

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: P322176

Luminaire Tested: **GAN-SA2D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9674 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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



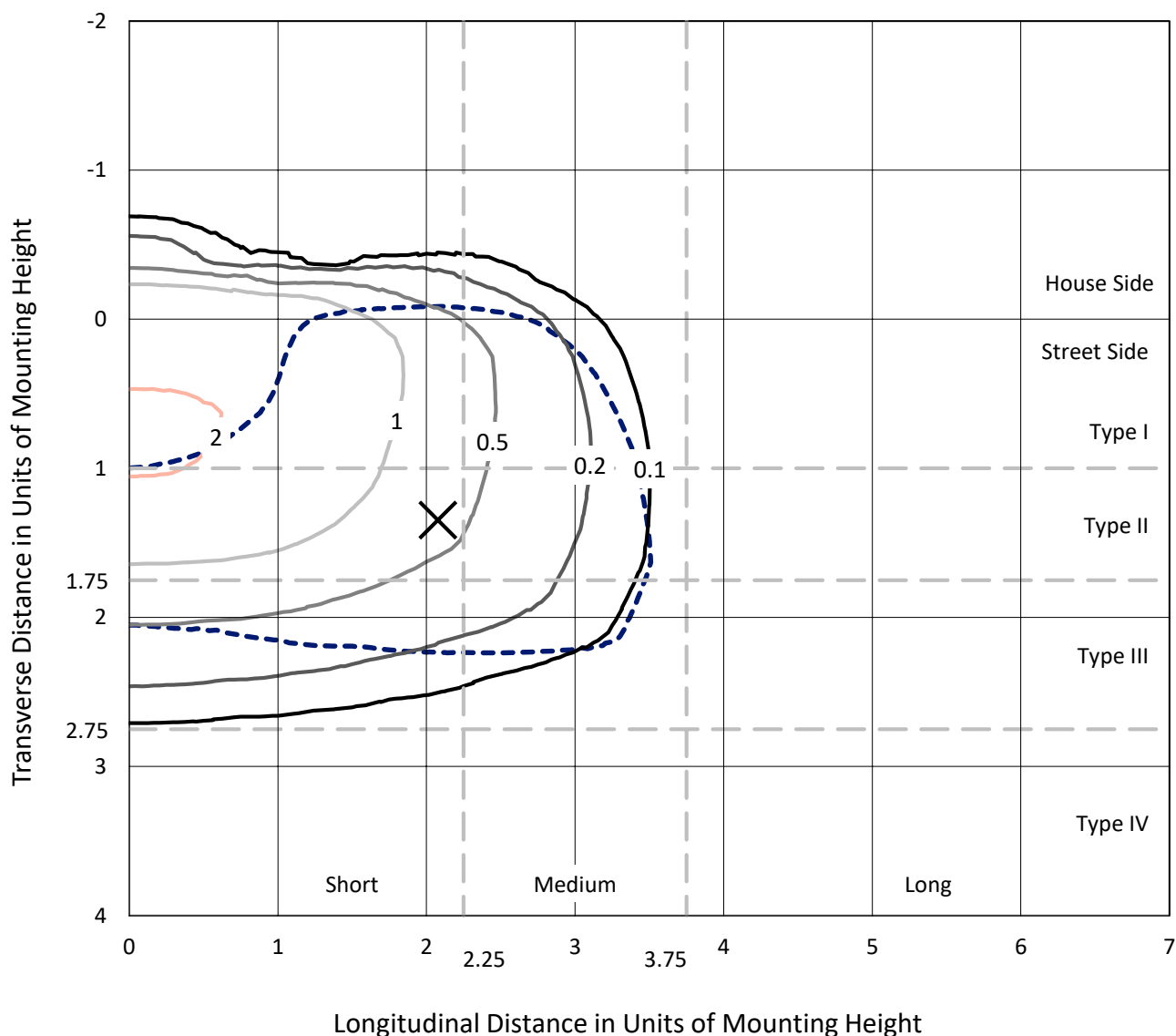
REPORT NUMBER: P322176

