

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: P322494

Luminaire Tested: **GAN-SA0C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322494
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-SA0C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 41578 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

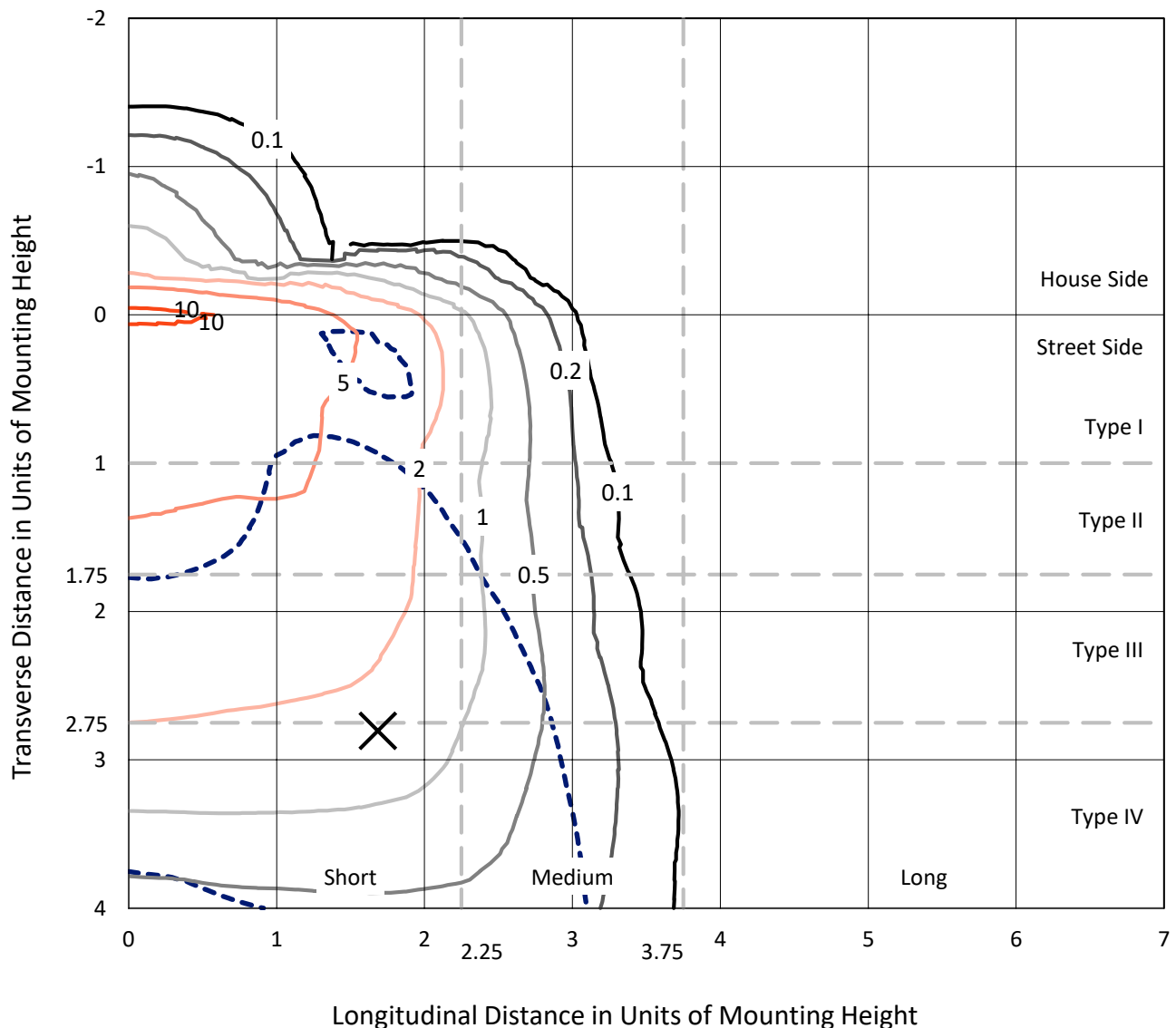
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322494
 CATALOG NUMBER: GAN-SA0C-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

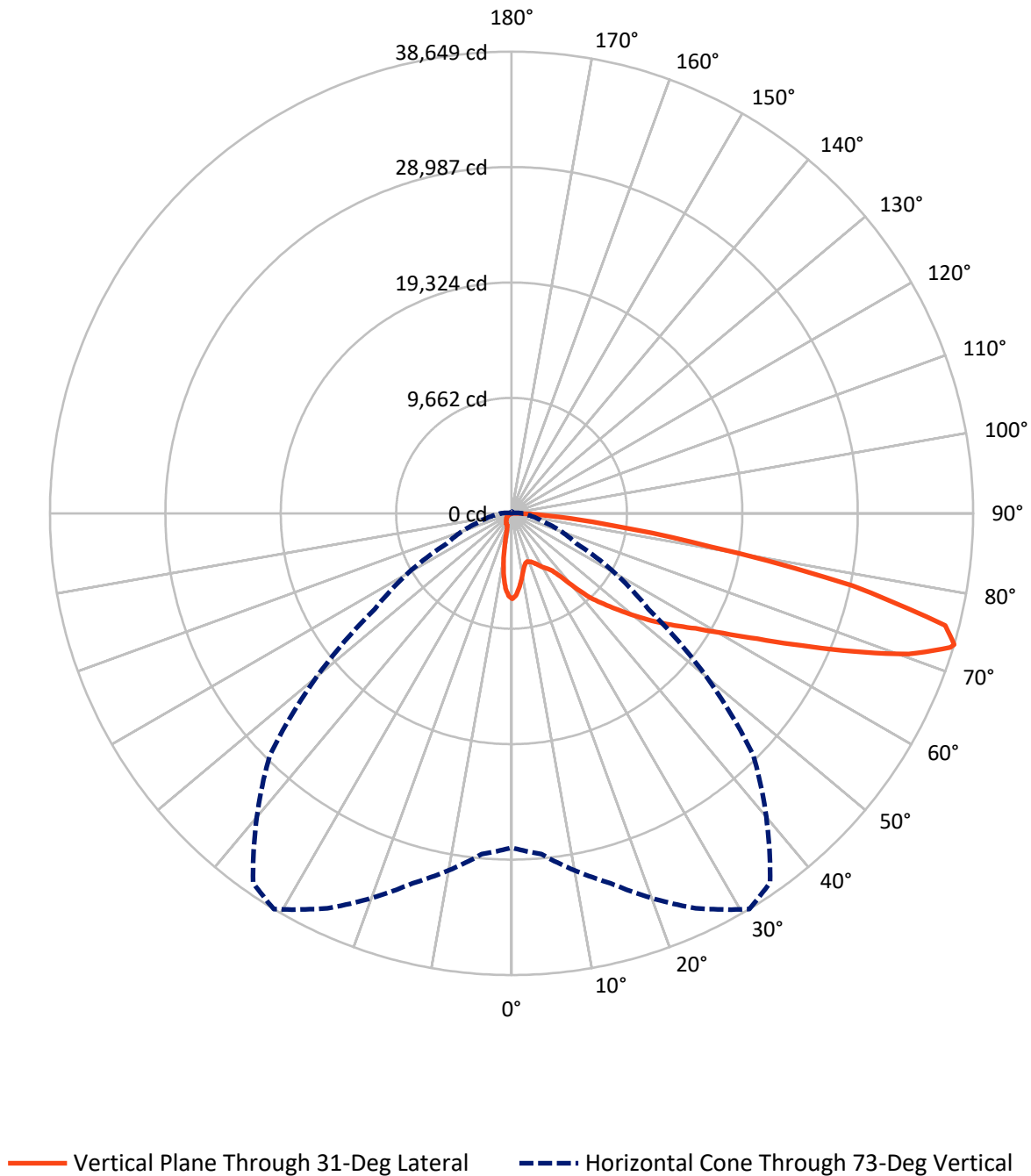
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P322494
CATALOG NUMBER: GAN-SA0C-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322494

CATALOG NUMBER: GAN-SA0C-727-U-T4FT-HSS

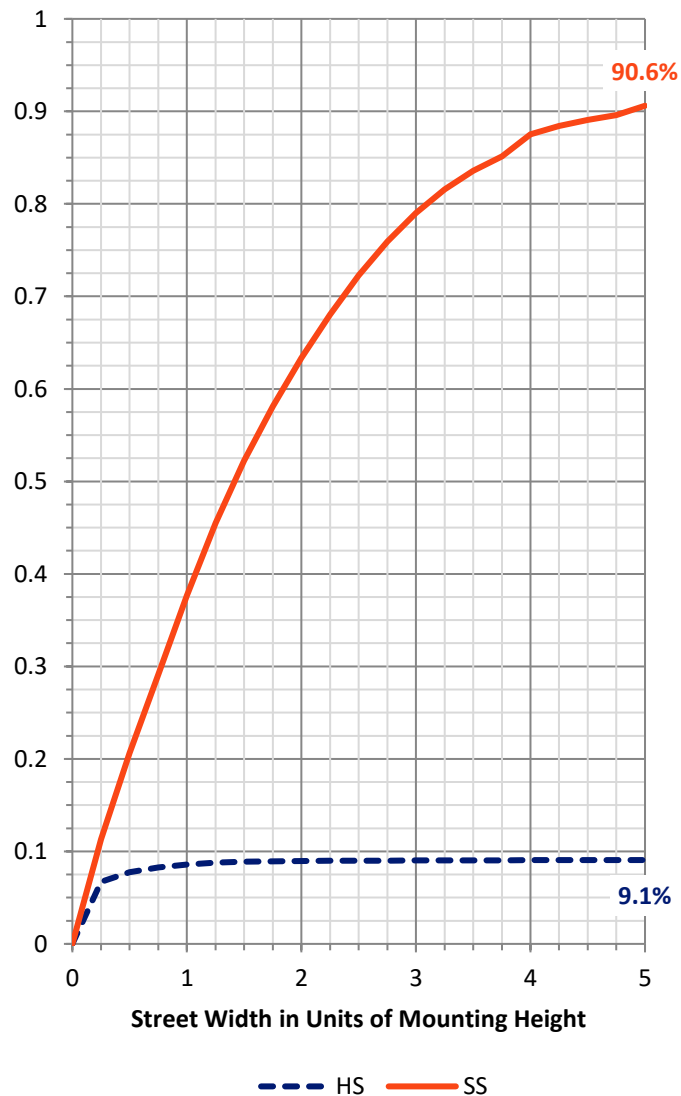
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3790.0	0.0	3790.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	37788.0	0.0	37788.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	41578.0	0.0	41578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.1	1.4
10°-20°	1287.9	3.1
20°-30°	1929.6	4.6
30°-40°	3070.0	7.4
40°-50°	5482.1	13.2
50°-60°	8506.7	20.5
60°-70°	11308.5	27.2
70°-80°	8506.3	20.5
80°-90°	893.8	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°	41578.0	100.0
