

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: P321208

Luminaire Tested: **GAN-SA4C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19260 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

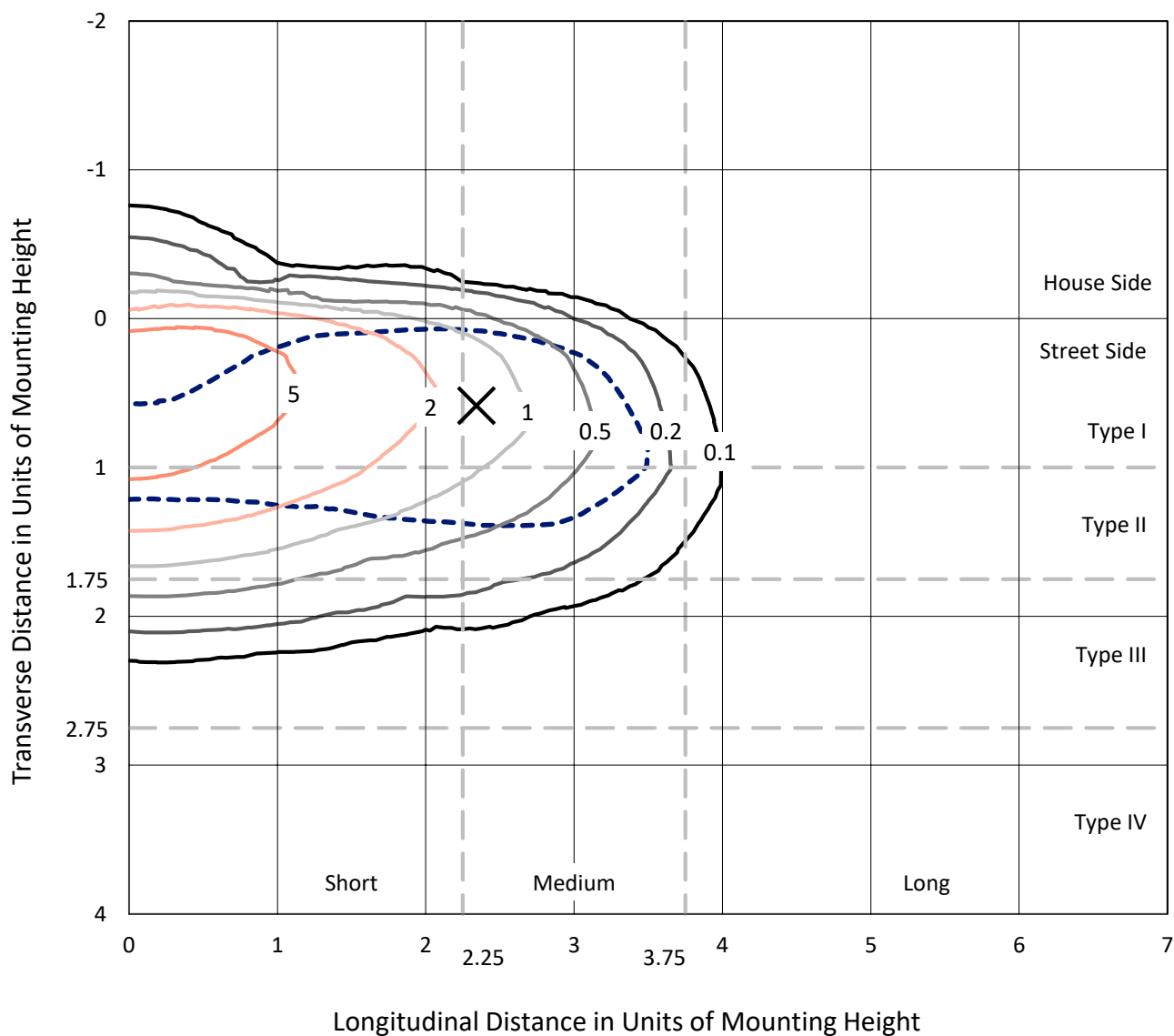
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321208
 CATALOG NUMBER: GAN-SA4C-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

