

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: P459631

Luminaire Tested: **GAN-SA5A-AMB-U-SL4**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-AMB-U-SL4
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(5) NARROW BAND AMBER, 500mA 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: 4905 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 101
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: 28.75 FT

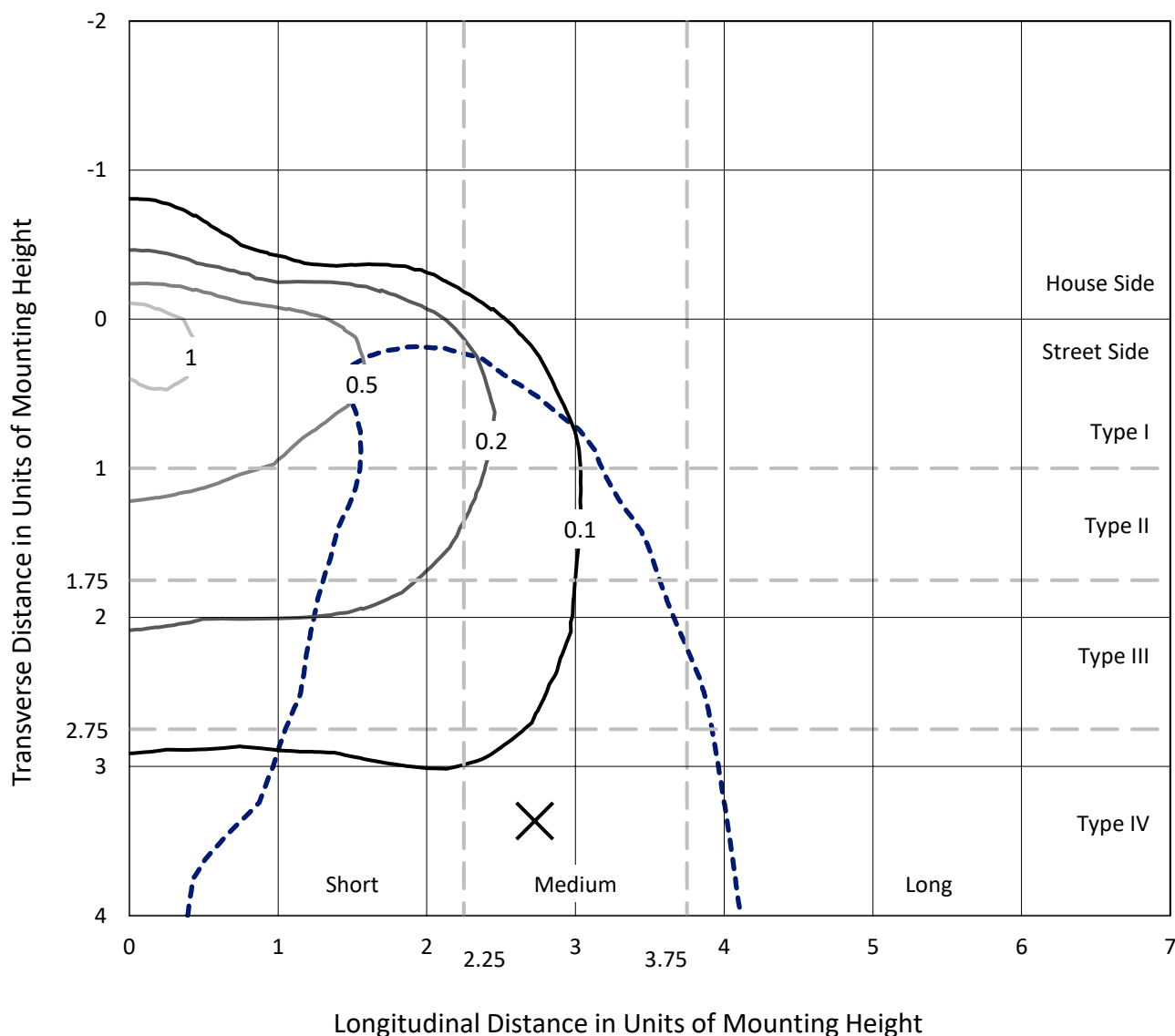


REPORT NUMBER: P459631
 CATALOG NUMBER: GAN-SA5A-AMB-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

