

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: P318222

Luminaire Tested: **GAN-SA8D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44860 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

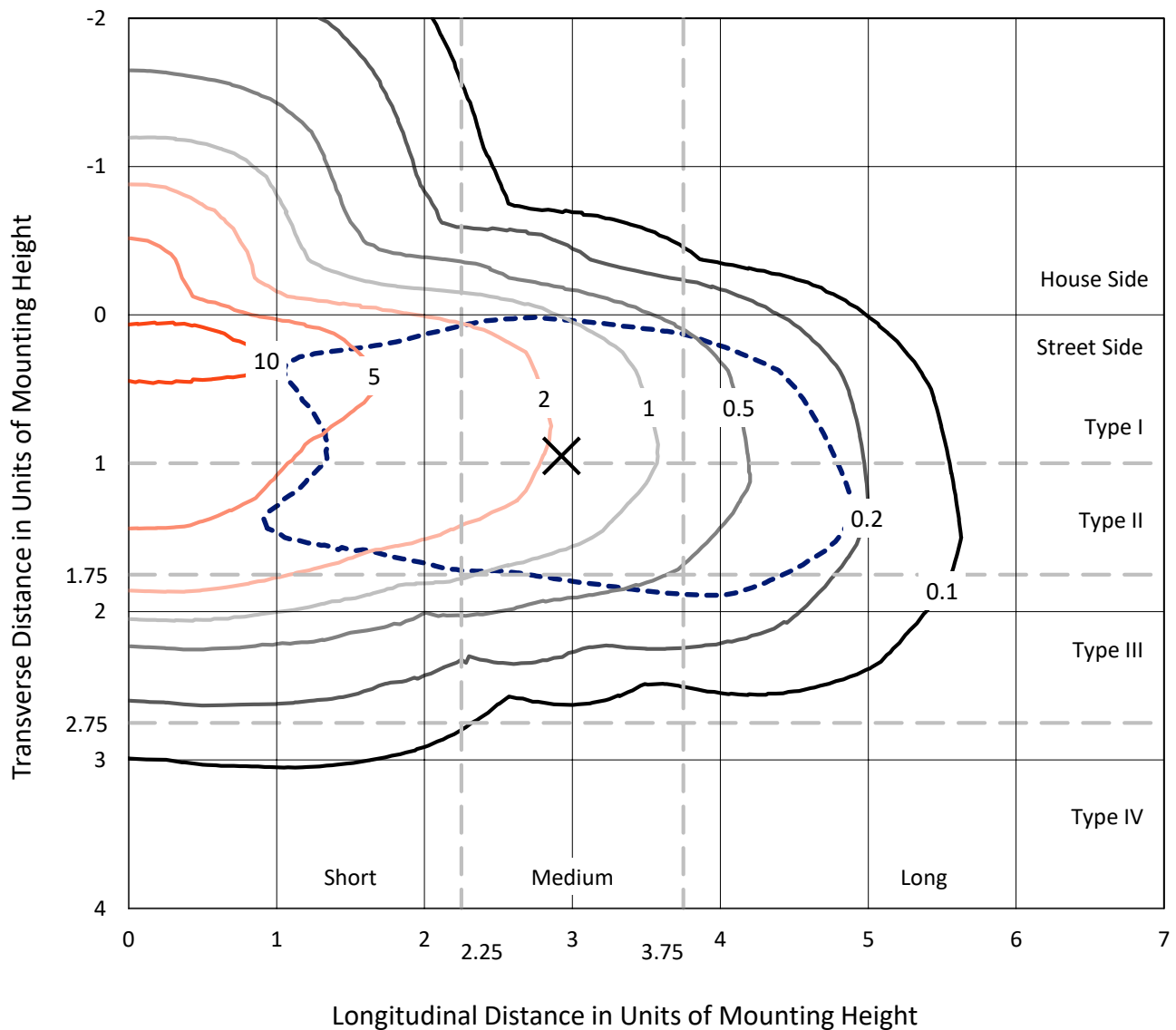


REPORT NUMBER: P318222

