

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: P322479

Luminaire Tested: **GAN-SA5B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322479
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-SA5B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 16962 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

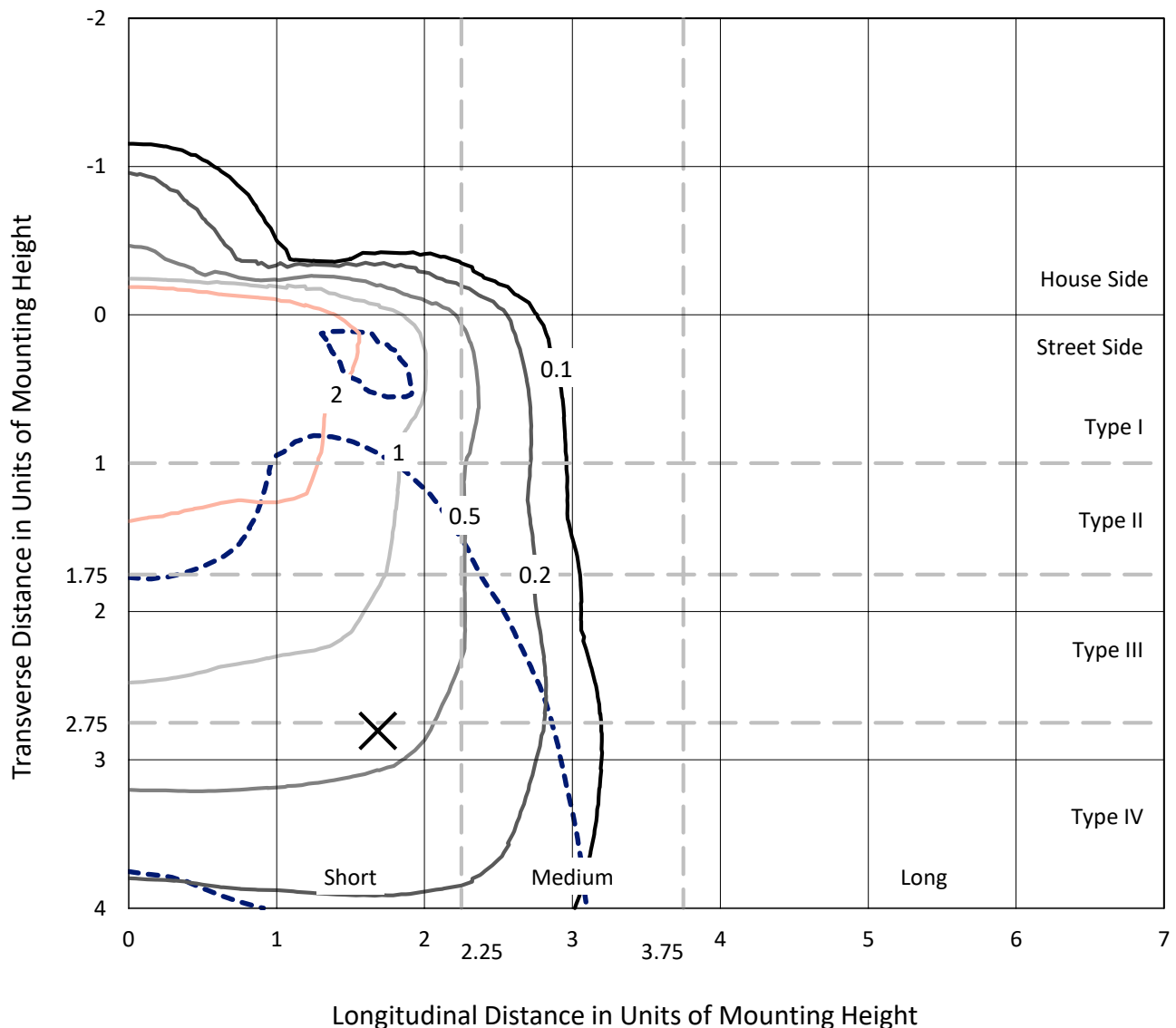
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322479
 CATALOG NUMBER: GAN-SA5B-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

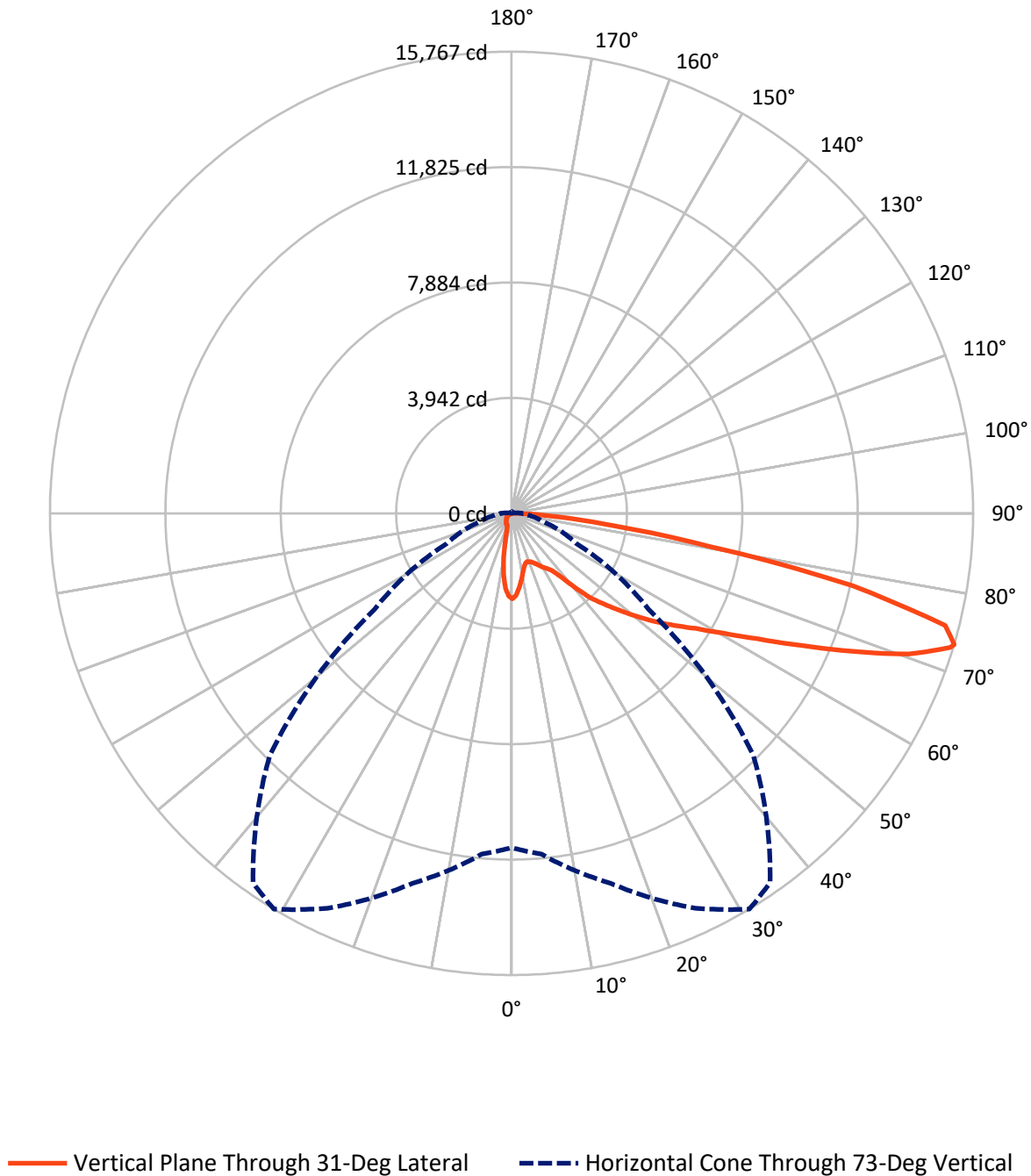
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P322479
CATALOG NUMBER: GAN-SA5B-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322479

CATALOG NUMBER: GAN-SA5B-727-U-T4FT-HSS

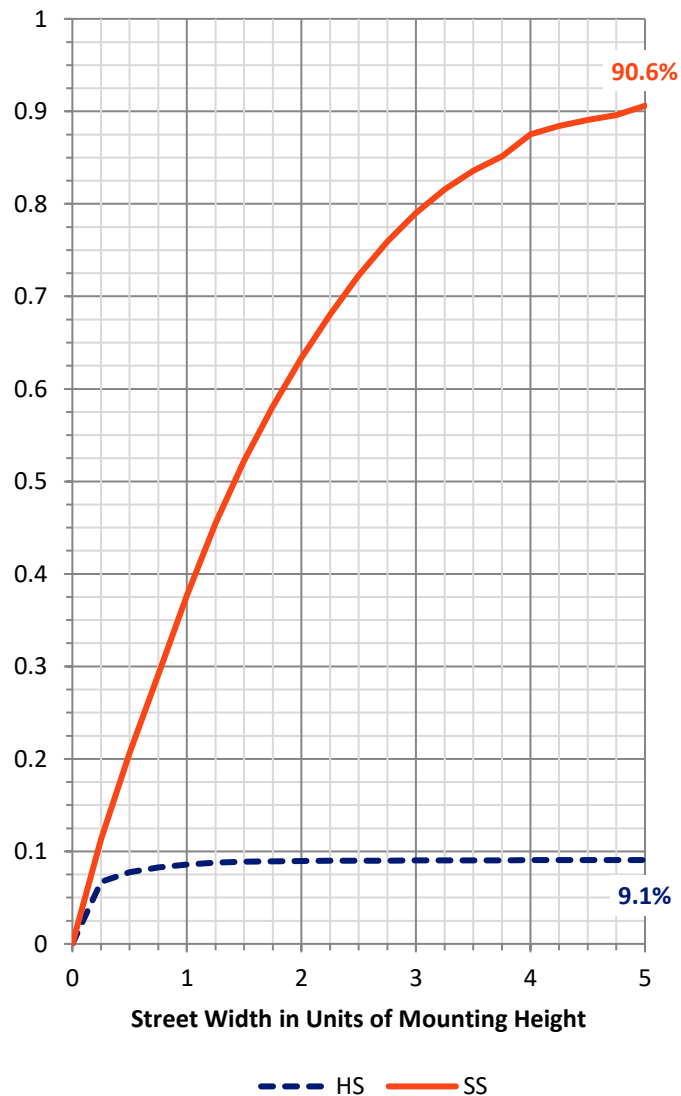
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1546.2	0.0	1546.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	15415.8	0.0	15415.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	16962.0	0.0	16962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	1.4
10°-20°	525.4	3.1
20°-30°	787.2	4.6
30°-40°	1252.4	7.4
40°-50°	2236.5	13.2
50°-60°	3470.4	20.5
60°-70°	4613.4	27.2
70°-80°	3470.2	20.5
80°-90°	364.6	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°	16962.0	100.0
