

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: P319929

Luminaire Tested: **GAN-SA5C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319929
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-SA5C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 28093 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

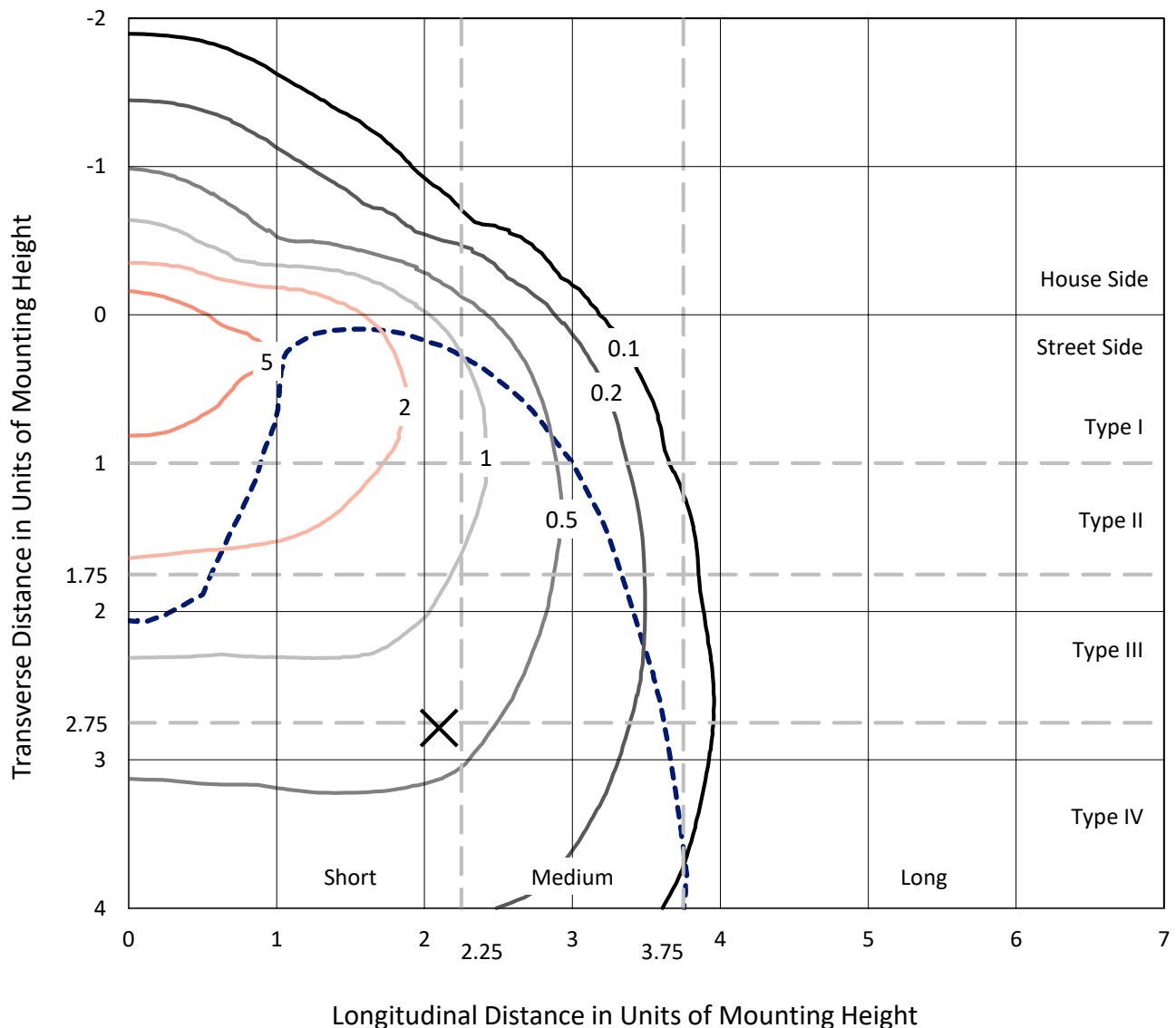
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319929
 CATALOG NUMBER: GAN-SA5C-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

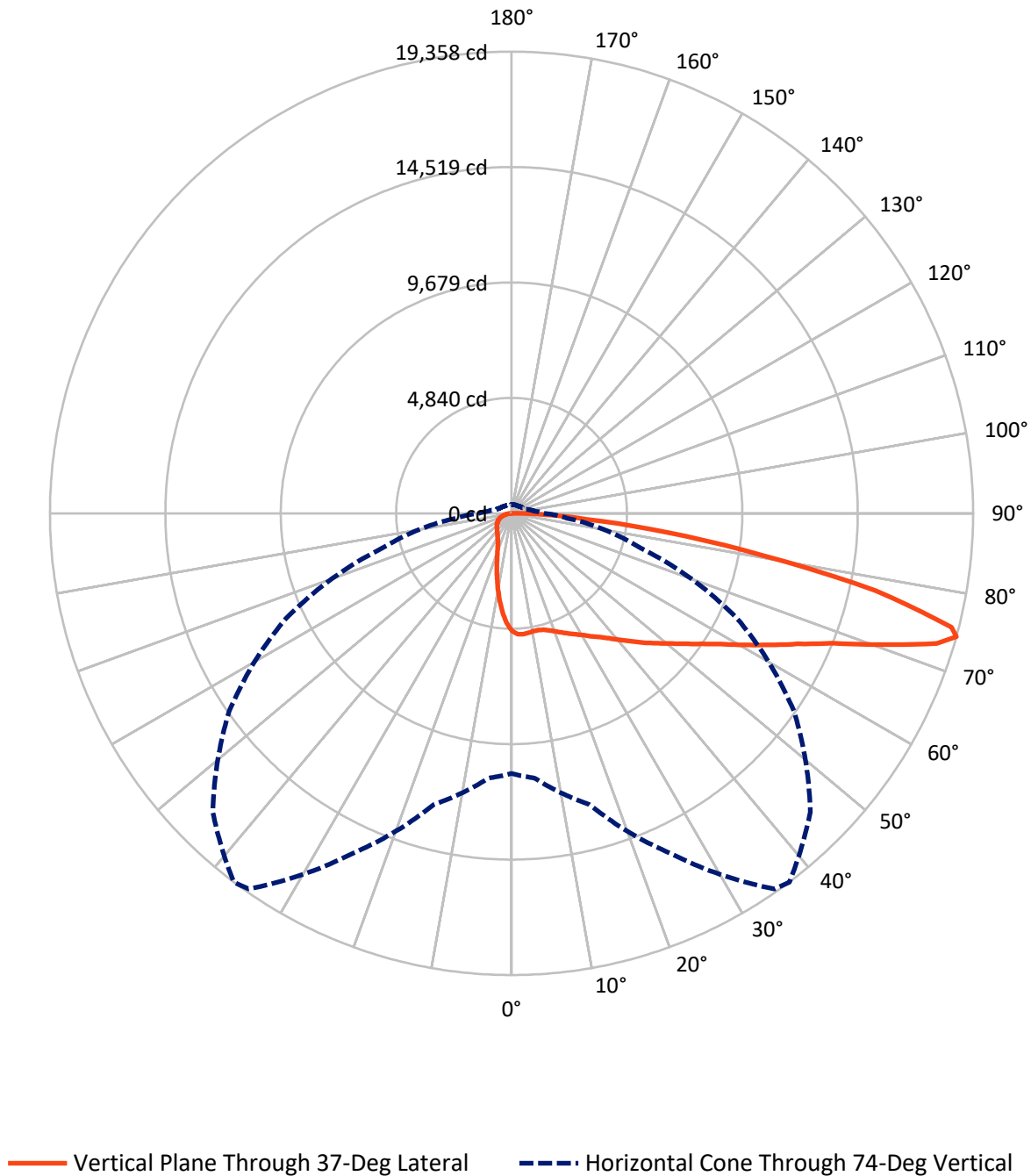
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P319929
CATALOG NUMBER: GAN-SA5C-727-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P319929

CATALOG NUMBER: GAN-SA5C-727-U-SL4

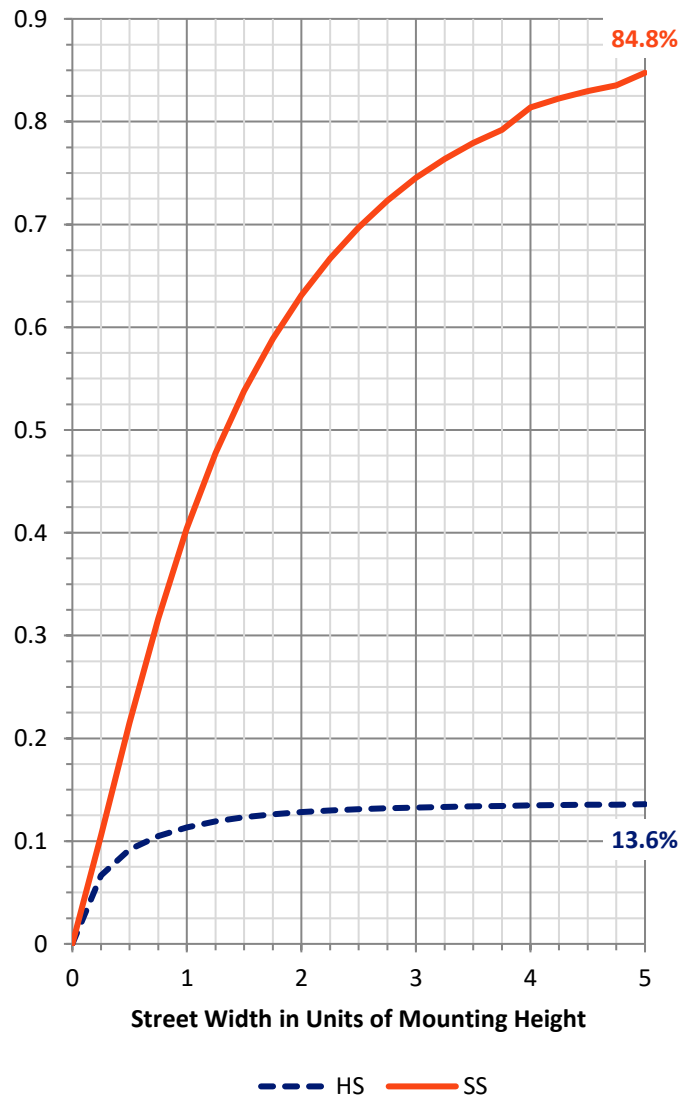
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.4	0.0	3865.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	24227.6	0.0	24227.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	28093.0	0.0	28093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.9	1.6
10°-20°	1117.3	4.0
20°-30°	1721.6	6.1
30°-40°	2503.4	8.9
40°-50°	3684.6	13.1
50°-60°	5174.3	18.4
60°-70°	6549.1	23.3
70°-80°	5766.7	20.5
80°-90°	1140.2	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°	28093.0	100.0
