

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: P322478

Luminaire Tested: **GAN-SA4B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322478
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-SA4B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 13690 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

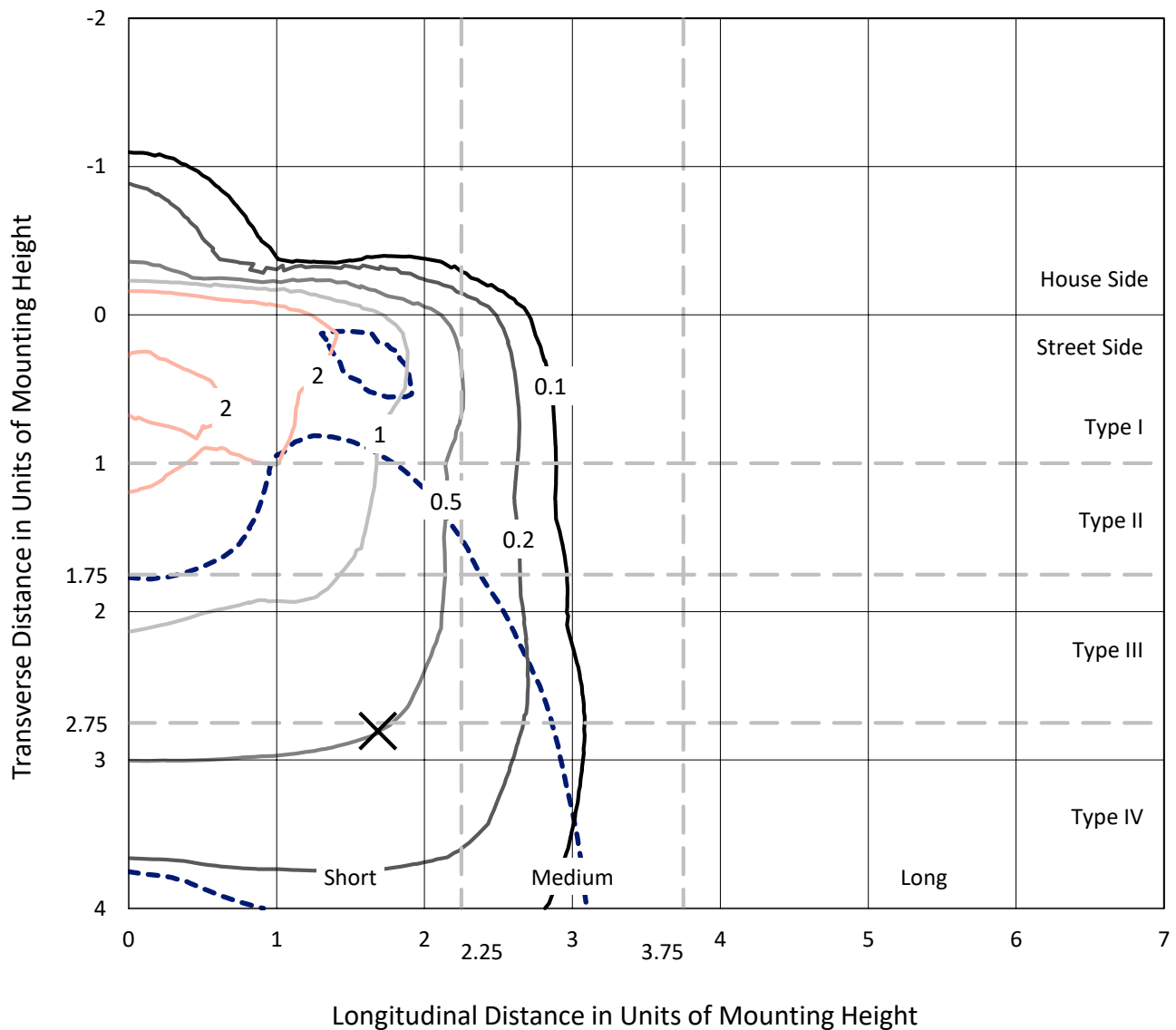
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322478
CATALOG NUMBER: GAN-SA4B-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

