	1999.7	2040.2	2042.7	2059.2	2035.9	1969.7	1864.7
30°	2062.3	2058.0	2026.7	1997.9	2032.3	2075.8	2082.0	2118.2	2106.5	2048.8	1954.9
32.5°	2177.1	2161.7	2092.4	2045.1	2070.9	2123.1	2131.0	2188.7	2207.1	2146.4	2042.1
35°	2334.1	2285.7	2185.7	2134.7	2137.2	2191.8	2199.2	2283.8	2338.4	2236.0	2109.6
37.5°	2550.7	2526.8	2364.2	2228.0	2239.0	2321.9	2343.3	2435.4	2420.0	2285.1	2186.3
40°	3025.7	2988.2	2815.2	2489.4	2336.6	2427.4	2434.2	2483.2	2484.5	2396.1	2345.8
42.5°	3672.4	3657.1	3474.8	2963.7	2528.7	2498.0	2510.2	2593.1	2685.7	2630.5	2628.1
45°	4388.5	4380.5	4187.2	3593.3	2917.1	2729.3	2744.6	2855.7	3033.0	3045.3	3123.2
47.5°	4964.7	4961.0	4849.9	4295.8	3511.6	3121.4	3126.3	3244.1	3555.8	3709.8	3834.4
50°	5489.9	5507.7	5420.0	5056.1	4321.6	3735.6	3724.0	3802.5	4303.2	4555.4	4710.0
52.5°	6220.1	6245.2	5999.2	5765.4	5171.4	4497.7	4488.5	4570.7	5201.5	5390.5	5418.1
55°	6865.0	6822.0	6627.5	6560.0	6207.8	5439.0	5436.5	5508.9	6070.4	6150.8	6201.7
57.5°	7149.7	7133.1	7227.0	7381.6	7293.3	6551.4	6545.9	6490.7	6847.8	6856.4	7012.9
60°	7329.5	7349.7	7637.5	8114.3	8334.6	7748.6	7713.0	7376.1	7590.3	7571.2	7738.8
62.5°	7194.5	7234.4	7752.3	8546.9	9113.8	8793.5	8743.2	8187.3	8224.7	8159.1	8314.9
65°	6477.8	6539.8	7388.4	8465.3	9500.4	9610.2	9559.3	8903.4	8728.5	8620.5	8534.0
67.5°	5259.8	5296.6	6182.7	7755.3	9326.1	10097.4	10087.0	9531.1	9108.9	8542.6	7871.3
69°	4346.8	4383.0	5235.9	7008.0	8942.6	10201.8	10222.0	9732.3	9036.5	8068.9	6974.2
70°	3681.6	3720.3	4514.9	6367.4	8497.8	10153.3	10189.5	9713.3	8829.1	7520.3	6187.0
72.5°	1931.0	1964.1	2779.6	4386.6	6927.6	9323.1	9432.9	8892.3	7484.1	5461.7	3658.3
75°	606.9	625.9	1085.5	2293.0	4743.1	7249.1	7274.3	6975.4	5314.4	3004.2	1523.6
77.5°	231.3	225.8	361.4	844.9	2398.0	4564.6	4718.6	4359.0	2788.8	1062.1	351.6
80°	124.6	125.2	187.8	349.8	1025.9	2345.8	2475.9	2112.6	991.0	331.3	81.0
82.5°	54.0	56.5	105.5	185.3	471.2	865.2	930.2	774.4	378.6	222.7	30.1
85°	11.7	12.9	50.9	100.6	192.1	243.0	254.6	251.0	241.1	173.0	11.7
87.5°	0.0	0.0	22.7	36.2	48.5	55.2	48.5	63.2	133.2	116.6	6.1
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: P322807

CATALOG NUMBER: GAN-SA3C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3
2.5°	1312.5	1301.5	1282.4	1261.6	1246.8	1231.5	1219.2	1213.7	1207.6	1203.3	1208.8
5°	1310.0	1288.6	1251.7	1216.2	1190.4	1169.5	1152.3	1145.6	1138.8	1133.9	1133.3
