

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: P319277

Luminaire Tested: **GAN-SA3B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14293 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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

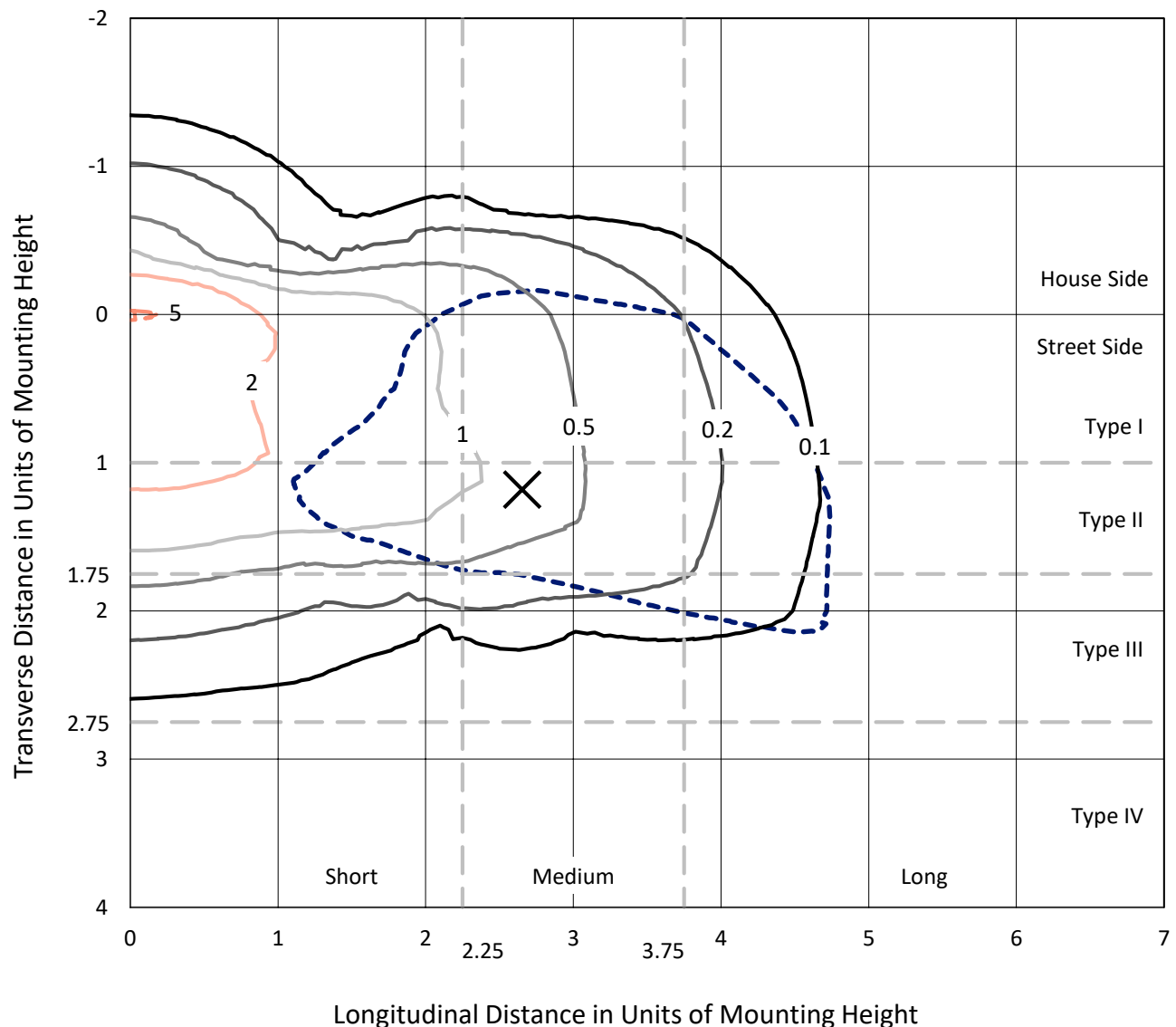