0°-180°	16962.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322479

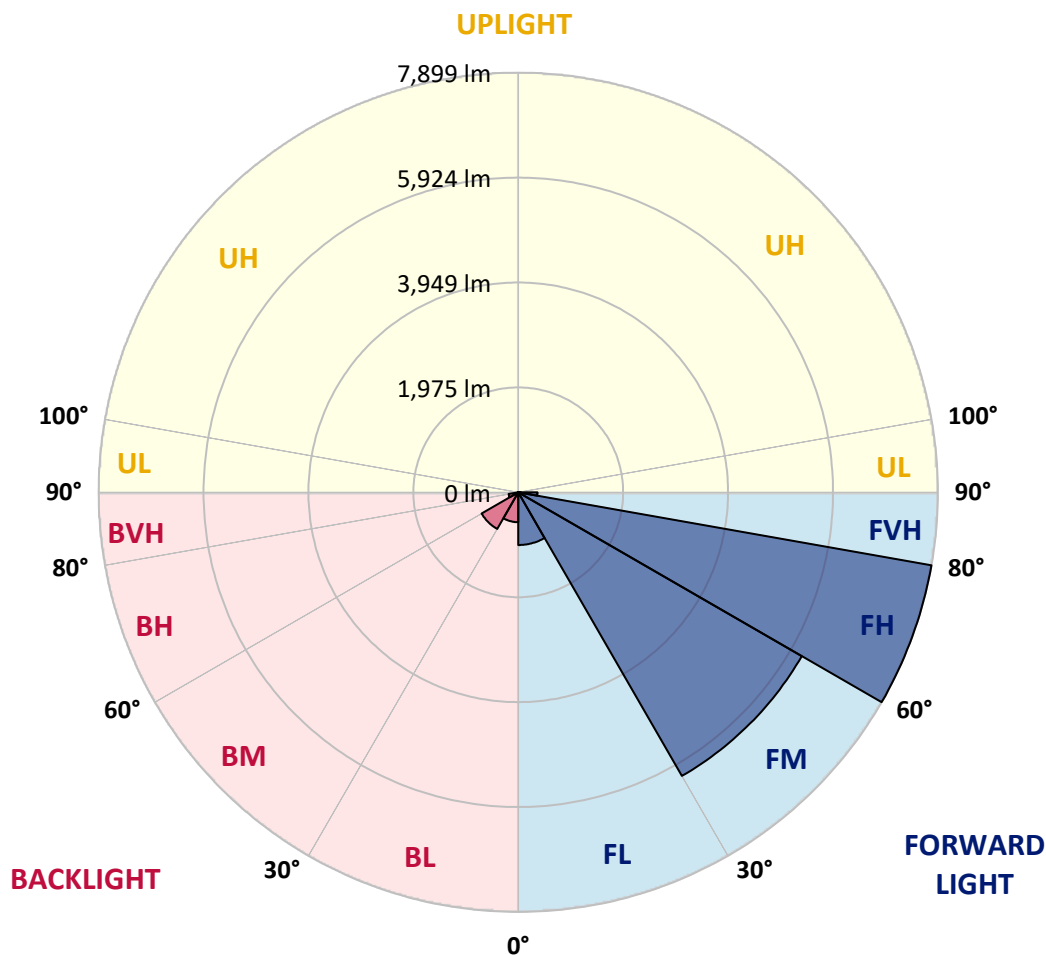
CATALOG NUMBER: GAN-SA5B-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.3	5.9			
FM	(30°-60°)	6163.4	36.3			
FH	(60°-80°)	7898.6	46.6			G4/12000
FVH	(80°-90°)	361.6	2.1			G3/500
BL	(0°-30°)	562.2	3.3	B2/1000		
BM	(30°-60°)	795.8	4.7	B1/1000		
BH	(60°-80°)	185.0	1.1	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P322479

CATALOG NUMBER: GAN-SA5B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3
2.5°	2765.6	2777.2	2789.7	2792.2	2812.9	2813.8	2843.6	2866.1	2888.5	2910.0	2917.5
5°	2481.8	2500.8	2523.3	2545.7	2589.7	2607.1	2680.1	2754.8	2826.2	2894.3	2927.5
7.5°	2178.8	2200.4	2231.9	2287.5	2336.5	2370.5	2485.9	2618.7	2751.5	2876.8	2949.1
10°	1902.4	1922.3	1955.5	2014.5	2090.0	2136.5	2291.7	2475.9	2671.0	2861.1	2981.4
12.5°	1726.4	1737.2	1755.5	1818.6	1886.6	1938.9	2121.5	2349.8	2604.6	2860.2	3033.7
15°	1694.1	1697.4	1682.4	1710.7	1763.8	1814.4	1999.5	2247.7	2554.0	2873.5	3101.8
17.5°	1745.5	1743.9	1694.1	1690.7	1733.1	1774.6	1939.8	2177.1	2518.3	2904.2	3189.8
20°	1823.6	1817.7	1731.4	1715.6	1760.5	1799.5	1935.6	2150.6	2505.0	2955.7	3296.8