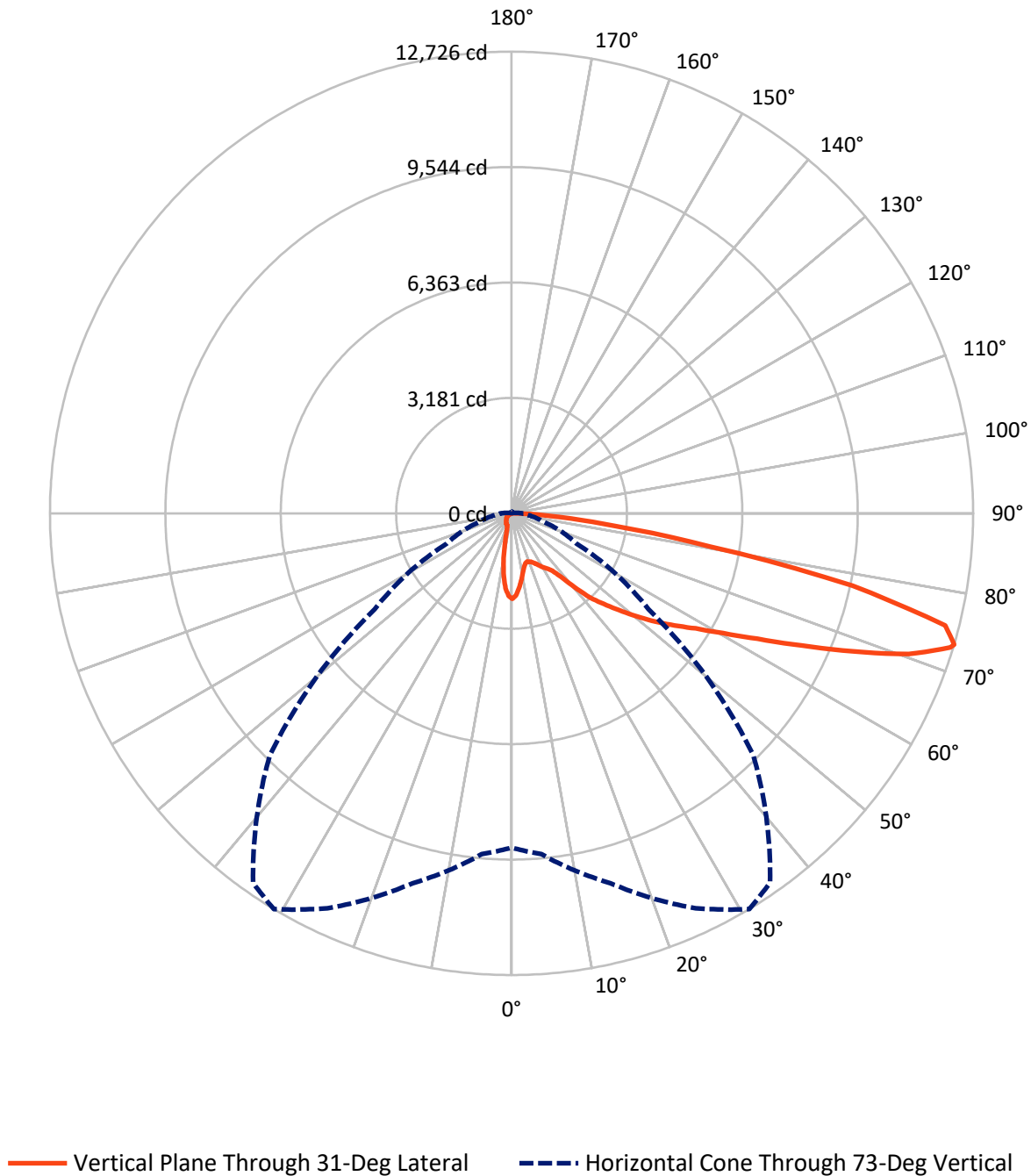
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

REPORT NUMBER: P322478
CATALOG NUMBER: GAN-SA4B-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322478

