

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: P321836

Luminaire Tested: **GAN-SA2B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6957 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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



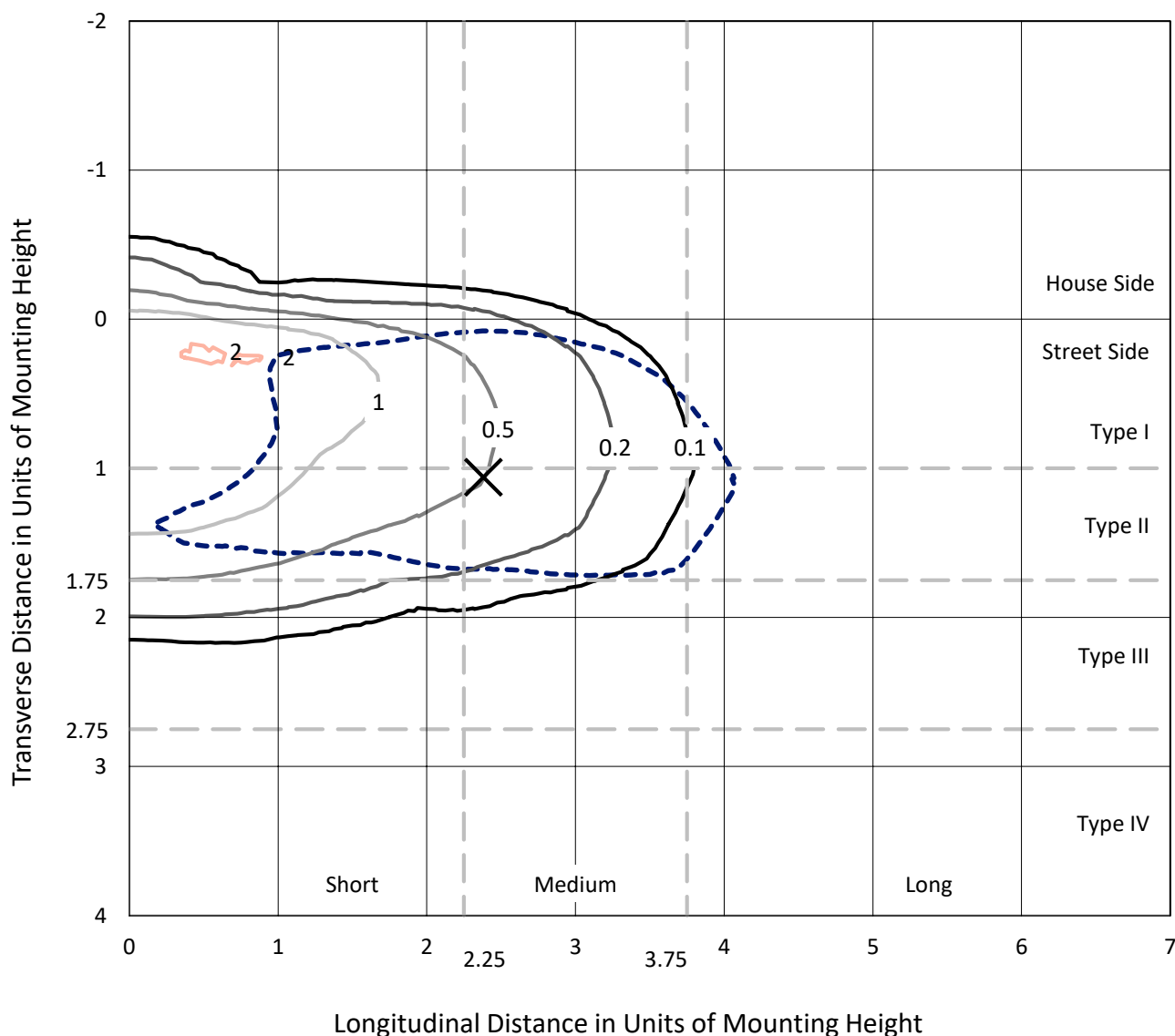
REPORT NUMBER: P321836

CATALOG NUMBER: GAN-SA2B-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

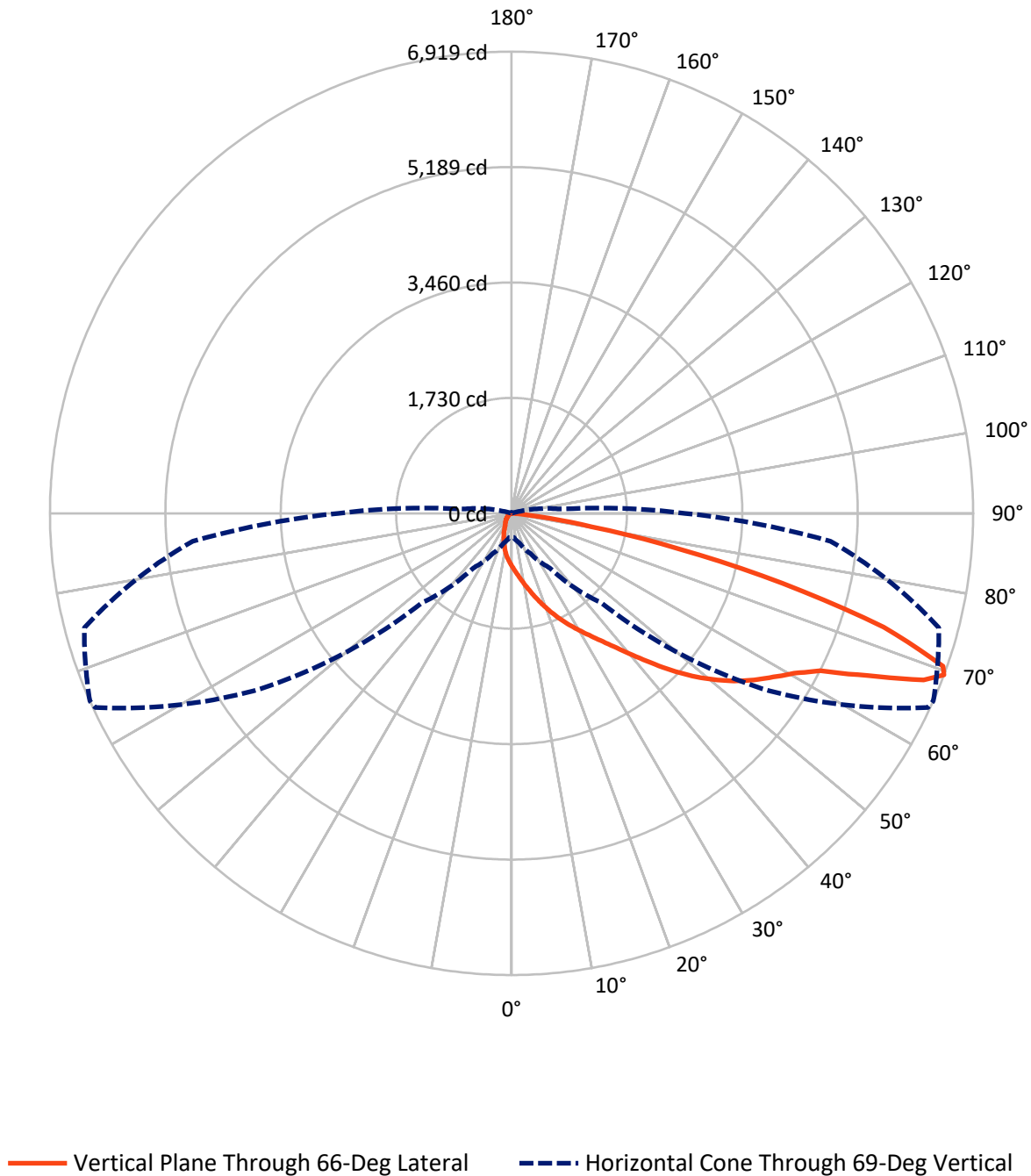
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P321836
CATALOG NUMBER: GAN-SA2B-727-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321836

CATALOG NUMBER: GAN-SA2B-727-U-T2-HSS

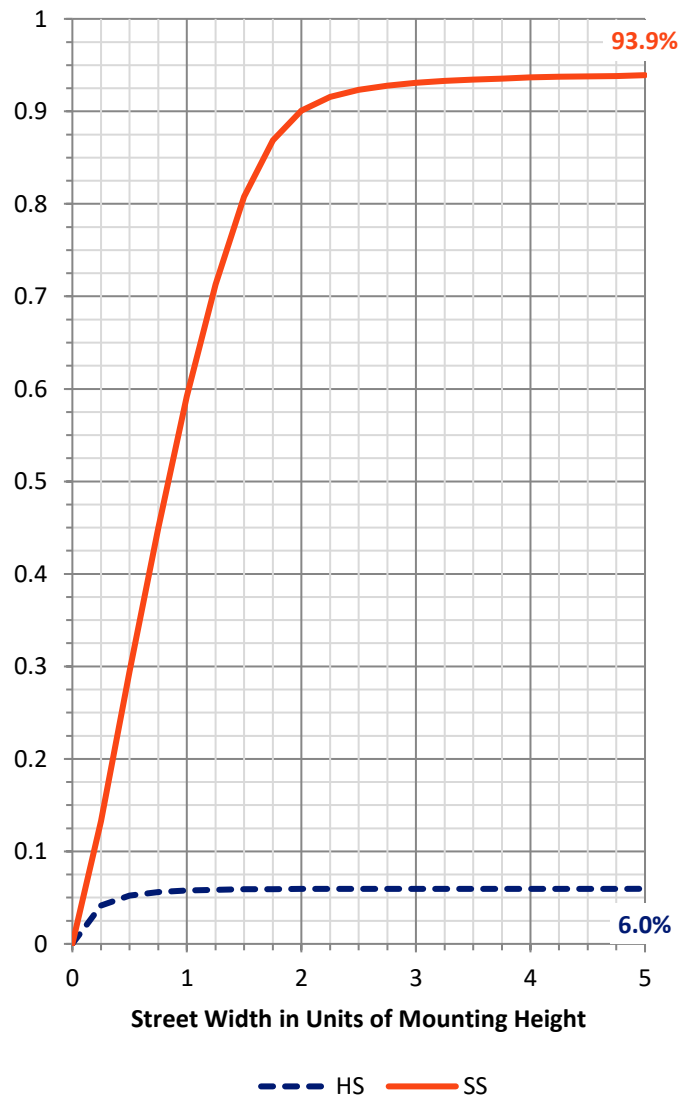
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	417.3	0.0	417.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	6539.7	0.0	6539.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	6957.0	0.0	6957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.1
10°-20°	227.8	3.3
20°-30°	396.6	5.7
30°-40°	695.9	10.0
40°-50°	1164.8	16.7
50°-60°	1712.2	24.6
60°-70°	1758.0	25.3
70°-80°	867.9	12.5
80°-90°	57.4	0.8
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°	6957.0	100.0
