

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: P321857

Luminaire Tested: **GAN-SA3D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321857
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-SA3D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 14091 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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

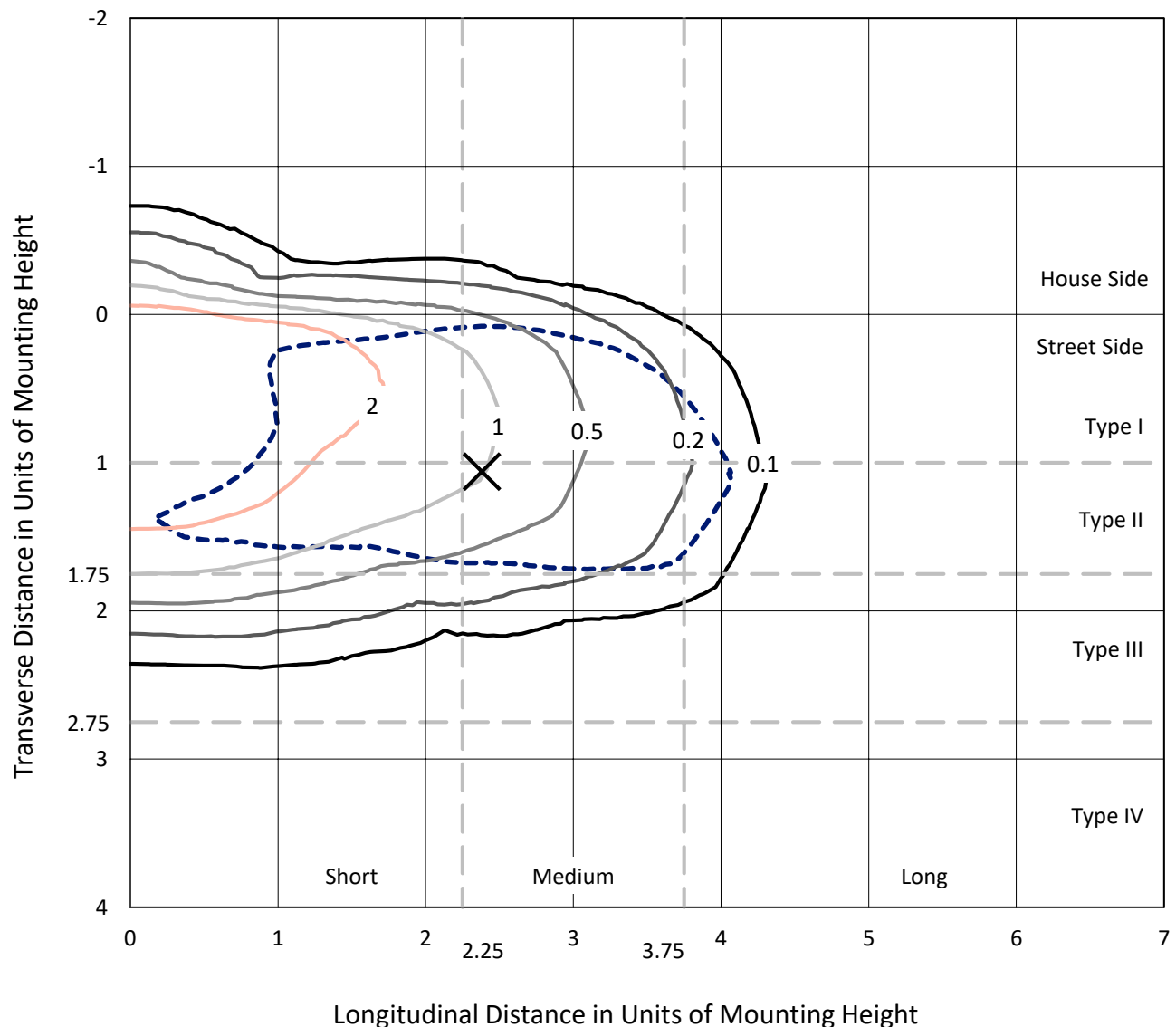


REPORT NUMBER: P321857

CATALOG NUMBER: GAN-SA3D-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

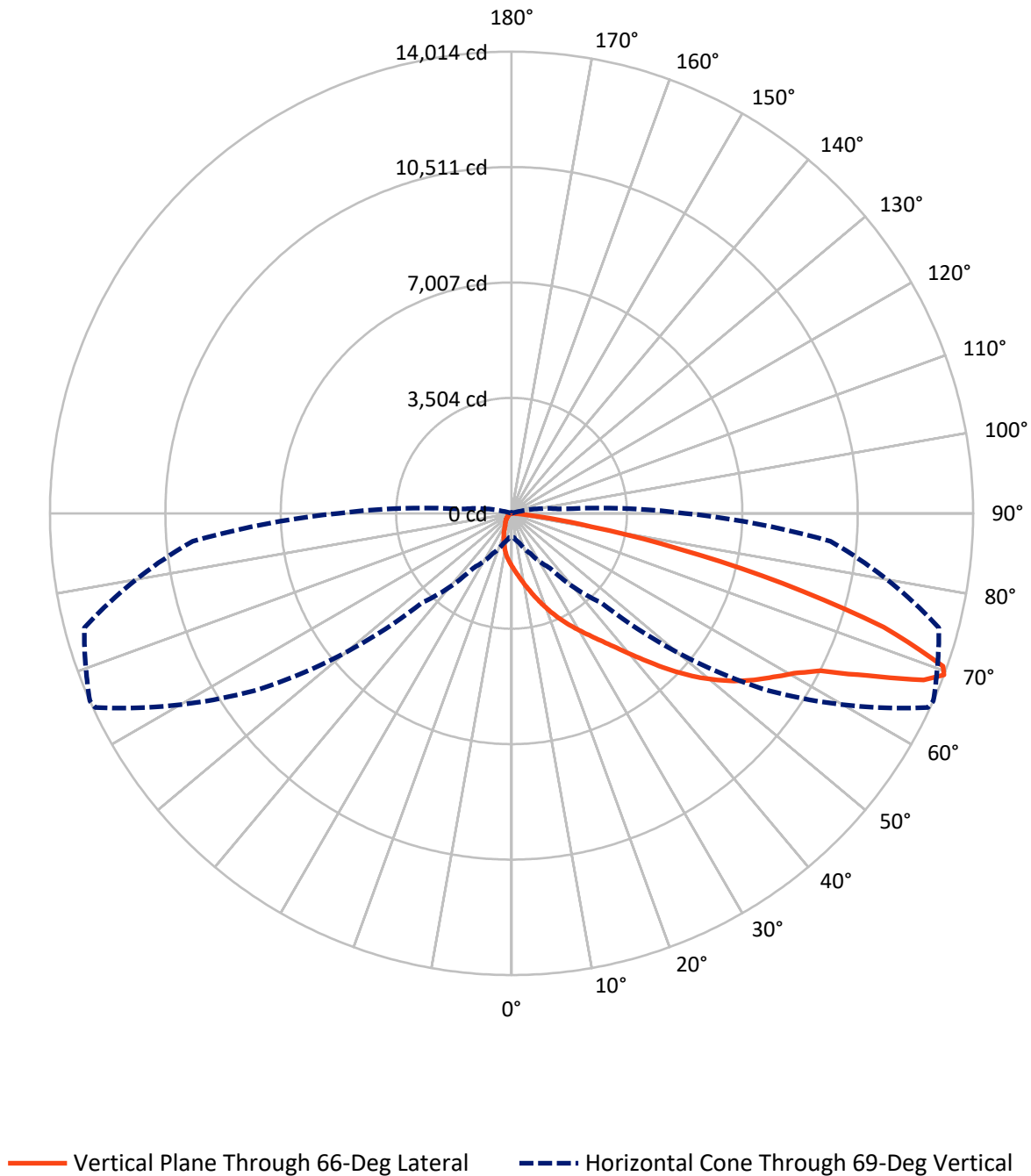
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P321857
CATALOG NUMBER: GAN-SA3D-727-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321857