CATALOG NUMBER: GAN-SA8D-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

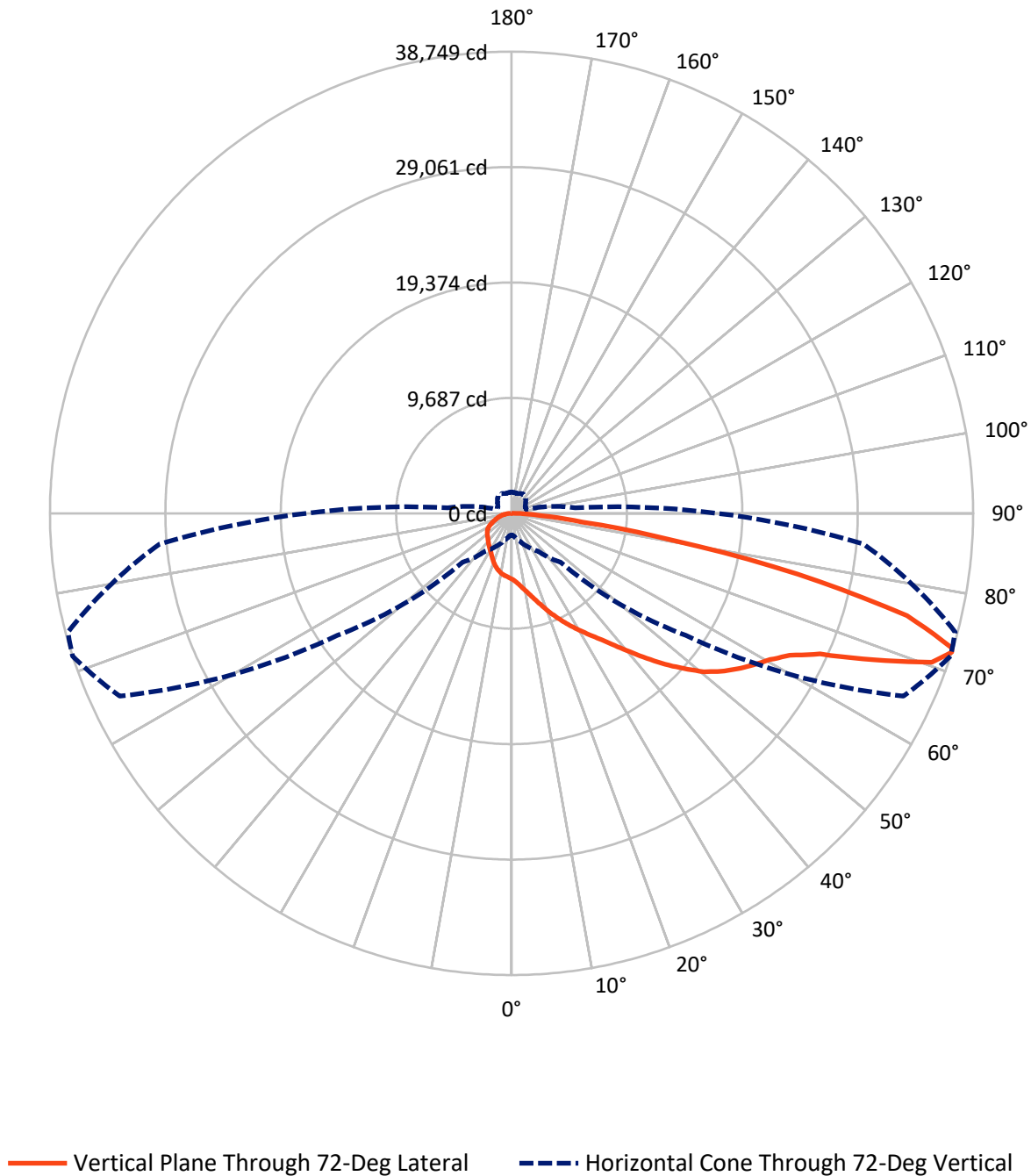
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P318222
CATALOG NUMBER: GAN-SA8D-827-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318222