22.5°	1927.3	1917.3	1782.1	1765.5	1813.6	1854.3	1987.1	2176.3	2516.6	3024.6	3421.3
25°	2056.0	2041.0	1869.2	1850.9	1899.9	1940.6	2079.2	2250.2	2551.5	3108.4	3579.0
27.5°	2201.2	2179.6	2008.6	1961.3	2016.9	2059.3	2202.0	2363.1	2606.3	3197.2	3772.4
30°	2338.2	2309.9	2155.6	2077.5	2145.6	2192.9	2334.8	2497.5	2694.2	3334.2	4037.2
32.5°	2475.9	2444.4	2286.7	2193.7	2255.2	2306.6	2471.8	2682.6	2859.4	3543.4	4389.1
35°	2793.0	2759.8	2566.4	2412.9	2412.0	2441.1	2663.5	2935.8	3077.7	3834.7	4809.1
37.5°	3326.7	3307.6	3123.4	2832.0	2754.0	2721.6	2925.0	3237.9	3391.5	4235.6	5283.1
40°	3911.0	3894.4	3687.8	3423.8	3305.1	3225.5	3300.2	3658.7	3834.7	4725.3	5767.0
42.5°	4570.9	4492.1	4123.5	4044.7	3938.4	3877.8	3810.6	4177.5	4379.2	5258.2	6246.7
45°	5170.2	5037.4	4559.3	4439.8	4415.7	4430.6	4468.0	4874.7	4991.7	5891.5	6724.8
47.5°	5527.1	5422.5	5055.6	4941.1	4934.5	5033.2	5315.4	5662.4	5601.8	6443.4	7145.6
50°	5866.6	5772.0	5467.3	5495.6	5526.3	5660.7	6277.4	6472.5	6158.7	6943.9	7531.6
52.5°	6141.3	5996.9	5837.5	5996.1	6147.1	6363.8	7270.1	7199.6	6553.8	7342.3	7861.9
55°	6299.8	6234.3	6311.5	6470.8	6754.7	7106.6	8207.2	7804.7	6842.7	7705.9	8081.9
57.5°	6880.9	6752.2	6905.8	7043.5	7413.7	7905.9	9009.9	8255.4	7051.0	7930.8	8132.5