CATALOG NUMBER: GAN-SA3D-727-U-T2-HSS

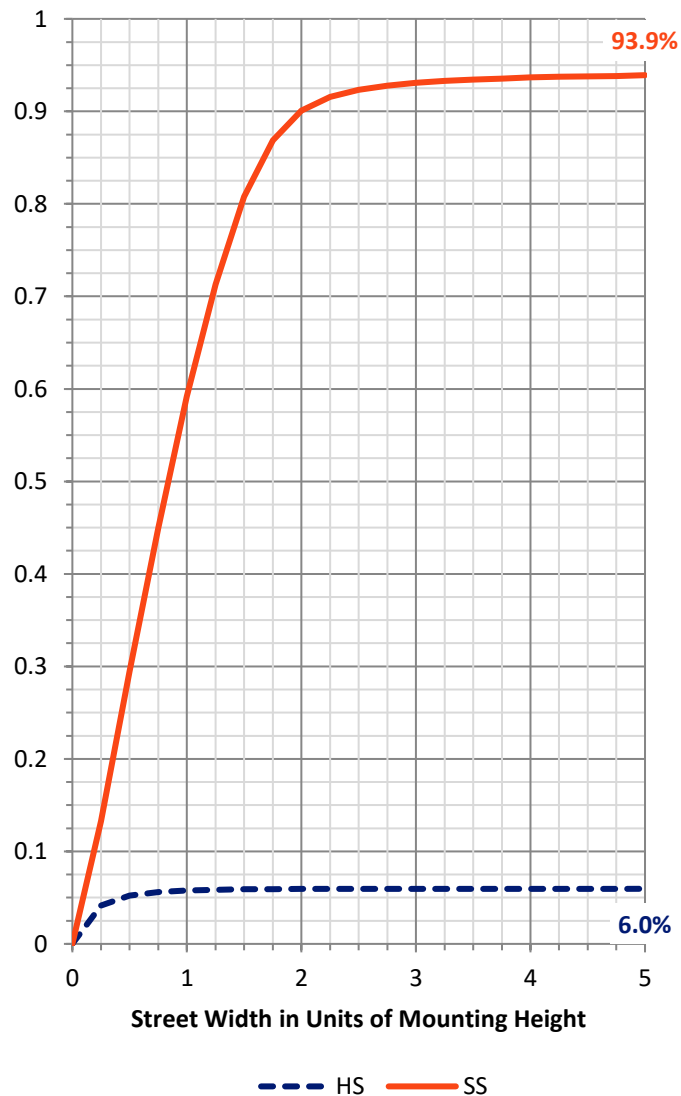
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.3	0.0	845.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	13245.7	0.0	13245.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	14091.0	0.0	14091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	1.1
10°-20°	461.3	3.3
20°-30°	803.4	5.7
30°-40°	1409.5	10.0
40°-50°	2359.3	16.7
50°-60°	3467.9	24.6
60°-70°	3560.6	25.3
70°-80°	1757.8	12.5
80°-90°	116.2	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°	14091.0	100.0
0°-180°	14091.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321857