0°-180°	6957.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321836

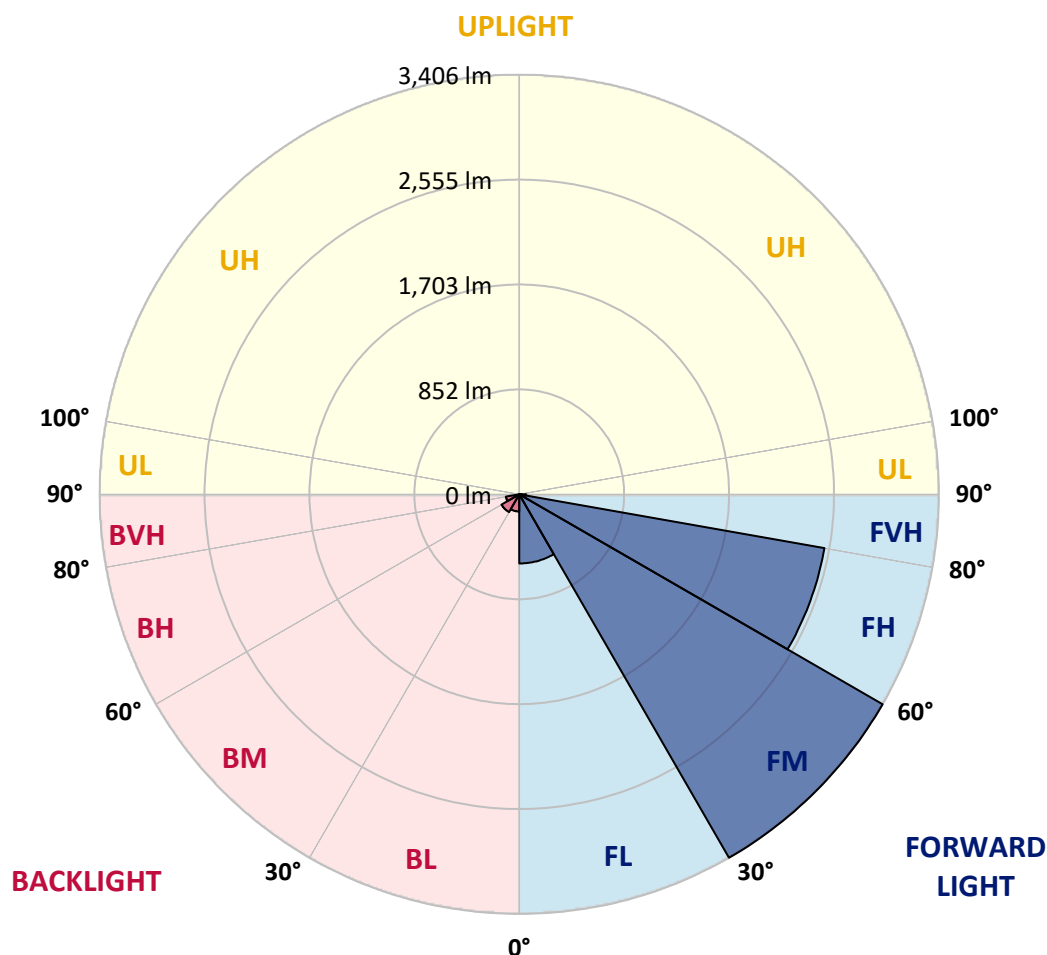
CATALOG NUMBER: GAN-SA2B-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	561.4	8.1			
FM	(30°-60°)	3406.5	49.0			
FH	(60°-80°)	2515.8	36.2			G2/5000
FVH	(80°-90°)	56.0	0.8			G1/100
BL	(0°-30°)	139.6	2.0	B1/500		
BM	(30°-60°)	166.4	2.4	B0/220		
BH	(60°-80°)	110.0	1.6	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P321836

CATALOG NUMBER: GAN-SA2B-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7
2.5°	931.8	927.9	926.2	918.9	906.4	896.8	878.3	856.8	852.9	832.0	806.6
5°	1052.8	1049.5	1047.2	1036.9	1024.0	999.9	966.2	926.2	918.6	879.0	828.1
7.5°	1137.0	1143.0	1143.0	1136.4	1120.2	1102.0	1060.7	1006.2	996.6	935.8	856.8
10°	1186.3	1193.5	1199.2	1204.8	1202.5	1195.2	1156.2	1094.7	1083.2	1002.5	890.2
12.5°	1190.9	1198.2	1214.0	1237.5	1260.3	1276.8	1252.4	1192.9	1179.7	1079.9	929.9
15°	1165.1	1172.7	1197.2	1242.8	1298.0	1346.2	1354.1	1301.6	1288.0	1172.1	979.4
17.5°	1120.2	1125.1	1160.2	1223.3	1309.9	1398.4	1446.3	1418.2	1405.7	1277.5	1034.6
20°	1086.8	1090.4	1121.2	1188.9	1302.6	1431.1	1533.6	1542.2	1528.9	1390.5	1094.4