60°	7583.9	7480.1	7570.6	7799.7	8299.4	8877.9	9760.2	8623.1	7159.7	8075.3	8001.4
62.5°	8702.7	8565.8	8509.4	8765.8	9428.2	10059.8	10329.6	8877.9	7135.7	8011.3	7551.5
65°	10201.8	10059.8	9807.5	10039.9	10882.4	11328.1	10966.2	8931.8	6969.7	7494.2	6414.4
67.5°	11737.3	11634.4	11418.6	11810.3	12570.6	12714.2	11639.4	8800.7	6435.1	6076.6	4531.9
70°	12751.6	12707.6	12847.9	13714.4	14392.5	14351.0	12256.9	8096.0	5015.8	3736.7	2241.9
72.5°	12020.3	12231.2	13267.0	14838.2	15666.6	15328.0	11939.8	6216.8	2866.9	1437.6	648.2
73°	11414.4	11684.2	13078.6	14880.6	15767.0	15396.0	11673.4	5706.4	2443.6	1134.6	491.4
75°	7940.8	8272.0	10827.6	13858.8	15297.3	14668.9	9730.3	3492.7	1132.1	503.0	198.4
77.5°	3855.4	4100.3	5962.0	10013.3	11896.7	11460.9	6057.5	1301.5	511.3	314.6	91.3
80°	1439.3	1600.3	2588.0	5096.3	6875.0	7055.2	2664.4	492.2	340.3	253.2	46.5
82.5°	376.8	420.0	954.5	2272.6	3523.4	3687.8	840.0	248.2	249.0	208.3	28.2
85°	120.4	137.8	298.0	1020.1	1660.0	1457.5	219.1	120.4	180.9	155.2	15.8
87.5°	14.9	19.1	94.6	239.9	366.0	203.4	34.0	35.7	77.2	86.3	9.1
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: P322479

CATALOG NUMBER: GAN-SA5B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3
2.5°	2925.0	2920.8	2921.7	2900.1	2886.0	2857.8	2828.7	2815.4	2801.3	2795.5	2801.3
