

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: P319927

Luminaire Tested: **GAN-SA3C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17160 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

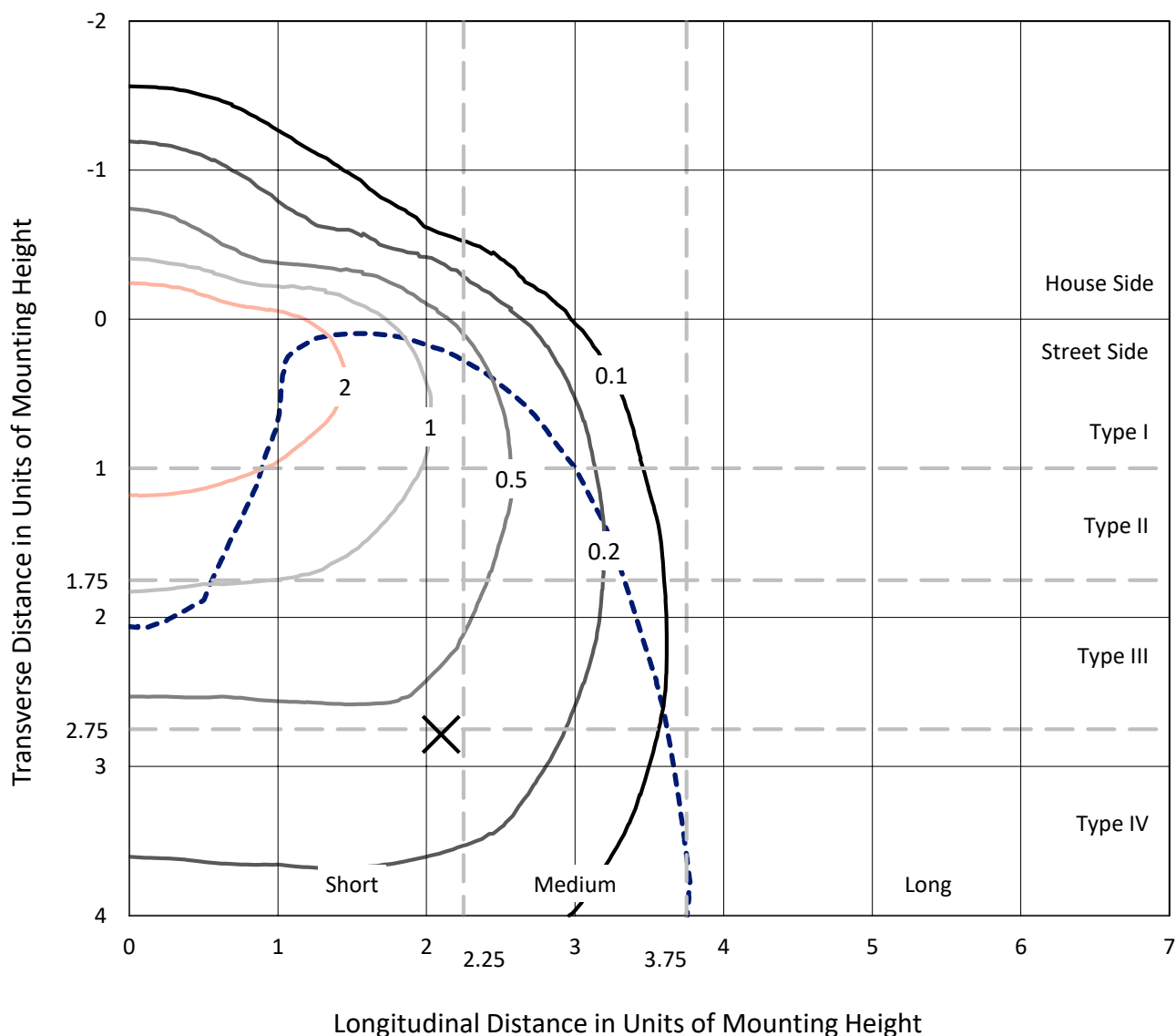
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319927
 CATALOG NUMBER: GAN-SA3C-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

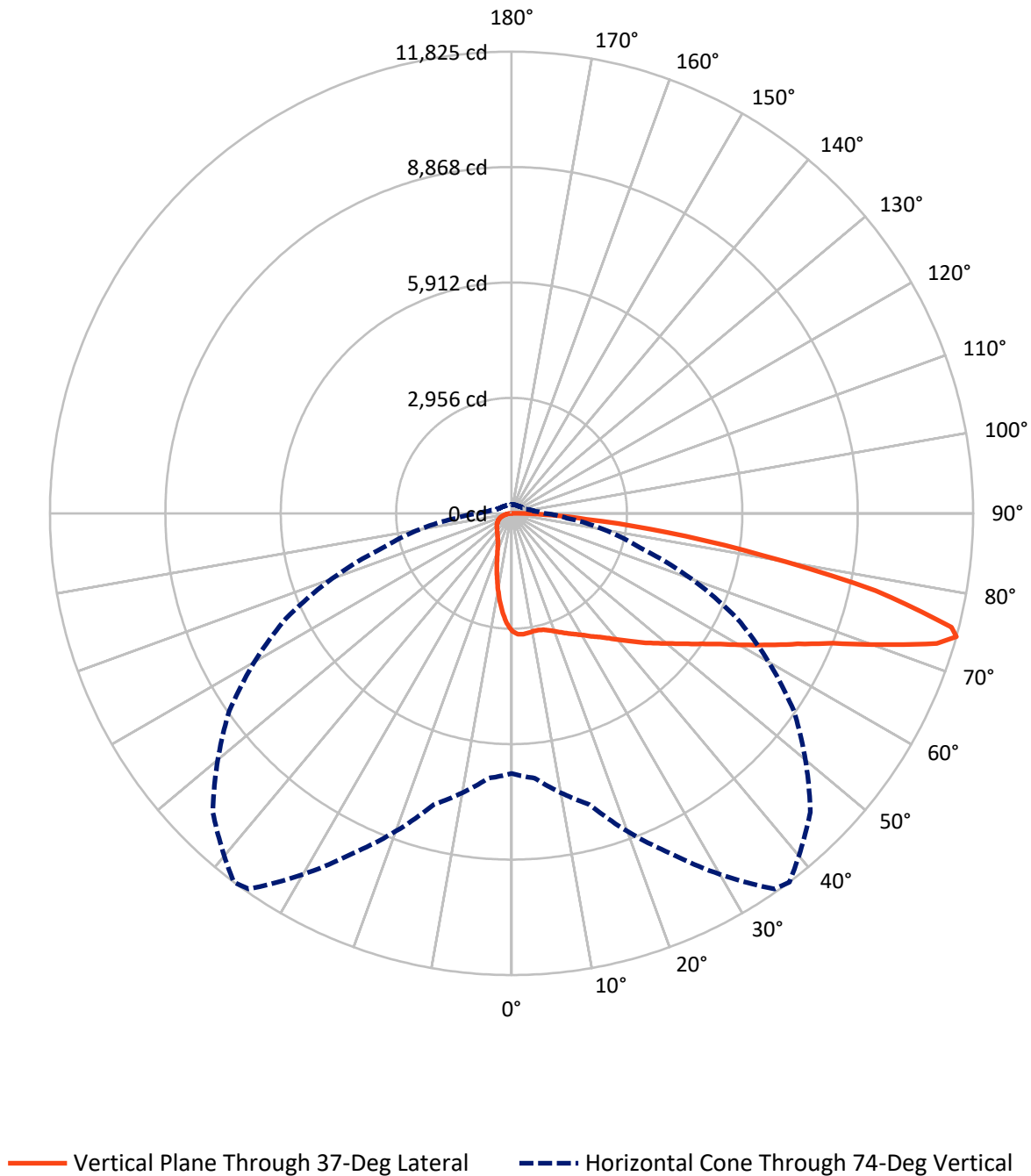
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P319927
CATALOG NUMBER: GAN-SA3C-727-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P319927

CATALOG NUMBER: GAN-SA3C-727-U-SL4

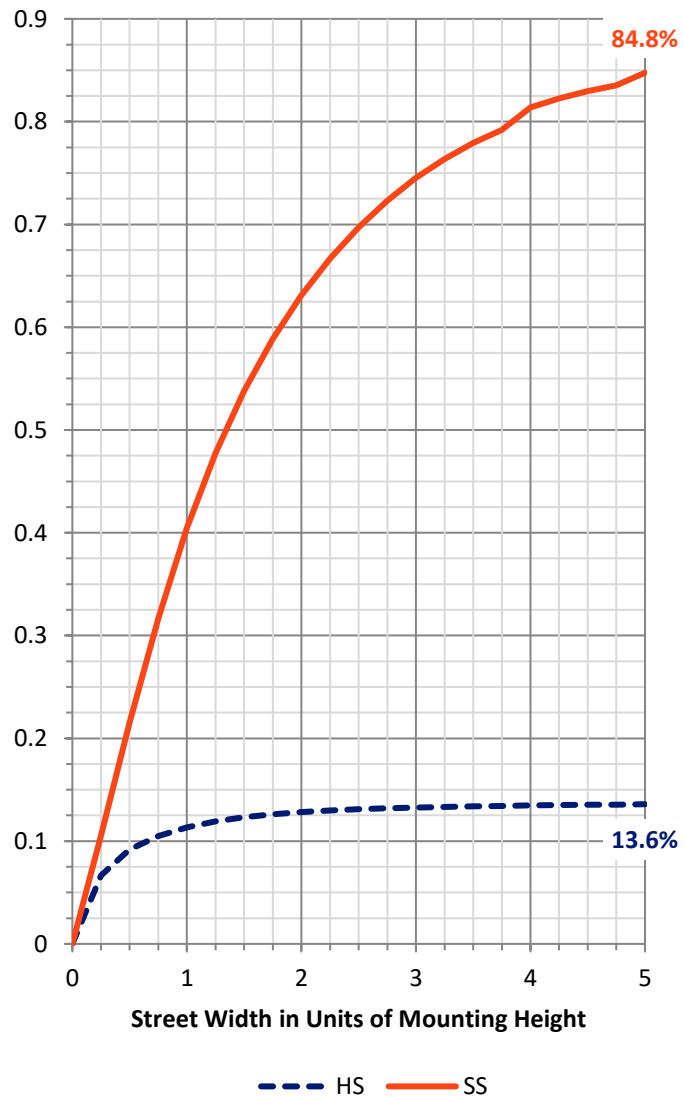
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2361.1	0.0	2361.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	14798.9	0.0	14798.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	17160.0	0.0	17160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	1.6
10°-20°	682.5	4.0
20°-30°	1051.6	6.1
30°-40°	1529.1	8.9
40°-50°	2250.6	13.1
50°-60°	3160.6	18.4
60°-70°	4000.4	23.3
70°-80°	3522.5	20.5
80°-90°	696.5	4.1
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°	17160.0	100.0
0°-180°	17160.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319927

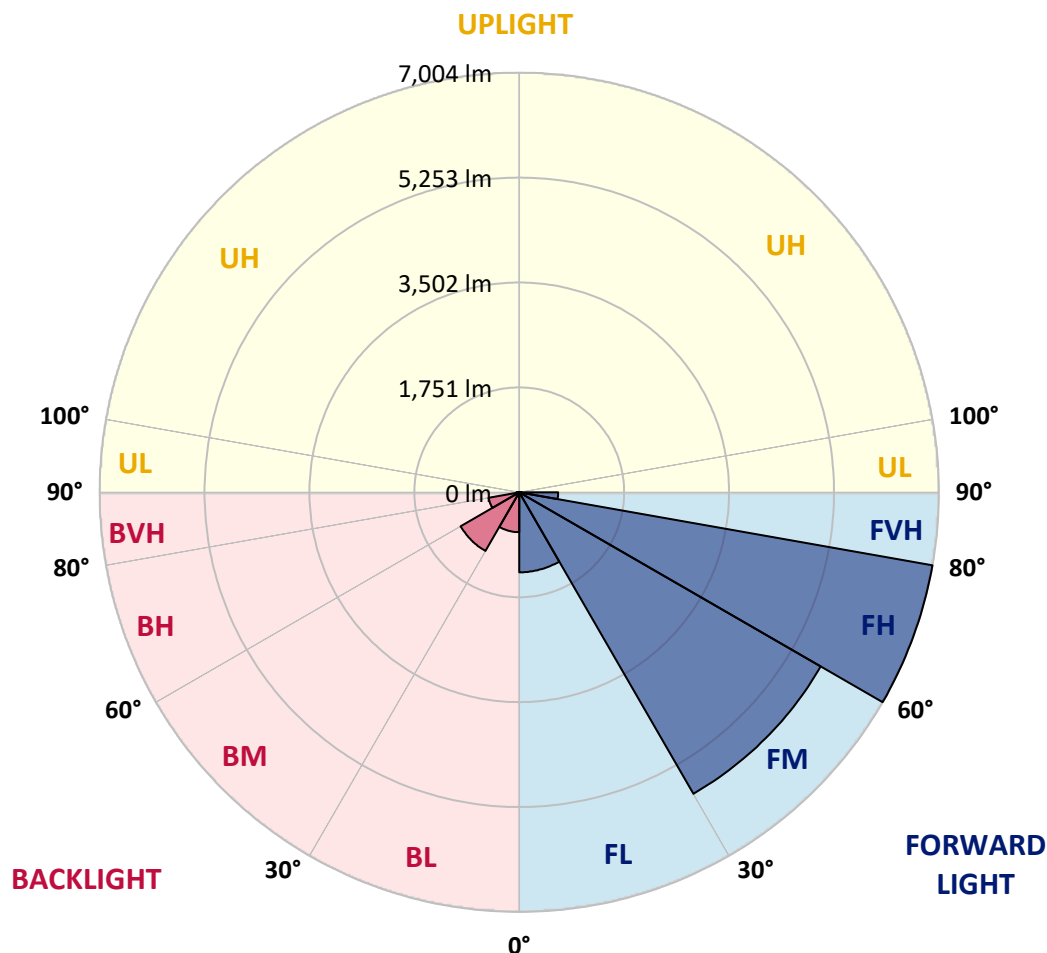
