

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: P319622

Luminaire Tested: **GAN-SA8D-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52008 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

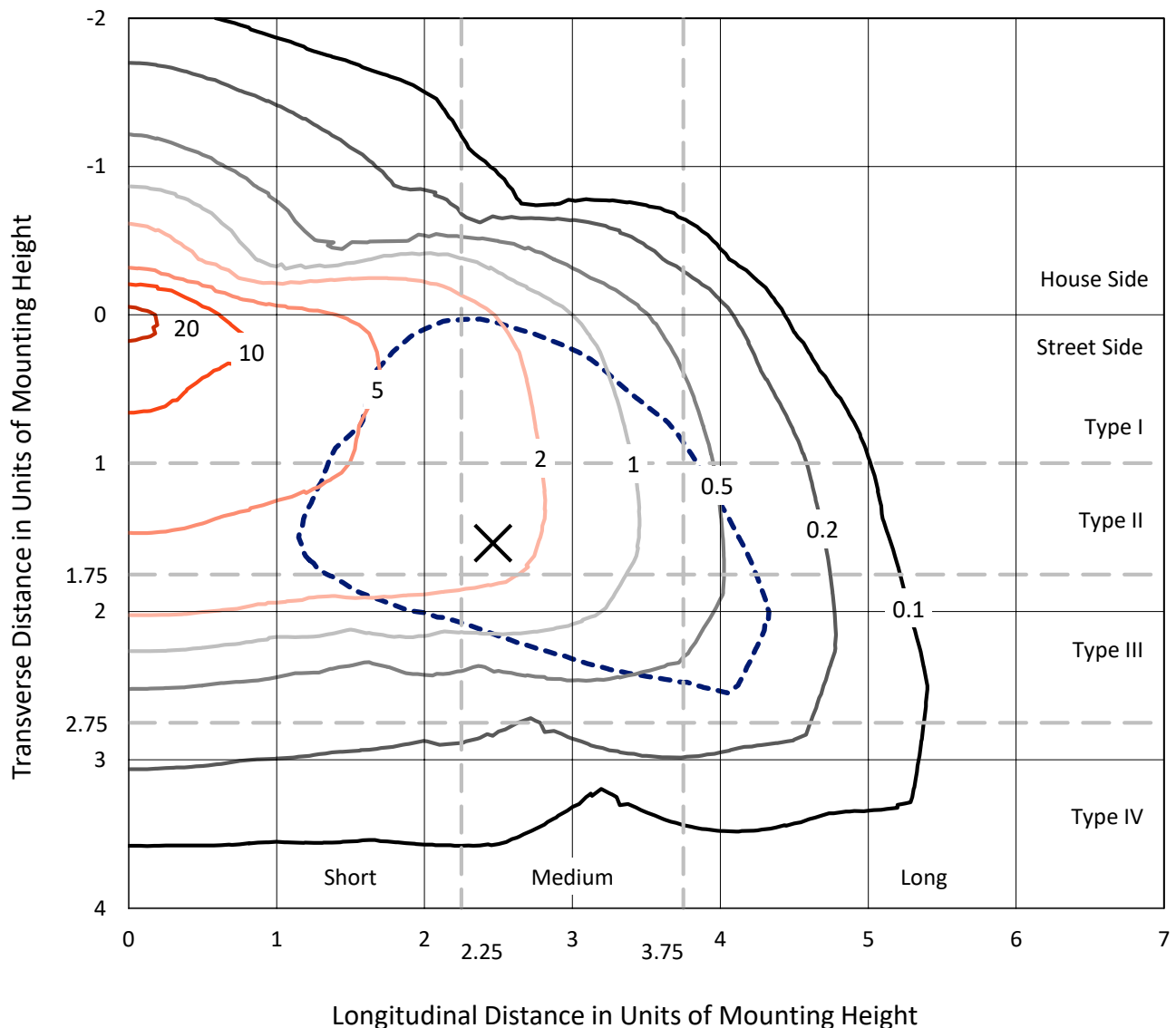


REPORT NUMBER: P319622