CATALOG NUMBER: GAN-SA8D-827-U-T2

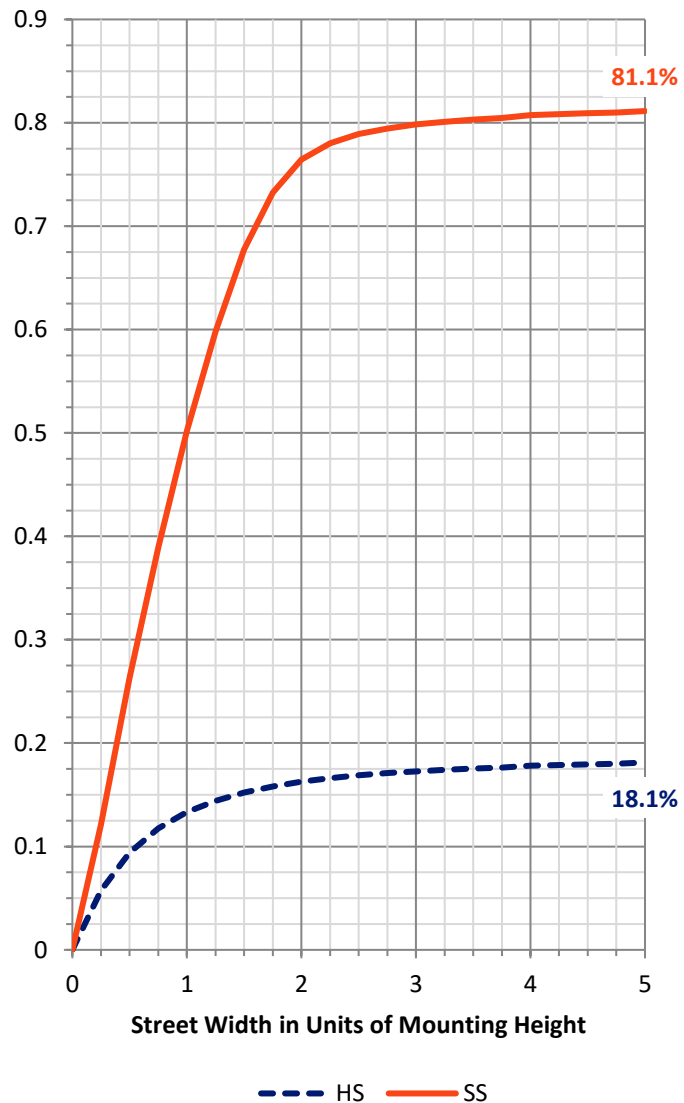
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8321.8	0.0	8321.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	36538.2	0.0	36538.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	44860.0	0.0	44860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.0	1.2
10°-20°	1787.1	4.0
20°-30°	3131.5	7.0
30°-40°	4643.1	10.4
40°-50°	6790.9	15.1
50°-60°	9344.2	20.8
60°-70°	10402.8	23.2
70°-80°	7048.9	15.7
80°-90°	1158.6	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°	44860.0	100.0
0°-180°	44860.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318222