5°	2939.9	2932.5	2910.9	2844.5	2773.9	2682.6	2597.1	2532.4	2451.0	2428.6	2451.9
7.5°	2963.2	2948.2	2885.1	2749.9	2593.0	2418.7	2222.8	2080.0	1963.0	1887.5	1914.9
10°	2997.2	2969.0	2842.0	2612.1	2331.5	2022.8	1744.7	1528.1	1374.5	1311.4	1308.9
12.5°	3054.5	3001.3	2788.9	2432.8	2012.0	1600.3	1235.9	1001.0	876.5	796.0	794.3
15°	3117.6	3039.5	2721.6	2217.8	1640.1	1146.3	796.0	617.5	537.0	511.3	508.0
17.5°	3194.7	3083.5	2634.5	1953.0	1250.8	759.5	519.6	468.1	464.8	462.3	462.3
20°	3291.9	3135.8	2522.4	1650.1	887.3	507.1	441.6	444.9	446.6	443.2	444.1
22.5°	3404.7	3188.9	2388.8	1324.7	600.1	424.1	422.5	426.6	428.3	426.6	427.5
25°	3535.9	3250.4	2226.1	983.6	433.3	402.6	406.7	412.5	416.7	416.7	416.7
27.5°	3698.6	3325.1	2030.2	686.4	374.3	380.1	391.8	402.6	408.4	410.0	410.0
30°	3910.2	3418.0	1795.3	470.6	340.3	350.3	371.8	392.6	403.4	405.0	405.9
32.5°	4177.5	3522.6	1523.1	347.8	311.3	318.7	342.0	376.8	397.6	400.9	400.9
35°	4483.8	3643.8	1230.1	303.0	290.5	293.0	311.3	351.1	387.6	396.7	397.6
37.5°	4819.1	3763.3	935.4	283.0	273.1	273.1	286.4	320.4	363.5	391.8	395.1
40°	5132.0	3835.5	655.7	267.3	257.3	257.3	268.9	293.8	334.5	376.8	386.0
42.5°	5420.9	3860.4	456.5	252.3	242.4	244.9	254.8	274.7	305.4	347.8	356.1