REPORT NUMBER: P319277

CATALOG NUMBER: GAN-SA3B-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

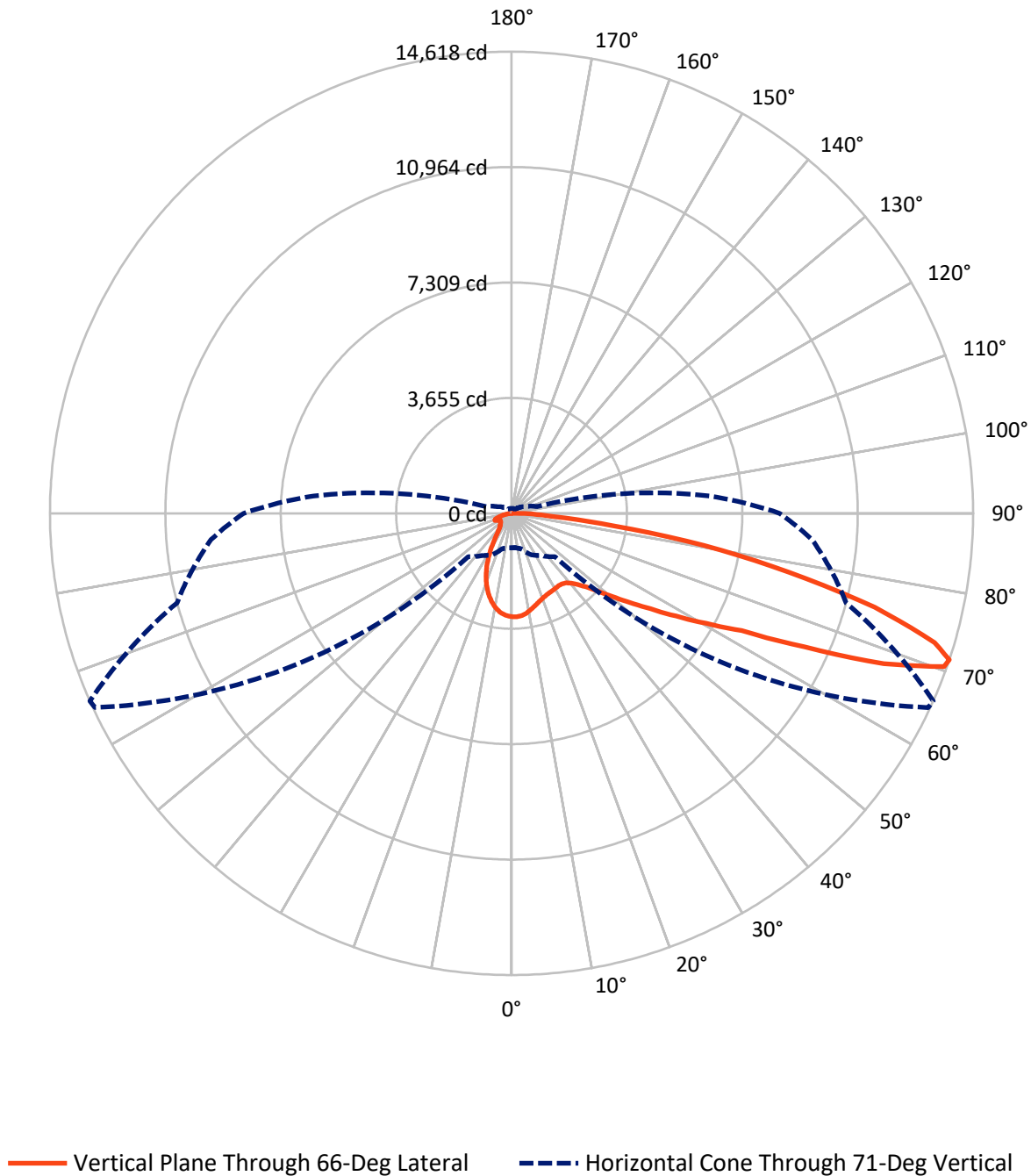
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P319277
CATALOG NUMBER: GAN-SA3B-727-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P319277

