

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: P317556

Luminaire Tested: **GAN-SA2B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8954 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

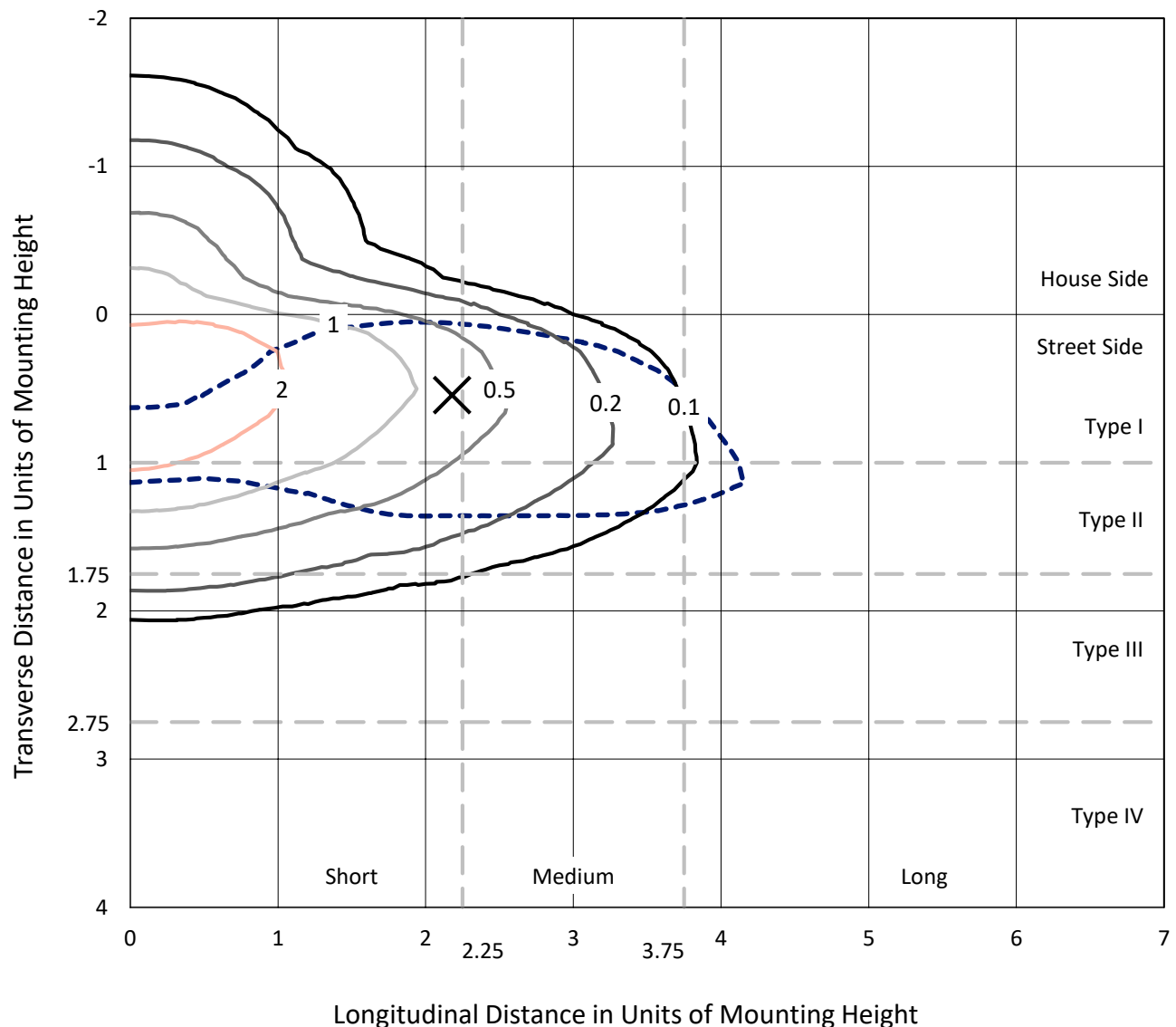
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317556
 CATALOG NUMBER: GAN-SA2B-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

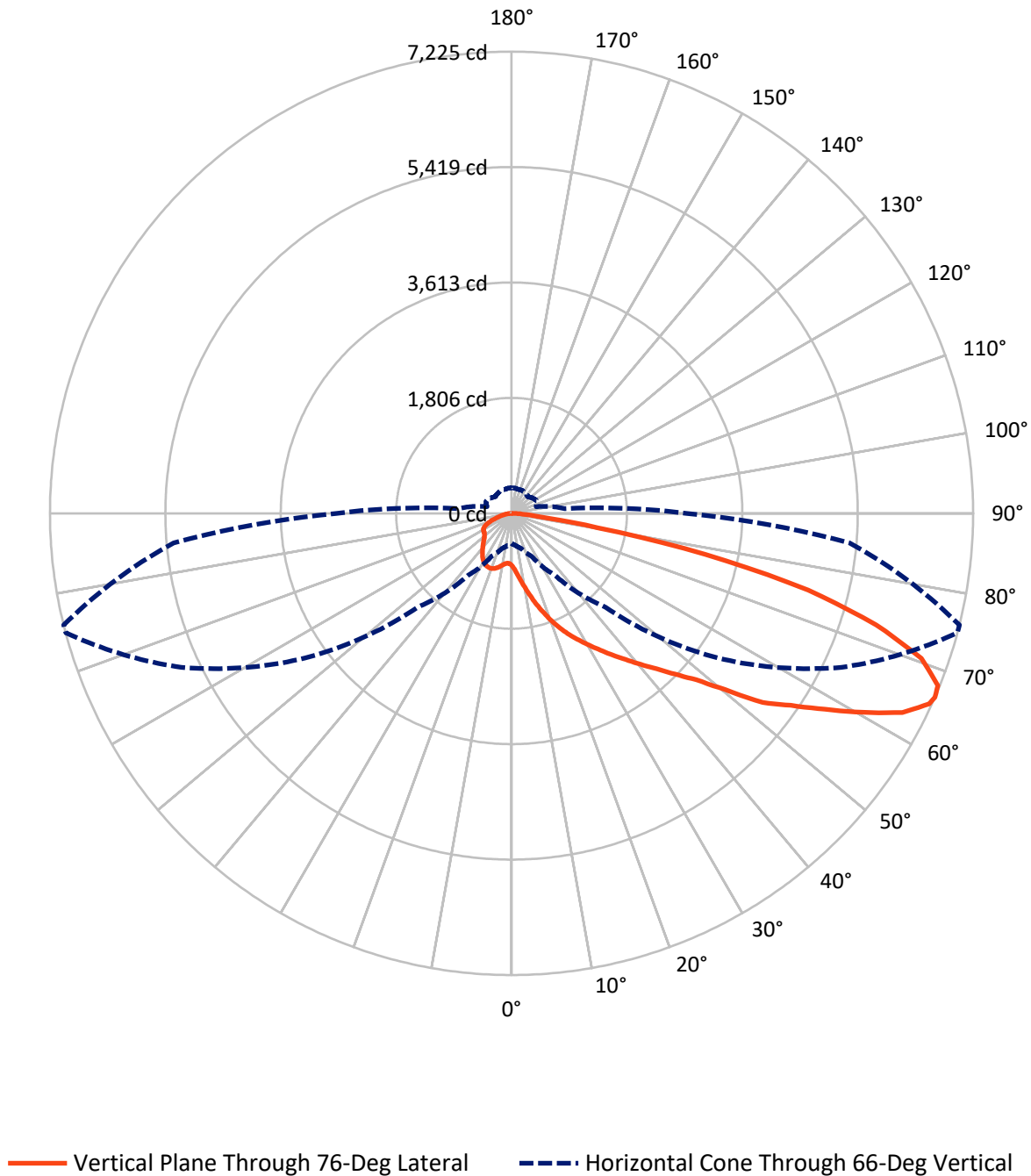
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P317556
CATALOG NUMBER: GAN-SA2B-827-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317556

CATALOG NUMBER: GAN-SA2B-827-U-T2R

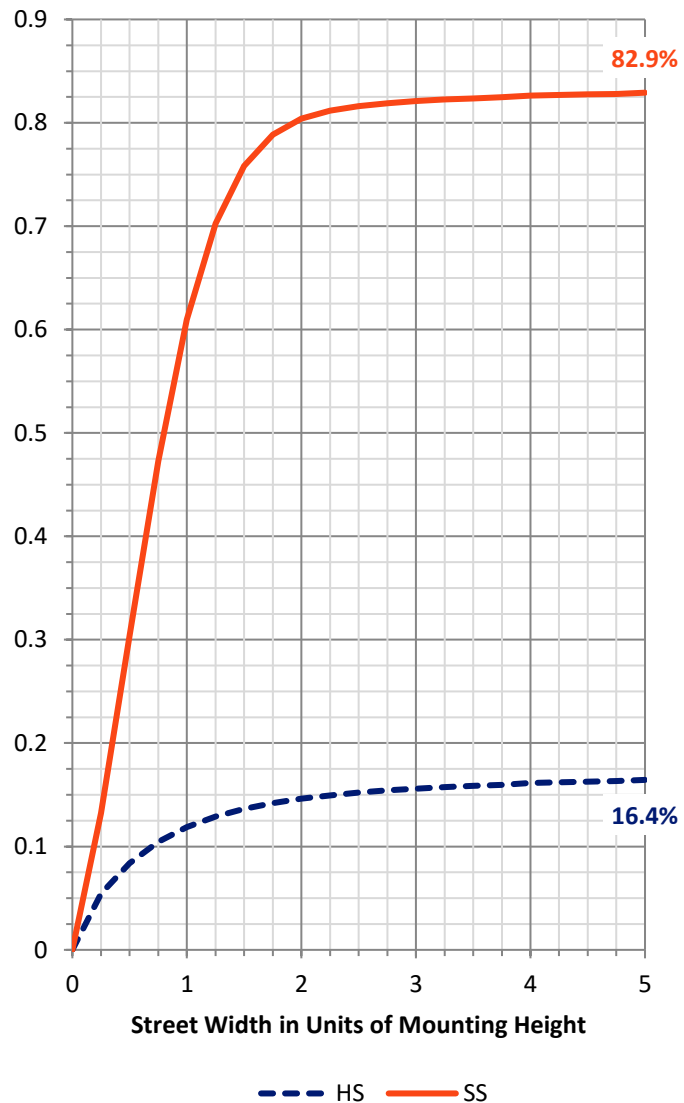
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.6	0.0	1506.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7447.4	0.0	7447.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	8954.0	0.0	8954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	1.1
10°-20°	390.5	4.4
20°-30°	758.8	8.5
30°-40°	1238.5	13.8
40°-50°	1692.1	18.9
50°-60°	1971.0	22.0
60°-70°	1767.0	19.7
70°-80°	893.0	10.0
80°-90°	144.2	1.6
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°	8954.0	100.0
0°-180°	8954.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317556