22.5°	1144.0	1150.6	1151.6	1183.6	1282.8	1447.3	1610.2	1664.1	1654.2	1510.4	1153.2
25°	1300.3	1307.9	1282.8	1262.9	1299.6	1454.6	1676.0	1789.0	1781.1	1639.6	1212.4
27.5°	1506.8	1514.7	1482.3	1423.2	1387.8	1482.0	1734.5	1915.9	1915.5	1776.4	1276.2
30°	1709.7	1717.6	1684.6	1625.4	1544.1	1559.7	1785.0	2048.7	2050.7	1917.5	1343.9
32.5°	1922.5	1932.4	1898.4	1822.4	1737.4	1693.8	1856.1	2182.2	2193.4	2081.1	1420.2
35°	2164.4	2165.7	2117.8	2038.1	1940.3	1873.3	1970.1	2331.9	2358.7	2283.7	1517.0
37.5°	2401.6	2411.2	2371.9	2246.3	2156.4	2080.4	2139.6	2518.9	2556.9	2531.2	1643.6
40°	2577.4	2597.6	2592.0	2456.5	2371.2	2317.0	2350.1	2741.3	2789.6	2819.3	1803.2
42.5°	2687.8	2703.0	2728.8	2647.1	2569.8	2578.7	2598.6	3000.4	3059.9	3147.8	1986.6
45°	2814.3	2821.6	2843.1	2807.1	2754.9	2844.7	2862.3	3292.2	3354.6	3501.0	2190.1
47.5°	2969.0	2986.2	2992.1	2959.1	2935.3	3080.0	3116.4	3557.5	3645.1	3879.3	2405.6
50°	3165.9	3170.6	3180.8	3159.3	3135.5	3282.2	3344.4	3836.1	3915.7	4259.0	2618.1
52.5°	3358.6	3375.1	3410.8	3397.2	3387.6	3454.4	3547.6	4087.2	4176.1	4575.6	2830.2
55°	3414.1	3428.3	3551.5	3635.8	3713.8	3666.5	3741.9	4312.2	4408.4	4858.4	3034.4
