

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: P318646

Luminaire Tested: **GAN-SA2C-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12174 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

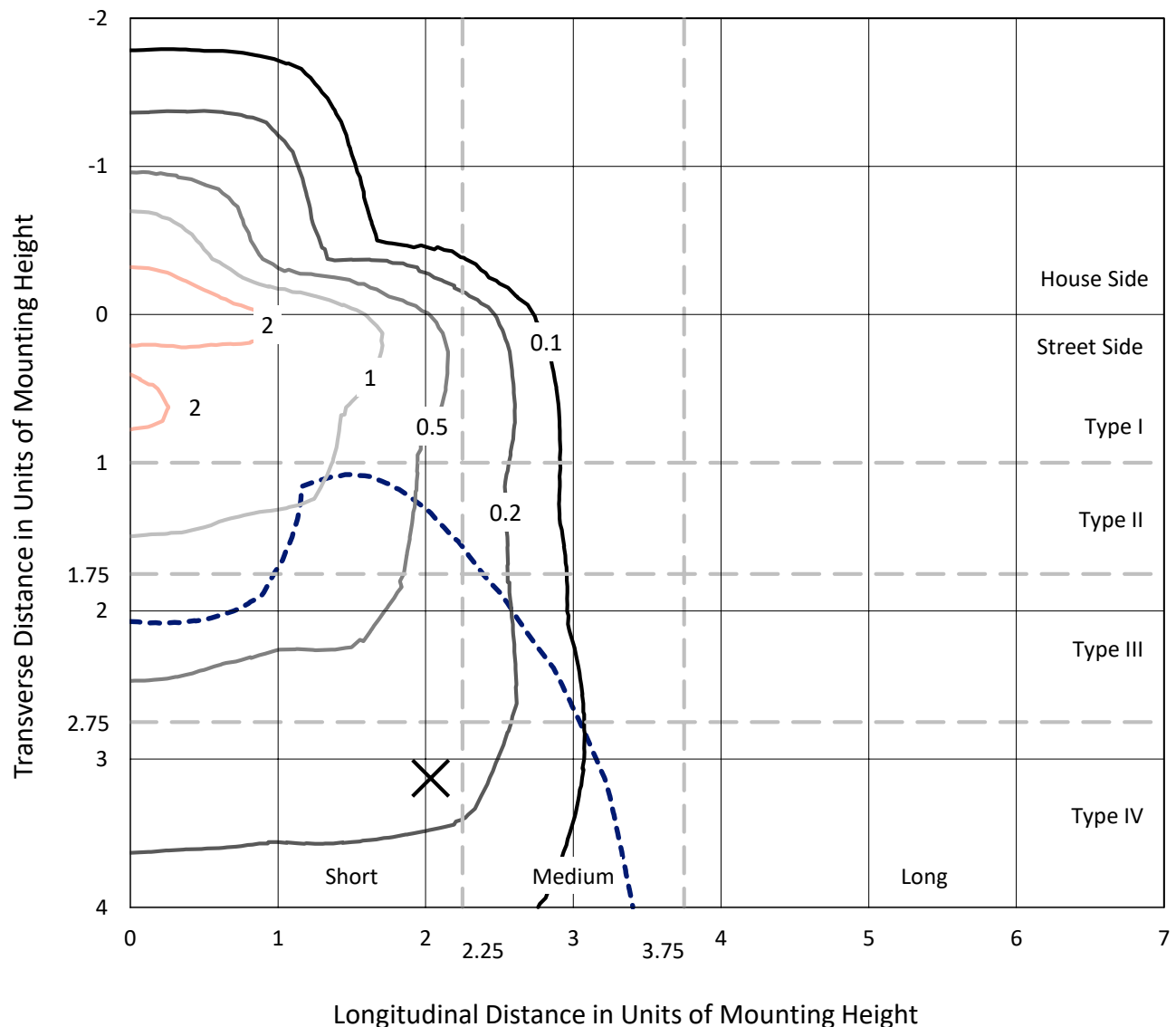
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318646
 CATALOG NUMBER: GAN-SA2C-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

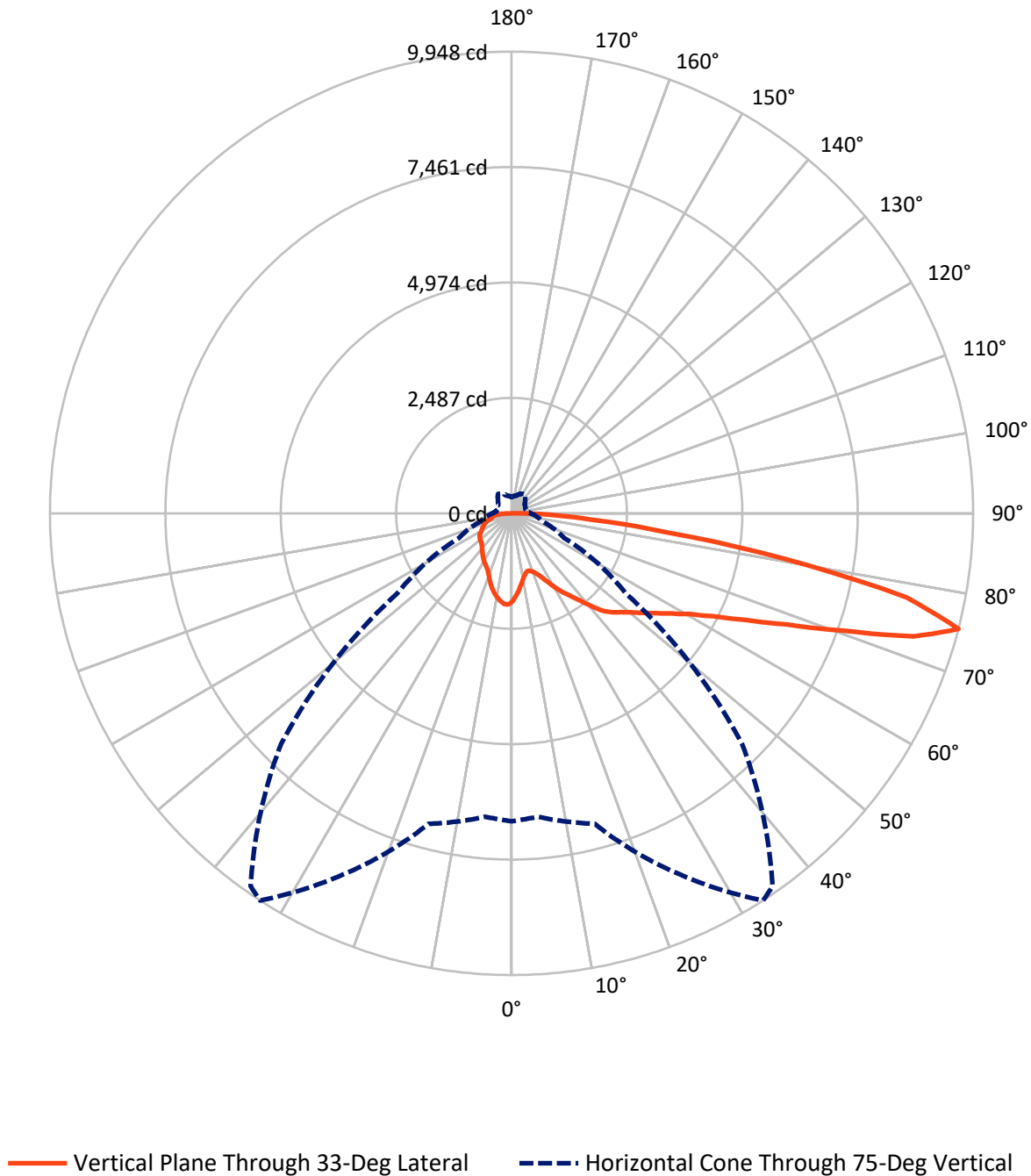
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

REPORT NUMBER: P318646
CATALOG NUMBER: GAN-SA2C-727-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318646

CATALOG NUMBER: GAN-SA2C-727-U-T4FT

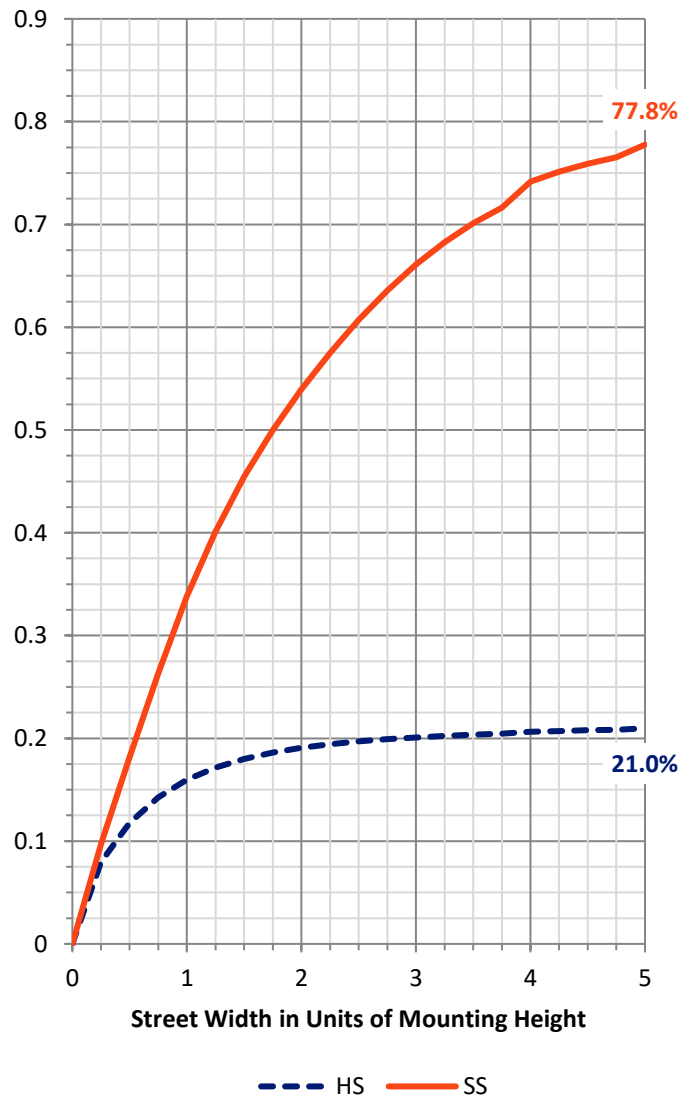
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.1	0.0	2614.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9559.9	0.0	9559.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	12174.0	0.0	12174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	1.4
10°-20°	466.1	3.8
20°-30°	761.2	6.3
30°-40°	1133.6	9.3
40°-50°	1625.9	13.4
50°-60°	2232.1	18.3
60°-70°	2794.5	23.0
70°-80°	2528.0	20.8
80°-90°	460.5	3.8
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°	12174.0	100.0
0°-180°	12174.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318646