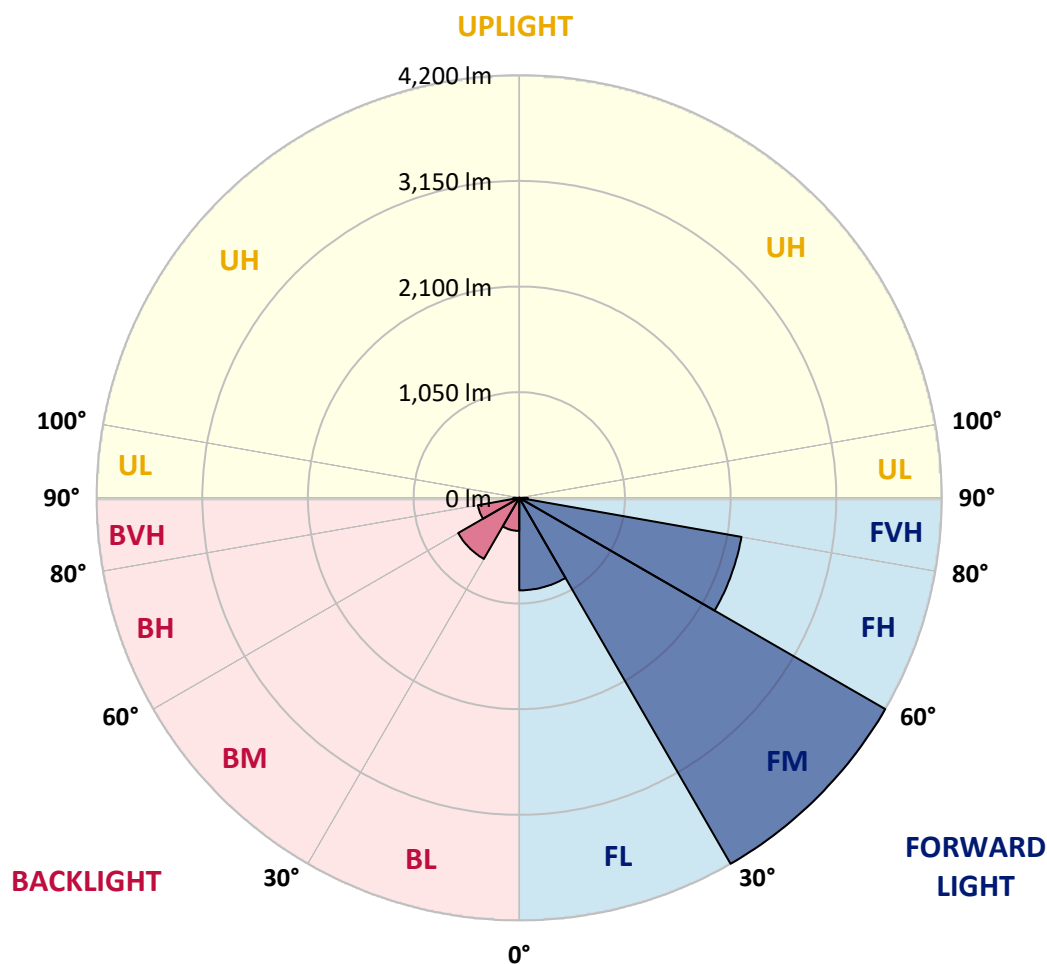
CATALOG NUMBER: GAN-SA2B-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	919.6	10.3			
FM	(30°-60°)	4200.0	46.9			
FH	(60°-80°)	2242.6	25.0			G2/5000
FVH	(80°-90°)	85.2	1.0			G1/100
BL	(0°-30°)	328.6	3.7	B1/500		
BM	(30°-60°)	701.6	7.8	B1/1000		
BH	(60°-80°)	417.4	4.7	B1/500		G1/500
BVH	(80°-90°)	59.0	0.7			G1/100
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 Short



REPORT NUMBER: P317556

CATALOG NUMBER: GAN-SA2B-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7
2.5°	1085.5	1069.1	1067.6	1043.6	1038.1	992.2	958.4	923.2	883.1	875.2	843.5
5°	1394.3	1392.8	1371.9	1332.6	1301.9	1223.5	1146.0	1063.9	973.9	959.4	888.2
7.5°	1672.2	1669.8	1653.6	1611.4	1567.0	1470.6	1360.0	1234.2	1088.2	1066.7	948.7
10°	1883.1	1882.2	1876.8	1845.8	1808.1	1715.7	1593.5	1421.7	1221.1	1191.6	1024.4
12.5°	2046.1	2047.9	2051.6	2040.6	2022.7	1943.9	1818.7	1620.5	1362.7	1333.6	1108.6
15°	2156.4	2161.9	2180.7	2196.2	2205.7	2157.3	2036.0	1823.9	1521.4	1486.5	1201.9
17.5°	2212.1	2218.1	2250.7	2297.5	2340.6	2335.8	2239.4	2017.8	1673.7	1640.0	1302.2
20°	2260.1	2264.6	2301.1	2357.4	2433.7	2467.4	2413.3	2204.5	1840.6	1800.5	1408.6
22.5°	2399.3	2405.1	2416.0	2447.9	2515.4	2577.4	2551.3	2381.1	1993.5	1956.1	1509.6