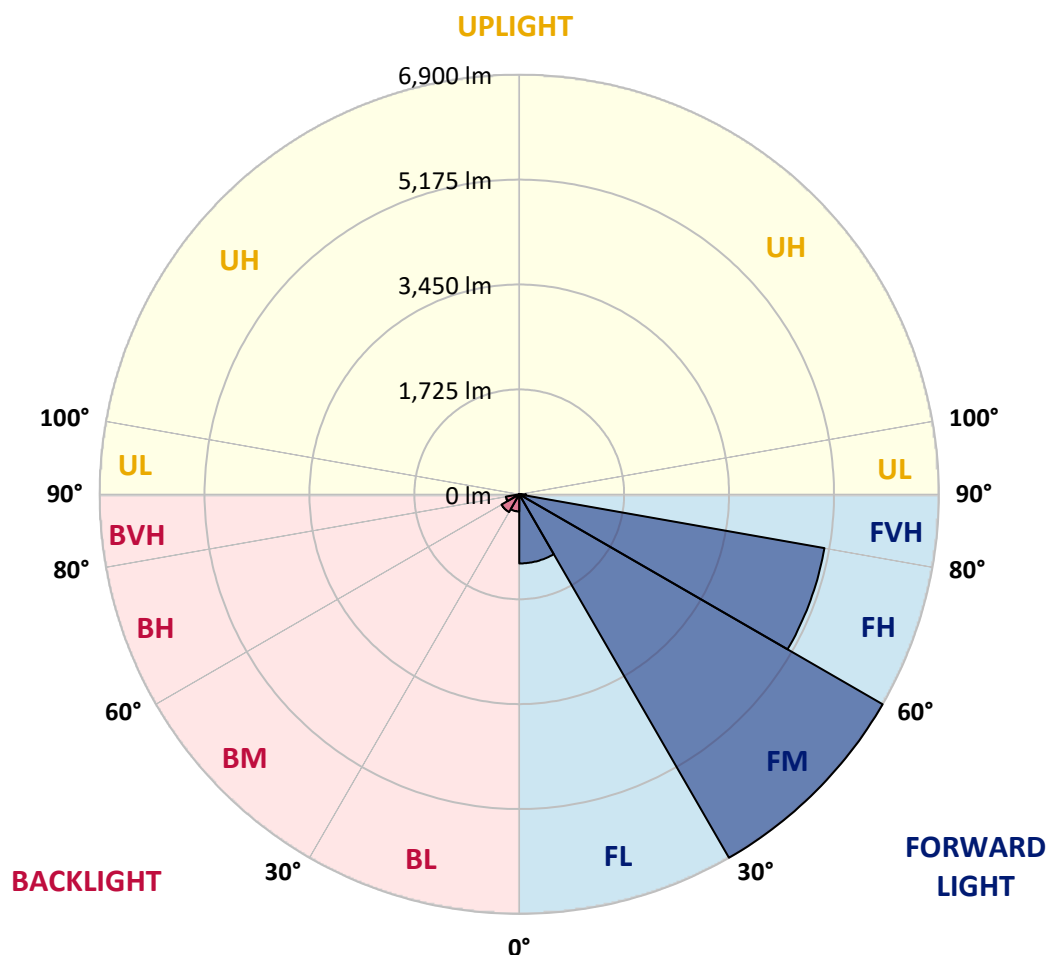
CATALOG NUMBER: GAN-SA3D-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.0	8.1			
FM	(30°-60°)	6899.6	49.0			
FH	(60°-80°)	5095.7	36.2			G3/7500
FVH	(80°-90°)	113.4	0.8			G2/225
BL	(0°-30°)	282.7	2.0	B1/500		
BM	(30°-60°)	337.0	2.4	B1/1000		
BH	(60°-80°)	222.8	1.6	B1/500		G1/500
BVH	(80°-90°)	2.8	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-G3

