

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: P318956

Luminaire Tested: **GAN-SA2B-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318956
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-SA2B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9710 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

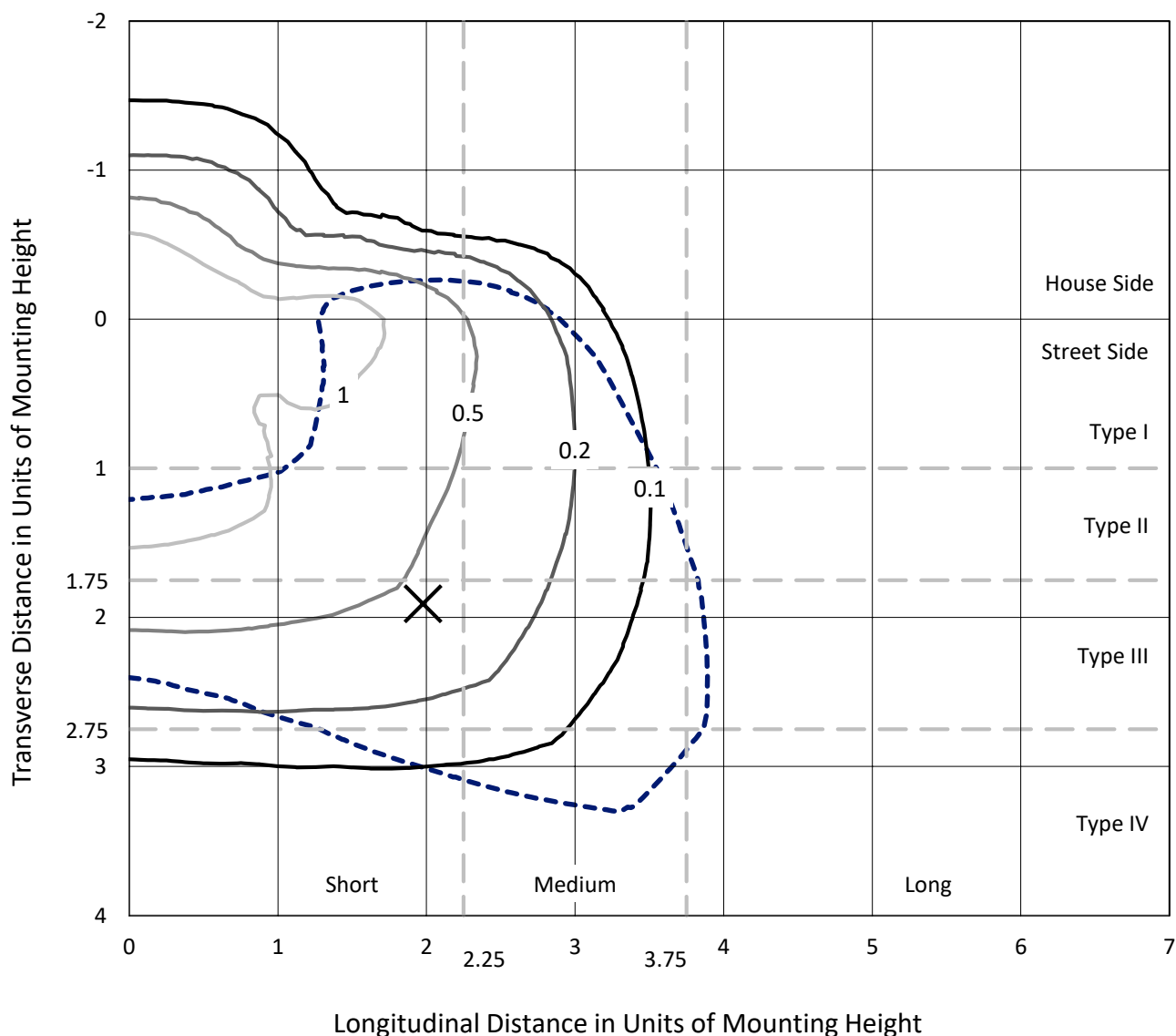
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318956
 CATALOG NUMBER: GAN-SA2B-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

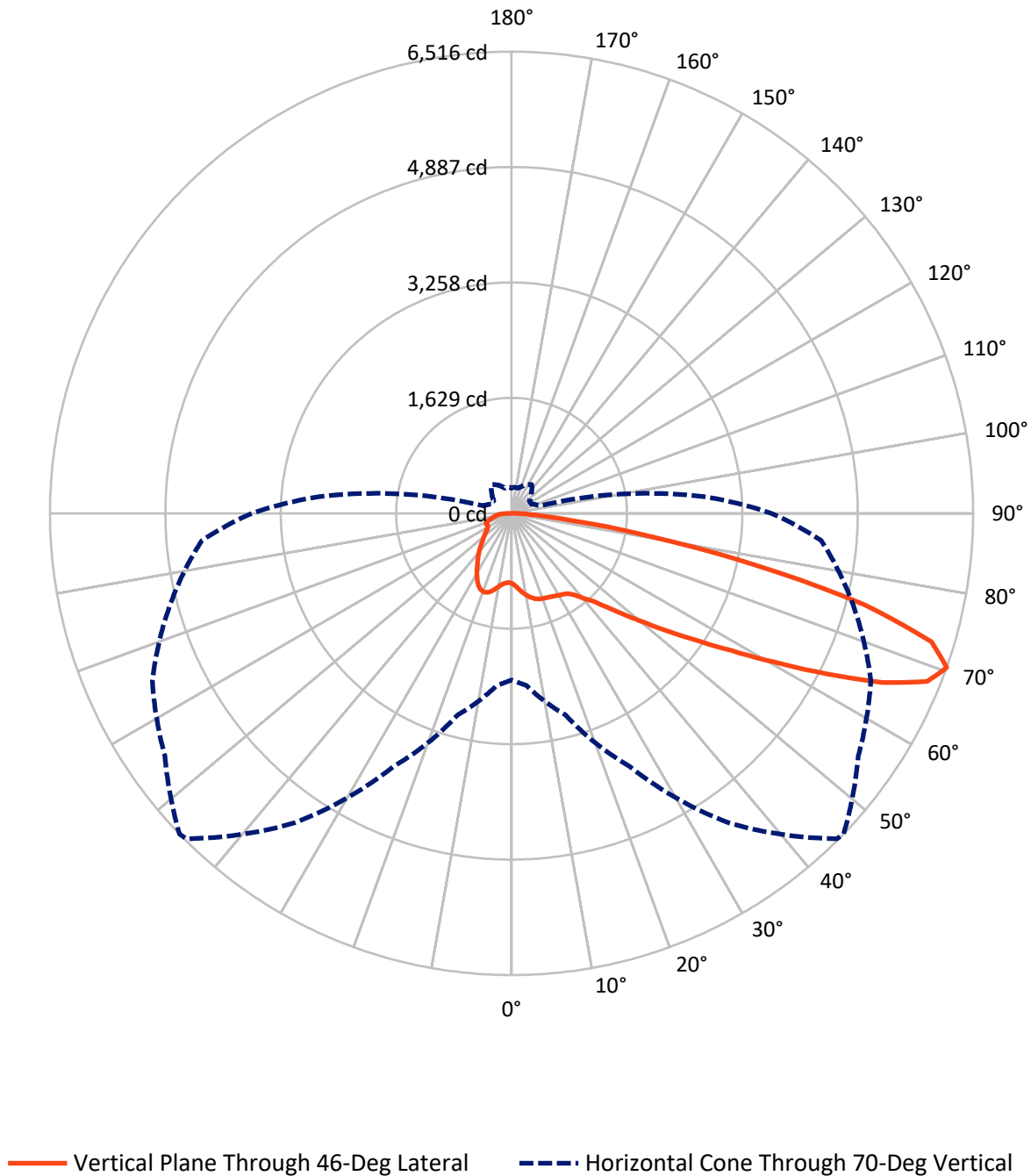
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

REPORT NUMBER: P318956
CATALOG NUMBER: GAN-SA2B-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P318956

CATALOG NUMBER: GAN-SA2B-727-U-T4W

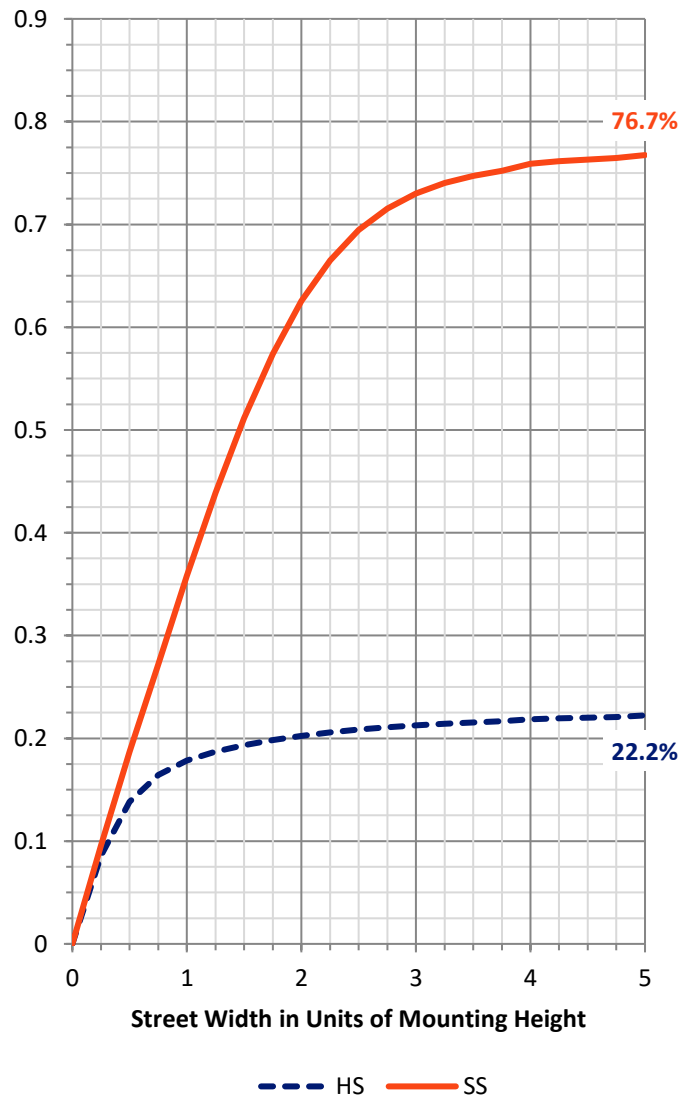
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.5	0.0	2225.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7484.5	0.0	7484.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	9710.0	0.0	9710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.0
10°-20°	336.0	3.5
20°-30°	560.2	5.8
30°-40°	795.0	8.2
40°-50°	1169.4	12.0
50°-60°	1980.4	20.4
60°-70°	2811.1	29.0
70°-80°	1707.8	17.6
80°-90°	249.2	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°	9710.0	100.0