25°	2668.0	2675.0	2651.3	2624.2	2637.0	2680.2	2685.0	2542.2	2148.5	2106.3	1618.1
27.5°	2991.8	3001.8	2961.4	2891.7	2831.0	2814.2	2808.5	2674.1	2296.6	2247.6	1725.4
30°	3308.8	3326.1	3273.5	3183.3	3071.7	2993.3	2935.2	2803.3	2442.5	2395.7	1826.6
32.5°	3618.6	3611.6	3535.3	3447.1	3316.4	3218.2	3077.8	2941.9	2606.6	2552.8	1927.2
35°	3830.7	3833.2	3762.3	3657.8	3533.1	3457.8	3268.7	3091.5	2774.1	2724.6	2041.5
37.5°	4011.3	4000.1	3919.8	3822.2	3714.9	3682.7	3492.1	3256.2	2955.6	2901.5	2163.1
40°	4071.5	4058.4	4005.8	3935.6	3849.6	3846.8	3738.6	3442.9	3160.8	3107.3	2300.2
42.5°	4035.0	4018.3	3996.7	3977.6	3951.1	3963.3	3970.3	3661.7	3386.3	3326.4	2458.9
45°	3900.3	3875.1	3890.3	3932.0	3989.4	4058.1	4179.4	3904.0	3638.9	3588.8	2645.2
47.5°	3693.3	3670.5	3718.0	3807.0	3963.3	4137.1	4377.3	4171.5	3940.5	3890.6	2910.6
50°	3402.1	3408.8	3476.6	3638.6	3874.8	4173.6	4621.1	4525.6	4378.8	4332.3	3272.6
52.5°	2924.3	2925.5	3116.4	3382.4	3718.0	4154.8	4756.4	4978.3	4977.3	4921.1	3617.3
55°	2480.5	2507.5	2658.6	3012.1	3463.8	4079.4	4850.9	5198.3	5370.4	5304.4	3938.6
57.5°	2047.0	2062.8	2206.0	2561.0	3101.2	3878.5	4947.9	5462.5	5823.3	5781.7	4338.1
60°	1553.9	1578.3	1726.3	2054.3	2637.3	3521.9	4957.0	5738.2	6364.7	6322.8	4784.0