CATALOG NUMBER: GAN-SA3C-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1335.2	7.8			
FM	(30°-60°)	5810.5	33.9			
FH	(60°-80°)	7003.8	40.8			G3/7500
FVH	(80°-90°)	649.3	3.8			G4/750
BL	(0°-30°)	665.1	3.9	B2/1000		
BM	(30°-60°)	1129.9	6.6	B2/2500		
BH	(60°-80°)	519.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	47.2	0.3			G1/100
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: P319927

CATALOG NUMBER: GAN-SA3C-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3126.9	3127.5	3126.9	3122.1	3110.6	3100.9	3093.0	3081.6	3056.2	3036.8	3007.8
5°	3156.5	3152.9	3150.5	3141.4	3123.3	3112.4	3097.3	3075.5	3033.8	2995.1	2948.0
7.5°	3142.6	3138.4	3132.9	3122.1	3101.5	3092.4	3071.3	3042.9	2992.7	2941.9	2874.2
10°	3099.7	3098.5	3096.1	3093.6	3076.1	3068.9	3049.5	3019.3	2969.7	2908.1	2828.9
12.5°	3051.9	3055.0	3064.6	3077.3	3069.5	3065.8	3053.7	3033.2	2982.4	2915.9	2820.4
15°	3021.7	3030.2	3056.2	3089.4	3096.1	3094.9	3091.8	3078.5	3024.7	2951.0	2839.8
17.5°	3011.4	3025.3	3074.9	3129.9	3149.3	3153.5	3154.7	3131.7	3071.9	2993.9	2859.7
20°	3030.2	3047.7	3120.2	3195.8	3226.6	3229.0	3223.6	3183.7	3116.6	3030.8	2870.6
22.5°	3087.0	3102.7	3193.4	3278.6	3313.7	3317.3	3301.0	3240.5	3163.8	3074.3	2885.7