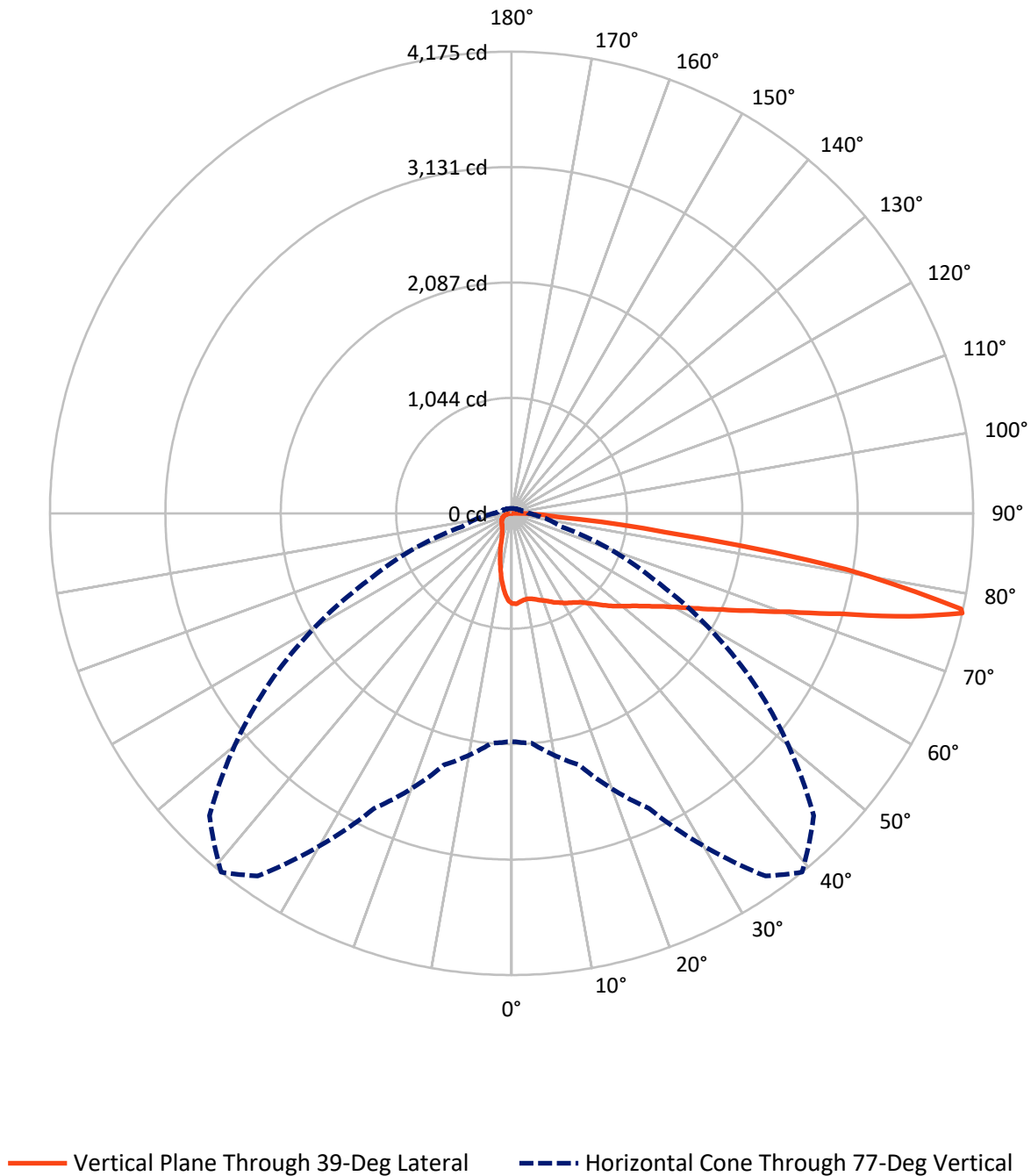
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P459631
CATALOG NUMBER: GAN-SA5A-AMB-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P459631