0°-180°	41578.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322494

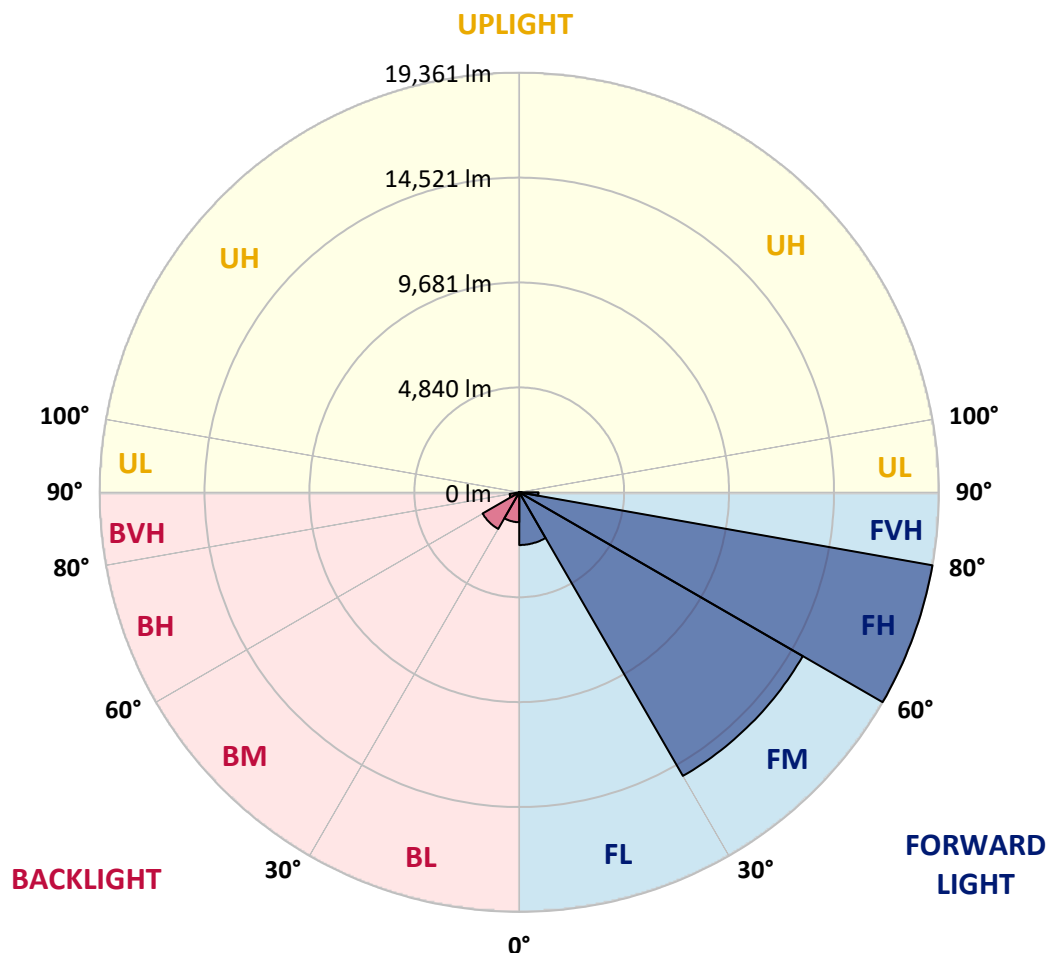
CATALOG NUMBER: GAN-SA0C-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2432.4	5.9			
FM	(30°-60°)	15108.0	36.3			
FH	(60°-80°)	19361.3	46.6			G5
FVH	(80°-90°)	886.3	2.1			G5
BL	(0°-30°)	1378.2	3.3	B3/2500		
BM	(30°-60°)	1950.8	4.7	B2/2500		
BH	(60°-80°)	453.5	1.1	B1/500		G1/500
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P322494

CATALOG NUMBER: GAN-SA0C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6
2.5°	6779.2	6807.7	6838.2	6844.3	6895.2	6897.2	6970.5	7025.4	7080.3	7133.2	7151.5
5°	6083.4	6130.2	6185.1	6240.1	6347.9	6390.6	6569.7	6752.8	6927.7	7094.6	7176.0
7.5°	5340.8	5393.7	5471.0	5607.3	5727.3	5810.8	6093.6	6419.1	6744.6	7051.9	7228.9
10°	4663.3	4712.1	4793.5	4937.9	5123.1	5237.0	5617.5	6069.1	6547.3	7013.2	7308.2
12.5°	4231.9	4258.4	4303.1	4457.8	4624.6	4752.8	5200.4	5759.9	6384.5	7011.2	7436.4
15°	4152.6	4160.7	4124.1	4193.3	4323.5	4447.6	4901.3	5509.6	6260.4	7043.7	7603.2
17.5°	4278.7	4274.7	4152.6	4144.4	4248.2	4349.9	4754.8	5336.7	6172.9	7119.0	7818.9
20°	4470.0	4455.7	4244.1	4205.5	4315.3	4411.0	4744.6	5271.6	6140.4	7245.1	8081.3
22.5°	4724.3	4699.9	4368.2	4327.5	4445.6	4545.2	4870.8	5334.7	6168.8	7414.0	8386.5