0°-180°	9710.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318956

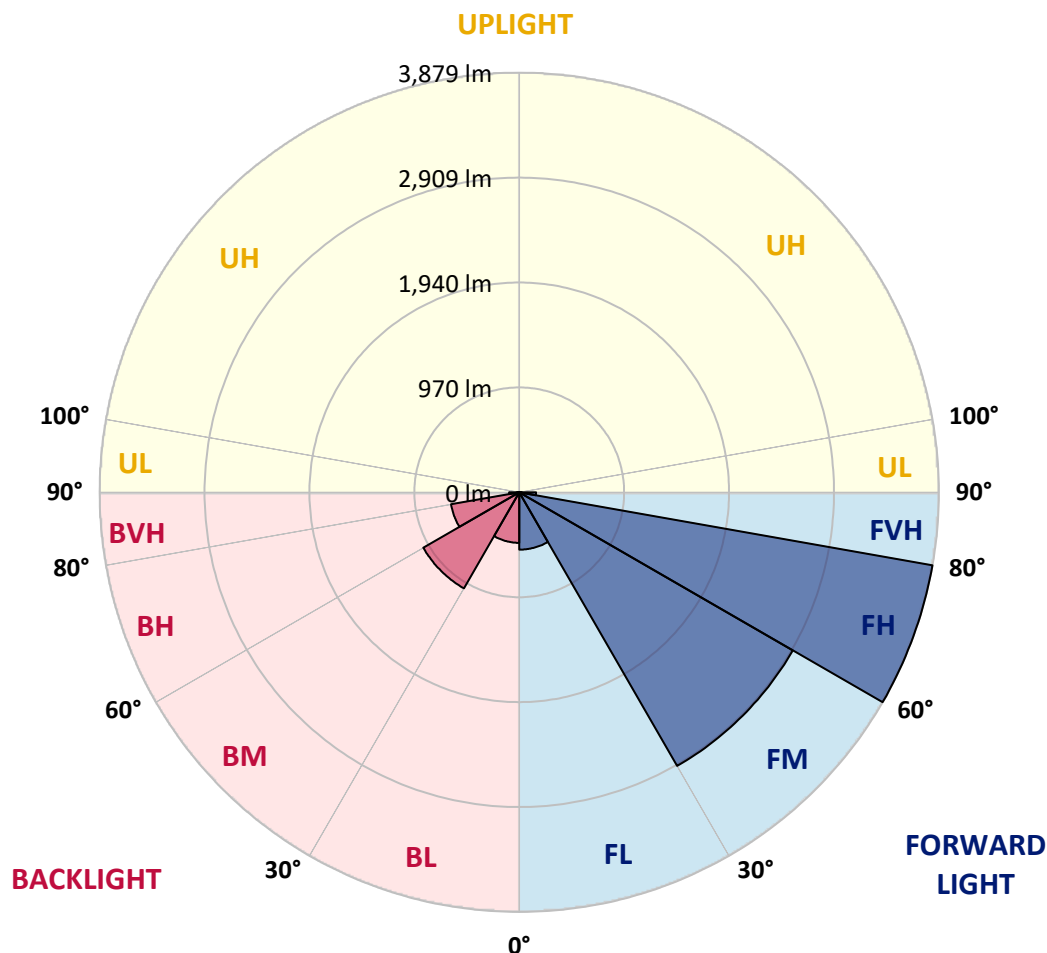
CATALOG NUMBER: GAN-SA2B-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	529.8	5.5			
FM	(30°-60°)	2920.3	30.1			
FH	(60°-80°)	3879.1	39.9			G2/5000
FVH	(80°-90°)	155.2	1.6			G2/225
BL	(0°-30°)	467.2	4.8	B1/500		
BM	(30°-60°)	1024.5	10.6	B2/2500		
BH	(60°-80°)	639.8	6.6	B2/1000		G2/1000
BVH	(80°-90°)	94.0	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P318956

CATALOG NUMBER: GAN-SA2B-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3
2.5°	1038.8	1039.4	1040.8	1037.4	1028.1	1025.5	1024.5	1014.8	1008.5	999.2	991.3
5°	1121.8	1122.5	1120.5	1111.2	1090.6	1075.3	1074.0	1052.1	1032.1	1010.9	994.9
7.5°	1208.6	1209.6	1203.3	1185.6	1156.7	1130.2	1128.5	1098.6	1068.3	1036.1	1012.2
10°	1285.3	1281.4	1271.0	1246.5	1212.2	1179.7	1178.3	1147.1	1112.2	1073.3	1041.4
12.5°	1336.5	1333.2	1319.9	1290.0	1252.4	1222.5	1219.9	1191.0	1157.1	1114.5	1076.3
15°	1364.8	1367.1	1349.1	1315.2	1278.7	1253.4	1251.1	1230.5	1200.3	1157.4	1113.5
17.5°	1368.4	1370.4	1353.1	1319.6	1289.7	1272.4	1271.4	1257.8	1235.8	1194.6	1148.8
20°	1347.1	1348.5	1334.2	1306.6	1287.0	1281.7	1281.4	1275.4	1259.1	1222.5	1178.0