CATALOG NUMBER: GAN-SA2D-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

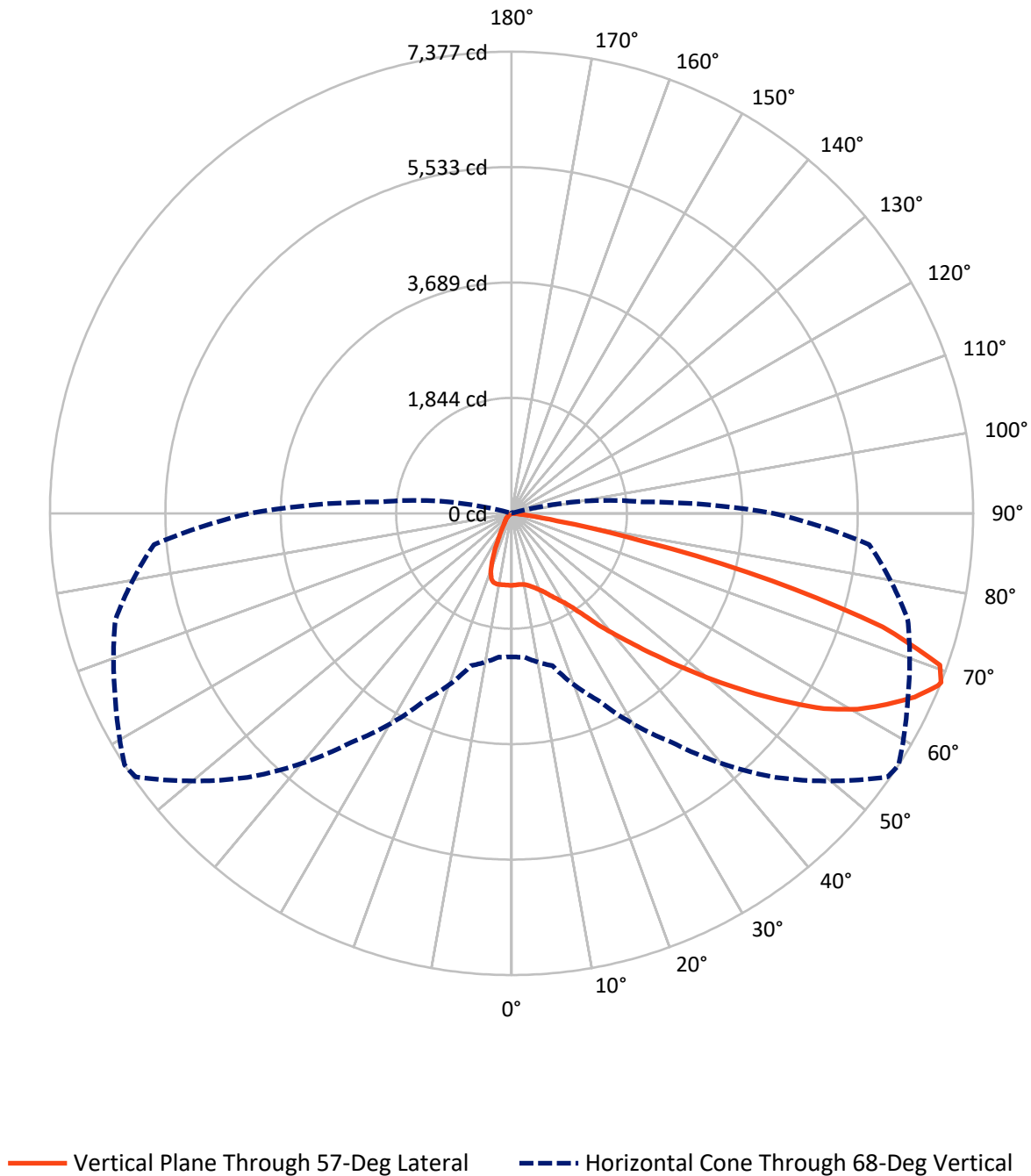


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc

Type III - Short - N/A

REPORT NUMBER: P322176
CATALOG NUMBER: GAN-SA2D-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322176