57.5°	3192.4	3221.1	3434.6	3654.0	3977.5	3996.3	4008.9	4543.2	4629.4	5075.2	3246.9
60°	2631.9	2637.6	2987.8	3364.2	3933.9	4284.1	4398.8	4791.3	4863.7	5277.1	3501.3
62.5°	1674.0	1731.2	2115.5	2646.8	3472.6	4242.5	4870.3	5166.7	5193.2	5519.3	3866.1
65°	797.3	834.4	1111.3	1635.3	2515.3	3709.5	5195.8	5845.8	5857.7	5999.4	4353.5
67.5°	441.5	459.3	591.2	880.3	1470.4	2623.3	5064.3	6650.1	6661.3	6489.8	4781.1
69°	345.3	360.5	464.3	663.5	996.9	1885.5	4582.8	6885.7	6919.0	6630.2	4796.3
70°	293.1	308.0	399.8	560.4	801.6	1456.9	4079.3	6827.2	6862.5	6617.0	4683.0
72.5°	179.4	188.0	266.3	394.5	537.3	732.9	2515.6	5773.7	5833.5	6069.8	4024.7
75°	120.9	125.6	166.5	272.3	384.3	377.4	1306.9	4069.7	4199.2	4721.6	2972.6
77.5°	86.6	90.9	111.7	176.1	269.3	249.2	591.8	2529.2	2556.9	2831.9	1621.1
80°	49.2	53.2	79.0	104.7	182.7	166.2	235.3	1208.1	1222.0	1214.4	541.3
82.5°	25.8	29.1	43.3	69.1	117.3	108.7	97.8	404.5	406.4	338.0	118.6
85°	5.0	5.9	21.5	47.3	60.5	47.3	40.0	94.8	96.8	85.6	29.4
87.5°	0.0	0.3	8.6	10.6	11.9	12.2	12.9	18.5	19.8	26.8	7.9
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: P321836

CATALOG NUMBER: GAN-SA2B-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7