CATALOG NUMBER: GAN-SA3B-727-U-SL2

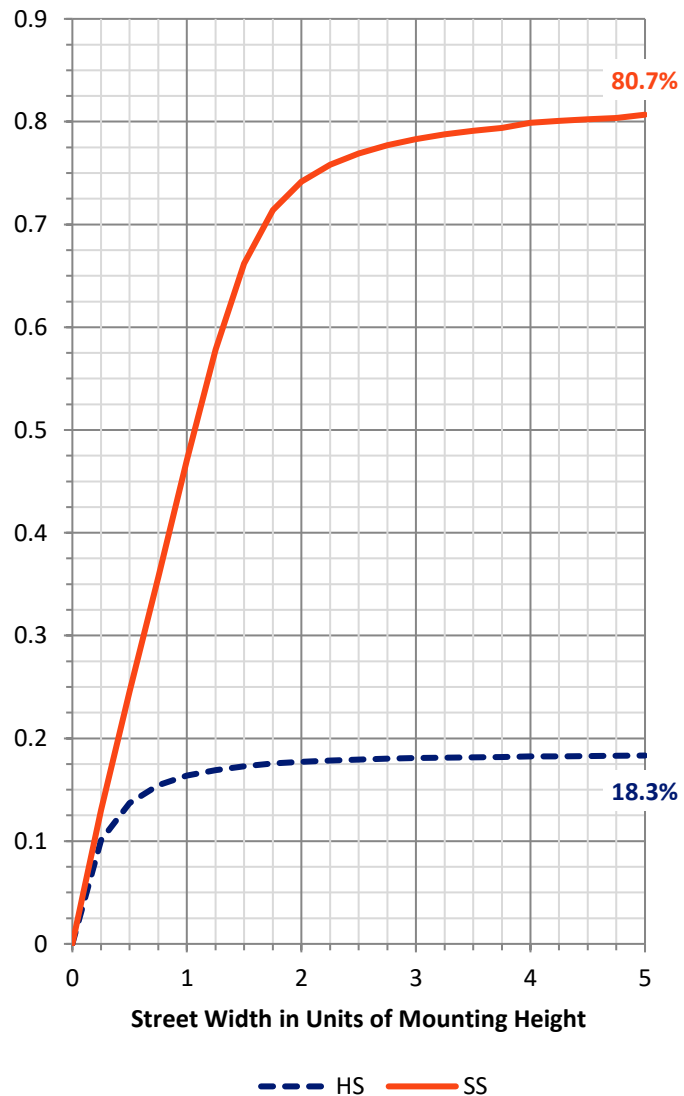
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2648.9	0.0	2648.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11644.1	0.0	11644.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	14293.0	0.0	14293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	2.0
10°-20°	691.3	4.8
20°-30°	928.5	6.5
30°-40°	1221.5	8.5
40°-50°	1776.9	12.4
50°-60°	2775.7	19.4
60°-70°	3477.1	24.3
70°-80°	2652.2	18.6
80°-90°	481.6	3.4
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°	14293.0	100.0
0°-180°	14293.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319277