62.5°	1008.6	1050.5	1189.2	1496.5	2076.2	3009.1	4745.4	5918.5	6877.8	6862.9	5179.8
65°	579.7	611.3	707.7	944.8	1432.3	2365.3	4242.3	5849.2	7193.7	7185.1	5327.8
66°	473.6	493.4	567.2	738.4	1181.9	2077.1	3949.9	5702.9	7225.0	7225.3	5310.8
67.5°	378.8	387.6	420.7	528.6	872.1	1646.3	3427.4	5380.4	7186.1	7196.7	5201.1
70°	313.4	318.0	328.3	354.4	476.0	992.8	2432.7	4542.4	6795.4	6803.6	4772.8
72.5°	281.2	283.9	287.9	291.5	335.9	554.8	1485.8	3633.8	5958.0	5968.6	4120.1
75°	254.7	256.3	255.6	255.9	281.8	353.5	767.8	2713.0	4817.5	4796.2	3156.2
77.5°	223.7	225.2	222.2	222.8	249.3	271.8	382.1	1899.3	3251.0	3100.9	1778.3
80°	189.1	190.3	189.1	191.2	217.0	205.2	222.2	1068.5	1437.5	1359.7	632.3
82.5°	142.9	148.0	151.7	160.2	178.7	145.9	148.6	416.1	437.7	416.8	193.9
85°	62.6	76.3	114.3	122.5	134.4	87.5	97.6	169.6	178.1	172.7	70.5
87.5°	16.4	17.9	56.5	71.1	74.5	39.5	50.8	77.2	81.5	77.2	23.4
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: P317556

CATALOG NUMBER: GAN-SA2B-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7	817.7
2.5°	826.8	811.9	785.2	761.5	743.5	731.4	719.2	713.1	709.5	705.8	706.4
5°	853.3	823.2	777.3	744.7	726.5	715.0	708.9	706.4	704.9	701.3	701.3
7.5°	893.1	850.5	787.3	753.9	739.6	730.8	727.1	725.9	724.1	719.8	720.4