CATALOG NUMBER: GAN-SA8D-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

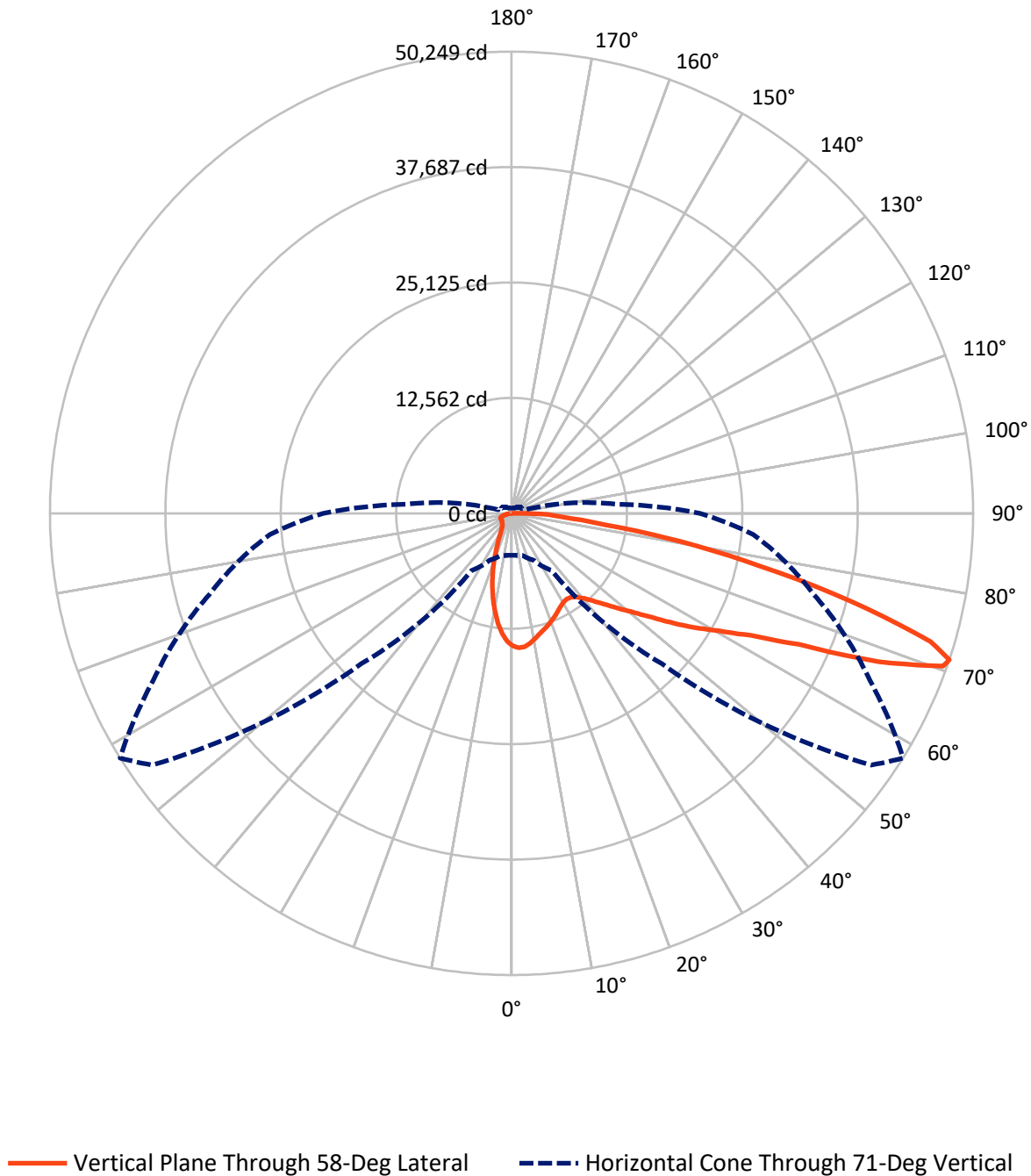
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P319622
CATALOG NUMBER: GAN-SA8D-727-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P319622