CATALOG NUMBER: GAN-SA2D-727-U-T3-HSS

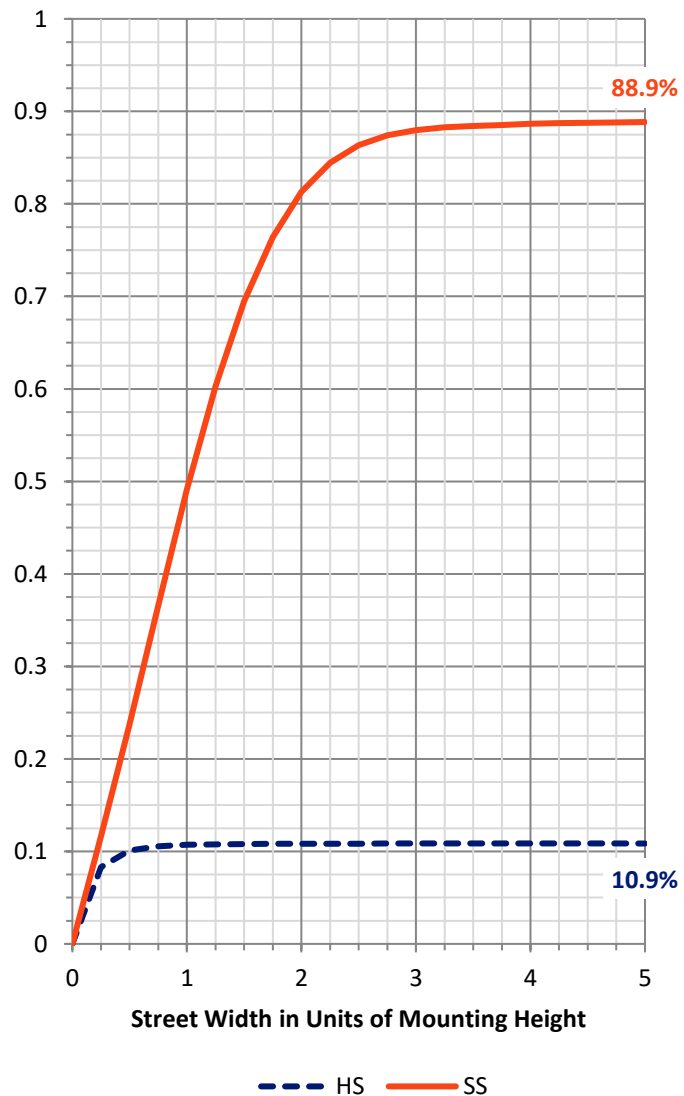
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1060.8	0.0	1060.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	8613.2	0.0	8613.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	9674.0	0.0	9674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.1
10°-20°	298.1	3.1
20°-30°	514.3	5.3
30°-40°	887.6	9.2
40°-50°	1518.3	15.7
50°-60°	2429.1	25.1
60°-70°	2806.5	29.0
70°-80°	1072.4	11.1
80°-90°	40.2	0.4
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°	9674.0	100.0
0°-180°	9674.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322176