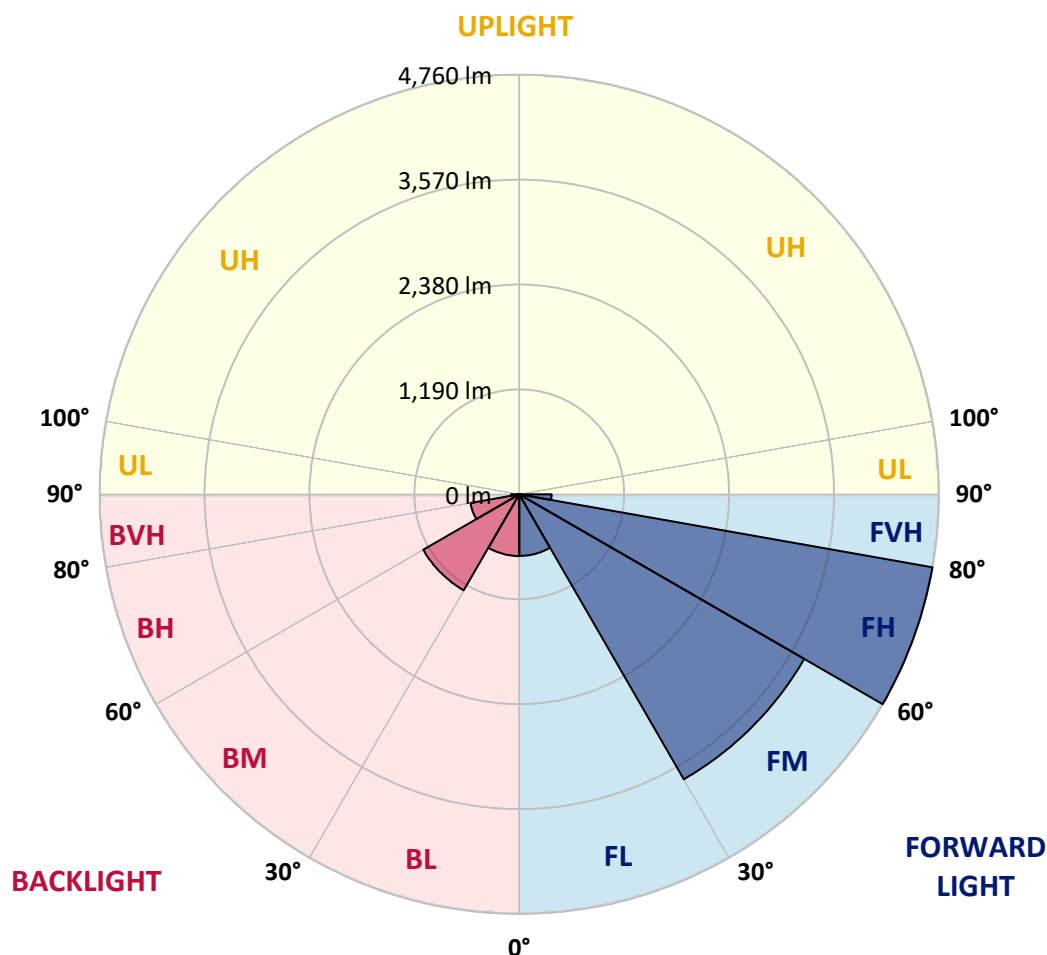
CATALOG NUMBER: GAN-SA2C-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.2	5.7			
FM	(30°-60°)	3733.5	30.7			
FH	(60°-80°)	4760.5	39.1			G2/5000
FVH	(80°-90°)	366.7	3.0			G3/500
BL	(0°-30°)	700.2	5.8	B2/1000		
BM	(30°-60°)	1258.1	10.3	B2/2500		
BH	(60°-80°)	562.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	93.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P318646

CATALOG NUMBER: GAN-SA2C-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9
2.5°	1767.0	1760.3	1772.9	1774.6	1785.5	1789.7	1804.9	1828.4	1847.8	1870.1	1890.2
5°	1606.8	1602.2	1619.9	1632.5	1656.4	1666.5	1702.3	1752.3	1796.9	1847.4	1893.2
7.5°	1454.6	1452.1	1471.8	1500.4	1528.2	1542.1	1603.9	1676.6	1751.1	1832.6	1902.9
10°	1326.3	1325.5	1344.4	1372.6	1413.4	1428.9	1508.8	1604.7	1709.0	1821.3	1919.3
12.5°	1254.4	1257.4	1266.2	1289.7	1327.6	1343.1	1431.9	1544.6	1673.7	1817.5	1943.2
15°	1272.1	1276.7	1261.6	1260.7	1287.6	1299.8	1383.1	1501.7	1648.4	1823.8	1978.1
17.5°	1347.4	1348.2	1308.2	1283.0	1299.4	1305.7	1368.0	1477.3	1633.7	1838.1	2021.9
20°	1453.3	1451.2	1380.6	1338.5	1347.4	1349.0	1389.4	1477.7	1632.5	1862.9	2078.6
22.5°	1593.8	1578.2	1483.2	1426.0	1423.9	1421.4	1444.5	1508.8	1651.0	1903.3	2146.3