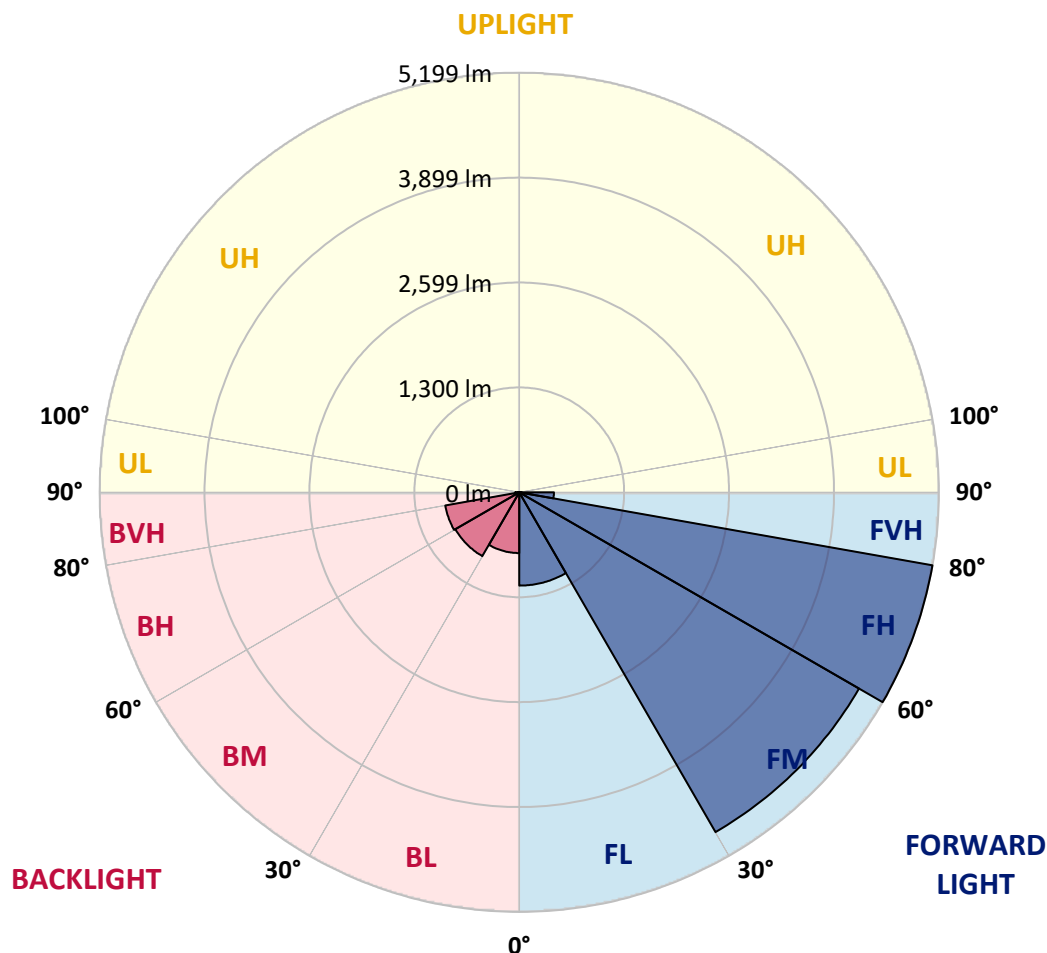
CATALOG NUMBER: GAN-SA3B-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.8	8.1			
FM	(30°-60°)	4860.3	34.0			
FH	(60°-80°)	5198.5	36.4			G3/7500
FVH	(80°-90°)	429.5	3.0			G3/500
BL	(0°-30°)	752.2	5.3	B2/1000		
BM	(30°-60°)	913.8	6.4	B1/1000		
BH	(60°-80°)	930.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	52.1	0.4			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 III Medium