CATALOG NUMBER: GAN-SA8D-727-U-SL3

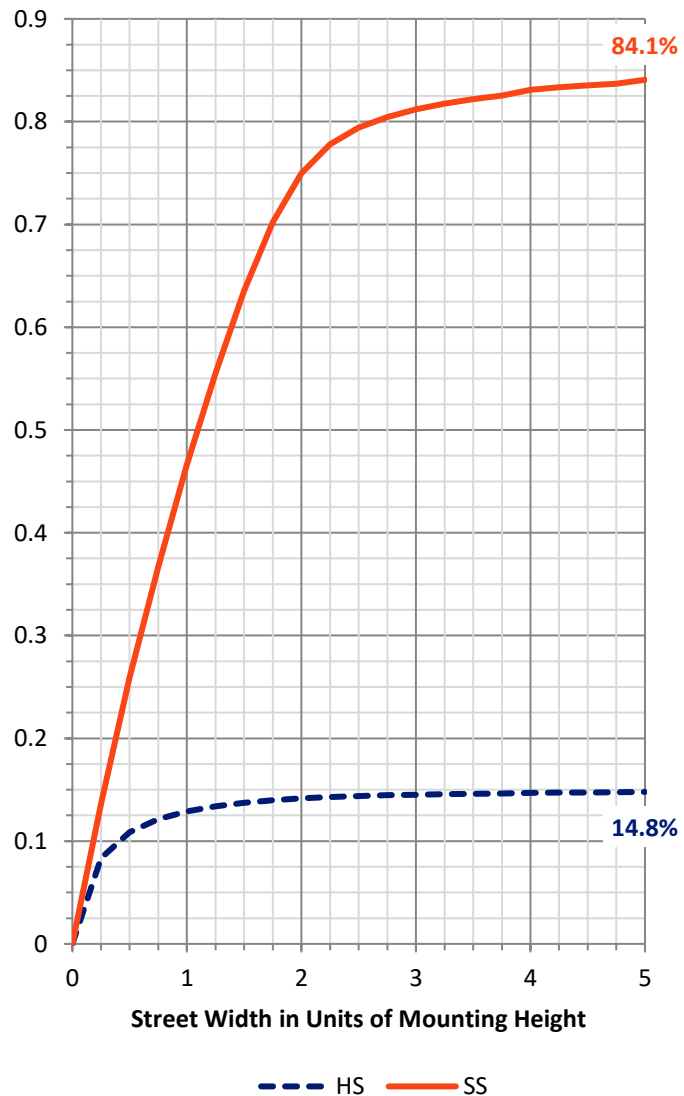
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7775.6	0.0	7775.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	44232.4	0.0	44232.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	52008.0	0.0	52008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1243.1	2.4
10°-20°	2764.2	5.3
20°-30°	3513.1	6.8
30°-40°	4474.9	8.6
40°-50°	6345.7	12.2
50°-60°	9820.2	18.9
60°-70°	13368.9	25.7
70°-80°	8918.6	17.1
80°-90°	1559.3	3.0
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°	52008.0	100.0
0°-180°	52008.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319622