22.5°	1316.2	1317.2	1306.9	1287.0	1280.4	1288.7	1291.0	1288.7	1277.0	1242.8	1200.9
25°	1308.6	1307.9	1297.3	1277.0	1282.7	1300.3	1303.3	1304.3	1296.3	1266.4	1230.2
27.5°	1345.5	1343.2	1322.9	1290.3	1294.0	1315.2	1319.2	1328.9	1323.9	1297.6	1263.4
30°	1452.2	1448.2	1406.6	1340.8	1322.9	1333.9	1338.8	1354.1	1355.1	1333.2	1307.6
32.5°	1632.3	1627.3	1552.8	1435.2	1371.7	1352.8	1357.4	1380.4	1392.7	1375.7	1348.1
35°	1859.9	1854.2	1756.5	1595.7	1453.5	1389.0	1392.3	1410.6	1435.2	1411.3	1374.7
37.5°	2097.1	2083.5	1989.5	1784.5	1583.4	1466.4	1466.4	1468.8	1480.4	1430.6	1406.0
40°	2333.1	2319.5	2234.4	2006.4	1751.6	1588.4	1580.8	1529.2	1519.9	1477.1	1468.8
42.5°	2552.4	2548.4	2498.2	2257.3	1948.9	1708.4	1697.7	1610.3	1612.3	1585.7	1586.1
45°	2785.7	2785.7	2744.8	2510.5	2178.9	1901.1	1890.5	1761.9	1781.8	1769.5	1799.1
47.5°	2976.1	2982.1	2976.4	2774.4	2446.4	2146.0	2126.7	1971.9	2027.7	2069.9	2156.0
50°	3170.5	3179.8	3180.8	3063.8	2769.7	2437.1	2415.2	2250.7	2375.3	2496.2	2665.4
52.5°	3452.6	3473.5	3390.1	3352.6	3165.8	2782.7	2761.1	2609.2	2817.2	2987.1	3278.5
55°	3714.1	3695.8	3636.4	3659.6	3589.8	3176.1	3159.8	3026.6	3309.7	3530.4	3908.9
57.5°	3855.7	3854.4	3914.2	4013.9	4047.1	3661.3	3647.7	3518.1	3865.0	4030.8	4500.7
