

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: P318978

Luminaire Tested: **GAN-SA4D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25991 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

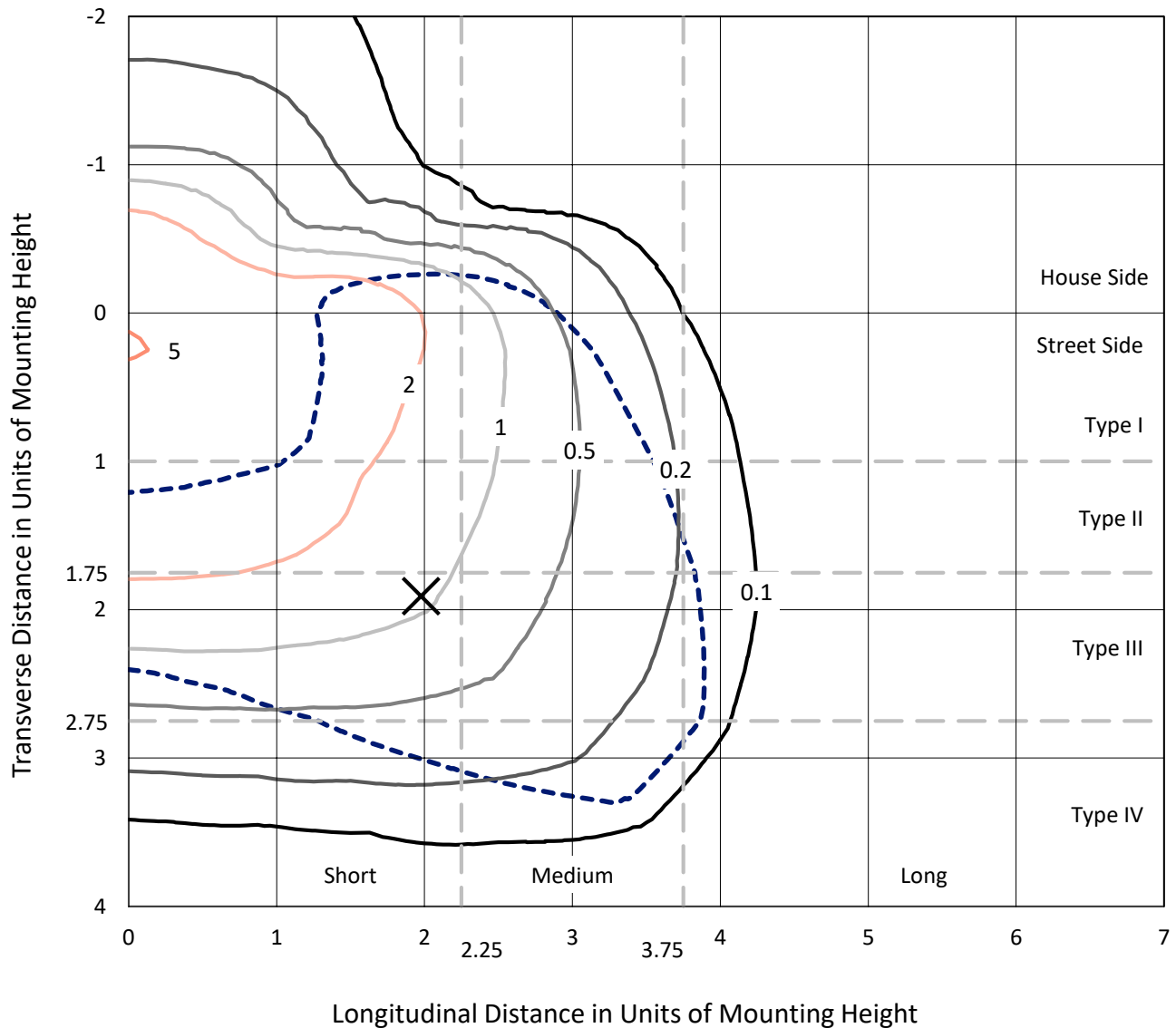
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318978
 CATALOG NUMBER: GAN-SA4D-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

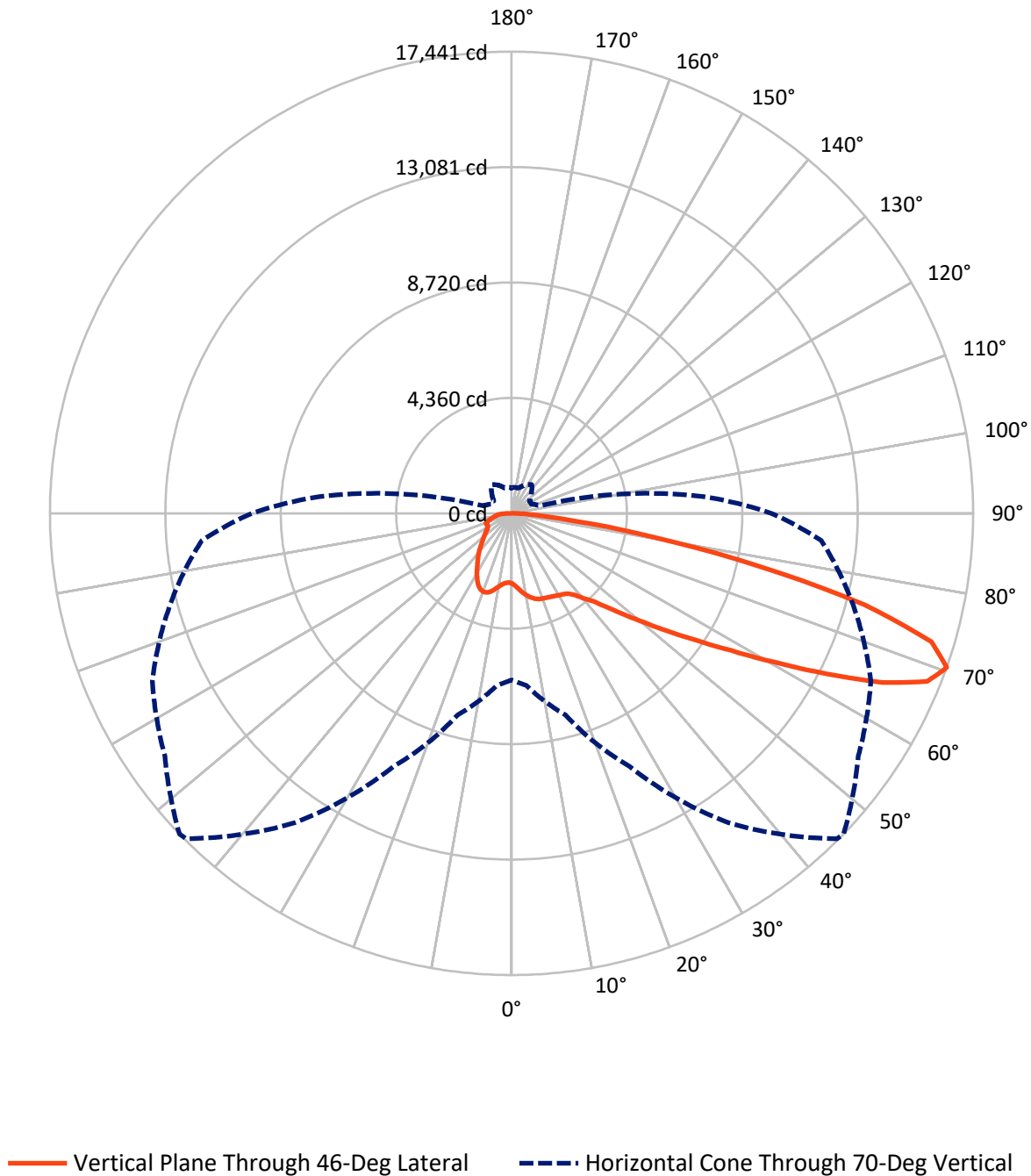
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P318978
CATALOG NUMBER: GAN-SA4D-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P318978

CATALOG NUMBER: GAN-SA4D-727-U-T4W

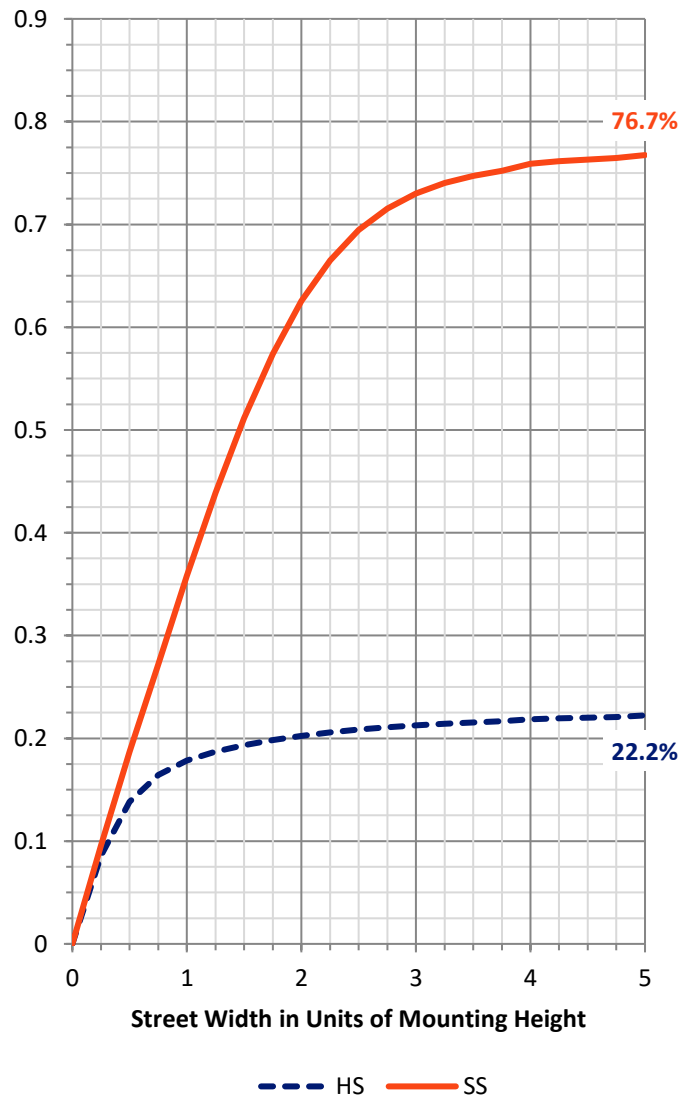
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5957.1	0.0	5957.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20033.9	0.0	20033.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	25991.0	0.0	25991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	1.0
10°-20°	899.4	3.5
20°-30°	1499.6	5.8
30°-40°	2128.0	8.2
40°-50°	3130.2	12.0
50°-60°	5300.9	20.4
60°-70°	7524.6	29.0
70°-80°	4571.3	17.6
80°-90°	667.1	2.6
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°	25991.0	100.0
0°-180°	25991.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318978

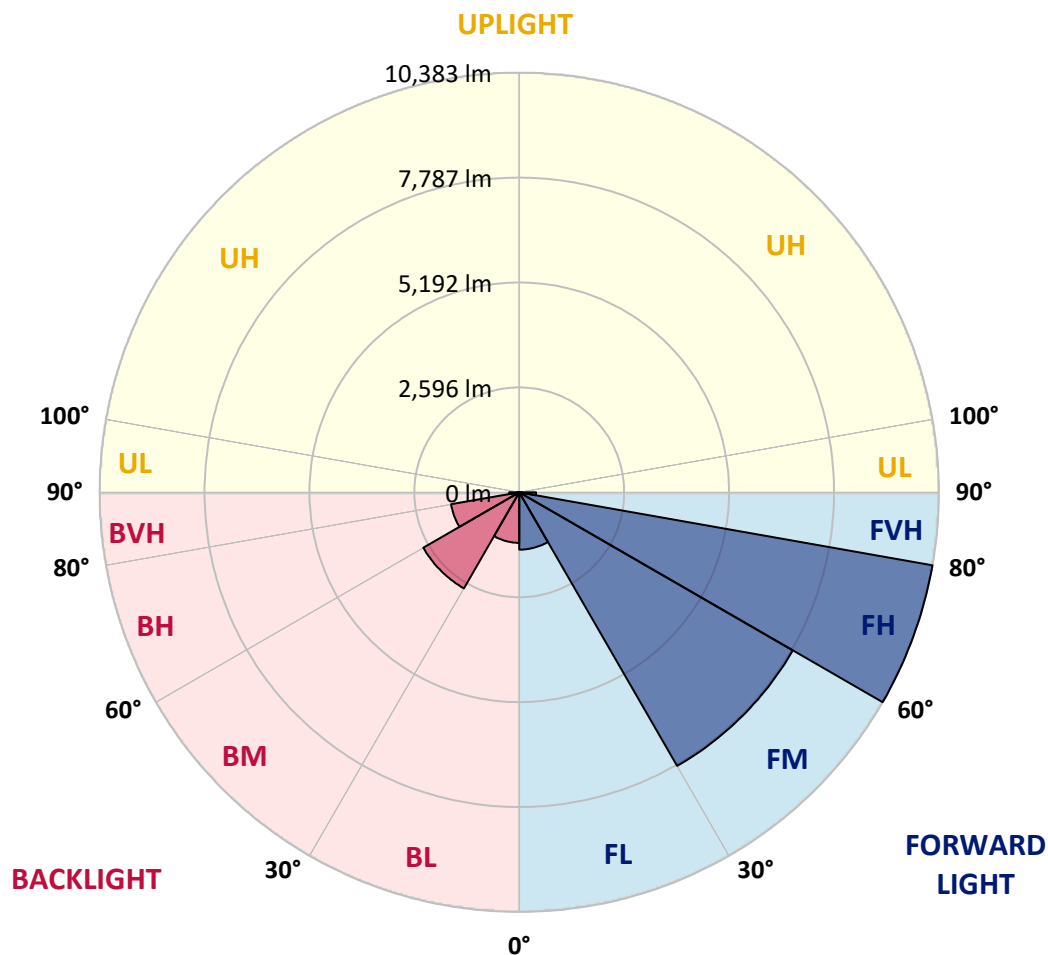