0°-180°	28093.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319929

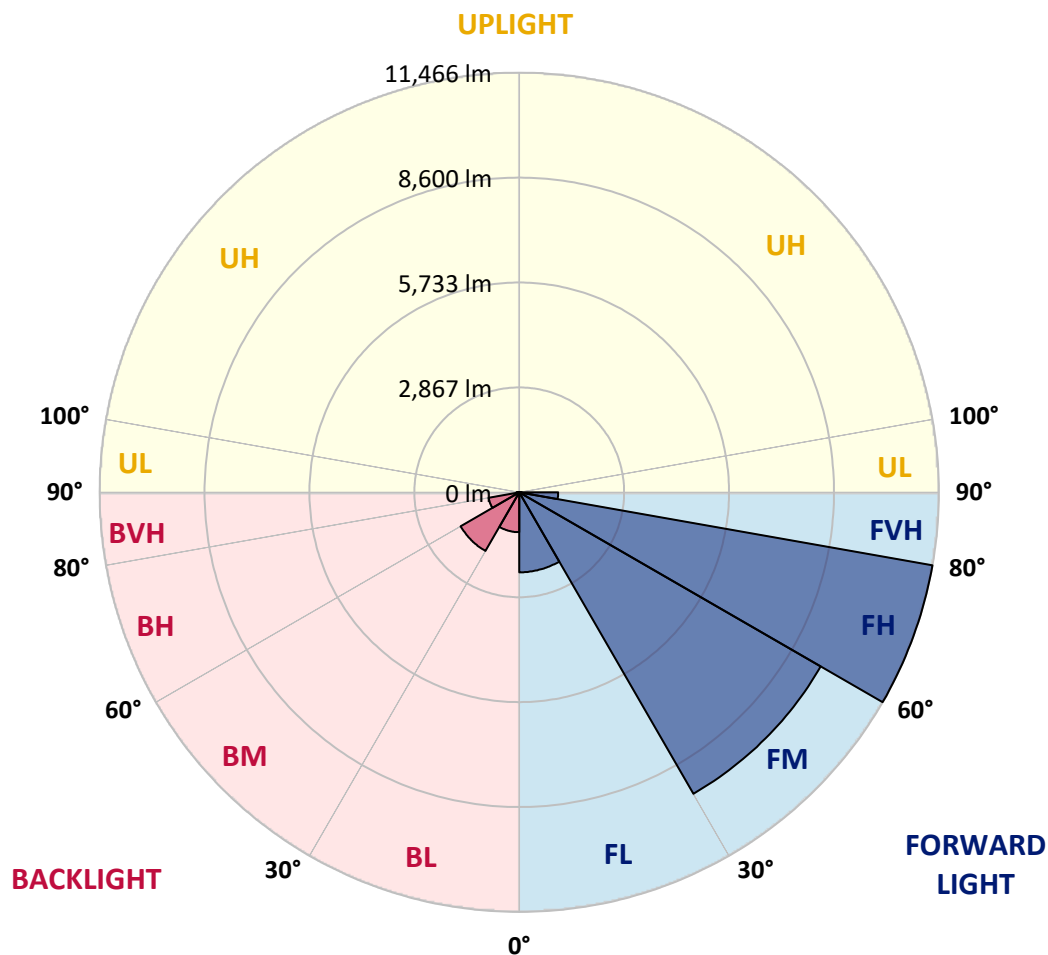
CATALOG NUMBER: GAN-SA5C-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2186.0	7.8			
FM	(30°-60°)	9512.5	33.9			
FH	(60°-80°)	11466.1	40.8			G4/12000
FVH	(80°-90°)	1063.0	3.8			G5
BL	(0°-30°)	1088.8	3.9	B3/2500		
BM	(30°-60°)	1849.7	6.6	B2/2500		
BH	(60°-80°)	849.7	3.0	B2/1000		G2/1000
BVH	(80°-90°)	77.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P319929

CATALOG NUMBER: GAN-SA5C-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9
2.5°	5119.1	5120.1	5119.1	5111.2	5092.4	5076.5	5063.7	5044.9	5003.3	4971.6	4924.1
5°	5167.6	5161.6	5157.7	5142.8	5113.2	5095.3	5070.6	5035.0	4966.7	4903.4	4826.2
7.5°	5144.8	5137.9	5129.0	5111.2	5077.5	5062.7	5028.1	4981.5	4899.4	4816.3	4705.5
10°	5074.6	5072.6	5068.6	5064.7	5036.0	5024.1	4992.4	4943.0	4861.8	4760.9	4631.2
12.5°	4996.4	5001.3	5017.2	5038.0	5025.1	5019.1	4999.4	4965.7	4882.6	4773.7	4617.4
15°	4946.9	4960.8	5003.3	5057.7	5068.6	5066.6	5061.7	5039.9	4951.9	4831.1	4649.0
17.5°	4930.1	4952.8	5034.0	5124.0	5155.7	5162.6	5164.6	5127.0	5029.0	4901.4	4681.7
20°	4960.8	4989.5	5108.2	5231.9	5282.4	5286.3	5277.4	5212.1	5102.3	4961.8	4699.5
22.5°	5053.8	5079.5	5227.9	5367.5	5424.9	5430.8	5404.1	5305.1	5179.5	5033.0	4724.3