60°	4021.8	4024.2	4172.4	4398.7	4535.6	4265.4	4259.4	4161.1	4404.3	4498.0	4964.9
62.5°	4045.1	4087.0	4342.2	4731.6	4992.8	4971.2	4984.5	4740.3	4886.8	4870.9	5311.5
65°	3777.6	3832.8	4294.7	4832.3	5447.4	5743.2	5755.4	5322.8	5267.3	5189.5	5435.4
67.5°	3229.3	3311.0	3812.8	4613.3	5597.3	6313.7	6331.0	5774.4	5583.0	5297.5	5137.0
70°	2350.0	2440.7	2945.8	3940.1	5330.1	6496.1	6515.8	5974.1	5594.9	4990.2	4385.4
72.5°	1419.6	1490.7	1907.1	2900.7	4498.7	6163.8	6198.7	5720.9	5108.1	4226.9	3238.3
75°	623.4	669.9	922.1	1671.5	3220.7	5099.8	5143.3	4896.8	4150.4	3071.8	1914.1
77.5°	265.5	278.8	378.2	726.1	1820.7	3484.8	3544.7	3577.9	2815.9	1671.5	808.8
80°	165.5	170.8	214.0	328.6	852.0	1957.3	2021.7	2105.1	1398.3	614.4	282.5
82.5°	100.7	106.7	142.2	198.7	443.6	887.2	918.1	977.0	542.6	265.5	146.2
85°	60.5	64.8	87.1	125.6	252.5	348.9	348.6	385.5	255.5	170.8	77.1
87.5°	28.9	32.2	46.5	65.1	127.3	130.9	122.6	138.9	155.2	112.0	38.9
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: P318956

CATALOG NUMBER: GAN-SA2B-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3
2.5°	988.6	987.3	982.9	979.6	979.0	977.0	975.3	976.3	977.6	978.0	978.0
5°	988.3	984.6	979.0	976.6	979.6	983.6	988.6	995.2	999.2	1002.2	1004.2
7.5°	1004.2	997.2	990.9	989.6	995.6	1006.2	1017.5	1031.5	1041.1	1047.7	1049.1