CATALOG NUMBER: GAN-SA4D-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1418.2	5.5			
FM	(30°-60°)	7816.9	30.1			
FH	(60°-80°)	10383.3	39.9			G4/12000
FVH	(80°-90°)	415.6	1.6			G3/500
BL	(0°-30°)	1250.7	4.8	B3/2500		
BM	(30°-60°)	2742.2	10.6	B3/5000		
BH	(60°-80°)	1712.6	6.6	B3/2500		G3/2500
BVH	(80°-90°)	251.6	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P318978

CATALOG NUMBER: GAN-SA4D-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0
2.5°	2780.5	2782.3	2785.8	2776.9	2752.0	2744.9	2742.3	2716.5	2699.6	2674.7	2653.3
5°	3002.9	3004.7	2999.3	2974.4	2919.3	2878.3	2874.8	2816.1	2762.7	2705.8	2663.1
7.5°	3235.0	3237.7	3220.8	3173.7	3096.3	3025.1	3020.7	2940.6	2859.7	2773.4	2709.3
10°	3440.5	3429.8	3402.3	3336.4	3244.8	3157.6	3154.1	3070.5	2977.1	2873.0	2787.6
12.5°	3577.5	3568.6	3533.0	3453.0	3352.4	3272.4	3265.3	3187.9	3097.2	2983.3	2881.0
15°	3653.1	3659.3	3611.3	3520.6	3422.7	3355.1	3348.9	3293.7	3212.8	3098.0	2980.6
17.5°	3662.9	3668.2	3622.0	3532.1	3452.1	3405.8	3403.1	3366.7	3308.0	3197.7	3074.9
20°	3605.9	3609.5	3571.3	3497.4	3444.9	3430.7	3429.8	3413.8	3370.2	3272.4	3153.2
22.5°	3523.2	3525.9	3498.3	3444.9	3427.2	3449.4	3455.6	3449.4	3418.3	3326.6	3214.6
25°	3502.8	3501.0	3472.5	3418.3	3433.4	3480.5	3488.5	3491.2	3469.9	3389.8	3292.8