CATALOG NUMBER: GAN-SA4B-727-U-T4FT-HSS

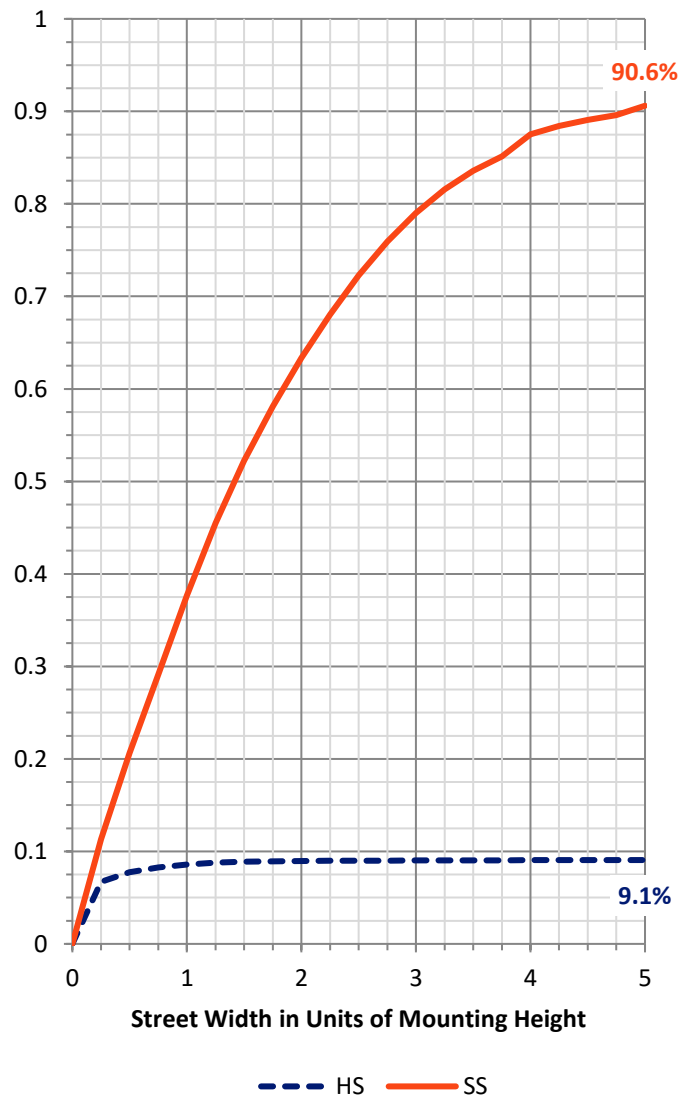
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.9	0.0	1247.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	12442.1	0.0	12442.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	13690.0	0.0	13690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	1.4
10°-20°	424.0	3.1
20°-30°	635.3	4.6
30°-40°	1010.8	7.4
40°-50°	1805.1	13.2
50°-60°	2800.9	20.5
60°-70°	3723.4	27.2
70°-80°	2800.8	20.5
80°-90°	294.3	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°	13690.0	100.0
0°-180°	13690.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322478