CATALOG NUMBER: GAN-SA5A-AMB-U-SL4

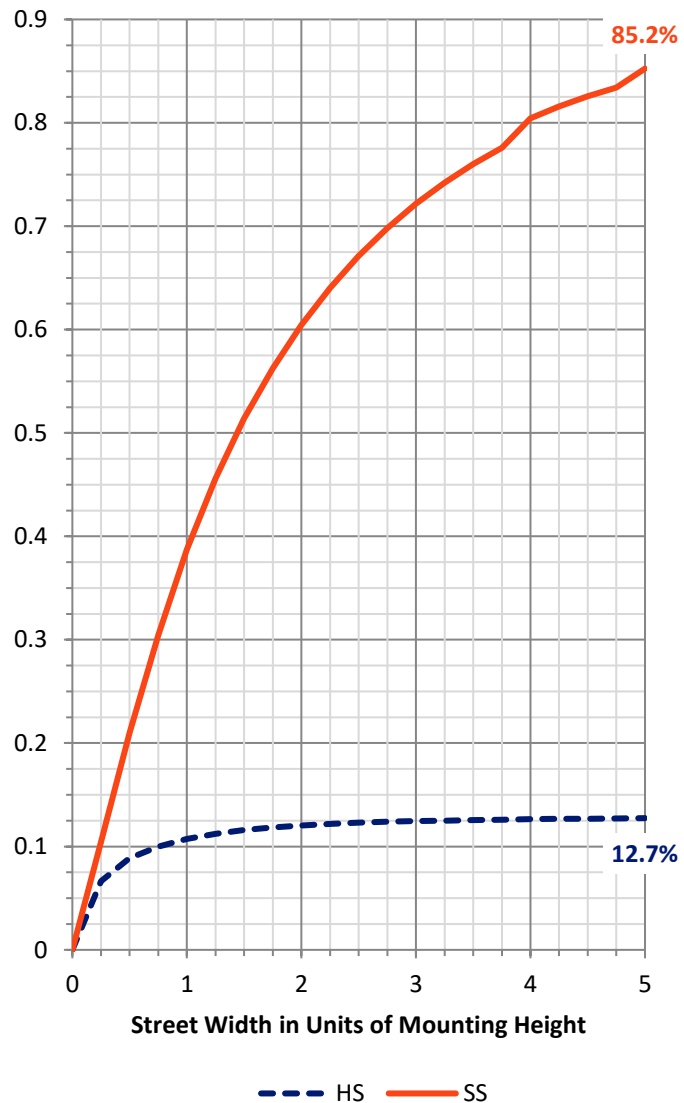
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	632.8	0.0	632.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4272.2	0.0	4272.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	4905.0	0.0	4905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	1.5
10°-20°	178.6	3.6
20°-30°	272.9	5.6
30°-40°	392.5	8.0
40°-50°	569.8	11.6
50°-60°	817.9	16.7
60°-70°	1126.5	23.0
70°-80°	1215.5	24.8
80°-90°	260.0	5.3
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°	4905.0	100.0
0°-180°	4905.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459631