10°	1030.8	1022.2	1015.8	1017.2	1027.8	1043.1	1059.0	1077.0	1091.6	1100.6	1101.2
12.5°	1061.4	1053.1	1047.1	1052.7	1070.3	1088.9	1105.6	1121.2	1134.5	1143.4	1143.4
15°	1096.6	1090.6	1083.6	1096.6	1120.5	1137.1	1144.1	1151.8	1159.1	1165.7	1164.4
17.5°	1130.5	1124.8	1121.2	1136.5	1161.4	1169.0	1164.4	1158.7	1158.7	1162.4	1163.1
20°	1159.7	1154.7	1157.1	1172.0	1185.0	1177.0	1159.7	1141.8	1134.5	1136.5	1138.5
22.5°	1185.3	1183.0	1190.0	1196.9	1187.6	1159.7	1127.8	1103.6	1094.6	1093.9	1094.6
25°	1215.2	1214.9	1223.5	1210.9	1169.7	1118.2	1075.3	1051.7	1046.7	1050.7	1057.4
27.5°	1252.4	1256.1	1260.4	1214.2	1133.1	1055.4	1011.9	995.6	1000.6	1010.2	1016.5
30°	1300.0	1309.9	1300.6	1205.9	1080.6	983.6	942.1	937.4	951.0	964.7	971.3
32.5°	1346.1	1361.8	1339.2	1184.3	1012.9	907.5	875.3	874.0	890.6	903.9	913.2
35°	1383.4	1414.3	1368.1	1141.5	934.4	837.4	813.8	804.8	810.8	826.4	837.1
37.5°	1431.9	1483.4	1388.0	1076.0	849.4	779.6	752.0	731.4	726.1	732.4	737.7
40°	1520.6	1588.7	1397.3	984.6	766.3	721.8	693.8	663.6	642.7	627.4	627.7
42.5°	1665.5	1726.0	1391.3	873.6	689.5	665.3	633.7	598.8	564.9	530.4	527.7
45°	1900.8	1930.0	1373.4	756.0	622.1	606.1	576.5	541.7	496.5	457.2	453.6
47.5°	2277.3	2212.5	1345.5	653.3	562.6	555.9	528.7	488.5	440.6	409.1	406.4