Type II Medium



REPORT NUMBER: P321857

CATALOG NUMBER: GAN-SA3D-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6
2.5°	1887.4	1879.3	1876.0	1861.3	1835.8	1816.4	1779.0	1735.4	1727.4	1685.3	1633.7
5°	2132.3	2125.6	2121.0	2100.2	2074.1	2025.2	1957.0	1876.0	1860.6	1780.3	1677.2
7.5°	2303.0	2315.0	2315.0	2301.7	2268.9	2232.1	2148.4	2038.0	2018.6	1895.4	1735.4
10°	2402.7	2417.4	2428.8	2440.2	2435.5	2420.8	2341.8	2217.3	2193.9	2030.6	1803.0
12.5°	2412.1	2426.8	2458.9	2506.5	2552.6	2586.1	2536.6	2416.1	2389.3	2187.2	1883.4
15°	2359.9	2375.3	2424.8	2517.2	2628.9	2726.7	2742.7	2636.3	2608.9	2373.9	1983.8
17.5°	2268.9	2278.9	2349.9	2477.7	2653.0	2832.4	2929.4	2872.6	2847.1	2587.4	2095.5
20°	2201.3	2208.6	2270.9	2408.1	2638.3	2898.7	3106.1	3123.5	3096.8	2816.3	2216.7
22.5°	2317.1	2330.4	2332.4	2397.4	2598.2	2931.5	3261.4	3370.5	3350.4	3059.3	2335.8
25°	2633.6	2649.0	2598.2	2558.0	2632.3	2946.2	3394.6	3623.5	3607.4	3321.0	2455.6
27.5°	3051.9	3068.0	3002.4	2882.6	2811.0	3001.7	3513.1	3880.5	3879.8	3598.1	2584.8
30°	3462.9	3478.9	3412.0	3292.2	3127.6	3159.0	3615.5	4149.6	4153.6	3883.8	2722.0
32.5°	3893.9	3914.0	3845.0	3691.1	3519.1	3430.7	3759.4	4419.9	4442.7	4215.1	2876.6
35°	4383.8	4386.5	4289.4	4128.1	3930.0	3794.2	3990.3	4723.1	4777.3	4625.4	3072.7
37.5°	4864.3	4883.8	4804.1	4549.8	4367.7	4213.8	4333.6	5101.9	5178.9	5126.7	3329.0
40°	5220.4	5261.2	5249.9	4975.4	4802.8	4693.0	4759.9	5552.4	5650.1	5710.3	3652.3
42.5°	5443.9	5474.7	5526.9	5361.6	5205.0	5223.1	5263.2	6077.1	6197.6	6375.6	4023.7
45°	5700.3	5715.0	5758.5	5685.6	5579.8	5761.9	5797.3	6668.1	6794.6	7091.0	4436.0
47.5°	6013.5	6048.3	6060.4	5993.4	5945.2	6238.4	6312.0	7205.5	7382.9	7857.4	4872.4
50°	6412.4	6421.8	6442.5	6399.0	6350.8	6648.0	6773.8	7769.7	7931.0	8626.4	5302.7
52.5°	6802.6	6836.1	6908.3	6880.9	6861.5	6996.7	7185.4	8278.4	8458.4	9267.6	5732.4
55°	6915.0	6943.8	7193.4	7364.1	7522.1	7426.4	7579.0	8734.1	8928.9	9840.5	6146.0
57.5°	6465.9	6524.2	6956.5	7400.9	8056.2	8094.3	8119.7	9202.0	9376.6	10279.5	6576.4
60°	5330.8	5342.2	6051.7	6814.0	7967.8	8677.2	8909.5	9704.6	9851.2	10688.4	7091.7
62.5°	3390.6	3506.4	4284.7	5361.0	7033.5	8592.9	9864.6	10464.9	10518.4	11179.0	7830.6
65°	1615.0	1689.9	2250.8	3312.3	5094.6	7513.4	10523.8	11840.3	11864.4	12151.5	8817.8
67.5°	894.2	930.3	1197.3	1783.0	2978.3	5313.4	10257.4	13469.3	13492.1	13144.7	9683.8
69°	699.4	730.2	940.3	1343.9	2019.2	3818.9	9282.3	13946.5	14014.1	13429.2	9714.6
70°	593.7	623.8	809.8	1135.1	1623.7	2950.9	8262.3	13828.0	13899.7	13402.4	9485.1
72.5°	363.4	380.8	539.4	799.1	1088.3	1484.5	5095.2	11694.4	11815.5	12294.1	8151.9
75°	245.0	254.3	337.3	551.5	778.4	764.3	2647.0	8242.9	8505.2	9563.4	6020.9
77.5°	175.4	184.1	226.2	356.7	545.5	504.6	1198.7	5122.7	5178.9	5735.8	3283.5
80°	99.7	107.8	160.0	212.2	370.1	336.6	476.5	2446.9	2475.0	2459.6	1096.3
82.5°	52.2	58.9	87.7	139.9	237.6	220.2	198.1	819.2	823.2	684.7	240.3
85°	10.0	12.0	43.5	95.7	122.5	95.7	81.0	192.1	196.1	173.3	59.6
87.5°	0.0	0.7	17.4	21.4	24.1	24.8	26.1	37.5	40.2	54.2	16.1
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: P321857