25°	3196.4	3215.7	3306.4	3391.6	3409.8	3410.4	3386.8	3311.9	3225.4	3135.4	2918.3
27.5°	3339.1	3358.4	3440.0	3523.4	3513.7	3508.3	3476.3	3401.3	3305.8	3219.4	2976.4
30°	3498.0	3519.2	3596.6	3655.8	3632.8	3621.9	3596.0	3499.2	3417.6	3334.2	3065.2
32.5°	3662.4	3681.8	3749.5	3790.0	3761.0	3756.1	3716.8	3628.6	3563.3	3509.5	3209.1
35°	3831.1	3845.0	3911.5	3934.5	3895.8	3894.6	3883.7	3802.7	3761.6	3787.0	3418.2
37.5°	4003.4	4007.0	4063.8	4065.0	4053.5	4058.4	4069.9	4019.1	4030.6	4109.7	3690.2
40°	4156.9	4166.6	4207.7	4220.4	4240.3	4257.2	4314.7	4281.4	4370.3	4510.5	4028.7
42.5°	4270.5	4289.3	4355.2	4387.8	4452.5	4479.1	4560.1	4590.9	4769.8	4980.2	4431.3
45°	4366.6	4395.7	4501.4	4568.5	4677.9	4724.5	4840.5	4943.9	5221.4	5489.7	4855.0
47.5°	4470.6	4507.5	4639.9	4768.0	4916.7	4969.3	5180.3	5335.0	5703.1	6002.3	5254.6
50°	4623.5	4651.9	4781.3	4982.6	5168.2	5235.9	5527.8	5749.7	6192.7	6490.7	5601.0
52.5°	4836.9	4826.0	4935.4	5217.7	5466.8	5550.2	5899.0	6190.9	6689.0	6932.6	5893.5
55°	5051.5	5033.4	5110.1	5463.7	5814.9	5902.6	6307.6	6634.0	7161.1	7330.3	6117.8
57.5°	5290.3	5255.8	5320.5	5741.2	6211.5	6316.0	6765.2	7104.9	7625.3	7651.9	6260.4
60°	5536.3	5489.7	5562.3	6085.1	6715.0	6838.3	7300.7	7564.3	8062.9	7909.4	6306.4
62.5°	5751.5	5718.8	5830.7	6469.0	7282.6	7418.0	7826.6	8052.7	8494.5	8016.4	6140.7