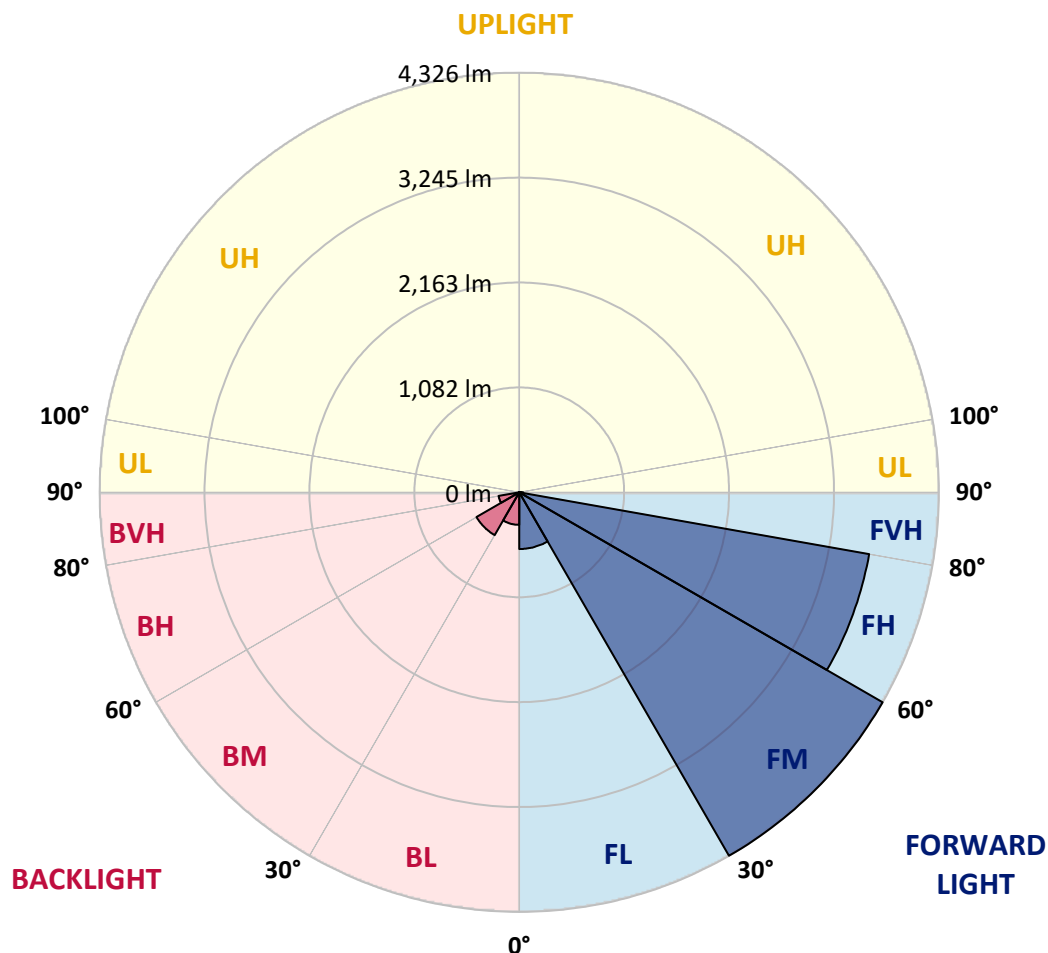
CATALOG NUMBER: GAN-SA2D-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.7	6.0			
FM	(30°-60°)	4326.1	44.7			
FH	(60°-80°)	3662.9	37.9			G2/5000
FVH	(80°-90°)	39.5	0.4			G1/100
BL	(0°-30°)	335.3	3.5	B1/500		
BM	(30°-60°)	508.8	5.3	B1/1000		
BH	(60°-80°)	216.0	2.2	B1/500		G1/500
BVH	(80°-90°)	0.7	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 III Short