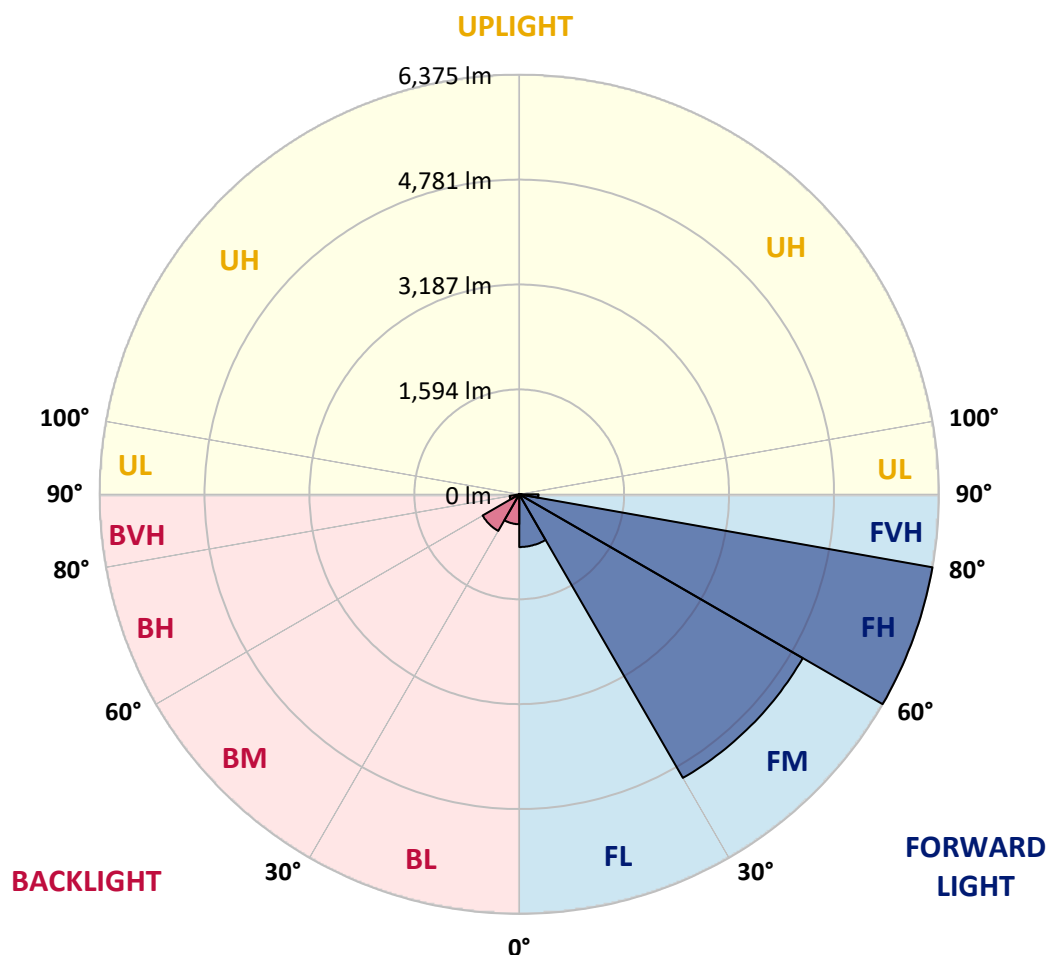
CATALOG NUMBER: GAN-SA4B-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.9	5.9			
FM	(30°-60°)	4974.5	36.3			
FH	(60°-80°)	6374.9	46.6			G3/7500
FVH	(80°-90°)	291.8	2.1			G3/500
BL	(0°-30°)	453.8	3.3	B1/500		
BM	(30°-60°)	642.3	4.7	B1/1000		
BH	(60°-80°)	149.3	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G3