25°	5039.7	5003.0	4581.9	4537.1	4657.2	4756.8	5096.6	5515.7	6254.3	7619.5	8773.1
27.5°	5395.7	5342.8	4923.7	4807.7	4944.0	5047.8	5397.7	5792.4	6388.6	7837.2	9247.2
30°	5731.4	5662.2	5283.8	5092.6	5259.4	5375.4	5723.3	6122.0	6604.2	8172.9	9896.2
32.5°	6069.1	5991.8	5605.3	5377.4	5528.0	5654.1	6059.0	6575.8	7009.1	8685.6	10758.9
35°	6846.4	6765.0	6290.9	5914.5	5912.5	5983.7	6529.0	7196.3	7544.2	9399.8	11788.4
37.5°	8154.6	8107.8	7656.1	6942.0	6750.7	6671.4	7169.9	7936.9	8313.3	10382.5	12950.1
40°	9586.9	9546.2	9039.6	8392.6	8101.7	7906.4	8089.5	8968.4	9399.8	11582.9	14136.3
42.5°	11204.4	11011.1	10107.8	9914.5	9654.1	9505.6	9340.8	10240.0	10734.4	12889.1	15312.2
45°	12673.4	12347.9	11175.9	10883.0	10824.0	10860.6	10952.1	11949.1	12236.0	14441.4	16484.2
47.5°	13548.3	13291.9	12392.6	12111.8	12095.6	12337.7	13029.4	13879.9	13731.4	15794.4	17515.7
50°	14380.4	14148.5	13401.8	13470.9	13546.2	13875.8	15387.5	15865.6	15096.6	17021.3	18461.8
52.5°	15053.9	14699.8	14309.2	14697.8	15068.1	15599.1	17820.9	17647.9	16065.0	17997.9	19271.5
55°	15442.5	15281.7	15470.9	15861.6	16557.4	17420.1	20117.9	19131.1	16773.1	18889.0	19810.7
57.5°	16866.7	16551.3	16927.7	17265.4	18172.9	19379.4	22085.4	20235.9	17283.7	19440.4	19934.8
60°	18589.9	18335.6	18557.4	19118.9	20343.8	21761.9	23924.6	21137.2	17550.3	19794.4	19613.3