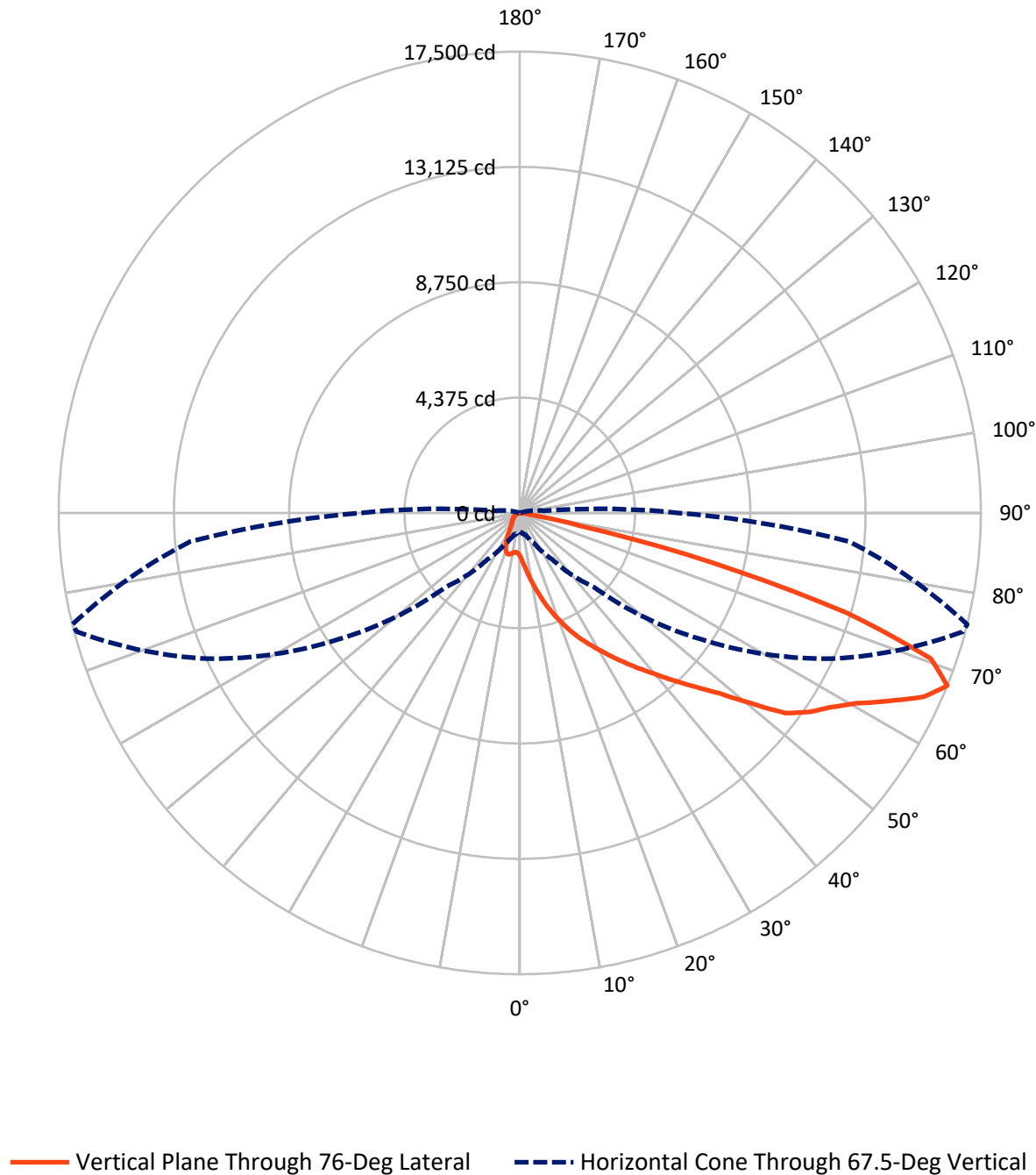
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P321208
CATALOG NUMBER: GAN-SA4C-727-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321208