2.5°	795.4	783.5	760.7	734.2	713.7	693.6	677.7	661.2	655.3	652.3	652.0
5°	803.3	778.2	729.9	680.4	639.7	601.4	574.0	547.9	535.6	530.0	527.7
7.5°	816.5	776.2	698.5	622.9	564.4	516.5	478.5	450.1	435.8	429.9	427.6
10°	832.0	773.6	661.9	562.1	487.4	437.8	400.2	372.1	356.5	349.9	346.6
12.5°	850.2	768.9	619.6	500.6	421.6	372.1	326.5	291.8	273.9	266.3	262.7
15°	872.7	764.3	575.3	442.8	363.8	303.3	253.4	230.0	226.3	225.0	225.4
17.5°	894.8	757.0	527.0	385.6	303.0	236.9	211.5	210.2	210.8	210.8	210.8
20°	914.7	740.5	474.5	336.7	245.2	199.9	194.6	192.3	190.7	189.3	187.7
22.5°	930.2	718.4	424.0	288.1	200.2	183.1	174.8	167.5	161.6	157.6	155.6
25°	940.8	689.0	377.7	241.6	180.1	166.5	151.7	139.4	130.2	124.6	122.3
27.5°	948.7	657.2	336.4	202.2	166.2	147.4	127.9	113.3	103.8	98.8	96.8
30°	954.3	621.2	300.0	177.8	150.7	127.2	106.4	92.2	85.3	82.6	81.3
32.5°	959.6	581.2	265.7	166.2	136.1	108.7	89.2	78.3	74.0	70.7	69.7
35°	972.8	544.2	233.0	154.0	121.3	92.9	76.7	68.7	64.4	62.5	61.8
37.5°	1004.2	516.8	201.6	141.4	106.4	80.3	67.1	61.5	57.5	55.5	54.9
40°	1054.8	502.9	175.1	127.9	91.9	70.7	60.8	55.5	51.2	48.2	47.6
42.5°	1129.1	504.9	156.6	114.3	80.3	63.1	54.9	48.6	43.9	41.3	40.6