62.5°	21332.6	20996.9	20858.5	21487.2	23110.8	24659.1	25320.3	21761.9	17491.3	19637.8	18510.6
65°	25007.0	24659.1	24040.6	24610.3	26675.4	27767.9	26880.9	21894.1	17084.4	18370.2	15723.2
67.5°	28771.0	28518.7	27989.7	28950.0	30813.7	31165.7	28530.9	21572.6	15774.1	14895.2	11108.8
70°	31257.2	31149.4	31493.2	33617.4	35279.6	35177.9	30044.6	19845.3	12295.0	9159.7	5495.4
72.5°	29464.8	29981.6	32520.7	36372.2	38402.7	37572.6	29267.4	15239.0	7027.4	3523.9	1589.0
73°	27979.5	28640.8	32058.9	36475.9	38648.9	37739.4	28614.3	13987.7	5989.8	2781.3	1204.5
75°	19464.8	20276.6	26541.1	33971.4	37497.3	35957.1	23851.4	8561.5	2775.2	1233.0	486.3
77.5°	9450.6	10050.8	14614.4	24545.2	29161.6	28093.5	14848.4	3190.2	1253.3	771.1	223.8
80°	3528.0	3922.7	6343.8	12492.3	16852.4	17293.9	6531.0	1206.5	834.2	620.5	113.9
82.5°	923.7	1029.5	2339.8	5570.7	8636.8	9039.6	2059.0	608.3	610.4	510.7	69.2
85°	295.0	337.7	730.4	2500.5	4069.2	3572.7	537.1	295.0	443.5	380.5	38.7
87.5°	36.6	46.8	231.9	588.0	897.2	498.5	83.4	87.5	189.2	211.6	22.4
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: P322494

CATALOG NUMBER: GAN-SA0C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6	7153.6
2.5°	7169.9	7159.7	7161.7	7108.8	7074.2	7005.1	6933.8	6901.3	6866.7	6852.5	6866.7