Type IV Short





REPORT NUMBER: P322478

CATALOG NUMBER: GAN-SA4B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4
2.5°	2232.1	2241.5	2251.6	2253.6	2270.3	2271.0	2295.1	2313.2	2331.3	2348.7	2354.7
5°	2003.0	2018.4	2036.5	2054.6	2090.1	2104.2	2163.1	2223.4	2281.0	2336.0	2362.8
7.5°	1758.5	1775.9	1801.4	1846.3	1885.8	1913.3	2006.4	2113.6	2220.7	2321.9	2380.2
10°	1535.4	1551.5	1578.3	1625.9	1686.8	1724.3	1849.6	1998.3	2155.8	2309.2	2406.3
12.5°	1393.4	1402.1	1416.9	1467.8	1522.7	1564.9	1712.3	1896.5	2102.2	2308.5	2448.5
15°	1367.3	1370.0	1357.9	1380.7	1423.6	1464.4	1613.8	1814.1	2061.3	2319.2	2503.4
17.5°	1408.8	1407.5	1367.3	1364.6	1398.8	1432.3	1565.6	1757.2	2032.5	2344.0	2574.5
20°	1471.8	1467.1	1397.4	1384.7	1420.9	1452.4	1562.2	1735.7	2021.8	2385.5	2660.9
22.5°	1555.5	1547.5	1438.3	1424.9	1463.7	1496.6	1603.8	1756.5	2031.2	2441.1	2761.4
25°	1659.4	1647.3	1508.6	1493.9	1533.4	1566.2	1678.1	1816.1	2059.3	2508.8	2888.6
27.5°	1776.6	1759.2	1621.2	1583.0	1627.9	1662.0	1777.3	1907.2	2103.5	2580.5	3044.7
30°	1887.1	1864.4	1739.7	1676.8	1731.7	1769.9	1884.4	2015.7	2174.5	2691.0	3258.4
32.5°	1998.3	1972.9	1845.6	1770.6	1820.1	1861.7	1995.0	2165.1	2307.8	2859.8	3542.5
35°	2254.2	2227.4	2071.4	1947.4	1946.7	1970.2	2149.7	2369.5	2484.0	3095.0	3881.4
37.5°	2685.0	2669.6	2520.9	2285.7	2222.8	2196.6	2360.8	2613.3	2737.2	3418.5	4264.0
40°	3156.6	3143.2	2976.4	2763.4	2667.6	2603.3	2663.5	2952.9	3095.0	3813.8	4654.5
42.5°	3689.2	3625.5	3328.1	3264.5	3178.7	3129.8	3075.5	3371.6	3534.4	4243.9	5041.7
45°	4172.8	4065.7	3679.8	3583.3	3563.9	3576.0	3606.1	3934.4	4028.8	4755.0	5427.6
47.5°	4460.9	4376.5	4080.4	3988.0	3982.6	4062.3	4290.1	4570.1	4521.2	5200.5	5767.2
50°	4734.9	4658.5	4412.7	4435.5	4460.2	4568.8	5066.5	5223.9	4970.7	5604.4	6078.7
52.5°	4956.6	4840.1	4711.5	4839.4	4961.3	5136.2	5867.7	5810.8	5289.6	5926.0	6345.4
55°	5084.6	5031.7	5094.0	5222.6	5451.7	5735.7	6624.0	6299.1	5522.7	6219.4	6522.9
57.5°	5553.5	5449.7	5573.6	5684.8	5983.6	6380.9	7271.8	6662.9	5690.9	6401.0	6563.7
60°	6120.9	6037.2	6110.2	6295.1	6698.4	7165.3	7877.4	6959.7	5778.6	6517.5	6457.9
62.5°	7024.0	6913.4	6867.9	7074.9	7609.5	8119.3	8337.0	7165.3	5759.2	6465.9	6094.8
65°	8233.8	8119.3	7915.6	8103.2	8783.1	9142.9	8850.8	7208.9	5625.2	6048.6	5177.0
67.5°	9473.2	9390.1	9215.9	9532.1	10145.7	10261.6	9394.1	7103.0	5193.8	4904.4	3657.7
70°	10291.8	10256.3	10369.5	11068.9	11616.2	11582.7	9892.5	6534.3	4048.2	3015.9	1809.4
72.5°	9701.6	9871.7	10707.8	11975.9	12644.5	12371.2	9636.6	5017.6	2313.9	1160.3	523.2
73°	9212.6	9430.3	10555.7	12010.1	12725.6	12426.1	9421.6	4605.6	1972.2	915.8	396.6
75°	6409.0	6676.3	8738.9	11185.4	12346.4	11839.3	7853.3	2819.0	913.8	406.0	160.1
77.5°	3111.7	3309.3	4811.9	8081.8	9601.8	9250.1	4889.0	1050.4	412.7	253.9	73.7
80°	1161.6	1291.6	2088.8	4113.2	5548.8	5694.2	2150.4	397.3	274.7	204.3	37.5
82.5°	304.1	339.0	770.4	1834.2	2843.8	2976.4	677.9	200.3	201.0	168.1	22.8
85°	97.1	111.2	240.5	823.3	1339.8	1176.4	176.9	97.1	146.0	125.3	12.7
87.5°	12.1	15.4	76.4	193.6	295.4	164.1	27.5	28.8	62.3	69.7	7.4
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: P322478