25°	5232.9	5264.6	5413.0	5552.5	5582.2	5583.2	5544.6	5421.9	5280.4	5132.9	4777.7
27.5°	5466.4	5498.1	5631.7	5768.3	5752.4	5743.5	5691.1	5568.4	5412.0	5270.5	4872.7
30°	5726.7	5761.3	5888.0	5985.0	5947.4	5929.6	5887.0	5728.7	5595.1	5458.5	5018.2
32.5°	5995.9	6027.5	6138.4	6204.7	6157.2	6149.2	6084.9	5940.4	5833.6	5745.5	5253.7
35°	6272.0	6294.7	6403.6	6441.2	6377.8	6375.9	6358.0	6225.4	6158.2	6199.7	5596.1
37.5°	6554.0	6559.9	6652.9	6654.9	6636.1	6644.0	6662.8	6579.7	6598.5	6728.2	6041.4
40°	6805.3	6821.2	6888.5	6909.2	6941.9	6969.6	7063.6	7009.2	7154.7	7384.2	6595.5
42.5°	6991.4	7022.1	7129.9	7183.4	7289.2	7332.8	7465.4	7515.9	7808.8	8153.1	7254.6
45°	7148.7	7196.2	7369.4	7479.2	7658.4	7734.6	7924.6	8093.8	8548.0	8987.4	7948.3
47.5°	7318.9	7379.3	7596.0	7805.8	8049.2	8135.3	8480.7	8734.0	9336.7	9826.5	8602.4
50°	7569.3	7615.8	7827.6	8157.1	8460.9	8571.7	9049.7	9412.9	10138.2	10626.1	9169.4
52.5°	7918.6	7900.8	8079.9	8542.1	8949.8	9086.3	9657.3	10135.3	10950.7	11349.5	9648.4
55°	8269.9	8240.2	8365.9	8944.8	9519.8	9663.2	10326.3	10860.6	11723.6	12000.6	10015.5
57.5°	8660.8	8604.4	8710.3	9399.0	10168.9	10340.1	11075.4	11631.5	12483.5	12527.1	10249.1
60°	9063.6	8987.4	9106.1	9962.1	10993.2	11195.1	11952.1	12383.6	13200.0	12948.7	10324.3
62.5°	9415.9	9362.4	9545.5	10590.5	11922.5	12144.1	12813.1	13183.2	13906.6	13123.8	10053.1