5°	7206.5	7188.2	7135.3	6972.5	6799.6	6575.8	6366.2	6207.5	6008.1	5953.2	6010.1
7.5°	7263.4	7226.8	7072.2	6740.6	6356.0	5928.8	5448.6	5098.7	4811.8	4626.6	4693.8
10°	7346.9	7277.7	6966.4	6402.8	5715.1	4958.3	4276.7	3745.7	3369.3	3214.6	3208.5
12.5°	7487.3	7357.0	6836.2	5963.4	4931.8	3922.7	3029.5	2453.7	2148.5	1951.2	1947.1
15°	7641.9	7450.6	6671.4	5436.4	4020.3	2809.8	1951.2	1513.7	1316.4	1253.3	1245.2
17.5°	7831.1	7558.5	6457.8	4787.4	3066.1	1861.6	1273.6	1147.5	1139.4	1133.3	1133.3
20°	8069.1	7686.6	6183.1	4044.7	2175.0	1243.1	1082.4	1090.5	1094.6	1086.5	1088.5
22.5°	8345.8	7816.9	5855.5	3247.2	1471.0	1039.7	1035.6	1045.8	1049.8	1045.8	1047.8
25°	8667.3	7967.4	5456.7	2411.0	1062.1	986.8	996.9	1011.2	1021.4	1021.4	1021.4
27.5°	9066.1	8150.5	4976.6	1682.6	917.6	931.8	960.3	986.8	1001.0	1005.1	1005.1
30°	9584.9	8378.4	4400.8	1153.6	834.2	858.6	911.5	962.4	988.8	992.9	994.9
32.5°	10240.0	8634.8	3733.5	852.5	763.0	781.3	838.2	923.7	974.6	982.7	982.7
35°	10990.8	8931.8	3015.2	742.6	712.1	718.2	763.0	860.6	950.1	972.5	974.6
37.5°	11812.8	9224.8	2293.0	693.8	669.4	669.4	701.9	785.3	891.1	960.3	968.5
40°	12579.8	9401.8	1607.3	655.1	630.7	630.7	659.2	720.2	819.9	923.7	946.1
42.5°	13287.8	9462.8	1119.0	618.5	594.1	600.2	624.6	673.4	748.7	852.5	872.8