45°	5718.0	3856.3	332.8	234.9	227.4	234.9	242.4	257.3	279.7	303.8	305.4
47.5°	5942.1	3821.4	263.9	218.3	213.3	223.3	229.9	239.9	252.3	250.7	250.7
50°	6152.1	3736.7	212.5	195.9	199.2	210.8	214.1	217.5	218.3	202.5	200.9
52.5°	6311.5	3604.8	170.2	171.8	185.1	196.7	193.4	188.4	180.1	161.0	157.7
55°	6364.6	3350.8	133.6	141.9	164.3	179.3	166.8	156.0	140.3	124.5	121.2
57.5°	6268.3	3022.9	108.7	110.4	138.6	151.1	137.0	124.5	107.1	93.8	91.3
60°	6064.1	2658.6	89.6	83.0	107.1	117.9	108.7	96.3	80.5	70.6	69.7
62.5°	5659.1	2270.1	73.9	64.7	81.3	90.5	84.7	75.5	62.3	55.6	54.8
65°	4807.5	1816.1	59.8	52.3	63.1	70.6	65.6	58.9	49.0	44.0	43.2
67.5°	3355.8	1227.6	49.0	43.2	49.8	55.6	51.5	48.1	39.0	38.2	39.0
70°	1618.5	591.8	40.7	34.9	39.0	43.2	41.5	39.0	37.4	43.2	49.8
72.5°	464.0	198.4	32.4	29.1	31.5	34.0	35.7	34.9	40.7	52.3	60.6
73°	356.9	160.2	30.7	27.4	29.9	33.2	34.9	34.0	41.5	53.1	60.6
75°	152.7	77.2	23.2	22.4	24.9	29.1	30.7	30.7	41.5	54.0	58.1
77.5°	68.9	41.5	14.9	17.4	21.6	23.2	25.7	25.7	33.2	41.5	41.5
80°	39.0	22.4	11.6	13.3	15.8	15.8	15.8	14.1	14.9	16.6	18.3
82.5°	24.9	14.9	9.1	10.8	10.0	8.3	6.6	6.6	5.8	6.6	8.3
85°	14.1	8.3	8.3	6.6	4.2	3.3	4.2	3.3	0.8	0.0	0.8
87.5°	8.3	5.0	2.5	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)