65°	9723.6	9732.5	10049.2	11297.0	12958.5	13195.1	13800.7	14168.8	14462.7	13019.9	9418.8
67.5°	10090.7	10141.2	10681.5	12227.2	14262.8	14522.1	15237.5	15243.5	14773.4	12410.3	8170.0
70°	10626.1	10730.0	11551.4	13517.7	16117.3	16473.5	17025.7	15874.8	14337.0	10757.7	6428.3
72.5°	11101.1	11295.1	12476.6	14994.1	18377.5	18647.6	18071.7	15510.7	12513.2	8062.1	4004.8
74°	10908.1	11148.6	12644.8	15721.5	19228.5	19358.2	17718.4	14447.9	10433.1	5583.2	2327.5
75°	10492.5	10753.8	12399.4	15714.5	19120.7	19048.4	16865.4	13233.6	8592.5	3807.9	1548.7
77.5°	8467.8	8743.9	10448.0	13468.2	15677.9	15609.6	12955.6	8877.5	3763.4	1248.8	786.7
80°	4923.2	5133.9	6485.7	8552.9	10571.7	10695.4	8520.3	4392.7	1480.4	701.6	533.4
82.5°	2187.0	2332.4	3133.0	4366.0	6379.8	6539.1	4462.0	2301.8	914.4	426.5	320.6
85°	1434.9	1542.8	1902.0	2079.1	3038.0	3146.9	2184.0	1792.1	603.6	234.5	235.5
87.5°	1032.1	1136.0	1413.1	1234.0	1394.3	1320.1	1188.5	1658.5	242.4	133.6	79.2
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: P319929

CATALOG NUMBER: GAN-SA5C-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9	4949.9
2.5°	4903.4	4887.5	4851.9	4784.6	4747.0	4715.3	4662.9	4632.2	4618.4	4617.4	4623.3
5°	4781.6	4745.0	4653.0	4540.2	4450.1	4368.0	4266.1	4204.7	4161.2	4135.5	4142.4