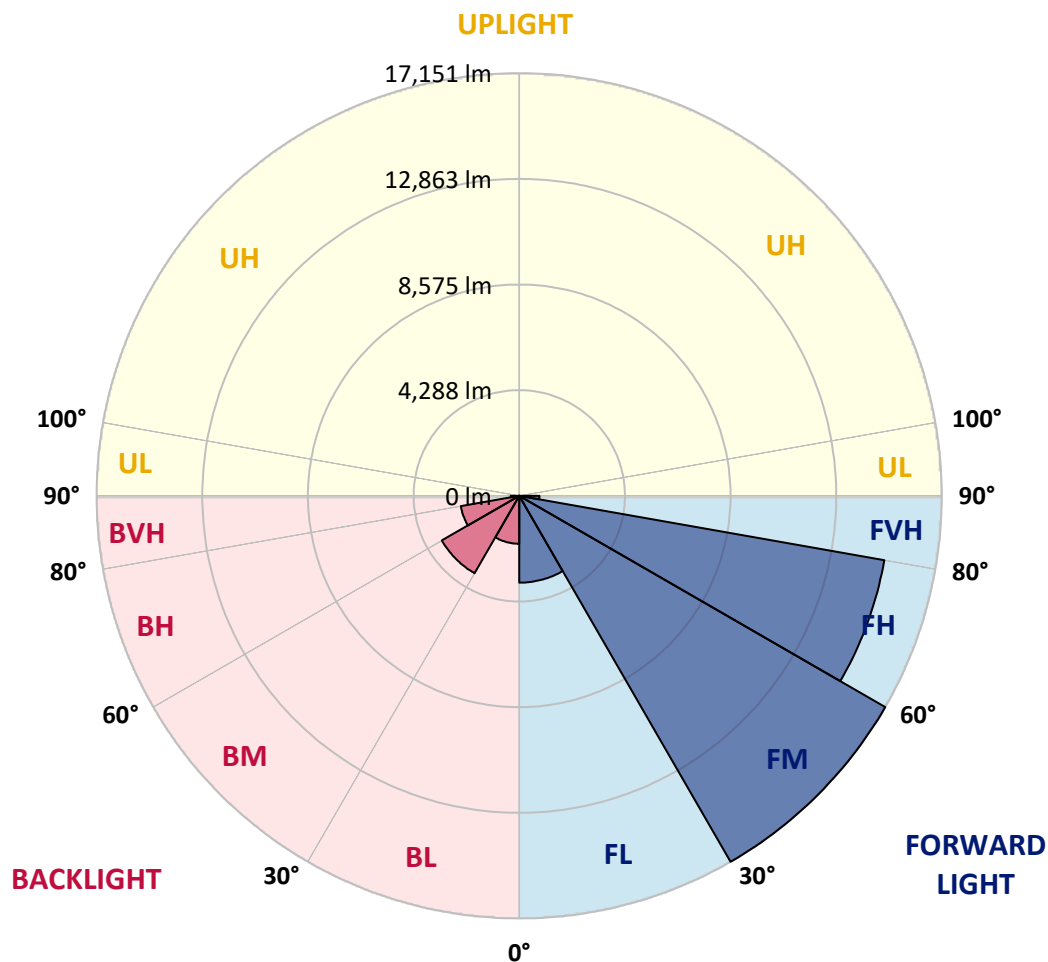
CATALOG NUMBER: GAN-SA8D-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3526.3	7.9			
FM	(30°-60°)	17150.5	38.2			
FH	(60°-80°)	15044.2	33.5			G5
FVH	(80°-90°)	817.2	1.8			G5
BL	(0°-30°)	1945.3	4.3	B3/2500		
BM	(30°-60°)	3627.5	8.1	B3/5000		
BH	(60°-80°)	2407.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	341.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P318222

