

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: P322158

Luminaire Tested: **GAN-SA4B-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14049 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - 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

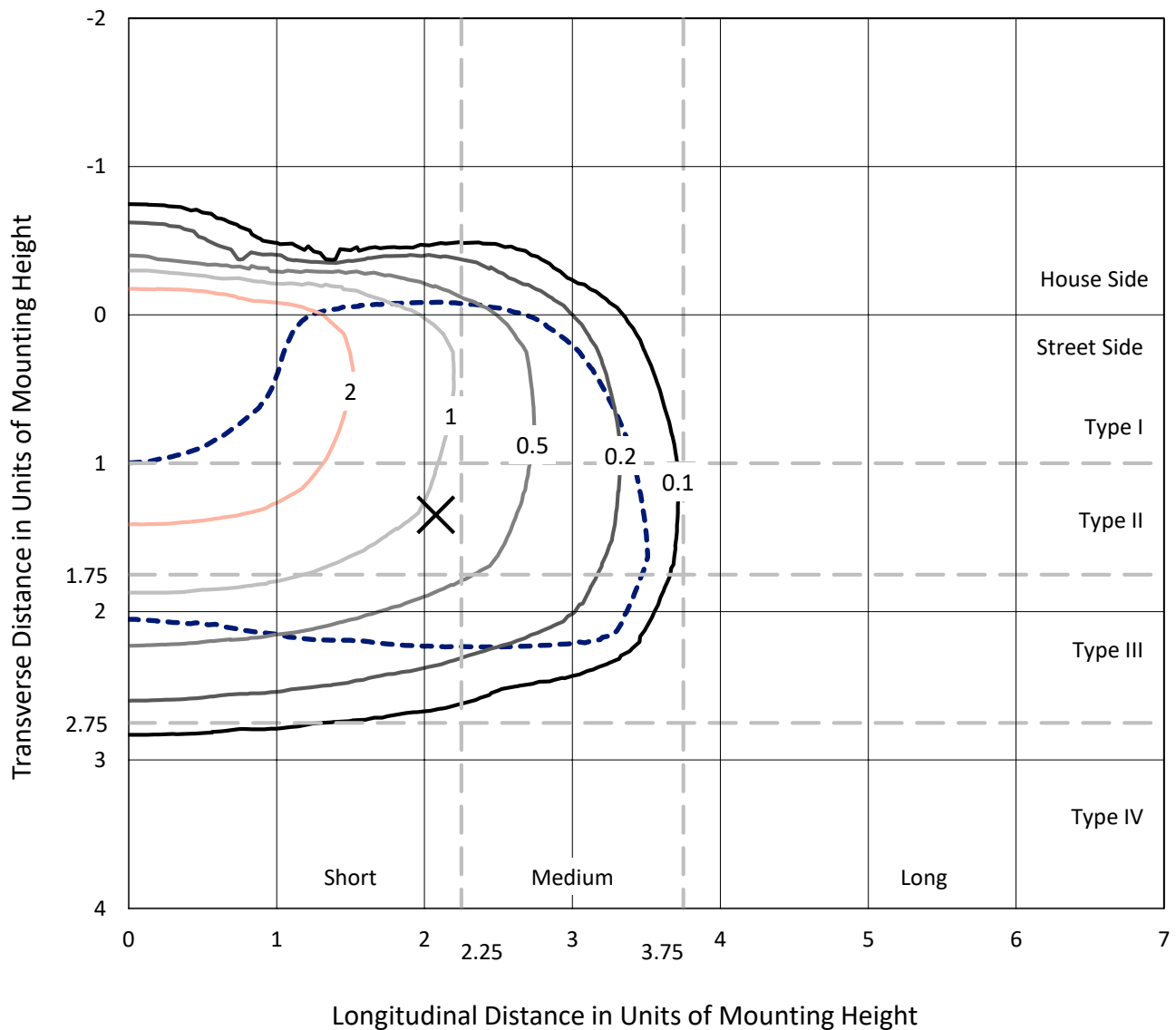