65°	5939.5	5944.9	6138.3	6900.6	7915.4	8059.9	8429.8	8654.7	8834.2	7952.9	5753.3
67.5°	6163.7	6194.5	6524.6	7468.7	8712.1	8870.5	9307.5	9311.2	9024.0	7580.6	4990.4
70°	6490.7	6554.2	7055.9	8257.0	9844.9	10062.5	10399.8	9696.8	8757.5	6571.1	3926.6
72.5°	6780.9	6899.3	7621.1	9158.8	11225.5	11390.5	11038.7	9474.4	7643.4	4924.6	2446.3
74°	6663.0	6809.9	7723.8	9603.1	11745.3	11824.5	10822.9	8825.2	6372.9	3410.4	1421.7
75°	6409.1	6568.7	7573.9	9598.9	11679.4	11635.3	10301.9	8083.5	5248.6	2326.0	946.0
77.5°	5172.4	5341.0	6381.9	8226.7	9576.5	9534.8	7913.6	5422.6	2298.8	762.8	480.5
80°	3007.2	3136.0	3961.7	5224.4	6457.5	6533.0	5204.4	2683.2	904.3	428.6	325.8
82.5°	1335.9	1424.7	1913.7	2666.9	3897.0	3994.3	2725.5	1406.0	558.5	260.5	195.8
85°	876.5	942.4	1161.8	1270.0	1855.7	1922.2	1334.1	1094.7	368.7	143.3	143.9
87.5°	630.5	693.9	863.2	753.8	851.7	806.4	726.0	1013.1	148.1	81.6	48.4
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: P319927

CATALOG NUMBER: GAN-SA3C-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	2995.1	2985.4	2963.7	2922.6	2899.6	2880.3	2848.2	2829.5	2821.0	2820.4	2824.1
5°	2920.8	2898.4	2842.2	2773.3	2718.3	2668.1	2605.8	2568.4	2541.8	2526.1	2530.3
7.5°	2834.3	2799.3	2711.0	2601.0	2512.8	2415.4	2319.3	2261.9	2217.2	2183.9	2190.0