CATALOG NUMBER: GAN-SA4C-727-U-T2R-HSS

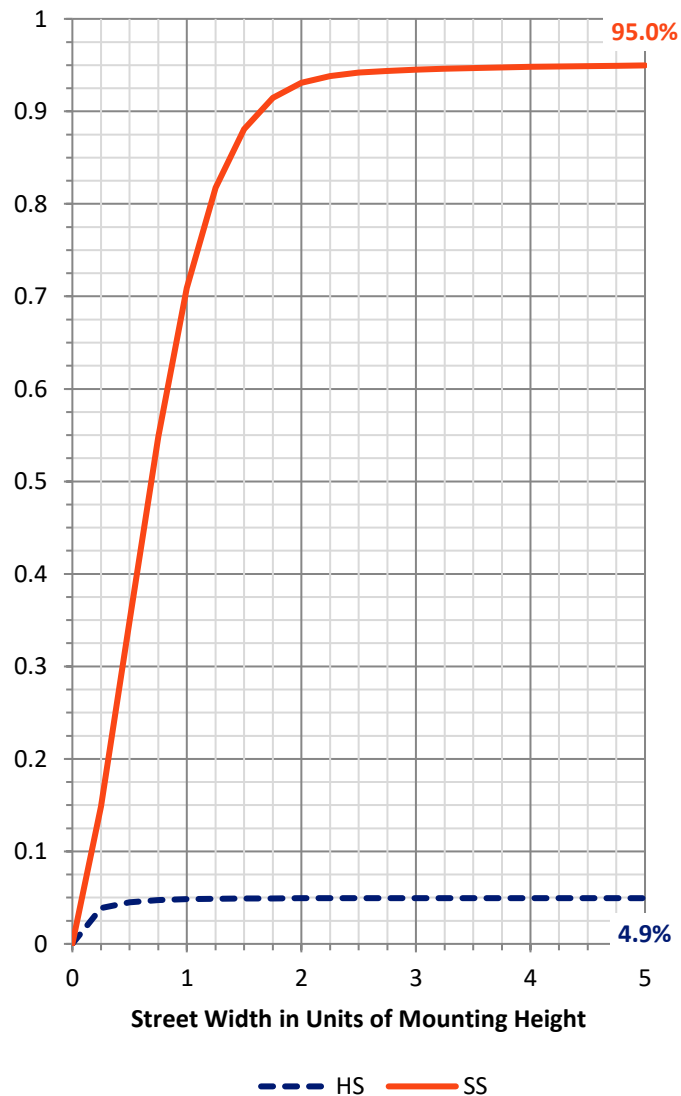
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.4	0.0	956.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18303.6	0.0	18303.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	19260.0	0.0	19260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.1
10°-20°	805.4	4.2
20°-30°	1638.6	8.5
30°-40°	2844.2	14.8
40°-50°	4018.4	20.9
50°-60°	4557.1	23.7
60°-70°	3779.7	19.6
70°-80°	1369.1	7.1
80°-90°	44.4	0.2
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°	19260.0	100.0
0°-180°	19260.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321208