REPORT NUMBER: P322158

CATALOG NUMBER: GAN-SA4B-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

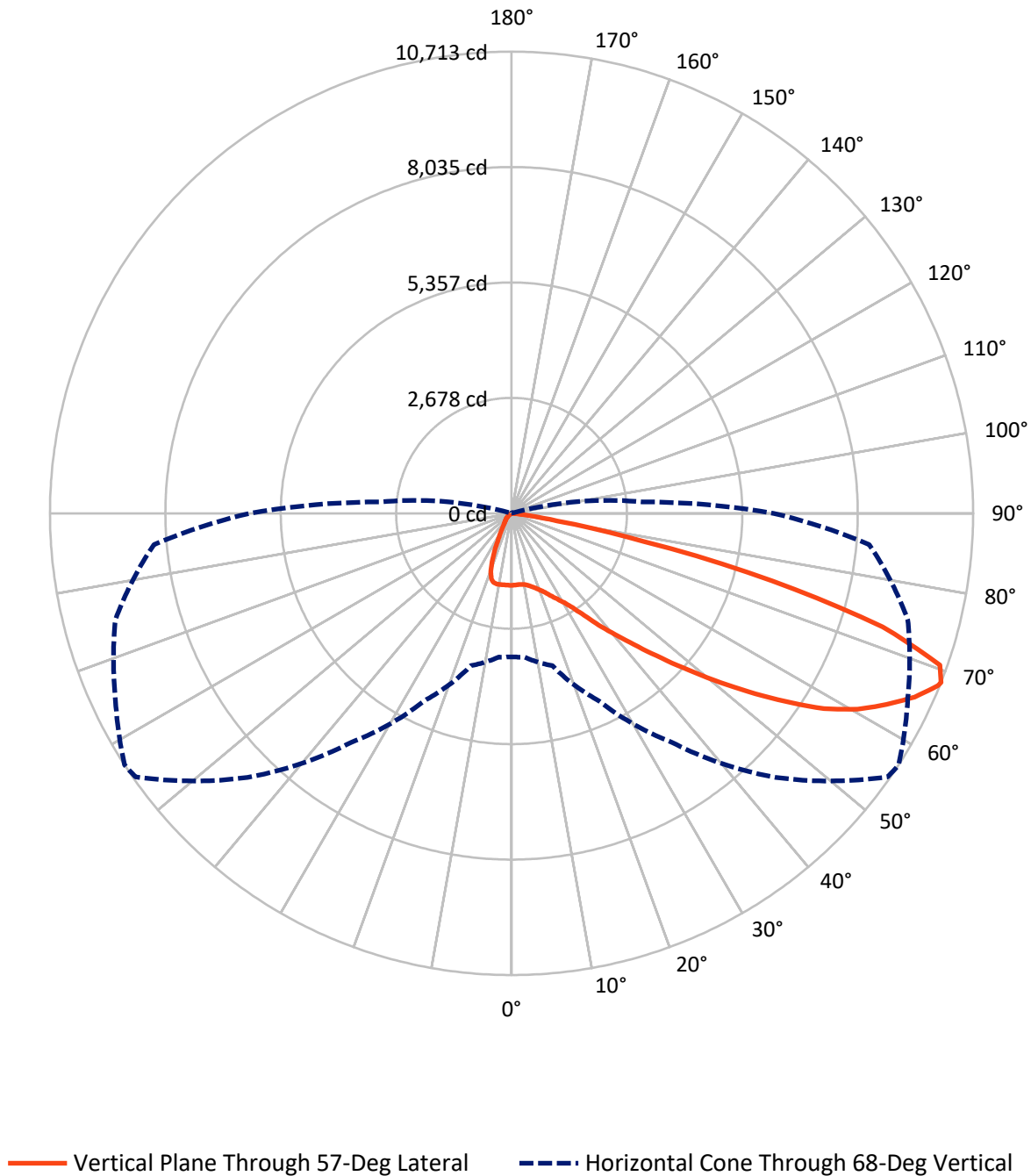
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

REPORT NUMBER: P322158
CATALOG NUMBER: GAN-SA4B-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322158