CATALOG NUMBER: GAN-SA8D-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0
2.5°	6096.6	6087.4	6054.9	6054.9	5993.2	5940.6	5841.8	5775.4	5696.6	5668.8	5576.1
5°	6686.7	6689.8	6649.6	6621.8	6530.7	6419.5	6251.1	6098.2	5945.3	5883.5	5693.5
7.5°	7182.5	7176.3	7165.5	7142.4	7057.4	6943.1	6716.0	6489.0	6263.5	6170.8	5843.3
10°	7500.7	7514.6	7523.9	7534.7	7499.2	7417.3	7202.6	6926.1	6631.1	6504.4	6022.5
12.5°	7661.3	7686.1	7729.3	7803.5	7862.1	7852.9	7696.9	7403.4	7052.8	6893.7	6246.5
15°	7755.6	7788.0	7856.0	7988.8	8154.1	8248.3	8206.6	7940.9	7550.1	7354.0	6519.9
17.5°	7814.3	7840.5	7945.6	8123.2	8368.8	8619.0	8728.7	8506.3	8112.4	7888.4	6833.4
20°	7854.4	7874.5	8005.8	8214.3	8532.5	8931.0	9236.9	9181.3	8731.8	8441.4	7160.9
22.5°	7944.0	7961.0	8086.1	8296.2	8648.4	9162.7	9726.5	9809.9	9385.2	9056.1	7511.5
25°	8194.2	8194.2	8299.3	8446.0	8776.6	9363.5	10140.5	10509.6	10052.4	9669.4	7835.9
27.5°	8671.5	8666.9	8705.5	8756.5	9006.7	9567.4	10509.6	11127.5	10744.4	10325.8	8151.0
30°	9236.9	9267.8	9272.4	9247.7	9365.1	9822.3	10851.0	11779.3	11441.0	10990.0	8473.8
32.5°	9964.4	9984.5	9961.3	9879.4	9862.4	10183.7	11186.2	12462.0	12194.8	11683.6	8768.8
35°	10888.1	10849.5	10776.9	10610.0	10450.9	10667.2	11569.3	13144.8	13041.3	12522.3	9175.1
37.5°	11878.2	11879.7	11790.1	11411.7	11192.4	11285.0	12097.5	13918.6	14065.4	13520.1	9695.6
40°	12672.1	12713.8	12769.4	12272.1	11987.8	12116.0	12769.4	14816.1	15276.4	14703.3	10373.7
42.5°	13226.6	13274.5	13432.1	13120.1	12825.0	13062.9	13560.3	15773.7	16635.6	16068.7	11167.6
45°	13813.6	13839.9	13951.1	13816.7	13628.2	14164.2	14451.5	16765.4	18073.7	17523.8	12055.8
47.5°	14431.4	14459.2	14573.6	14484.0	14385.1	15192.9	15381.4	17699.9	19451.5	19122.5	13004.2
50°	15194.5	15213.0	15321.1	15159.0	15189.9	15968.3	16212.4	18557.1	20895.7	20559.0	13955.7
52.5°	16235.6	16240.2	16390.0	16243.3	16098.1	16536.8	16927.6	19365.0	22027.9	21868.8	14907.2
55°	17051.1	17100.6	17591.8	17560.9	17477.4	17052.7	17525.3	20134.2	23038.1	23113.8	15917.4
57.5°	16530.6	16723.7	17718.4	18419.7	19102.4	18336.3	18333.2	21000.7	23977.2	24335.6	17028.0
60°	14477.8	14740.4	16206.2	17761.7	19897.9	20569.8	20010.6	22058.8	24925.6	25546.6	18419.7
62.5°	10339.7	10772.2	12758.6	15242.4	18807.4	22049.5	23424.3	23737.8	26215.4	26949.1	20228.4
65°	5227.0	5554.5	7219.6	10211.5	15026.1	21082.6	27134.5	27414.0	28456.7	29108.5	23013.4
67.5°	3175.8	3299.3	4111.8	5679.6	9212.2	16422.5	28345.4	33541.6	32794.0	33140.0	26984.6
70°	2340.1	2431.2	2937.9	3772.0	5298.1	9636.9	24629.1	37914.4	37423.2	37384.6	29919.4
72°	1822.7	1889.1	2337.0	3047.5	3873.9	5781.5	17851.2	36300.3	38748.5	38553.9	29650.6
72.5°	1728.4	1787.1	2194.9	2868.4	3660.8	5240.9	16050.2	35211.3	38652.7	38564.7	29303.1
75°	1360.8	1402.5	1624.9	2218.1	2865.3	2973.4	8795.1	27287.4	34289.2	35714.9	26356.0
77.5°	1126.0	1132.2	1249.6	1614.1	2233.5	2102.2	4320.3	18932.5	24553.4	26121.2	18669.9
80°	917.5	925.2	980.8	1132.2	1689.8	1555.4	2051.3	10886.5	13747.2	13764.2	8878.5
82.5°	730.6	732.2	793.9	827.9	1214.1	1112.1	1175.5	5111.2	6007.1	5778.4	3191.2
85°	514.4	503.5	775.4	679.6	793.9	713.6	648.7	2023.5	2483.8	2375.6	999.4
87.5°	171.5	177.6	344.5	440.2	463.4	404.7	288.8	775.4	937.6	929.9	316.6
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: P318222