10°	943.2	883.7	808.3	775.8	762.7	753.0	747.8	746.0	742.6	737.8	738.4
12.5°	1002.2	924.7	835.9	801.9	786.1	773.0	764.5	759.3	753.6	747.2	747.5
15°	1066.7	969.4	865.7	825.3	803.7	785.5	771.8	763.0	753.9	746.0	745.7
17.5°	1132.0	1012.6	888.5	838.1	808.9	784.9	766.3	752.7	741.4	731.7	730.8
20°	1202.5	1051.5	901.3	836.9	799.2	770.6	746.0	728.9	716.5	706.7	705.2
22.5°	1274.3	1087.9	903.4	824.4	777.6	742.6	716.8	697.9	685.2	675.1	671.5
25°	1339.9	1116.2	894.6	800.4	747.5	709.8	684.6	665.4	655.1	643.2	639.6
27.5°	1399.8	1136.0	877.0	769.7	713.7	676.7	652.9	636.5	625.3	616.2	613.1
30°	1453.6	1146.6	848.1	733.2	679.1	645.3	625.3	614.0	604.3	592.8	590.6
32.5°	1504.7	1146.6	811.0	693.4	644.7	617.7	605.8	598.8	587.9	576.6	573.6
35°	1555.8	1139.6	767.2	651.7	613.1	597.9	597.3	589.1	572.4	557.2	553.2
37.5°	1609.6	1125.3	718.0	612.8	587.3	589.1	594.3	576.0	552.3	530.7	525.0
40°	1670.4	1105.6	666.9	579.1	565.7	585.2	586.1	557.2	511.0	491.2	486.1
42.5°	1741.8	1085.8	619.5	549.3	548.7	573.3	570.6	516.5	488.8	478.8	476.0
45°	1835.7	1074.6	574.5	521.0	535.3	554.2	544.1	494.0	482.4	476.6	474.2
47.5°	1983.8	1080.3	533.2	498.5	521.9	535.0	494.9	484.8	476.6	469.6	467.2