CATALOG NUMBER: GAN-SA4B-727-U-T3-HSS

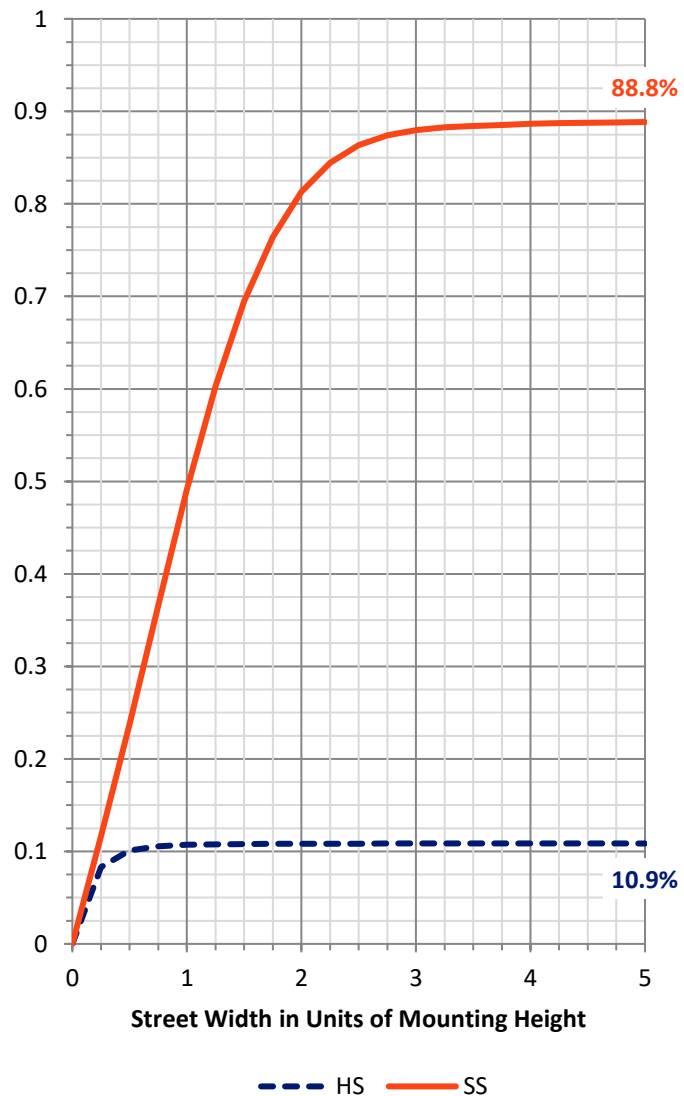
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1540.6	0.0	1540.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	12508.4	0.0	12508.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	14049.0	0.0	14049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.1
10°-20°	432.9	3.1
20°-30°	746.8	5.3
30°-40°	1289.0	9.2
40°-50°	2204.9	15.7
50°-60°	3527.6	25.1
60°-70°	4075.8	29.0
70°-80°	1557.4	11.1
80°-90°	58.4	0.4
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°	14049.0	100.0
0°-180°	14049.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322158