25°	1777.1	1762.4	1631.6	1553.4	1536.6	1530.3	1533.6	1575.3	1687.6	1946.6	2222.0
27.5°	1981.1	1955.4	1829.3	1718.7	1683.8	1674.9	1654.8	1669.1	1727.5	1988.2	2312.0
30°	2151.8	2137.9	2027.8	1896.6	1855.3	1842.7	1789.7	1774.2	1785.1	2045.0	2425.6
32.5°	2247.3	2238.0	2171.2	2065.2	2026.9	2009.3	1934.4	1903.3	1877.6	2134.6	2579.5
35°	2362.9	2357.0	2316.7	2239.7	2182.9	2164.4	2106.4	2074.0	2008.0	2257.8	2778.4
37.5°	2510.1	2503.8	2504.6	2442.4	2374.7	2357.4	2319.2	2285.1	2177.0	2419.7	2994.5
40°	2676.6	2664.4	2659.8	2656.9	2614.0	2604.3	2584.1	2537.9	2389.0	2613.1	3207.7
42.5°	2927.3	2883.9	2791.4	2826.3	2868.8	2863.8	2880.2	2813.7	2624.5	2841.9	3415.9
45°	3169.1	3098.0	2938.2	2945.8	3038.7	3066.9	3189.7	3142.6	2879.7	3092.5	3631.2
47.5°	3279.2	3225.4	3089.6	3090.0	3182.1	3240.5	3509.7	3476.0	3148.0	3377.2	3894.0
50°	3402.4	3348.6	3226.7	3272.5	3352.8	3415.1	3818.8	3801.5	3403.3	3688.8	4209.0
52.5°	3537.0	3445.8	3368.4	3450.4	3563.1	3635.4	4128.3	4081.2	3637.5	4002.5	4571.1
55°	3538.7	3513.9	3572.8	3632.9	3801.5	3890.3	4452.5	4328.0	3828.4	4310.8	4865.9
57.5°	3740.1	3699.8	3824.7	3852.4	4072.8	4172.8	4775.0	4542.9	4022.7	4547.1	5024.8
60°	4006.7	3972.3	4074.4	4147.6	4408.3	4542.1	5119.4	4763.7	4175.4	4725.4	5017.3