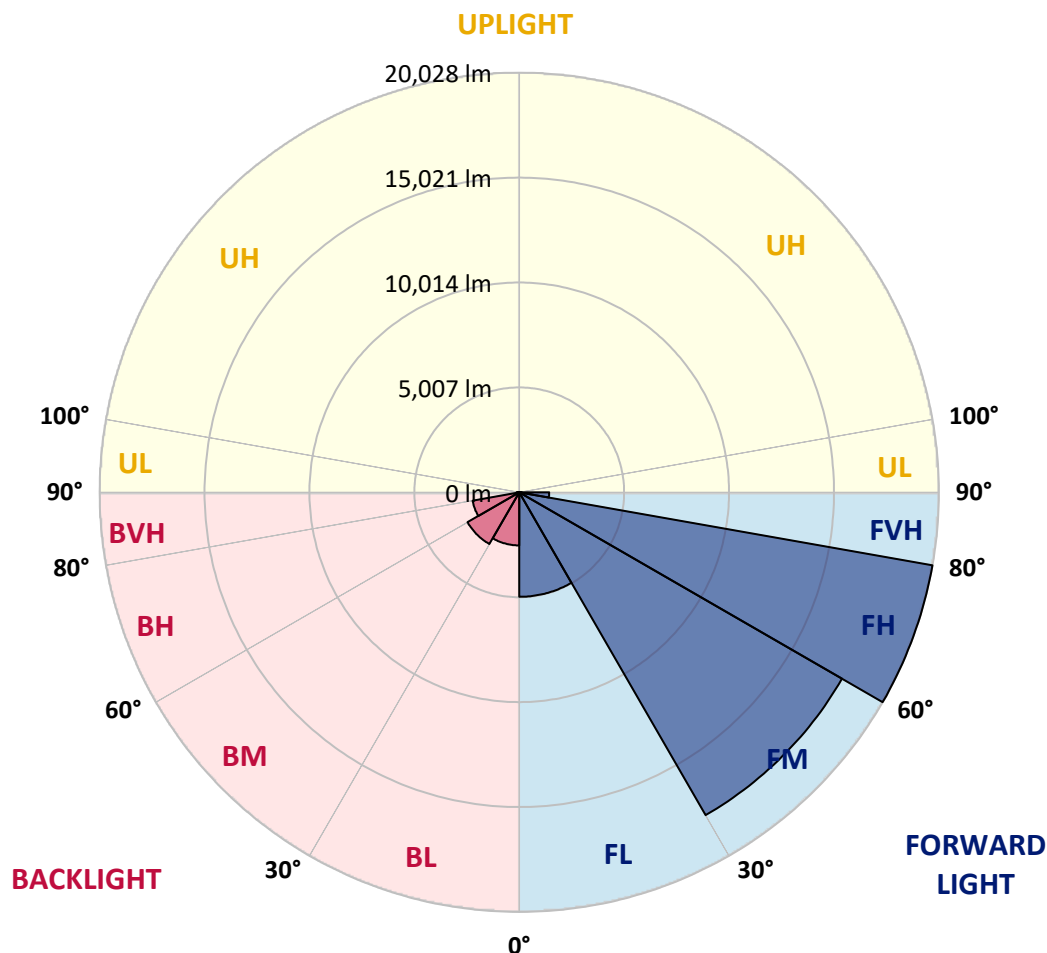
CATALOG NUMBER: GAN-SA8D-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4985.8	9.6			
FM	(30°-60°)	17789.3	34.2			
FH	(60°-80°)	20027.6	38.5			G5
FVH	(80°-90°)	1429.7	2.7			G5
BL	(0°-30°)	2534.6	4.9	B4/5000		
BM	(30°-60°)	2851.5	5.5	B3/5000		
BH	(60°-80°)	2259.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	129.6	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