10°	2775.1	2726.7	2598.0	2439.6	2292.7	2151.3	2018.9	1939.7	1876.9	1828.5	1832.1
12.5°	2755.1	2689.9	2511.5	2300.0	2093.9	1900.4	1727.6	1606.1	1541.4	1486.4	1490.6
15°	2758.2	2670.5	2439.0	2174.3	1914.9	1671.3	1461.6	1319.5	1231.9	1193.8	1194.4
17.5°	2760.6	2648.2	2362.8	2039.5	1737.8	1457.4	1229.5	1085.6	1002.8	967.7	968.4
20°	2752.7	2611.9	2268.6	1884.7	1552.9	1260.9	1040.3	918.2	855.3	828.1	828.1
22.5°	2742.5	2569.0	2162.2	1729.4	1370.3	1090.5	904.9	811.8	775.5	757.4	756.8
25°	2747.3	2536.9	2053.4	1569.8	1202.3	954.4	814.8	753.2	729.0	717.5	716.9
27.5°	2773.3	2521.8	1953.0	1410.8	1055.4	852.3	754.4	710.8	695.1	687.9	687.9
30°	2820.4	2521.8	1848.4	1275.4	933.3	776.7	707.8	678.2	667.3	662.5	662.5
32.5°	2902.6	2535.7	1747.5	1141.2	836.0	717.5	669.1	649.2	640.7	638.3	638.3
35°	3044.1	2582.9	1649.0	1014.3	757.4	669.1	632.3	620.8	614.7	614.1	615.9
37.5°	3242.9	2679.0	1556.5	920.6	701.8	629.9	601.4	592.4	588.7	591.8	594.2
40°	3493.2	2809.5	1472.5	836.0	659.5	598.4	573.0	567.0	565.2	569.4	573.0
42.5°	3795.4	2986.0	1403.6	774.9	626.8	571.8	548.9	541.6	539.8	544.6	549.5
45°	4122.4	3175.9	1355.2	729.6	601.4	551.9	527.7	519.8	516.2	518.6	524.1
47.5°	4419.8	3355.4	1335.9	697.6	577.3	535.0	509.0	499.3	493.2	492.0	496.3