CATALOG NUMBER: GAN-SA4B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4
2.5°	2360.8	2357.4	2358.1	2340.7	2329.3	2306.5	2283.0	2272.3	2260.9	2256.2	2260.9
5°	2372.8	2366.8	2349.4	2295.8	2238.8	2165.1	2096.1	2043.9	1978.2	1960.1	1978.9
7.5°	2391.6	2379.5	2328.6	2219.4	2092.8	1952.1	1794.0	1678.8	1584.3	1523.4	1545.5
10°	2419.0	2396.3	2293.8	2108.2	1881.8	1632.6	1408.1	1233.3	1109.4	1058.5	1056.4
12.5°	2465.3	2422.4	2250.9	1963.5	1623.9	1291.6	997.5	807.9	707.4	642.4	641.1
15°	2516.2	2453.2	2196.6	1790.0	1323.7	925.1	642.4	498.4	433.4	412.7	410.0
17.5°	2578.5	2488.7	2126.3	1576.3	1009.5	613.0	419.4	377.8	375.1	373.1	373.1
20°	2656.9	2530.9	2035.8	1331.8	716.1	409.3	356.4	359.1	360.4	357.7	358.4
22.5°	2748.0	2573.8	1928.0	1069.2	484.3	342.3	341.0	344.3	345.7	344.3	345.0
25°	2853.8	2623.4	1796.7	793.8	349.7	324.9	328.3	332.9	336.3	336.3	336.3
27.5°	2985.1	2683.6	1638.6	554.0	302.1	306.8	316.2	324.9	329.6	330.9	330.9
30°	3155.9	2758.7	1449.0	379.8	274.7	282.7	300.1	316.9	325.6	326.9	327.6
32.5°	3371.6	2843.1	1229.3	280.7	251.2	257.2	276.0	304.1	320.9	323.6	323.6
35°	3618.8	2940.9	992.8	244.5	234.5	236.5	251.2	283.4	312.8	320.2	320.9
37.5°	3889.5	3037.4	755.0	228.4	220.4	220.4	231.1	258.6	293.4	316.2	318.9
40°	4142.0	3095.6	529.2	215.7	207.7	207.7	217.0	237.1	270.0	304.1	311.5
42.5°	4375.2	3115.7	368.4	203.7	195.6	197.6	205.7	221.7	246.5	280.7	287.4
45°	4615.0	3112.4	268.6	189.6	183.6	189.6	195.6	207.7	225.8	245.2	246.5
47.5°	4795.9	3084.3	213.0	176.2	172.2	180.2	185.6	193.6	203.7	202.3	202.3
50°	4965.3	3015.9	171.5	158.1	160.8	170.2	172.8	175.5	176.2	163.5	162.1
52.5°	5094.0	2909.4	137.3	138.7	149.4	158.8	156.1	152.1	145.4	130.0	127.3
55°	5136.8	2704.4	107.9	114.6	132.6	144.7	134.7	125.9	113.2	100.5	97.8
57.5°	5059.1	2439.8	87.8	89.1	111.9	121.9	110.5	100.5	86.4	75.7	73.7
60°	4894.3	2145.7	72.3	67.0	86.4	95.1	87.8	77.7	65.0	56.9	56.3
62.5°	4567.4	1832.2	59.6	52.3	65.7	73.0	68.3	61.0	50.2	44.9	44.2
65°	3880.1	1465.8	48.2	42.2	50.9	56.9	52.9	47.6	39.5	35.5	34.8
67.5°	2708.4	990.8	39.5	34.8	40.2	44.9	41.5	38.9	31.5	30.8	31.5
70°	1306.3	477.6	32.8	28.1	31.5	34.8	33.5	31.5	30.1	34.8	40.2
72.5°	374.5	160.1	26.1	23.4	25.5	27.5	28.8	28.1	32.8	42.2	48.9
73°	288.1	129.3	24.8	22.1	24.1	26.8	28.1	27.5	33.5	42.9	48.9
75°	123.3	62.3	18.8	18.1	20.1	23.4	24.8	24.8	33.5	43.5	46.9
77.5°	55.6	33.5	12.1	14.1	17.4	18.8	20.8	20.8	26.8	33.5	33.5
80°	31.5	18.1	9.4	10.7	12.7	12.7	12.7	11.4	12.1	13.4	14.7
82.5°	20.1	12.1	7.4	8.7	8.0	6.7	5.4	5.4	4.7	5.4	6.7
85°	11.4	6.7	6.7	5.4	3.3	2.7	3.3	2.7	0.7	0.0	0.7
87.5°	6.7	4.0	2.0	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)