REPORT NUMBER: P319277

CATALOG NUMBER: GAN-SA3B-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2
2.5°	3213.6	3208.6	3223.4	3238.7	3244.6	3254.5	3269.3	3277.7	3277.2	3278.7	3273.8
5°	3000.4	2994.0	3023.6	3047.7	3094.1	3146.4	3210.1	3255.5	3256.5	3282.1	3289.1
7.5°	2798.5	2794.1	2828.1	2867.1	2920.9	3000.9	3104.0	3201.7	3207.6	3277.2	3301.4
10°	2636.7	2635.7	2668.7	2711.2	2773.9	2863.2	2981.6	3124.7	3133.6	3253.5	3303.4
12.5°	2510.3	2512.3	2540.9	2589.3	2655.4	2748.7	2877.0	3038.4	3052.7	3216.0	3292.0
15°	2417.1	2425.0	2448.2	2497.0	2562.2	2656.9	2788.7	2958.4	2980.1	3174.1	3285.6
17.5°	2363.8	2372.7	2388.9	2429.4	2490.6	2581.9	2706.7	2892.8	2912.5	3142.0	3286.1
20°	2348.0	2355.4	2364.8	2389.4	2441.3	2524.2	2642.1	2833.6	2854.8	3116.3	3291.0
22.5°	2379.1	2384.5	2385.5	2383.5	2415.1	2482.7	2595.2	2790.1	2812.8	3099.6	3294.5
25°	2445.7	2453.1	2447.7	2429.4	2419.0	2460.5	2571.0	2761.5	2784.2	3087.2	3287.6
27.5°	2545.9	2546.9	2542.4	2518.7	2469.9	2463.0	2563.6	2744.7	2766.5	3072.9	3273.3
30°	2682.1	2688.5	2680.6	2648.5	2568.6	2502.4	2572.5	2728.5	2748.2	3054.7	3250.1
32.5°	2841.5	2857.3	2856.8	2823.2	2708.7	2590.8	2609.0	2718.6	2733.9	3035.4	3221.9
35°	3006.8	3028.5	3069.0	3054.7	2913.0	2730.4	2679.1	2734.4	2744.7	3032.9	3202.2
37.5°	3178.5	3200.2	3283.6	3322.1	3156.3	2930.3	2789.7	2790.1	2795.1	3063.0	3200.7
40°	3358.1	3381.3	3506.7	3606.9	3471.6	3183.4	2967.8	2906.6	2901.2	3137.1	3229.8
42.5°	3609.8	3630.5	3781.1	3908.9	3821.5	3507.7	3214.0	3086.2	3074.9	3282.1	3323.1
45°	3928.1	3945.9	4105.8	4242.5	4197.6	3877.8	3523.5	3333.5	3331.5	3524.0	3512.1
47.5°	4306.6	4320.4	4464.0	4596.3	4612.6	4303.7	3912.3	3714.9	3682.9	3855.6	3804.7
50°	4700.9	4716.2	4813.9	4956.0	5076.9	4873.6	4412.7	4182.3	4139.3	4293.3	4219.3
52.5°	4962.0	4982.2	5067.1	5247.2	5599.0	5498.4	5004.4	4748.8	4683.6	4823.8	4767.0
55°	4845.5	4890.9	5020.7	5309.4	6016.5	6452.8	5734.3	5409.5	5336.0	5452.5	5418.9
57.5°	4316.0	4378.2	4555.3	5000.9	6075.3	7293.7	6837.7	6187.8	6135.9	6102.4	6117.7
60°	3348.3	3408.0	3627.6	4208.4	5666.2	7907.5	8498.2	7147.1	7072.1	6754.8	6768.6
62.5°	2369.7	2339.6	2490.1	2915.0	4604.2	7979.6	10387.8	8430.1	8183.4	7443.7	7383.0
65°	1807.1	1800.2	1867.8	2003.0	2788.7	7117.5	11513.4	10586.7	10201.2	8254.0	8110.9
67.5°	1484.9	1472.5	1539.2	1736.1	1795.8	4591.8	11538.1	13088.6	12710.1	9262.6	8952.7
70°	1220.9	1207.1	1269.2	1523.4	1659.6	2328.7	9710.7	14553.8	14533.5	10539.8	9588.3
71°	1094.5	1084.7	1159.2	1441.5	1630.5	1940.9	8384.3	14557.7	14618.4	10972.1	9550.8
72.5°	891.2	894.7	973.6	1283.1	1608.7	1713.9	6162.1	13879.2	14007.5	11384.1	9209.8
75°	592.2	595.1	698.8	987.0	1559.9	1676.9	3386.8	11646.2	11882.0	11137.4	8404.0
77.5°	397.7	396.8	467.3	677.1	1359.0	1676.9	1985.8	8710.4	8969.5	8861.9	6478.9
80°	273.9	271.9	321.7	467.3	1028.9	1697.1	1535.2	6104.4	6182.8	4785.8	2633.2
82.5°	167.8	169.3	210.2	330.1	700.3	1527.3	1449.4	3328.5	3243.2	1342.3	657.8
85°	96.2	95.7	134.2	223.5	449.6	1289.0	1413.3	1432.6	1314.1	404.2	237.9
87.5°	34.5	37.0	72.0	123.9	257.6	897.6	1199.2	745.2	671.6	182.6	107.6
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: P319277