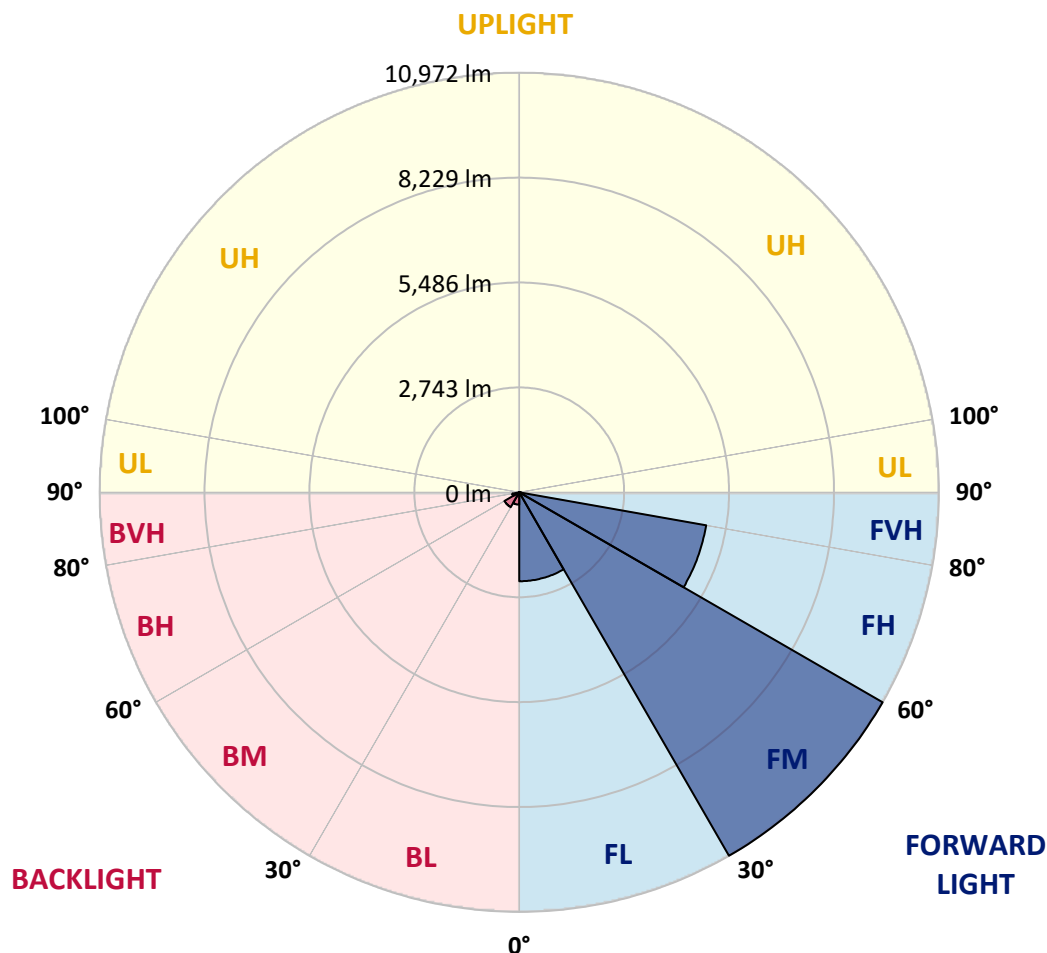
CATALOG NUMBER: GAN-SA4C-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2324.6	12.1			
FM	(30°-60°)	10972.0	57.0			
FH	(60°-80°)	4963.9	25.8			G2/5000
FVH	(80°-90°)	43.0	0.2			G1/100
BL	(0°-30°)	322.5	1.7	B1/500		
BM	(30°-60°)	447.6	2.3	B1/1000		
BH	(60°-80°)	184.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G2