27.5°	3601.5	3595.3	3541.0	3453.8	3463.6	3520.6	3531.2	3557.0	3543.7	3473.4	3381.8
30°	3887.0	3876.3	3765.2	3589.0	3541.0	3570.4	3583.7	3624.6	3627.3	3568.6	3500.1
32.5°	4369.1	4355.8	4156.5	3841.7	3671.8	3621.1	3633.5	3694.9	3727.8	3682.4	3608.6
35°	4978.4	4963.3	4701.8	4271.3	3890.6	3718.0	3726.9	3775.8	3841.7	3777.6	3679.8
37.5°	5613.5	5577.0	5325.3	4776.5	4238.4	3925.3	3925.3	3931.5	3962.6	3829.2	3763.4
40°	6245.0	6208.6	5980.8	5370.7	4688.4	4251.7	4231.2	4093.4	4068.5	3953.7	3931.5
42.5°	6832.1	6821.4	6687.1	6042.2	5216.8	4572.8	4544.3	4310.4	4315.7	4244.6	4245.5
45°	7456.5	7456.5	7347.1	6720.0	5832.3	5088.7	5060.2	4716.0	4769.4	4736.5	4815.6
47.5°	7966.2	7982.2	7967.0	7426.2	6548.3	5744.2	5692.7	5278.2	5427.6	5540.6	5770.9
50°	8486.5	8511.4	8514.1	8201.0	7413.8	6523.4	6464.7	6024.4	6358.0	6681.8	7134.5
52.5°	9241.7	9297.7	9074.4	8973.9	8474.1	7448.5	7390.7	6984.2	7541.0	7995.5	8775.6
55°	9941.7	9892.8	9733.6	9795.8	9609.0	8501.6	8458.0	8101.4	8859.2	9449.8	10462.9
57.5°	10320.6	10317.0	10477.2	10744.0	10832.9	9800.3	9763.8	9416.9	10345.5	10789.4	12047.1
60°	10765.3	10771.6	11168.3	11774.0	12140.5	11417.3	11401.3	11138.0	11789.1	12040.0	13289.7
62.5°	10827.6	10939.7	11622.8	12665.3	13364.4	13306.6	13342.2	12688.4	13080.7	13038.0	14217.4