7.5°	1331.5	1301.5	1245.0	1192.8	1153.0	1124.7	1101.4	1091.6	1083.6	1079.9	1076.9
10°	1372.6	1334.0	1258.5	1190.4	1138.8	1091.0	1040.7	1002.0	976.9	965.2	960.9
12.5°	1426.0	1377.5	1284.3	1203.3	1128.4	1036.4	929.6	837.6	778.0	758.4	746.8
15°	1488.6	1428.5	1318.0	1219.8	1090.4	922.2	741.2	621.0	565.7	554.7	542.4
17.5°	1548.7	1482.5	1358.5	1222.9	1006.9	736.9	543.0	461.4	440.0	447.3	449.2
20°	1601.5	1535.8	1398.4	1195.9	855.4	552.9	420.3	400.1	408.0	422.2	424.6
22.5°	1654.9	1587.4	1435.2	1124.7	661.5	419.7	378.6	383.5	391.5	405.6	408.0
25°	1719.9	1650.0	1469.6	994.0	496.4	357.1	359.6	366.9	374.9	387.8	389.0
27.5°	1794.8	1729.1	1492.3	824.1	368.2	328.3	336.3	347.3	355.3	367.5	370.0
30°	1894.2	1833.4	1499.6	648.0	308.6	302.5	306.2	319.7	331.3	342.4	344.2
32.5°	1987.5	1936.5	1475.1	489.0	285.9	278.6	278.6	286.6	300.1	310.5	312.9
35°	2073.4	2040.2	1396.6	357.7	268.8	256.5	250.3	250.3	258.9	267.5	270.0
37.5°	2186.9	2185.7	1269.5	285.3	252.2	238.1	225.2	215.4	212.3	214.1	215.4
40°	2381.4	2383.2	1103.9	255.9	238.1	219.1	199.4	181.6	165.1	159.5	158.9
42.5°	2685.1	2657.5	930.2	241.8	225.8	199.4	170.0	146.0	120.3	112.3	111.7
45°	3167.4	3003.6	746.1	228.9	212.9	177.3	140.5	108.0	87.1	81.0	81.0
47.5°	3870.0	3458.3	578.0	214.8	195.7	152.2	106.2	77.9	63.8	60.7	61.4
50°	4596.5	3903.7	443.0	197.0	174.9	125.8	78.5	56.5	48.5	48.5	49.1
52.5°	5240.8	4230.2	345.5	177.9	149.1	98.8	59.5	44.2	40.5	39.9	40.5
55°	5843.9	4440.6	264.5	155.9	118.4	73.6	45.4	36.2	33.7	32.5	31.9
57.5°	6425.6	4545.0	198.2	125.8	85.9	53.4	36.2	30.7	28.2	26.4	25.8
60°	6812.8	4460.3	136.2	92.7	59.5	38.7	30.1	26.4	23.3	21.5	20.9
62.5°	7031.3	4228.9	87.7	66.9	42.3	28.8	23.9	22.1	17.8	16.0	16.0
65°	6942.9	3847.3	61.4	47.9	30.7	21.5	17.8	17.8	12.9	10.4	9.8
67.5°	6152.6	3250.3	46.6	35.6	22.1	16.0	13.5	15.3	8.0	4.9	4.9
69°	5293.5	2693.7	39.9	29.5	18.4	12.9	11.7	14.1	5.5	3.7	3.1
70°	4600.8	2323.7	36.2	25.8	15.3	11.0	10.4	13.5	5.5	3.1	2.5
72.5°	2752.6	1295.9	27.6	18.4	9.8	8.6	8.6	15.3	5.5	3.1	2.5
75°	1112.5	456.5	20.2	12.9	7.4	7.4	10.4	19.6	4.9	2.5	1.8
77.5°	252.2	100.0	11.7	8.0	4.9	7.4	12.3	15.3	3.1	1.2	0.0
80°	61.4	24.5	7.4	4.9	3.1	5.5	9.2	8.6	0.6	0.0	0.0
82.5°	20.2	8.6	3.1	2.5	0.6	1.8	4.3	2.5	0.0	0.0	0.0
85°	8.6	4.9	1.2	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	5.5	1.8	0.0	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)