REPORT NUMBER: P319622

CATALOG NUMBER: GAN-SA8D-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7
2.5°	14791.9	14772.0	14779.3	14764.8	14730.4	14695.9	14645.2	14654.3	14583.6	14478.5	14348.1
5°	14513.0	14505.7	14560.1	14590.9	14616.2	14596.3	14581.8	14599.9	14496.7	14351.7	14125.3
7.5°	13927.8	13848.1	13916.9	14020.2	14118.0	14192.3	14290.1	14302.8	14237.6	14085.4	13788.3
10°	13096.3	13020.2	13121.6	13282.9	13478.5	13656.1	13853.5	13889.8	13902.4	13764.8	13404.2
12.5°	12233.9	12176.0	12277.4	12503.9	12828.1	13101.7	13416.9	13471.3	13583.6	13491.2	13049.2
15°	11462.2	11440.4	11563.6	11786.5	12159.7	12578.1	13032.9	13132.5	13322.7	13291.9	12772.0
17.5°	10795.5	10790.1	10884.3	11118.0	11531.0	12060.0	12650.6	12819.1	13101.7	13137.9	12543.7
20°	10299.1	10288.2	10353.5	10525.6	10951.3	11550.9	12237.6	12469.4	12877.1	13003.9	12308.2
22.5°	10032.8	10031.0	10032.8	10114.3	10462.2	11020.1	11835.4	12118.0	12657.8	12897.0	12047.3
25°	9987.5	9982.1	9942.2	9933.2	10130.6	10576.3	11436.8	11748.4	12449.5	12822.7	11799.1
27.5°	10105.3	10112.5	10060.0	9974.8	10014.7	10284.6	11090.8	11424.1	12282.8	12808.2	11627.0
30°	10349.8	10346.2	10300.9	10212.1	10134.2	10175.9	10844.4	11177.7	12170.5	12871.6	11509.3
32.5°	10619.8	10639.7	10630.6	10581.7	10465.8	10299.1	10770.1	11096.2	12137.9	13023.8	11458.5
35°	10944.0	10965.8	11031.0	11069.0	10933.2	10665.1	10929.6	11212.2	12232.1	13310.0	11540.1
37.5°	11252.0	11308.2	11491.2	11652.4	11536.5	11237.5	11353.5	11554.6	12523.8	13761.1	11759.3
40°	11607.1	11656.0	11954.9	12297.3	12279.2	11969.4	12036.5	12170.5	13038.3	14407.9	12156.0
42.5°	11956.7	12054.6	12487.6	12973.1	13112.6	12839.0	12945.9	13016.6	13762.9	15264.8	12848.1
45°	12422.3	12527.4	13128.9	13714.0	14040.1	13886.1	14056.4	14083.6	14674.2	16431.5	13853.5
47.5°	13127.1	13246.6	13947.7	14561.9	15060.1	15076.4	15357.2	15346.3	15811.9	17766.6	15119.9
50°	14224.9	14397.0	14971.3	15545.6	16150.7	16487.6	16862.6	16810.1	17176.0	19188.8	16578.2
52.5°	15663.3	15743.1	16168.8	16592.7	17344.5	18100.0	18638.0	18590.9	18723.2	20650.8	18234.0
55°	17154.3	17214.1	17389.8	17621.7	18632.6	19864.5	21002.2	20927.9	20592.8	22168.9	19869.9
57.5°	18494.9	18616.3	18737.7	18833.7	19929.7	21708.7	23420.7	23426.2	22621.8	23806.6	21560.2
60°	18703.3	18810.1	19612.7	20370.0	22149.0	24168.9	26009.5	25955.2	24721.5	25583.8	23444.3
62.5°	16532.9	16773.9	18114.5	20129.0	24286.7	28669.0	29312.1	29245.1	27232.4	27774.1	25638.2
65°	11848.1	12121.6	13739.4	16766.6	23250.4	33627.4	35272.4	34370.2	30656.4	30468.0	28207.1
67.5°	6835.3	6900.5	7601.6	10032.8	17703.2	33886.5	44365.0	43102.3	35973.5	33524.2	29464.3
70°	5054.4	5052.6	5219.3	6174.0	9579.9	27656.3	48689.3	49821.6	41571.4	34529.6	27687.1
71°	4570.7	4576.2	4762.8	5619.7	7587.1	23149.0	47770.8	50249.1	43046.1	34033.3	26400.9
72.5°	3909.5	3927.6	4186.7	5040.0	6382.4	15964.1	43814.2	47683.9	43745.4	32808.6	24388.1
75°	2965.6	3007.3	3366.0	4248.3	5833.4	8096.2	32156.4	38076.8	38861.2	28949.8	18121.7
77.5°	2116.0	2163.1	2568.9	3572.5	5545.4	6101.6	21534.8	27774.1	28598.4	18552.9	8174.1
80°	1337.0	1393.1	1699.3	2842.4	5210.2	5793.6	13532.9	18668.8	15594.5	5936.7	2079.7
82.5°	784.4	827.9	1054.4	1856.9	4255.5	5579.8	7962.1	10348.0	6069.0	1793.5	945.7
85°	454.7	474.6	657.6	1183.0	3090.6	5266.4	5849.7	5784.5	2634.1	876.8	447.5
87.5°	212.0	235.5	389.5	617.8	1715.6	3817.1	4623.3	3994.6	1637.7	411.2	210.1
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: P319622