65°	10111.6	10259.2	11495.6	12934.8	14581.2	15372.8	15405.7	14247.6	14099.1	13891.0	14549.2
67.5°	8643.9	8862.8	10205.9	12348.6	14982.4	16900.1	16946.3	15456.4	14944.1	14180.0	13750.4
70°	6290.4	6533.2	7885.2	10546.5	14267.2	17388.4	17440.9	15991.0	14976.1	13357.3	11738.4
72.5°	3799.8	3990.2	5104.7	7764.2	12041.7	16498.9	16592.3	15313.2	13673.0	11314.2	8668.0
75°	1668.7	1793.2	2468.3	4474.1	8620.8	13650.8	13767.3	13107.3	11109.6	8222.3	5123.4
77.5°	710.7	746.3	1012.2	1943.5	4873.4	9327.9	9488.1	9577.0	7537.4	4474.1	2165.0
80°	443.0	457.2	572.8	879.7	2280.6	5239.0	5411.6	5634.8	3742.9	1644.6	756.1
82.5°	269.5	285.5	380.7	531.9	1187.5	2374.9	2457.6	2615.1	1452.5	710.7	391.4
85°	161.9	173.4	233.0	336.2	676.0	934.0	933.1	1031.8	684.0	457.2	206.4
87.5°	77.4	86.3	124.5	174.3	340.7	350.5	328.2	371.8	415.4	299.8	104.1
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: P318978

CATALOG NUMBER: GAN-SA4D-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0	2648.0
2.5°	2646.2	2642.6	2631.1	2622.2	2620.4	2615.1	2610.6	2613.3	2616.8	2617.7	2617.7
5°	2645.3	2635.5	2620.4	2614.2	2622.2	2632.9	2646.2	2664.0	2674.7	2682.7	2688.0
7.5°	2688.0	2669.3	2652.4	2648.9	2664.9	2693.3	2723.6	2760.9	2786.7	2804.5	2808.1
10°	2759.2	2736.0	2719.1	2722.7	2751.2	2792.1	2834.8	2882.8	2921.9	2945.9	2947.7