Type II Medium



REPORT NUMBER: P321208

CATALOG NUMBER: GAN-SA4C-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8
2.5°	2438.9	2384.0	2396.7	2361.3	2297.1	2165.5	2053.2	1946.9	1822.8	1818.6	1716.5
5°	3288.7	3242.3	3236.4	3164.7	3048.2	2824.6	2606.8	2358.7	2081.9	2061.7	1844.8
7.5°	4060.0	4022.9	4009.4	3924.2	3707.3	3489.6	3206.0	2841.4	2408.5	2371.4	2017.8
10°	4652.5	4634.7	4638.1	4577.4	4391.7	4189.2	3817.0	3352.0	2779.0	2721.6	2225.4
12.5°	5101.4	5105.6	5136.0	5098.9	4995.1	4844.9	4447.4	3896.3	3189.1	3110.6	2462.5
15°	5431.4	5452.5	5508.2	5554.6	5547.0	5417.0	5052.5	4449.1	3624.6	3537.7	2726.7
17.5°	5644.9	5668.5	5749.5	5852.5	5947.0	5916.6	5636.5	4982.4	4065.1	3964.7	3009.4
20°	5832.2	5860.1	5947.0	6082.9	6259.3	6297.2	6113.3	5499.7	4504.8	4382.4	3301.4
22.5°	6238.2	6237.3	6290.5	6369.8	6537.8	6635.6	6519.2	5979.9	4939.4	4812.0	3599.3
25°	6972.4	6944.5	6926.0	6863.5	6900.6	6961.4	6896.4	6428.9	5376.5	5247.4	3901.4
27.5°	7845.0	7861.8	7711.6	7543.7	7413.7	7351.3	7244.9	6844.9	5796.8	5655.0	4196.8
30°	8765.7	8770.7	8593.5	8379.2	8093.1	7855.9	7672.0	7242.4	6228.9	6074.4	4483.7
32.5°	9596.1	9563.2	9387.6	9095.6	8734.4	8467.8	8085.5	7686.3	6686.3	6536.9	4802.7
35°	10254.3	10215.5	10002.0	9736.2	9361.5	9093.1	8633.2	8129.4	7167.3	7021.3	5122.5
37.5°	10735.4	10689.8	10470.4	10196.9	9873.7	9717.6	9268.6	8611.2	7692.2	7535.3	5459.2
40°	10902.4	10862.8	10725.2	10525.2	10265.3	10229.9	9942.9	9165.7	8263.5	8096.5	5840.7
42.5°	10802.9	10764.0	10715.1	10647.6	10539.6	10573.3	10579.2	9797.8	8898.2	8733.6	6261.8
45°	10407.9	10373.3	10424.0	10522.7	10656.9	10824.0	11159.8	10477.1	9607.0	9431.5	6748.7
47.5°	9826.5	9801.1	9941.2	10187.7	10580.1	11040.8	11690.7	11191.1	10402.9	10240.0	7356.3
50°	8999.4	8995.2	9275.4	9725.2	10328.6	11145.5	12239.2	12002.9	11508.4	11337.1	8201.1
52.5°	7711.6	7720.1	8271.1	8991.0	9887.2	11074.6	12592.0	13046.0	12794.5	12616.4	8932.8
55°	6485.4	6536.1	6926.8	7964.8	9210.4	10811.3	12713.5	13532.9	13504.2	13335.4	9339.5
57.5°	5284.6	5376.5	5752.9	6722.6	8222.2	10204.5	12646.8	13743.9	14032.5	13903.4	9876.3
60°	3983.2	4025.4	4459.2	5365.6	6953.8	9097.3	12163.2	13858.7	14754.9	14665.4	10655.2
62.5°	2534.3	2639.7	3024.6	3898.9	5414.5	7559.7	11348.0	13857.0	15658.7	15707.7	11660.3
65°	1335.1	1458.3	1662.5	2416.1	3720.8	5842.4	10121.8	13727.0	16767.6	16836.0	12446.0
67.5°	719.9	755.3	863.3	1254.0	2157.9	3957.9	8320.1	13085.6	17409.8	17500.1	12555.7
70°	526.6	546.0	586.5	693.7	1086.1	2298.8	6071.1	11631.6	16581.9	16548.2	11155.6
72.5°	404.2	434.6	465.0	508.0	624.5	1227.0	3779.9	9108.3	13230.8	13008.0	8338.7
75°	319.0	324.1	367.1	405.9	468.4	698.8	1678.5	5304.8	8075.4	7547.9	4324.2
77.5°	254.9	258.2	283.6	317.3	376.4	459.1	519.8	2087.0	2578.1	2300.5	938.4
80°	151.1	159.5	211.0	244.7	312.2	289.5	189.9	453.2	402.5	364.6	157.8
82.5°	84.4	91.1	119.0	193.3	217.7	138.4	94.5	122.4	94.5	92.0	44.7
85°	0.0	4.2	76.8	119.8	88.6	30.4	39.7	40.5	27.8	26.2	17.7
87.5°	0.0	0.0	23.6	22.8	3.4	5.1	9.3	13.5	11.0	11.0	9.3
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: P321208

