

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: P318548

Luminaire Tested: **GAN-SA4A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14942 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

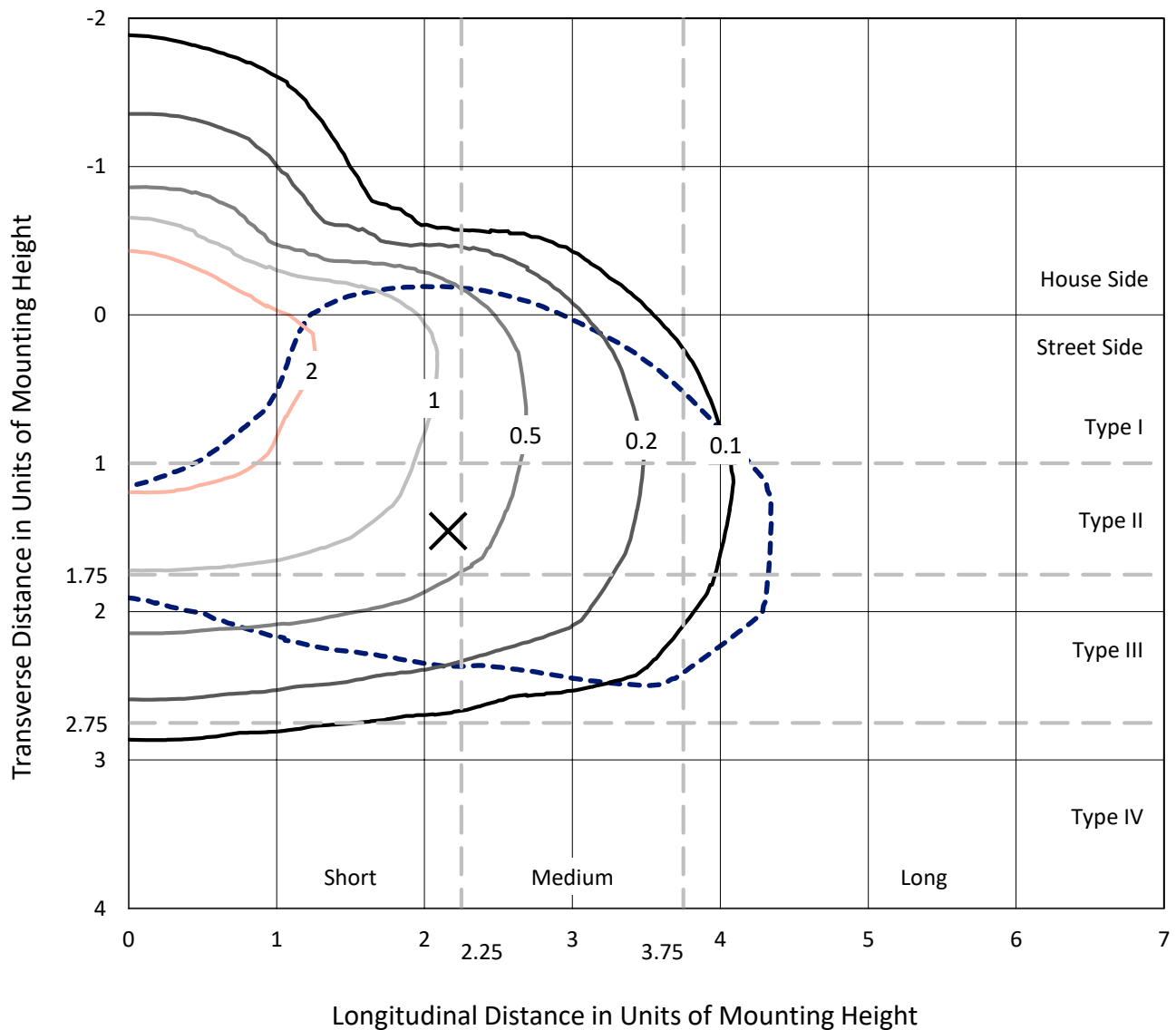
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318548
 CATALOG NUMBER: GAN-SA4A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