12.5°	2841.0	2818.8	2802.7	2817.9	2865.0	2914.8	2959.3	3001.1	3036.7	3060.7	3060.7
15°	2935.3	2919.3	2900.6	2935.3	2999.3	3043.8	3062.5	3082.9	3102.5	3120.3	3116.7
17.5°	3026.0	3010.9	3001.1	3042.0	3108.7	3129.2	3116.7	3101.6	3101.6	3111.4	3113.2
20°	3104.3	3090.9	3097.2	3137.2	3171.9	3150.5	3104.3	3056.2	3036.7	3042.0	3047.3
22.5°	3172.8	3166.5	3185.2	3203.9	3179.0	3104.3	3018.9	2954.0	2929.9	2928.2	2929.9
25°	3252.8	3251.9	3275.1	3241.3	3131.0	2993.1	2878.3	2815.2	2801.9	2812.5	2830.3
27.5°	3352.4	3362.2	3373.8	3250.2	3033.1	2825.0	2708.5	2664.9	2678.2	2704.0	2720.9
30°	3479.6	3506.3	3481.4	3227.9	2892.6	2632.9	2521.7	2509.2	2545.7	2582.2	2599.9
32.5°	3603.3	3645.1	3584.6	3170.1	2711.1	2429.2	2342.9	2339.3	2383.8	2419.4	2444.3
35°	3702.9	3785.6	3662.0	3055.4	2501.2	2241.5	2178.3	2154.3	2170.3	2212.1	2240.6
37.5°	3832.8	3970.6	3715.3	2880.1	2273.5	2086.7	2012.9	1957.7	1943.5	1960.4	1974.6
40°	4070.2	4252.6	3740.3	2635.5	2051.1	1931.9	1857.2	1776.3	1720.2	1679.3	1680.2
42.5°	4458.1	4619.9	3724.2	2338.4	1845.7	1780.7	1696.2	1602.8	1512.1	1419.6	1412.5
45°	5087.8	5166.1	3676.2	2023.6	1665.1	1622.4	1543.2	1449.8	1328.9	1223.9	1214.1
47.5°	6095.6	5922.1	3601.5	1748.7	1505.9	1488.1	1415.2	1307.5	1179.4	1094.9	1087.8