CATALOG NUMBER: GAN-SA3D-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6
2.5°	1611.0	1586.9	1540.7	1487.1	1445.7	1404.8	1372.7	1339.2	1327.2	1321.2	1320.5
5°	1627.0	1576.2	1478.4	1378.1	1295.7	1218.1	1162.5	1109.7	1084.9	1073.5	1068.8
7.5°	1653.8	1572.1	1414.9	1261.6	1143.1	1046.1	969.1	911.6	882.8	870.7	866.1
10°	1685.3	1566.8	1340.6	1138.4	987.2	886.8	810.5	753.6	722.2	708.8	702.1
12.5°	1722.1	1557.4	1254.9	1014.0	854.0	753.6	661.3	591.0	554.8	539.4	532.1
15°	1767.6	1548.1	1165.2	896.8	736.9	614.4	513.3	465.8	458.5	455.8	456.5
17.5°	1812.4	1533.3	1067.5	781.1	613.7	479.9	428.3	425.7	427.0	427.0	427.0
20°	1852.6	1499.9	961.1	682.0	496.6	404.9	394.2	389.5	386.2	383.5	380.2
22.5°	1884.0	1455.0	858.7	583.6	405.6	370.8	354.1	339.3	327.3	319.2	315.2
25°	1905.4	1395.5	765.0	489.2	364.8	337.3	307.2	282.4	263.7	252.3	247.6
27.5°	1921.5	1331.2	681.3	409.6	336.6	298.5	259.0	229.6	210.2	200.1	196.1
30°	1932.9	1258.3	607.7	360.1	305.2	257.7	215.5	186.7	172.7	167.3	164.6
32.5°	1943.6	1177.3	538.1	336.6	275.7	220.2	180.7	158.6	149.9	143.2	141.2
35°	1970.4	1102.3	471.8	311.9	245.6	188.1	155.3	139.2	130.5	126.5	125.2
37.5°	2033.9	1046.8	408.3	286.5	215.5	162.6	135.9	124.5	116.5	112.4	111.1
40°	2136.3	1018.6	354.7	259.0	186.1	143.2	123.1	112.4	103.7	97.7	96.4
42.5°	2286.9	1022.7	317.2	231.6	162.6	127.8	111.1	98.4	89.0	83.7	82.3
45°	2469.7	1052.1	291.1	204.8	143.2	115.8	97.7	84.3	75.6	70.9	69.6
47.5°	2667.8	1099.6	269.7	180.7	127.8	104.4	84.3	70.3	62.9	58.9	58.2
50°	2876.6	1145.8	247.6	157.3	114.4	93.0	70.9	58.2	52.2	48.9	47.5
52.5°	3088.1	1199.4	227.6	135.9	103.1	79.6	58.9	47.5	42.8	40.2	38.8
55°	3315.6	1239.5	208.1	119.1	91.7	67.6	48.9	39.5	35.5	32.1	31.5
57.5°	3583.3	1301.8	188.1	103.1	78.3	56.2	40.2	31.5	28.1	24.8	24.1
60°	3944.8	1374.7	166.7	91.0	64.3	46.2	32.8	25.4	21.4	18.7	18.1
62.5°	4421.3	1455.7	139.9	79.6	52.2	37.5	26.1	20.1	15.4	12.0	12.0
65°	5025.6	1587.5	114.4	66.9	42.8	30.8	20.1	14.7	8.7	5.4	5.4
67.5°	5378.4	1610.3	92.4	54.9	34.8	26.1	16.7	10.0	2.7	0.7	0.0
69°	5265.2	1478.4	78.3	46.8	30.1	24.8	15.4	7.4	1.3	0.0	0.0
70°	5052.4	1352.0	68.9	41.5	27.4	23.4	14.7	5.4	1.3	0.0	0.0
72.5°	4175.0	962.4	52.2	30.8	20.1	20.7	13.4	3.3	1.3	0.0	0.0
75°	3041.2	585.0	37.5	21.4	12.7	15.4	9.4	1.3	0.7	0.0	0.0
77.5°	1691.9	275.7	23.4	12.0	8.0	9.4	4.7	0.0	0.0	0.0	0.0
80°	549.5	75.0	10.7	6.7	4.7	5.4	2.0	0.0	0.0	0.0	0.0
82.5°	101.7	21.4	6.0	3.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	22.1	8.7	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	2.7	0.7	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)