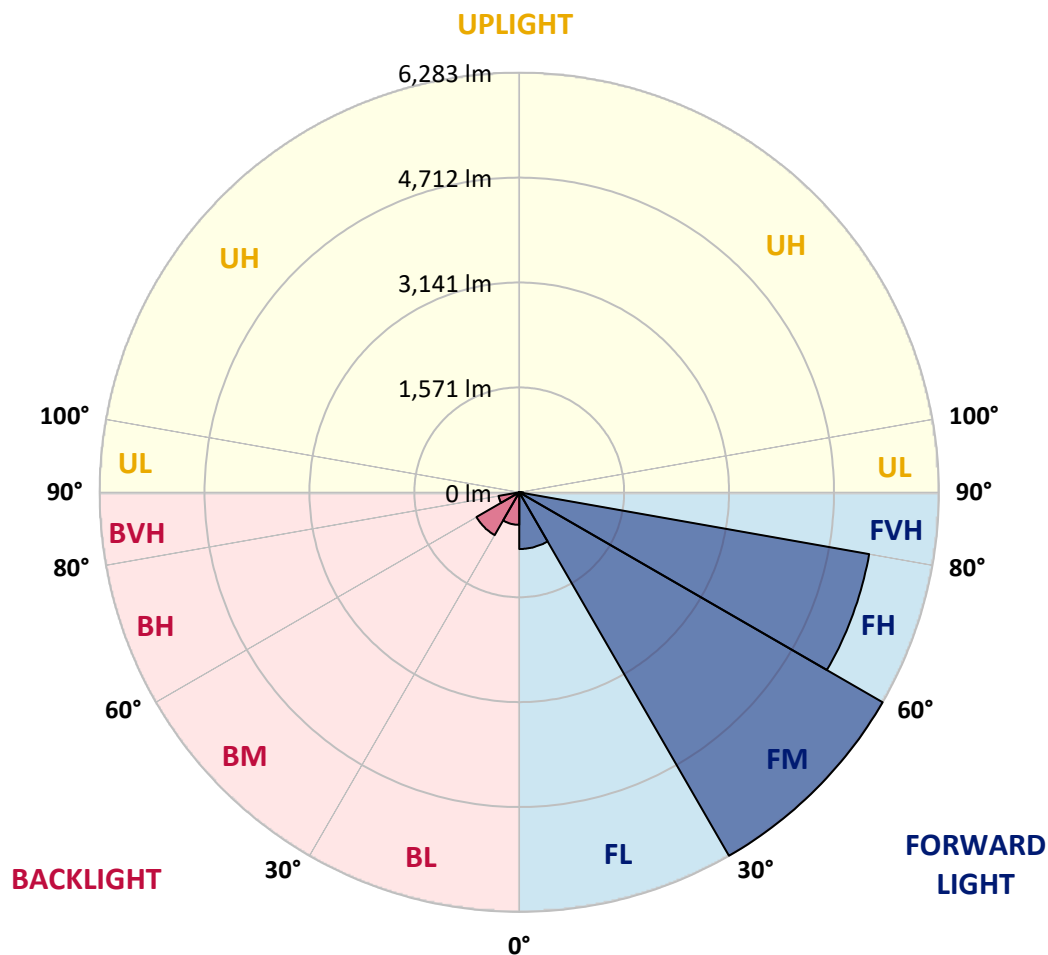
CATALOG NUMBER: GAN-SA4B-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	849.1	6.0			
FM	(30°-60°)	6282.6	44.7			
FH	(60°-80°)	5319.4	37.9			G3/7500
FVH	(80°-90°)	57.3	0.4			G1/100
BL	(0°-30°)	486.9	3.5	B1/500		
BM	(30°-60°)	738.9	5.3	B1/1000		
BH	(60°-80°)	313.8	2.2	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 III Short