CATALOG NUMBER: GAN-SA8D-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0
2.5°	5546.8	5497.3	5424.7	5344.4	5281.1	5216.2	5168.3	5143.6	5115.8	5092.6	5120.4
5°	5605.4	5512.8	5358.3	5206.9	5095.7	4996.9	4925.8	4888.7	4854.8	4831.6	4834.7
7.5°	5701.2	5551.4	5291.9	5071.0	4916.5	4810.0	4737.4	4712.7	4691.0	4684.9	4692.6
10°	5803.2	5582.3	5203.8	4910.4	4734.3	4646.2	4613.8	4630.8	4646.2	4660.1	4675.6
12.5°	5919.0	5610.1	5075.6	4721.9	4572.1	4538.1	4570.5	4644.7	4698.8	4731.2	4751.3
15°	6070.4	5634.8	4927.4	4533.5	4433.1	4471.7	4581.4	4709.6	4803.8	4864.0	4873.3
17.5°	6209.4	5633.3	4737.4	4343.5	4320.3	4433.1	4598.4	4779.1	4905.7	4990.7	5007.7
20°	6353.0	5591.5	4516.5	4158.1	4206.0	4391.4	4606.1	4823.9	4976.8	5075.6	5098.8
22.5°	6487.4	5519.0	4274.0	3989.8	4110.3	4335.8	4576.7	4797.6	4950.5	5030.8	5055.6
25°	6578.6	5392.3	4028.4	3847.7	4025.3	4267.8	4481.0	4658.6	4772.9	4813.1	4819.2
27.5°	6624.9	5227.0	3796.7	3724.1	3937.3	4156.6	4303.3	4391.4	4423.8	4420.7	4414.5
30°	6631.1	5009.2	3597.4	3623.7	3835.3	3992.9	4062.4	4045.4	4003.7	3932.6	3938.8
32.5°	6611.0	4763.6	3430.6	3527.9	3705.6	3793.6	3796.7	3714.8	3603.6	3490.9	3460.0
35°	6617.2	4522.7	3283.9	3419.8	3548.0	3586.6	3551.1	3430.6	3279.2	3134.0	3103.2
37.5°	6685.1	4312.6	3157.2	3294.7	3373.5	3382.7	3331.8	3205.1	3093.9	2951.8	2939.4
40°	6847.3	4162.8	3036.7	3154.1	3198.9	3203.6	3131.0	3041.4	3050.6	2975.0	2973.4
42.5°	7139.3	4097.9	2930.2	3007.4	3035.2	3044.5	2988.9	2931.7	3012.0	2962.6	2945.6
45°	7516.2	4113.3	2840.6	2863.7	2914.7	2958.0	2924.0	2854.5	2885.4	2670.7	2599.6
47.5°	7951.7	4212.2	2769.5	2740.2	2828.2	2910.1	2857.6	2752.5	2642.9	2429.7	2389.5
50°	8461.5	4365.1	2704.6	2618.1	2734.0	2845.2	2792.7	2642.9	2477.6	2374.1	2360.2
52.5°	8992.8	4552.0	2639.8	2483.8	2615.1	2795.8	2769.5	2618.1	2414.3	2312.3	2293.8
55°	9595.2	4740.5	2557.9	2327.8	2486.8	2772.6	2758.7	2528.6	2366.4	2309.2	2295.3
57.5°	10344.4	4955.2	2449.8	2165.6	2366.4	2689.2	2645.9	2474.5	2316.9	2273.7	2269.1
60°	11320.6	5271.8	2293.8	1992.6	2219.6	2561.0	2551.7	2395.7	2238.2	2207.3	2201.1
62.5°	12784.9	5795.4	2079.1	1819.6	2055.9	2343.2	2428.2	2289.1	2154.8	2153.2	2156.3
65°	15055.5	6583.2	1845.8	1668.2	1890.6	2159.4	2284.5	2179.5	2069.8	2100.7	2105.3
67.5°	17687.5	7236.6	1617.2	1519.9	1722.3	1984.8	2154.8	2069.8	1957.0	2037.4	2038.9
70°	18563.3	6652.7	1416.4	1373.2	1547.7	1816.5	2014.2	1949.3	1835.0	1915.3	1907.6
72°	17275.1	5370.7	1286.7	1262.0	1416.4	1677.5	1889.1	1836.6	1723.8	1777.9	1757.8
72.5°	16868.9	5120.4	1254.2	1234.2	1380.9	1641.9	1856.6	1808.8	1696.0	1742.3	1723.8
75°	15047.8	4447.0	1078.1	1082.8	1204.8	1468.9	1674.4	1658.9	1543.1	1547.7	1541.5
77.5°	10914.3	3260.7	908.2	939.1	1025.6	1291.3	1490.6	1481.3	1354.6	1331.5	1326.8
80°	5064.8	1663.6	739.9	753.8	843.4	1079.7	1271.2	1258.9	1156.9	1127.6	1110.6
82.5°	1734.6	790.8	556.1	565.3	653.4	869.6	1102.9	1095.1	1010.2	953.0	917.5
85°	619.4	393.9	389.2	380.0	466.5	684.3	960.8	919.1	793.9	676.5	673.5
87.5°	200.8	168.4	200.8	199.3	271.9	463.4	698.2	594.7	576.1	478.8	469.6
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)