CATALOG NUMBER: GAN-SA8D-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7	14409.7
2.5°	14284.7	14253.9	14125.3	14011.1	13891.6	13735.8	13563.7	13541.9	13436.8	13456.8	13420.5
5°	14002.1	13924.2	13614.4	13333.6	13002.1	12705.0	12382.5	12233.9	12020.2	12005.7	11951.3
7.5°	13598.1	13453.2	12973.1	12440.5	11907.8	11400.6	10898.8	10569.0	10232.1	10089.0	10076.3
10°	13143.4	12897.0	12190.4	11402.4	10634.3	9893.3	9175.9	8645.1	8166.8	7940.4	7931.3
12.5°	12712.2	12348.1	11378.8	10306.4	9255.6	8295.4	7311.7	6614.3	6014.6	5813.5	5728.4
15°	12346.2	11833.6	10589.0	9217.6	7942.2	6608.8	5489.2	4755.5	4201.2	4009.1	3972.9
17.5°	11991.2	11331.7	9779.2	8117.9	6576.2	5110.6	3989.2	3443.9	3148.6	3070.7	3068.9
20°	11637.9	10815.4	8933.1	6992.9	5255.5	3822.5	3067.1	2822.5	2722.9	2713.8	2699.3
22.5°	11237.5	10268.3	8043.6	5864.2	4101.5	3005.5	2606.9	2509.1	2496.4	2529.0	2529.0
25°	10862.5	9724.8	7141.4	4759.1	3190.3	2507.3	2327.9	2308.0	2342.4	2400.4	2405.8
27.5°	10512.9	9201.3	6261.0	3777.2	2556.2	2208.4	2134.1	2157.6	2219.2	2286.3	2288.1
30°	10224.8	8706.7	5405.9	2976.5	2159.5	1985.5	1972.9	2020.0	2087.0	2139.5	2152.2
32.5°	10002.0	8284.6	4579.8	2393.2	1900.4	1818.9	1829.7	1869.6	1911.3	1940.3	1960.2
35°	9898.7	7922.3	3817.1	2018.2	1735.5	1690.2	1704.7	1726.5	1744.6	1766.3	1782.6
37.5°	9916.9	7641.4	3135.9	1784.5	1625.0	1601.5	1601.5	1601.5	1601.5	1612.3	1614.2
40°	10085.3	7480.2	2581.6	1635.9	1550.8	1525.4	1505.5	1487.3	1472.9	1480.1	1476.5
42.5°	10516.5	7465.7	2175.8	1541.7	1491.0	1449.3	1409.4	1384.1	1366.0	1373.2	1376.8
45°	11248.4	7646.9	1902.2	1474.7	1434.8	1371.4	1320.7	1293.5	1280.8	1304.4	1308.0
47.5°	12195.9	8041.8	1735.5	1425.8	1382.3	1298.9	1244.6	1219.2	1222.8	1257.3	1266.3
50°	13416.9	8683.1	1655.8	1395.0	1346.0	1237.3	1181.2	1159.4	1170.3	1219.2	1230.1
52.5°	14757.5	9607.1	1664.9	1385.9	1322.5	1192.1	1132.3	1106.9	1125.0	1170.3	1179.4
55°	16304.7	10717.6	1815.3	1398.6	1288.1	1163.1	1092.4	1048.9	1063.4	1105.1	1112.3
57.5°	18023.9	11989.4	2117.8	1395.0	1244.6	1135.9	1050.7	985.5	996.4	1021.8	1029.0
60°	19813.8	13525.6	2587.0	1405.8	1224.7	1103.3	994.6	913.1	909.4	931.2	934.8
62.5°	21962.4	15302.8	3123.2	1413.1	1237.3	1061.6	920.3	840.6	829.7	835.2	838.8
65°	24176.2	16589.1	2922.2	1384.1	1277.2	1027.2	855.1	769.9	750.0	746.4	748.2
67.5°	24245.0	15210.4	2049.0	1326.1	1293.5	1009.1	806.2	710.2	677.5	664.9	663.1
70°	21743.2	12357.1	1596.0	1264.5	1228.3	980.1	760.9	661.2	612.3	592.4	590.6
71°	20522.1	11375.2	1512.7	1233.7	1179.4	951.1	741.0	639.5	588.8	567.0	563.4
72.5°	18607.2	10197.7	1411.3	1184.8	1085.2	876.8	702.9	608.7	556.2	530.8	525.4
75°	13353.5	6668.6	1212.0	1056.2	898.6	699.3	616.0	547.1	501.8	471.0	467.4
77.5°	5145.0	2654.0	916.7	878.6	688.4	547.1	507.3	472.8	440.2	409.4	407.6
80°	1590.6	1186.6	668.5	661.2	498.2	407.6	394.9	385.9	373.2	340.6	333.3
82.5°	849.7	681.2	460.2	427.5	326.1	271.7	286.2	289.9	291.7	257.3	253.6
85°	405.8	360.5	259.1	242.8	190.2	152.2	175.7	190.2	192.0	157.6	146.7
87.5°	193.8	188.4	121.4	92.4	70.7	50.7	61.6	76.1	83.3	59.8	52.5
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)