REPORT NUMBER: P322176

CATALOG NUMBER: GAN-SA2D-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1122.5	1127.6	1131.2	1133.5	1136.3	1142.2	1144.0	1146.8	1148.2	1148.2	1151.4
5°	1078.2	1083.7	1091.4	1097.8	1110.6	1127.1	1139.0	1143.6	1151.8	1159.1	1163.2
7.5°	1037.0	1043.4	1052.6	1067.6	1089.6	1116.1	1140.8	1147.2	1163.2	1178.8	1186.6
10°	1010.5	1015.5	1027.4	1048.9	1077.7	1114.8	1149.5	1157.3	1184.7	1210.8	1225.5
12.5°	1001.3	1005.9	1018.2	1042.5	1078.2	1121.6	1169.7	1181.1	1221.3	1259.3	1279.9
15°	1014.6	1015.5	1028.8	1051.6	1086.9	1138.5	1203.0	1216.8	1267.5	1316.9	1342.6
17.5°	1065.8	1061.7	1068.6	1078.6	1106.5	1161.0	1238.3	1258.9	1326.6	1384.6	1408.9
20°	1193.9	1193.9	1178.3	1150.9	1151.4	1195.7	1285.8	1309.2	1392.0	1459.2	1481.2
22.5°	1413.0	1408.9	1377.8	1310.5	1248.8	1255.7	1343.9	1374.1	1470.6	1542.5	1549.8
25°	1676.5	1671.5	1623.4	1528.7	1421.7	1352.6	1422.6	1457.4	1564.4	1628.0	1612.9
27.5°	1955.5	1951.4	1903.8	1786.3	1633.9	1507.2	1516.4	1549.3	1660.0	1722.7	1674.7
30°	2225.9	2227.2	2180.1	2059.4	1886.9	1704.4	1635.3	1654.5	1752.9	1816.5	1747.8
32.5°	2482.9	2484.8	2444.1	2309.1	2148.1	1933.6	1800.0	1795.0	1860.8	1923.5	1844.8
35°	2712.1	2716.7	2688.8	2584.0	2413.4	2188.8	2013.6	2001.7	2014.1	2085.0	1993.5
37.5°	2933.1	2935.8	2914.8	2826.5	2683.8	2469.2	2283.5	2266.6	2240.0	2294.5	2189.7
40°	3175.0	3168.2	3143.9	3063.9	2941.3	2778.9	2573.5	2544.2	2498.0	2546.5	2447.7
42.5°	3400.1	3392.3	3396.4	3305.9	3202.5	3097.3	2911.6	2861.2	2834.2	2890.1	2764.3
45°	3681.4	3677.3	3691.0	3612.3	3528.6	3452.2	3299.0	3244.1	3232.2	3297.6	3147.1
47.5°	3959.1	3969.1	4011.7	3978.3	3944.4	3877.2	3709.3	3684.6	3691.9	3771.1	3551.0
50°	4190.5	4202.4	4319.1	4357.5	4406.4	4367.1	4198.8	4183.7	4212.5	4283.8	3985.6
52.5°	4358.0	4382.2	4527.2	4704.2	4882.6	4909.2	4741.3	4727.6	4766.4	4777.4	4321.4
55°	4474.1	4495.6	4659.9	4983.7	5346.9	5461.3	5357.0	5303.9	5296.6	5188.2	4674.5
57.5°	4494.7	4492.4	4728.5	5164.4	5711.0	6006.1	5940.2	5888.1	5738.0	5567.9	5079.3
60°	4378.5	4391.8	4665.8	5227.1	5939.8	6418.2	6423.3	6355.6	6121.8	5937.0	5471.8
62.5°	4020.8	4074.8	4351.5	5062.9	5937.0	6584.3	6777.3	6725.6	6446.1	6239.4	5869.8
65°	3440.8	3460.0	3724.0	4500.2	5535.8	6514.7	7096.1	7076.9	6738.4	6533.0	6074.2
67.5°	2512.7	2471.0	2748.3	3543.7	4686.8	6109.5	7324.9	7349.1	6963.9	6593.4	5856.5
68°	2293.1	2305.5	2521.4	3307.2	4464.5	5966.3	7340.0	7377.0	6986.4	6554.1	5737.6
70°	1366.8	1390.6	1583.2	2277.1	3396.4	5156.2	7177.1	7261.7	6852.8	6148.3	4962.7
72.5°	349.0	377.4	559.4	1019.2	1940.0	3632.9	6058.7	6201.9	5949.8	4987.8	3350.2
75°	143.6	151.0	199.9	335.8	722.7	1636.7	3993.4	4299.9	4124.7	2986.1	1514.1
77.5°	99.3	104.3	128.5	186.2	312.9	554.9	1957.8	2179.2	1963.3	1019.2	330.3
80°	71.4	75.5	91.9	124.0	179.8	198.1	638.1	737.8	586.0	223.7	81.9
82.5°	42.5	45.7	68.6	88.3	109.3	94.7	158.7	180.2	169.7	111.2	36.6
85°	21.0	24.7	46.2	63.1	59.0	39.8	48.5	54.0	66.8	67.7	19.7
87.5°	1.4	2.7	27.0	38.0	16.5	9.1	14.2	17.4	23.8	33.4	8.2
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: P322176