7.5°	4640.1	4582.7	4438.3	4258.2	4113.7	3954.4	3797.0	3703.0	3629.8	3575.4	3585.2
10°	4543.2	4464.0	4253.2	3993.9	3753.5	3521.9	3305.2	3175.6	3072.6	2993.5	2999.4
12.5°	4510.5	4403.6	4111.7	3765.4	3427.9	3111.2	2828.2	2629.3	2523.4	2433.4	2440.3
15°	4515.5	4372.0	3993.0	3559.5	3135.0	2736.2	2392.8	2160.3	2016.8	1954.4	1955.4
17.5°	4519.4	4335.3	3868.3	3338.8	2845.0	2385.9	2012.8	1777.3	1641.7	1584.3	1585.3
20°	4506.5	4276.0	3713.9	3085.5	2542.2	2064.3	1703.1	1503.2	1400.3	1355.7	1355.7
22.5°	4489.7	4205.7	3539.7	2831.2	2243.4	1785.2	1481.4	1329.0	1269.6	1239.9	1239.0
25°	4497.6	4153.3	3361.6	2569.9	1968.3	1562.5	1334.0	1233.0	1193.4	1174.6	1173.6
27.5°	4540.2	4128.5	3197.3	2309.7	1727.8	1395.3	1235.0	1163.7	1138.0	1126.1	1126.1
30°	4617.4	4128.5	3026.1	2088.0	1527.9	1271.6	1158.8	1110.3	1092.5	1084.6	1084.6
32.5°	4752.0	4151.3	2860.9	1868.3	1368.6	1174.6	1095.5	1062.8	1049.0	1045.0	1045.0
35°	4983.5	4228.5	2699.6	1660.5	1239.9	1095.5	1035.1	1016.3	1006.4	1005.4	1008.4
37.5°	5309.1	4385.8	2548.2	1507.1	1148.9	1031.1	984.6	969.8	963.9	968.8	972.8
40°	5718.8	4599.6	2410.6	1368.6	1079.6	979.7	938.1	928.2	925.3	932.2	938.1
42.5°	6213.6	4888.5	2297.8	1268.6	1026.2	936.1	898.5	886.7	883.7	891.6	899.5
45°	6748.9	5199.3	2218.6	1194.4	984.6	903.5	863.9	851.0	845.1	849.1	858.0
47.5°	7235.8	5493.2	2187.0	1142.0	945.0	875.8	833.2	817.4	807.5	805.5	812.4