62.5°	4467.2	4428.1	4426.8	4529.4	4880.6	5036.2	5505.9	4980.2	4235.9	4760.7	4803.2
65°	5141.3	5079.1	4961.7	5010.5	5532.8	5688.0	5937.8	5137.1	4156.0	4571.5	4251.9
67.5°	5797.3	5795.2	5651.0	5751.1	6394.0	6518.5	6429.8	5152.7	3906.7	3912.5	3273.8
70°	6451.2	6459.6	6435.3	6783.4	7557.6	7687.2	6953.8	4943.7	3346.1	2825.5	1961.3
72.5°	6969.3	6967.2	7090.0	7987.8	9067.7	9038.7	7395.3	4310.4	2402.4	1525.2	937.3
75°	6633.7	6560.6	6926.4	8584.1	9947.9	9806.2	7019.8	3006.7	1246.8	694.3	504.6
77.5°	4326.8	4396.1	4933.1	7091.3	8701.5	8529.0	5150.1	1402.9	587.5	455.4	365.9
80°	1566.9	1640.0	2309.9	4016.8	5995.0	5966.8	2536.2	576.5	397.4	344.0	266.6
82.5°	539.1	566.0	911.3	1783.9	3384.8	3510.9	954.2	327.6	288.9	243.9	182.5
85°	211.5	242.2	416.7	858.3	1707.3	1719.9	386.5	196.0	201.0	159.8	100.1
87.5°	80.3	97.6	199.3	398.7	779.6	716.1	138.4	93.4	114.4	95.0	47.5
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: P318646

CATALOG NUMBER: GAN-SA2C-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9	1902.9
2.5°	1905.8	1914.6	1933.1	1945.8	1959.2	1963.0	1964.7	1968.0	1971.4	1970.1	1970.6
5°	1917.6	1934.8	1964.7	1977.3	1983.2	1976.5	1963.4	1952.9	1945.3	1941.1	1939.9
7.5°	1936.9	1961.3	1993.3	1991.2	1977.7	1947.9	1914.2	1889.0	1868.0	1860.4	1856.2