50°	4670.7	3489.0	1344.9	678.2	557.9	516.2	490.8	479.9	470.9	465.4	468.5
52.5°	4853.2	3573.0	1353.4	669.7	542.8	495.7	470.9	460.6	448.5	439.4	439.4
55°	4985.6	3592.3	1334.7	663.1	531.3	473.3	448.5	438.8	426.8	416.5	415.3
57.5°	5037.6	3537.9	1265.1	653.4	523.5	452.1	424.9	417.7	407.4	395.3	394.7
60°	4967.5	3369.9	1131.0	632.9	513.2	434.6	401.4	396.5	391.7	380.2	379.6
62.5°	4685.8	3001.2	957.5	591.2	492.6	415.9	379.6	382.0	382.6	374.8	373.6
65°	4175.0	2494.6	788.2	536.8	461.8	393.5	357.2	368.7	375.4	374.2	372.3
67.5°	3432.7	1941.5	667.9	479.3	421.3	362.7	333.1	346.4	351.8	356.0	354.8
70°	2547.8	1369.1	552.5	418.9	372.3	326.4	301.6	308.3	304.6	309.5	311.3
72.5°	1420.5	821.5	450.3	358.4	321.6	284.1	266.6	265.4	257.5	257.5	257.5
74°	852.3	602.6	395.9	321.0	290.7	256.3	241.2	235.7	228.5	229.1	228.5
75°	685.5	518.0	363.3	296.2	269.0	240.0	224.9	217.6	212.2	212.2	211.6
77.5°	432.8	393.5	292.6	235.7	215.2	197.7	187.4	177.7	177.7	177.1	176.5
80°	327.0	313.1	227.9	178.3	165.0	151.7	145.1	140.8	140.8	142.7	142.0
82.5°	224.3	235.7	160.2	124.5	117.9	108.2	107.0	107.6	105.8	103.4	102.8
85°	163.8	177.1	108.2	78.6	71.9	65.9	70.7	73.1	70.1	64.7	62.3
87.5°	62.9	116.1	58.0	32.6	30.2	26.0	30.2	31.4	33.8	26.6	27.2
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)