50°	2169.2	1077.0	499.7	483.0	506.7	514.9	472.7	473.0	468.7	460.8	457.2
52.5°	2308.7	1050.9	478.2	474.2	493.4	479.4	458.7	461.4	459.3	447.8	443.8
55°	2443.4	1028.4	467.2	470.9	483.6	435.0	442.3	449.0	446.8	435.6	433.8
57.5°	2610.9	1024.1	460.5	471.8	475.4	412.8	426.5	435.3	433.8	428.9	428.0
60°	2816.1	1025.3	454.4	473.3	466.3	396.4	411.6	422.8	423.7	422.8	422.2
62.5°	2928.8	992.2	439.2	469.0	450.2	382.1	396.1	412.5	412.8	414.6	414.3
65°	2833.1	893.1	411.0	454.1	423.1	370.2	382.7	400.6	396.1	404.3	404.3
66°	2740.1	835.9	397.0	444.4	411.6	365.7	378.5	394.6	388.8	400.0	400.0
67.5°	2550.1	739.6	371.8	423.7	395.2	359.3	373.6	384.5	376.6	393.3	392.1
70°	2202.9	572.1	321.0	376.9	368.1	349.9	366.9	364.5	352.9	378.5	373.6
72.5°	1857.3	434.7	257.8	315.5	327.1	338.0	357.5	338.9	324.3	342.3	331.6
75°	1441.2	326.8	203.7	245.3	276.3	319.5	346.2	309.5	288.5	286.7	280.9
77.5°	779.1	224.3	161.4	187.3	219.5	296.4	338.6	277.8	246.2	238.9	234.4
80°	308.5	145.9	117.3	142.0	153.5	262.9	320.4	241.1	203.1	195.8	188.8
82.5°	127.4	86.3	75.7	95.1	100.0	224.9	287.6	197.6	156.9	217.0	230.4
85°	54.7	47.4	45.0	49.2	56.5	157.8	228.9	150.8	169.3	151.1	120.1
87.5°	16.4	20.1	19.2	18.8	20.7	37.7	121.9	83.9	124.3	47.1	35.3
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)