50°	2790.7	2620.2	1331.9	571.6	510.1	512.1	489.8	447.3	402.1	378.8	376.2
52.5°	3404.8	3095.0	1358.1	508.4	467.9	474.9	458.2	418.4	380.5	362.2	359.5
55°	4041.8	3586.9	1386.4	462.6	428.0	441.6	436.0	403.1	368.9	351.9	349.6
57.5°	4587.1	3954.0	1329.9	425.3	392.4	413.7	418.7	393.4	362.9	347.6	344.9
60°	4930.3	4101.9	1181.7	390.5	364.2	391.5	408.7	390.8	365.2	363.9	361.9
62.5°	5093.2	4089.0	959.4	362.9	346.6	381.8	416.0	405.7	391.8	403.7	404.7
65°	5020.1	3893.6	714.4	344.6	334.0	385.5	438.0	434.0	399.4	411.4	413.0
67.5°	4538.9	3427.3	529.0	328.6	320.0	395.8	477.8	443.3	384.5	393.1	387.8
70°	3668.6	2717.2	408.1	310.7	305.7	394.4	495.8	437.6	368.2	370.2	355.9
72.5°	2529.8	1852.9	332.0	294.1	285.1	359.5	483.2	423.7	354.6	339.3	320.3
75°	1375.7	994.6	282.1	276.8	248.9	315.7	459.9	413.7	342.3	322.0	311.4
77.5°	541.3	412.7	244.9	253.2	217.7	278.8	434.0	394.8	325.3	298.7	293.4
80°	221.0	210.7	203.0	219.0	187.1	243.9	402.7	372.5	305.1	277.1	266.5
82.5°	125.3	130.9	157.8	172.8	151.9	224.6	387.8	354.6	280.8	248.2	235.6
85°	64.1	76.8	110.0	123.9	111.7	191.1	357.2	310.4	225.3	190.1	191.1
87.5°	30.9	42.9	69.5	77.8	72.4	138.2	266.8	225.0	175.5	138.9	134.6
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)