CATALOG NUMBER: GAN-SA3B-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2	3274.2
2.5°	3270.3	3273.3	3269.8	3250.1	3233.3	3206.1	3190.9	3169.6	3163.2	3160.3	3168.2
5°	3282.6	3283.6	3254.5	3202.7	3144.5	3075.9	3026.5	2965.8	2937.2	2924.9	2932.8
7.5°	3294.0	3289.5	3225.9	3126.7	3019.1	2899.7	2793.6	2696.4	2639.6	2616.4	2618.4
10°	3295.5	3276.7	3174.6	3021.1	2854.3	2679.1	2516.3	2366.2	2271.5	2209.8	2228.6
12.5°	3280.2	3248.6	3099.1	2884.4	2653.0	2414.1	2194.0	1969.0	1833.8	1771.1	1773.1
15°	3268.3	3211.1	3006.3	2723.5	2412.6	2096.3	1795.8	1531.3	1387.2	1323.0	1292.9
17.5°	3258.5	3170.6	2898.7	2542.4	2128.9	1727.7	1366.5	1130.6	1051.6	1032.9	1025.0
20°	3244.6	3127.7	2778.8	2332.7	1805.6	1315.1	997.8	881.4	881.9	903.6	906.5
22.5°	3225.4	3078.8	2651.0	2097.3	1458.7	957.8	782.2	748.6	782.7	824.1	831.5
25°	3196.8	3021.1	2508.9	1837.2	1112.3	736.3	668.2	666.7	708.1	751.6	758.0
27.5°	3156.3	2945.6	2350.9	1557.9	819.7	625.7	598.6	609.0	639.6	671.1	673.6
30°	3102.0	2857.8	2176.7	1263.3	642.5	557.1	554.2	563.6	582.3	604.5	606.5
32.5°	3042.3	2768.4	1990.7	978.1	550.2	520.1	523.1	527.5	536.4	545.3	547.3
35°	2988.0	2677.1	1800.2	743.2	506.3	495.9	494.0	493.0	494.0	491.0	491.5
37.5°	2953.0	2601.6	1601.8	591.7	481.1	474.7	468.8	461.4	453.0	448.1	449.1
40°	2940.2	2545.4	1401.0	511.2	460.4	456.0	444.6	428.8	419.0	416.0	416.0
42.5°	2974.7	2516.3	1207.1	470.8	443.1	435.7	417.0	398.7	391.3	390.8	390.3
45°	3080.3	2528.1	1022.5	448.6	427.4	413.0	388.4	373.1	368.1	369.1	368.6
47.5°	3269.8	2602.6	864.6	433.8	411.6	392.8	365.2	352.8	346.9	346.9	347.4
50°	3592.1	2776.8	738.7	421.4	398.2	374.1	348.4	333.1	325.2	324.7	324.7
52.5°	4061.4	3088.7	660.3	411.1	383.4	357.3	331.6	312.4	303.0	301.0	300.0
55°	4649.6	3535.8	638.6	404.2	363.7	339.0	311.4	292.1	281.8	277.3	276.8
57.5°	5307.4	4079.6	681.5	395.8	343.5	317.3	289.2	270.9	260.1	254.6	254.1
60°	5973.1	4673.3	856.7	383.9	326.7	293.6	266.5	249.7	238.8	232.9	231.9
62.5°	6639.8	5299.0	1214.5	382.9	314.8	270.9	243.3	229.0	218.6	212.2	210.7
65°	7391.9	5984.0	1621.1	409.1	310.9	250.2	219.6	208.2	199.4	193.4	193.0
67.5°	8255.5	6757.2	1582.1	462.9	324.2	231.4	197.4	188.5	182.1	177.2	176.7
70°	8660.6	6636.3	983.5	500.9	343.0	213.2	176.2	169.8	164.8	161.4	159.9
71°	8490.8	6301.3	824.6	496.4	341.0	205.3	167.8	162.8	157.9	155.0	153.5
72.5°	8028.0	5746.6	687.9	461.9	318.8	191.0	156.9	152.0	147.6	144.1	143.1
75°	7203.8	5132.2	550.7	369.1	254.1	161.4	137.7	132.3	128.8	126.8	124.9
77.5°	5295.5	3662.6	425.9	291.6	187.0	131.8	117.4	113.5	110.0	107.1	105.6
80°	2028.7	1418.8	286.7	217.6	137.2	104.1	94.7	92.8	89.3	87.3	87.3
82.5°	546.3	423.9	153.0	131.8	91.8	76.0	72.5	71.6	68.6	64.6	65.1
85°	221.1	187.0	85.9	72.5	56.3	44.9	48.9	49.3	45.9	41.0	41.5
87.5°	97.2	79.5	47.9	32.1	24.7	17.3	22.2	22.2	20.2	16.8	15.3
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)