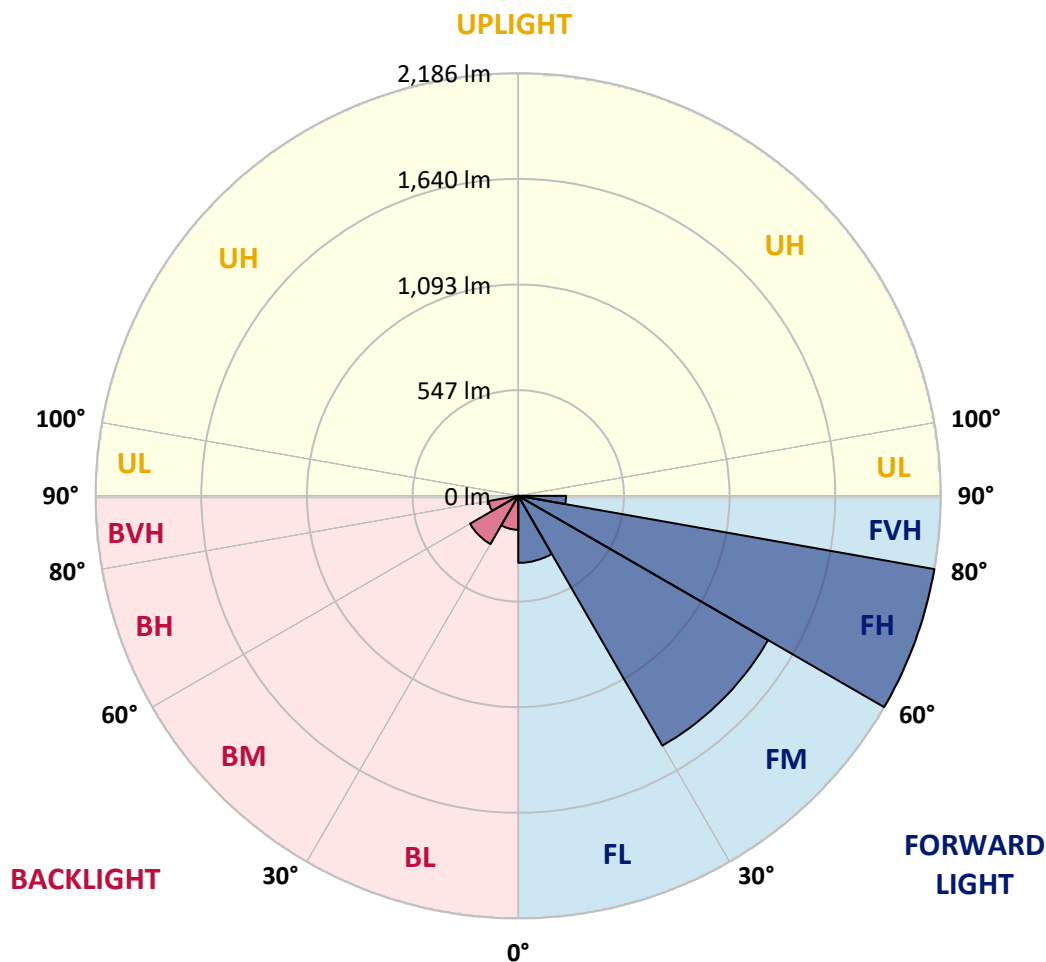
CATALOG NUMBER: GAN-SA5A-AMB-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.9	7.1			
FM	(30°-60°)	1492.2	30.4			
FH	(60°-80°)	2186.1	44.6			G2/5000
FVH	(80°-90°)	246.9	5.0			G3/500
BL	(0°-30°)	175.8	3.6	B1/500		
BM	(30°-60°)	288.0	5.9	B1/1000		
BH	(60°-80°)	155.9	3.2	B1/500		G1/500
BVH	(80°-90°)	13.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