10°	1962.6	1991.2	2013.5	1989.5	1950.4	1898.7	1848.2	1809.1	1777.5	1765.4	1763.3
12.5°	1995.4	2024.4	2028.6	1977.7	1913.0	1842.3	1773.8	1722.0	1674.9	1659.8	1656.4
15°	2037.9	2065.2	2039.1	1957.1	1866.7	1771.7	1682.9	1612.7	1563.1	1544.6	1537.9
17.5°	2082.4	2108.5	2041.2	1923.0	1806.1	1688.0	1576.5	1504.6	1447.9	1426.4	1423.9
20°	2135.8	2147.6	2032.4	1874.3	1722.9	1579.5	1462.2	1394.5	1364.2	1349.0	1347.4
22.5°	2201.9	2189.2	2012.2	1808.2	1617.3	1454.2	1358.7	1327.2	1319.6	1316.2	1317.5
25°	2271.7	2233.0	1982.3	1722.0	1484.0	1328.9	1283.0	1291.8	1301.9	1300.7	1300.7
27.5°	2348.6	2277.6	1936.5	1607.7	1336.4	1226.2	1231.7	1264.1	1279.2	1278.8	1278.4
30°	2447.4	2328.0	1878.1	1470.1	1198.5	1153.9	1187.1	1226.7	1247.3	1246.4	1246.8
32.5°	2569.0	2383.5	1798.6	1316.7	1098.8	1100.5	1138.8	1177.9	1201.9	1199.8	1200.2
35°	2711.1	2445.8	1690.9	1165.3	1032.8	1058.0	1088.3	1115.6	1138.4	1135.4	1132.5
37.5°	2865.9	2506.7	1547.9	1029.9	979.0	1018.5	1043.7	1048.4	1058.9	1051.3	1045.8
40°	3013.0	2553.4	1363.8	918.8	924.7	984.9	1001.3	982.8	963.8	961.3	953.7
42.5°	3141.3	2569.0	1177.5	830.1	867.5	949.5	959.6	920.9	886.9	870.9	864.2
45°	3276.7	2574.4	1003.8	755.7	812.4	918.0	928.9	877.2	829.3	794.8	783.4