45°	1219.3	519.4	143.7	101.1	70.7	57.2	48.2	41.6	37.3	35.0	34.4
47.5°	1317.1	542.9	133.2	89.2	63.1	51.5	41.6	34.7	31.1	29.1	28.7
50°	1420.2	565.7	122.3	77.7	56.5	45.9	35.0	28.7	25.8	24.1	23.5
52.5°	1524.6	592.1	112.3	67.1	50.9	39.3	29.1	23.5	21.1	19.8	19.2
55°	1637.0	612.0	102.8	58.8	45.3	33.4	24.1	19.5	17.5	15.9	15.5
57.5°	1769.2	642.7	92.9	50.9	38.7	27.8	19.8	15.5	13.9	12.2	11.9
60°	1947.6	678.7	82.3	44.9	31.7	22.8	16.2	12.6	10.6	9.3	8.9
62.5°	2182.9	718.7	69.1	39.3	25.8	18.5	12.9	9.9	7.6	5.9	5.9
65°	2481.3	783.8	56.5	33.0	21.1	15.2	9.9	7.3	4.3	2.6	2.6
67.5°	2655.4	795.0	45.6	27.1	17.2	12.9	8.3	5.0	1.3	0.3	0.0
69°	2599.6	729.9	38.7	23.1	14.9	12.2	7.6	3.6	0.7	0.0	0.0
70°	2494.5	667.5	34.0	20.5	13.5	11.6	7.3	2.6	0.7	0.0	0.0
72.5°	2061.3	475.2	25.8	15.2	9.9	10.2	6.6	1.7	0.7	0.0	0.0
75°	1501.5	288.8	18.5	10.6	6.3	7.6	4.6	0.7	0.3	0.0	0.0
77.5°	835.3	136.1	11.6	5.9	4.0	4.6	2.3	0.0	0.0	0.0	0.0
80°	271.3	37.0	5.3	3.3	2.3	2.6	1.0	0.0	0.0	0.0	0.0
82.5°	50.2	10.6	3.0	1.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	10.9	4.3	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.3	0.3	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)