CATALOG NUMBER: GAN-SA2D-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1152.7	1153.2	1150.0	1148.6	1149.5	1144.0	1141.7	1142.7	1142.7	1144.0	1141.7
5°	1164.2	1164.2	1158.7	1151.4	1147.2	1136.7	1129.9	1128.0	1126.7	1125.7	1123.9
7.5°	1188.9	1186.1	1176.5	1160.5	1146.8	1123.9	1106.5	1097.4	1092.8	1091.0	1089.6
10°	1228.7	1223.6	1207.6	1177.9	1146.3	1105.6	1067.6	1040.7	1018.2	1009.1	1003.6
12.5°	1282.2	1274.9	1247.9	1198.5	1143.1	1068.1	985.8	906.6	833.0	802.8	787.7
15°	1343.9	1333.4	1290.9	1215.9	1124.4	983.5	804.6	666.0	564.0	525.6	509.1
17.5°	1406.6	1392.9	1328.4	1226.8	1068.1	808.3	564.5	426.3	358.2	339.9	333.5
20°	1469.7	1449.6	1360.9	1218.6	940.9	582.8	372.3	311.5	291.8	286.4	284.5
22.5°	1529.7	1498.5	1390.1	1186.6	745.2	391.1	294.6	275.4	269.0	265.8	264.9
25°	1581.8	1538.3	1415.8	1087.8	527.4	295.5	265.3	258.9	250.7	244.7	245.2
27.5°	1630.7	1578.1	1431.3	924.9	351.8	252.5	245.6	236.9	221.9	213.2	213.2
30°	1689.8	1631.2	1442.7	711.8	258.9	223.2	217.7	204.5	183.9	172.5	172.5
32.5°	1778.5	1711.7	1435.4	499.5	214.5	196.2	183.4	165.1	142.7	131.7	131.3
35°	1914.4	1836.1	1383.3	327.5	189.4	170.6	150.0	127.6	108.0	98.8	98.3
37.5°	2097.3	2002.6	1266.2	234.2	169.7	146.8	122.1	97.4	82.8	76.8	76.4
40°	2334.7	2196.1	1098.8	189.8	151.4	124.0	94.2	75.5	65.4	60.8	61.3
42.5°	2619.7	2403.3	897.9	163.8	133.6	102.0	73.6	59.5	53.1	49.9	48.9
45°	2936.3	2607.8	687.5	145.9	115.7	82.3	57.6	47.1	42.1	40.3	40.3
47.5°	3284.4	2806.8	503.2	130.4	96.5	63.6	46.2	38.4	34.3	32.9	32.5
50°	3600.4	2944.9	362.7	113.9	79.1	50.3	37.5	32.0	29.3	27.4	27.4
52.5°	3863.9	2988.4	267.1	96.1	64.0	40.3	31.1	27.4	24.7	23.3	23.3
55°	4095.8	2970.6	198.5	79.1	51.7	32.9	26.5	23.3	21.0	19.7	19.7
57.5°	4318.2	2912.9	148.2	64.5	41.6	26.5	22.4	19.7	17.4	16.5	16.5
60°	4499.8	2816.9	110.2	52.1	33.4	21.5	18.8	16.0	14.2	12.8	12.8
62.5°	4647.1	2710.7	81.0	43.0	26.5	16.9	14.6	13.3	10.5	9.1	9.1
65°	4648.0	2534.6	60.8	35.7	20.6	13.3	11.0	10.5	6.9	5.5	5.0
67.5°	4311.8	2185.2	46.7	30.6	16.0	10.1	8.2	8.7	3.7	2.3	1.8
68°	4189.6	2096.4	43.9	30.2	15.1	9.6	7.8	8.7	3.2	1.8	1.4
70°	3532.3	1667.8	35.2	29.3	13.3	7.3	6.4	8.7	2.7	1.4	0.9
72.5°	2259.3	967.9	26.1	23.3	10.1	5.5	4.1	7.8	2.7	0.9	0.5
75°	961.5	300.1	17.8	16.5	5.9	4.1	2.7	5.0	1.8	0.5	0.0
77.5°	202.6	67.7	10.5	10.1	4.1	2.7	1.8	1.4	0.5	0.0	0.0
80°	52.1	19.7	5.5	5.0	2.3	1.4	0.9	0.0	0.0	0.0	0.0
82.5°	16.5	7.8	3.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.4	0.5	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)