47.5°	3453.8	2614.0	868.8	700.6	770.4	897.0	912.5	842.3	780.1	730.9	720.4
50°	3685.5	2692.2	759.0	658.5	743.1	883.1	900.8	808.2	739.7	680.4	669.9
52.5°	3942.8	2764.1	670.3	624.5	716.6	858.7	885.6	783.9	701.9	633.7	622.4
55°	4122.8	2709.0	598.8	589.2	682.1	823.8	864.6	763.2	647.6	588.3	578.2
57.5°	4157.3	2520.6	544.6	552.6	640.5	780.1	832.2	717.4	618.2	568.5	558.0
60°	4063.1	2258.2	504.2	518.9	595.9	725.0	771.7	685.0	590.0	547.5	538.7
62.5°	3826.3	1989.5	474.3	488.6	554.2	669.1	733.8	651.0	561.4	523.6	514.7
65°	3348.2	1670.3	445.8	461.7	515.6	620.7	699.7	619.4	533.2	504.2	495.8
67.5°	2527.3	1251.1	418.8	433.1	481.1	578.6	662.7	588.3	505.9	487.4	477.3
70°	1488.2	783.4	388.1	403.3	444.9	534.9	623.2	554.2	471.8	463.4	450.4
72.5°	692.6	471.4	353.2	368.0	399.5	476.5	572.3	509.7	431.5	413.0	395.3
75°	413.4	344.8	312.0	325.1	347.4	414.2	508.4	464.3	393.2	368.8	350.3
77.5°	309.1	263.7	266.6	280.5	298.6	362.5	450.4	428.5	363.8	344.8	332.2
80°	222.5	200.2	217.4	232.5	251.5	329.7	431.5	396.1	328.8	303.6	291.8
82.5°	148.4	143.8	163.6	179.1	197.6	288.5	405.4	346.9	280.9	248.9	222.9
85°	82.0	86.6	110.2	116.9	132.9	203.1	332.2	278.8	211.5	170.3	162.7
87.5°	34.1	39.9	59.3	57.2	70.6	121.1	218.7	168.2	134.6	100.5	78.2
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)