REPORT NUMBER: P459631

CATALOG NUMBER: GAN-SA5A-AMB-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	823.9	817.3	817.3	823.9	819.5	819.5	815.1	819.5	815.1	810.7	815.1
5°	812.9	808.5	806.3	812.9	808.5	804.1	808.5	806.3	804.1	795.3	795.3
7.5°	793.1	788.7	788.7	795.3	797.5	790.9	793.1	795.3	788.7	779.9	782.1
10°	775.4	773.2	777.6	786.5	790.9	786.5	790.9	788.7	779.9	771.0	768.8
12.5°	762.2	760.0	766.6	784.3	793.1	793.1	795.3	788.7	782.1	771.0	762.2
15°	753.4	753.4	766.6	788.7	801.9	806.3	808.5	804.1	788.7	773.2	762.2
17.5°	757.8	755.6	773.2	799.7	815.1	826.1	826.1	819.5	799.7	779.9	766.6
20°	768.8	764.4	786.5	819.5	839.3	841.5	845.9	832.7	812.9	790.9	775.4
22.5°	773.2	784.3	808.5	845.9	857.0	863.6	863.6	850.3	821.7	806.3	788.7
25°	808.5	810.7	839.3	872.4	883.4	892.2	887.8	859.2	834.9	826.1	810.7
27.5°	845.9	848.1	876.8	901.0	907.6	914.2	916.4	876.8	852.5	850.3	830.5
30°	879.0	887.8	916.4	934.1	934.1	940.7	938.5	903.2	876.8	881.2	861.4
32.5°	936.3	934.1	962.7	964.9	953.9	964.9	964.9	925.2	907.6	927.5	896.6
35°	984.7	993.5	1006.8	995.7	980.3	989.1	993.5	956.1	947.3	986.9	953.9
37.5°	1050.8	1044.2	1050.8	1031.0	1009.0	1020.0	1031.0	997.9	1002.4	1059.6	1017.8
40°	1101.5	1090.5	1094.9	1068.4	1046.4	1068.4	1079.5	1048.6	1068.4	1161.0	1110.3
42.5°	1143.3	1134.5	1125.7	1110.3	1092.7	1121.3	1138.9	1114.7	1156.6	1273.3	1224.9
45°	1172.0	1165.4	1152.2	1150.0	1152.2	1187.4	1209.4	1189.6	1246.9	1414.3	1352.6
47.5°	1189.6	1183.0	1185.2	1189.6	1207.2	1253.5	1293.1	1273.3	1365.8	1561.9	1473.8
50°	1213.8	1202.8	1205.0	1242.5	1268.9	1317.4	1381.3	1372.4	1493.6	1718.3	1606.0
52.5°	1244.7	1227.1	1227.1	1293.1	1335.0	1390.1	1471.6	1482.6	1625.8	1879.1	1740.3
55°	1295.3	1273.3	1257.9	1348.2	1420.9	1480.4	1575.1	1623.6	1769.0	2046.6	1863.7
57.5°	1350.4	1328.4	1304.2	1418.7	1515.6	1586.1	1694.1	1764.6	1932.0	2196.4	1951.8
60°	1436.3	1396.7	1372.4	1509.0	1647.8	1720.5	1852.7	1943.0	2103.8	2332.9	2031.1
62.5°	1498.0	1467.2	1460.6	1623.6	1810.8	1894.6	2020.1	2114.9	2262.4	2465.1	2099.4
65°	1561.9	1544.3	1546.5	1747.0	2004.7	2097.2	2233.8	2335.1	2467.3	2586.3	2106.0
67.5°	1652.2	1634.6	1672.1	1896.8	2229.4	2350.6	2489.4	2577.5	2661.2	2606.1	1987.1
70°	1771.2	1749.2	1817.4	2077.4	2509.2	2665.6	2824.2	2918.9	2755.9	2537.8	1606.0
72.5°	1894.6	1879.1	1991.5	2335.1	2901.3	3101.8	3282.4	3229.6	2802.2	2176.5	1046.4
75°	2044.4	2048.8	2229.4	2667.8	3527.0	3718.6	3870.6	3348.5	2366.0	1286.5	398.7
77°	2062.0	2086.2	2355.0	2945.4	4002.8	4174.6	3864.0	2674.4	1423.1	460.4	224.7
77.5°	1989.3	2011.3	2326.3	2985.0	4060.1	4154.8	3742.8	2498.2	1141.1	370.1	198.3
80°	1482.6	1460.6	1804.2	2489.4	3262.6	3068.7	2240.4	969.3	332.6	191.7	121.2
82.5°	586.0	625.6	843.7	1227.1	1594.9	1401.1	839.3	423.0	200.5	103.5	50.7
85°	271.0	290.8	317.2	326.0	412.0	425.2	315.0	392.1	145.4	48.5	30.8
87.5°	198.3	207.1	233.5	207.1	200.5	189.5	231.3	427.4	72.7	28.6	15.4
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: P459631