REPORT NUMBER: P322158

CATALOG NUMBER: GAN-SA4B-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4
2.5°	1630.2	1637.5	1642.8	1646.1	1650.1	1658.8	1661.4	1665.4	1667.4	1667.4	1672.0
5°	1565.8	1573.7	1585.0	1594.3	1612.9	1636.8	1654.1	1660.8	1672.7	1683.3	1689.3
7.5°	1506.0	1515.3	1528.6	1550.5	1582.4	1620.9	1656.8	1666.1	1689.3	1711.9	1723.2
10°	1467.4	1474.8	1492.0	1523.2	1565.1	1618.9	1669.4	1680.7	1720.5	1758.4	1779.7
12.5°	1454.2	1460.8	1478.7	1513.9	1565.8	1628.9	1698.6	1715.2	1773.7	1828.8	1858.7
15°	1473.4	1474.8	1494.0	1527.2	1578.4	1653.4	1747.1	1767.0	1840.8	1912.5	1949.7
17.5°	1547.8	1541.8	1551.8	1566.4	1606.9	1686.0	1798.3	1828.2	1926.5	2010.8	2046.1
20°	1733.8	1733.8	1711.2	1671.4	1672.0	1736.5	1867.4	1901.2	2021.5	2119.1	2151.0
22.5°	2052.0	2046.1	2000.9	1903.2	1813.5	1823.5	1951.7	1995.6	2135.7	2240.0	2250.7
25°	2434.7	2427.4	2357.6	2220.1	2064.7	1964.3	2066.0	2116.5	2271.9	2364.3	2342.3
27.5°	2839.9	2833.9	2764.8	2594.1	2372.9	2188.9	2202.2	2250.0	2410.8	2501.8	2432.0
30°	3232.5	3234.5	3166.1	2990.7	2740.2	2475.2	2374.9	2402.8	2545.6	2637.9	2538.3
32.5°	3605.8	3608.5	3549.4	3353.4	3119.6	2808.0	2614.0	2606.7	2702.4	2793.4	2679.1
35°	3938.6	3945.3	3904.8	3752.6	3504.9	3178.7	2924.3	2907.0	2924.9	3027.9	2895.0
37.5°	4259.5	4263.5	4232.9	4104.7	3897.5	3585.9	3316.2	3291.6	3253.1	3332.1	3180.0
40°	4610.9	4601.0	4565.7	4449.5	4271.5	4035.6	3737.4	3694.8	3627.8	3698.2	3554.7
42.5°	4937.8	4926.5	4932.4	4800.9	4650.8	4498.0	4228.3	4155.2	4116.0	4197.1	4014.4
45°	5346.3	5340.3	5360.3	5246.0	5124.4	5013.5	4790.9	4711.2	4694.0	4789.0	4570.4
47.5°	5749.5	5764.2	5825.9	5777.4	5728.3	5630.6	5386.8	5351.0	5361.6	5476.5	5157.0
50°	6085.7	6102.9	6272.3	6328.1	6399.2	6342.1	6097.6	6075.7	6117.6	6221.2	5788.1
52.5°	6328.8	6364.0	6574.6	6831.7	7090.8	7129.3	6885.5	6865.6	6922.0	6938.0	6275.7
55°	6497.5	6528.8	6767.2	7237.6	7765.0	7931.1	7779.6	7702.6	7692.0	7534.5	6788.5
57.5°	6527.4	6524.1	6866.9	7500.0	8293.8	8722.3	8626.6	8550.9	8333.0	8085.9	7376.4
60°	6358.7	6378.0	6775.9	7591.0	8626.0	9320.8	9328.1	9229.8	8890.4	8622.0	7946.4
62.5°	5839.2	5917.6	6319.5	7352.5	8622.0	9562.0	9842.3	9767.2	9361.3	9061.1	8524.3
65°	4996.9	5024.8	5408.1	6535.4	8039.4	9461.0	10305.3	10277.4	9785.8	9487.6	8821.3
67.5°	3649.0	3588.6	3991.1	5146.3	6806.4	8872.4	10637.5	10672.7	10113.3	9575.3	8505.1
68°	3330.1	3348.1	3661.6	4802.9	6483.6	8664.5	10659.4	10713.2	10145.9	9518.1	8332.3
70°	1984.9	2019.5	2299.2	3306.9	4932.4	7488.0	10422.9	10545.8	9951.9	8928.9	7207.0
72.5°	506.9	548.0	812.4	1480.1	2817.3	5275.9	8798.7	9006.6	8640.6	7243.6	4865.3
75°	208.6	219.2	290.3	487.6	1049.6	2376.9	5799.4	6244.4	5990.0	4336.6	2198.8
77.5°	144.2	151.5	186.7	270.4	454.4	805.8	2843.2	3164.7	2851.2	1480.1	479.6
80°	103.6	109.6	133.5	180.0	261.1	287.6	926.7	1071.5	851.0	324.8	118.9
82.5°	61.8	66.4	99.6	128.2	158.8	137.5	230.5	261.7	246.5	161.4	53.1
85°	30.6	35.9	67.1	91.7	85.7	57.8	70.4	78.4	97.0	98.3	28.6
87.5°	2.0	4.0	39.2	55.1	23.9	13.3	20.6	25.2	34.5	48.5	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