50°	7646.5	5711.9	2201.8	1110.3	913.4	845.1	803.5	785.7	770.9	762.0	766.9
52.5°	7945.3	5849.4	2215.7	1096.5	888.6	811.5	770.9	754.1	734.3	719.4	719.4
55°	8162.1	5881.1	2185.0	1085.6	869.8	774.8	734.3	718.4	698.6	681.8	679.8
57.5°	8247.2	5792.0	2071.2	1069.7	857.0	740.2	695.7	683.8	667.0	647.2	646.2
60°	8132.4	5516.9	1851.5	1036.1	840.2	711.5	657.1	649.2	641.2	622.4	621.5
62.5°	7671.2	4913.3	1567.5	967.8	806.5	680.8	621.5	625.4	626.4	613.5	611.6
65°	6835.0	4084.0	1290.4	878.7	756.0	644.2	584.8	603.6	614.5	612.5	609.6
67.5°	5619.8	3178.5	1093.5	784.7	689.7	593.7	545.3	567.0	575.9	582.9	580.9
70°	4171.1	2241.4	904.5	685.8	609.6	534.4	493.8	504.7	498.7	506.7	509.6
72.5°	2325.5	1344.8	737.2	586.8	526.5	465.1	436.4	434.4	421.6	421.6	421.6
74°	1395.3	986.6	648.2	525.5	476.0	419.6	394.8	385.9	374.1	375.1	374.1
75°	1122.2	848.1	594.7	484.9	440.4	392.9	368.1	356.2	347.3	347.3	346.4
77.5°	708.5	644.2	479.0	385.9	352.3	323.6	306.8	290.9	290.9	289.9	289.0
80°	535.4	512.6	373.1	291.9	270.2	248.4	237.5	230.6	230.6	233.5	232.6
82.5°	367.1	385.9	262.2	203.9	193.0	177.1	175.2	176.1	173.2	169.2	168.2
85°	268.2	289.9	177.1	128.6	117.8	107.9	115.8	119.7	114.8	105.9	101.9
87.5°	102.9	190.0	95.0	53.4	49.5	42.6	49.5	51.5	55.4	43.5	44.5
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)