CATALOG NUMBER: GAN-SA5A-AMB-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	808.5	801.9	804.1	801.9	797.5	793.1	788.7	784.3	786.5	786.5	779.9
5°	790.9	782.1	777.6	766.6	753.4	740.2	724.8	713.8	705.0	700.5	705.0
7.5°	773.2	762.2	753.4	727.0	705.0	667.5	643.3	610.2	605.8	601.4	597.0
10°	760.0	751.2	729.2	693.9	647.7	603.6	548.5	513.3	491.3	478.0	482.5
12.5°	751.2	740.2	705.0	649.9	590.4	524.3	462.6	416.4	389.9	372.3	367.9
15°	749.0	729.2	678.5	605.8	526.5	451.6	389.9	334.9	293.0	279.8	275.4
17.5°	749.0	722.6	654.3	559.6	467.0	383.3	315.0	264.4	229.1	215.9	211.5
20°	753.4	720.4	625.6	513.3	407.5	315.0	255.5	213.7	193.9	185.0	185.0
22.5°	760.0	718.2	594.8	462.6	350.3	264.4	211.5	187.3	178.4	171.8	171.8
25°	773.2	716.0	568.4	416.4	299.6	226.9	189.5	174.0	165.2	163.0	163.0
27.5°	790.9	718.2	541.9	372.3	253.3	200.5	174.0	165.2	160.8	158.6	158.6
30°	808.5	722.6	513.3	323.8	220.3	180.6	163.0	156.4	154.2	152.0	152.0
32.5°	828.3	727.0	480.2	284.2	196.1	165.2	154.2	149.8	149.8	147.6	145.4
35°	861.4	735.8	442.8	246.7	176.2	154.2	147.6	143.2	143.2	141.0	141.0
37.5°	907.6	746.8	405.3	220.3	163.0	145.4	138.8	138.8	136.6	136.6	134.4
40°	975.9	777.6	374.5	198.3	152.0	138.8	134.4	132.2	132.2	130.0	130.0
42.5°	1053.0	815.1	345.9	182.8	145.4	132.2	127.8	127.8	127.8	125.6	123.4
45°	1143.3	850.3	319.4	171.8	138.8	127.8	123.4	123.4	121.2	119.0	119.0
47.5°	1240.3	894.4	301.8	165.2	136.6	125.6	121.2	116.8	116.8	114.6	114.6
50°	1337.2	931.9	286.4	160.8	134.4	121.2	116.8	114.6	112.4	107.9	107.9
52.5°	1429.7	971.5	282.0	156.4	130.0	119.0	112.4	110.1	107.9	103.5	103.5
55°	1509.0	1017.8	286.4	154.2	127.8	114.6	107.9	105.7	103.5	99.1	99.1
57.5°	1566.3	1042.0	288.6	154.2	125.6	107.9	101.3	103.5	99.1	96.9	96.9
60°	1625.8	1064.0	286.4	154.2	123.4	101.3	94.7	99.1	96.9	94.7	94.7
62.5°	1665.4	1055.2	275.4	154.2	121.2	96.9	90.3	96.9	99.1	94.7	96.9
65°	1608.2	956.1	242.3	149.8	121.2	92.5	83.7	94.7	101.3	99.1	99.1
67.5°	1401.1	722.6	202.7	141.0	116.8	90.3	77.1	85.9	94.7	92.5	94.7
70°	993.5	436.2	167.4	125.6	105.7	85.9	72.7	72.7	74.9	77.1	79.3
72.5°	515.5	237.9	136.6	110.1	92.5	77.1	66.1	61.7	61.7	61.7	63.9
75°	226.9	156.4	112.4	90.3	77.1	66.1	59.5	52.9	52.9	50.7	50.7
77°	158.6	123.4	92.5	74.9	63.9	55.1	52.9	46.3	46.3	44.1	44.1
77.5°	143.2	114.6	90.3	70.5	61.7	52.9	50.7	44.1	44.1	44.1	44.1
80°	96.9	90.3	68.3	52.9	48.5	41.9	39.7	37.5	35.2	35.2	35.2
82.5°	57.3	66.1	48.5	37.5	35.2	30.8	28.6	28.6	28.6	26.4	24.2
85°	35.2	48.5	30.8	24.2	24.2	19.8	19.8	17.6	17.6	15.4	15.4
87.5°	15.4	30.8	17.6	11.0	8.8	6.6	8.8	6.6	6.6	4.4	6.6
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)