REPORT NUMBER: P322158

CATALOG NUMBER: GAN-SA4B-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4
2.5°	1674.0	1674.7	1670.1	1668.1	1669.4	1661.4	1658.1	1659.4	1659.4	1661.4	1658.1
5°	1690.6	1690.6	1682.7	1672.0	1666.1	1650.8	1640.8	1638.2	1636.2	1634.8	1632.2
7.5°	1726.5	1722.5	1708.6	1685.3	1665.4	1632.2	1606.9	1593.7	1587.0	1584.4	1582.4
10°	1784.3	1777.0	1753.8	1710.6	1664.7	1605.6	1550.5	1511.3	1478.7	1465.5	1457.5
12.5°	1862.0	1851.4	1812.2	1740.5	1660.1	1551.1	1431.6	1316.6	1209.7	1165.9	1143.9
15°	1951.7	1936.4	1874.7	1765.7	1632.9	1428.2	1168.5	967.2	819.1	763.3	739.4
17.5°	2042.7	2022.8	1929.1	1781.7	1551.1	1173.8	819.7	619.1	520.1	493.6	484.3
20°	2134.4	2105.2	1976.3	1769.7	1366.5	846.3	540.7	452.4	423.8	415.9	413.2
22.5°	2221.4	2176.3	2018.8	1723.2	1082.1	568.0	427.8	399.9	390.6	386.0	384.6
25°	2297.2	2234.0	2056.0	1579.7	765.9	429.1	385.3	376.0	364.0	355.4	356.1
27.5°	2368.2	2291.8	2078.6	1343.2	510.8	366.7	356.7	344.1	322.2	309.6	309.6
30°	2453.9	2368.9	2095.2	1033.7	376.0	324.2	316.2	296.9	267.0	250.4	250.4
32.5°	2582.8	2485.8	2084.6	725.4	311.6	285.0	266.4	239.8	207.3	191.3	190.7
35°	2780.1	2666.5	2008.9	475.6	275.0	247.8	217.9	185.3	156.8	143.5	142.8
37.5°	3045.8	2908.3	1838.8	340.1	246.5	213.2	177.4	141.5	120.2	111.6	110.9
40°	3390.6	3189.3	1595.7	275.7	219.9	180.0	136.8	109.6	95.0	88.4	89.0
42.5°	3804.5	3490.2	1304.0	237.8	194.0	148.1	107.0	86.4	77.1	72.4	71.1
45°	4264.2	3787.2	998.4	211.9	168.1	119.6	83.7	68.4	61.1	58.5	58.5
47.5°	4769.7	4076.2	730.7	189.3	140.2	92.3	67.1	55.8	49.8	47.8	47.2
50°	5228.7	4276.8	526.8	165.4	114.9	73.1	54.5	46.5	42.5	39.9	39.9
52.5°	5611.4	4339.9	388.0	139.5	93.0	58.5	45.2	39.9	35.9	33.9	33.9
55°	5948.2	4314.0	288.3	114.9	75.1	47.8	38.5	33.9	30.6	28.6	28.6
57.5°	6271.0	4230.3	215.2	93.7	60.5	38.5	32.6	28.6	25.2	23.9	23.9
60°	6534.7	4090.8	160.1	75.7	48.5	31.2	27.2	23.3	20.6	18.6	18.6
62.5°	6748.6	3936.7	117.6	62.4	38.5	24.6	21.3	19.3	15.3	13.3	13.3
65°	6750.0	3680.9	88.4	51.8	29.9	19.3	15.9	15.3	10.0	8.0	7.3
67.5°	6261.7	3173.4	67.8	44.5	23.3	14.6	12.0	12.6	5.3	3.3	2.7
68°	6084.3	3044.5	63.8	43.8	21.9	14.0	11.3	12.6	4.7	2.7	2.0
70°	5129.7	2422.0	51.2	42.5	19.3	10.6	9.3	12.6	4.0	2.0	1.3
72.5°	3281.0	1405.7	37.9	33.9	14.6	8.0	6.0	11.3	4.0	1.3	0.7
75°	1396.4	435.8	25.9	23.9	8.6	6.0	4.0	7.3	2.7	0.7	0.0
77.5°	294.3	98.3	15.3	14.6	6.0	4.0	2.7	2.0	0.7	0.0	0.0
80°	75.7	28.6	8.0	7.3	3.3	2.0	1.3	0.0	0.0	0.0	0.0
82.5°	23.9	11.3	4.7	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.0	6.6	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.0	0.7	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)