50°	7469.8	7013.5	3565.0	1529.9	1365.3	1370.7	1311.1	1197.2	1076.3	1014.0	1006.9
52.5°	9113.6	8284.6	3635.3	1360.9	1252.4	1271.1	1226.6	1119.9	1018.5	969.5	962.4
55°	10818.7	9601.0	3710.9	1238.2	1145.6	1182.1	1167.0	1078.9	987.3	942.0	935.7
57.5°	12278.3	10583.9	3559.7	1138.5	1050.5	1107.4	1120.7	1053.1	971.3	930.4	923.3
60°	13197.2	10979.7	3163.0	1045.1	974.9	1047.8	1094.1	1046.0	977.5	974.0	968.6
62.5°	13633.0	10945.0	2567.9	971.3	927.7	1022.0	1113.6	1086.1	1048.7	1080.7	1083.4
65°	13437.3	10422.0	1912.4	922.4	893.9	1031.8	1172.3	1161.7	1069.2	1101.2	1105.6
67.5°	12149.4	9174.1	1416.0	879.7	856.6	1059.4	1279.1	1186.6	1029.1	1052.3	1038.0
70°	9819.8	7273.3	1092.3	831.7	818.3	1055.8	1327.1	1171.4	985.5	990.9	952.6
72.5°	6771.6	4959.7	888.6	787.2	763.2	962.4	1293.3	1134.1	949.1	908.2	857.5
75°	3682.4	2662.2	755.2	740.9	666.2	845.0	1231.0	1107.4	916.2	861.9	833.4
77.5°	1449.0	1104.7	655.5	677.8	582.6	746.3	1161.7	1056.7	870.8	799.6	785.4
80°	591.5	563.9	543.5	586.2	500.8	652.9	1078.0	997.1	816.5	741.8	713.4
82.5°	335.3	350.5	422.5	462.5	406.5	601.3	1038.0	949.1	751.6	664.4	630.6
85°	171.7	205.5	294.4	331.8	298.9	511.4	956.2	830.8	603.1	508.8	511.4
87.5°	82.7	114.7	185.9	208.1	193.9	370.0	714.3	602.2	469.6	371.8	360.2
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)