45°	14016.2	9452.7	815.9	575.8	557.5	575.8	594.1	630.7	685.7	744.7	748.7
47.5°	14565.6	9367.2	647.0	535.1	522.9	547.3	563.6	588.0	618.5	614.4	614.4
50°	15080.3	9159.7	520.9	480.2	488.3	516.8	524.9	533.1	535.1	496.4	492.4
52.5°	15470.9	8836.2	417.1	421.2	453.7	482.2	474.1	461.8	441.5	394.7	386.6
55°	15601.2	8213.6	327.6	347.9	402.8	439.5	409.0	382.5	343.8	305.2	297.0
57.5°	15365.1	7409.9	266.5	270.6	339.8	370.3	335.7	305.2	262.5	229.9	223.8
60°	14864.6	6516.8	219.7	203.5	262.5	288.9	266.5	236.0	197.4	172.9	170.9
62.5°	13871.8	5564.6	181.1	158.7	199.4	221.8	207.5	185.1	152.6	136.3	134.3
65°	11784.3	4451.7	146.5	128.2	154.6	172.9	160.7	144.5	120.0	107.8	105.8
67.5°	8225.8	3009.1	120.0	105.8	122.1	136.3	126.1	118.0	95.6	93.6	95.6
70°	3967.4	1450.7	99.7	85.5	95.6	105.8	101.7	95.6	91.6	105.8	122.1
72.5°	1137.3	486.3	79.3	71.2	77.3	83.4	87.5	85.5	99.7	128.2	148.5
73°	874.9	392.7	75.3	67.1	73.2	81.4	85.5	83.4	101.7	130.2	148.5
75°	374.4	189.2	57.0	54.9	61.0	71.2	75.3	75.3	101.7	132.2	142.4
77.5°	168.9	101.7	36.6	42.7	52.9	57.0	63.1	63.1	81.4	101.7	101.7
80°	95.6	54.9	28.5	32.6	38.7	38.7	38.7	34.6	36.6	40.7	44.8
82.5°	61.0	36.6	22.4	26.4	24.4	20.3	16.3	16.3	14.2	16.3	20.3
85°	34.6	20.3	20.3	16.3	10.2	8.1	10.2	8.1	2.0	0.0	2.0
87.5°	20.3	12.2	6.1	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)