CATALOG NUMBER: GAN-SA4C-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8
2.5°	1665.9	1620.3	1534.2	1449.8	1378.9	1320.7	1268.4	1247.3	1230.4	1227.9	1214.4
5°	1740.1	1648.2	1483.6	1348.6	1258.3	1194.1	1139.3	1105.5	1079.4	1069.2	1059.9
7.5°	1852.4	1713.1	1476.8	1321.6	1213.5	1105.5	1004.3	894.5	826.2	800.0	784.8
10°	1989.1	1799.2	1502.2	1314.0	1124.9	897.1	729.1	589.9	533.3	514.8	509.7
12.5°	2148.6	1906.4	1546.0	1266.7	935.9	637.2	503.0	455.7	443.1	437.1	437.1
15°	2331.7	2023.7	1577.3	1130.0	692.0	481.9	435.5	413.5	400.0	392.4	393.3
17.5°	2519.1	2138.5	1562.1	931.7	510.6	428.7	394.1	370.5	351.9	344.3	342.6
20°	2708.1	2244.8	1477.7	693.7	432.1	389.0	350.2	324.1	305.5	297.9	296.2
22.5°	2903.9	2335.1	1329.2	508.9	388.2	345.2	307.2	281.0	263.3	256.5	253.2
25°	3094.6	2408.5	1121.6	411.8	346.8	303.8	267.5	243.0	227.0	220.3	219.4
27.5°	3272.7	2454.9	881.0	363.7	310.6	266.7	233.8	211.8	198.3	193.3	192.4
30°	3433.0	2459.1	651.5	328.3	278.5	234.6	204.2	184.8	173.0	167.9	166.2
32.5°	3595.0	2423.7	474.3	296.2	249.0	206.8	177.2	162.0	153.6	149.4	149.4
35°	3747.8	2341.8	369.6	268.4	220.3	179.8	156.1	145.2	140.1	135.9	135.9
37.5°	3897.2	2224.5	313.9	243.9	193.3	157.0	137.6	130.8	126.6	122.4	122.4
40°	4049.1	2076.9	285.2	221.1	171.3	139.2	122.4	116.5	112.2	108.9	108.0
42.5°	4235.6	1906.4	266.7	200.0	151.9	123.2	108.0	101.3	97.9	94.5	92.8
45°	4451.6	1759.5	251.5	178.9	135.9	109.7	93.7	86.9	81.9	77.6	76.8
47.5°	4763.0	1653.2	231.2	156.1	120.7	95.4	81.0	73.4	65.8	61.6	60.8
50°	5160.5	1565.4	205.1	135.9	105.5	81.0	67.5	58.2	51.5	47.3	47.3
52.5°	5358.0	1450.7	181.4	118.1	88.6	68.4	54.9	43.9	40.5	36.3	36.3
55°	5437.3	1362.9	157.8	100.4	73.4	56.5	43.0	33.8	31.2	28.7	27.8
57.5°	5660.1	1337.6	137.6	85.2	60.8	44.7	32.9	25.3	23.6	20.3	20.3
60°	6018.8	1350.3	119.0	72.6	48.9	34.6	24.5	19.4	17.7	14.3	14.3
62.5°	6406.1	1334.2	100.4	62.4	38.0	25.3	16.9	14.3	14.3	8.4	7.6
65°	6480.4	1188.2	86.1	51.5	29.5	18.6	11.0	9.3	12.7	1.7	0.0
67.5°	6014.5	921.5	74.3	39.7	21.9	14.3	8.4	4.2	11.0	0.0	0.0
70°	4809.4	585.7	59.9	28.7	16.9	11.8	6.8	1.7	8.4	0.0	0.0
72.5°	3400.9	340.1	47.3	20.3	14.3	9.3	5.1	0.0	5.1	0.0	0.0
75°	1719.9	181.4	29.5	15.2	11.0	6.8	3.4	0.0	0.8	0.0	0.0
77.5°	372.2	84.4	18.6	11.0	7.6	4.2	1.7	0.0	0.0	0.0	0.0
80°	81.0	37.1	11.8	6.8	4.2	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	29.5	19.4	5.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	10.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	3.4	0.8	0.8	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)