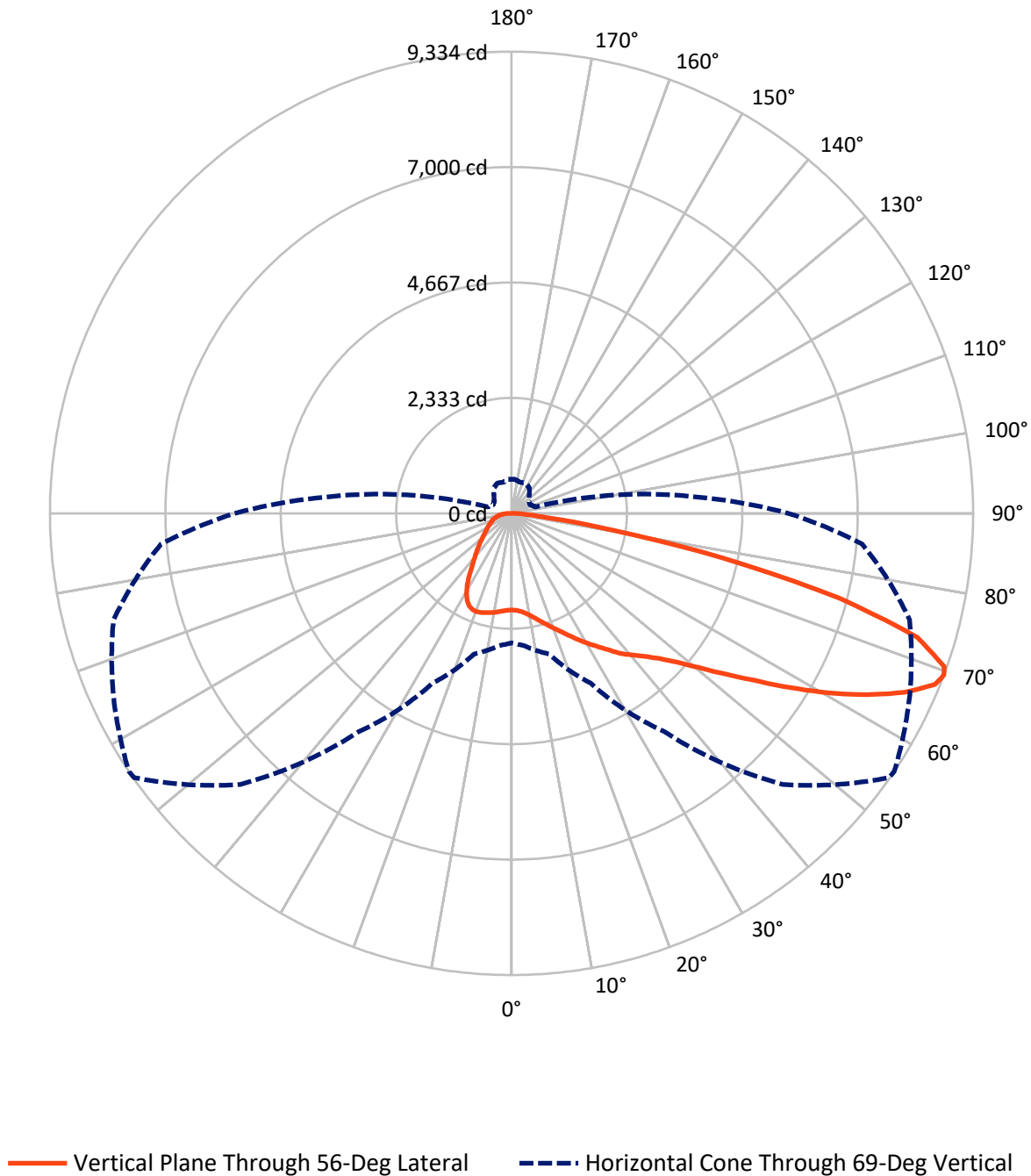
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

REPORT NUMBER: P318548
CATALOG NUMBER: GAN-SA4A-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P318548

CATALOG NUMBER: GAN-SA4A-830-U-T3

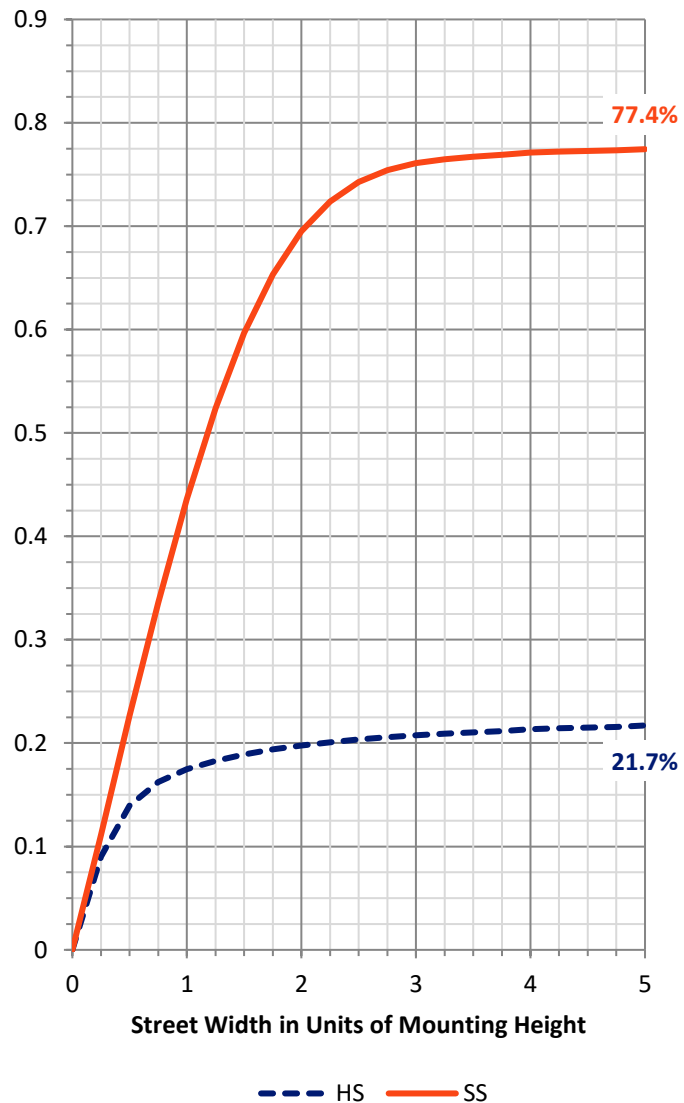
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3327.6	0.0	3327.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11614.4	0.0	11614.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	14942.0	0.0	14942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	1.3
10°-20°	616.9	4.1
20°-30°	1076.9	7.2
30°-40°	1547.0	10.4
40°-50°	2141.0	14.3
50°-60°	3136.8	21.0
60°-70°	3824.3	25.6
70°-80°	2114.3	14.2
80°-90°	292.8	2.0
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°	14942.0	100.0
0°-180°	14942.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318548

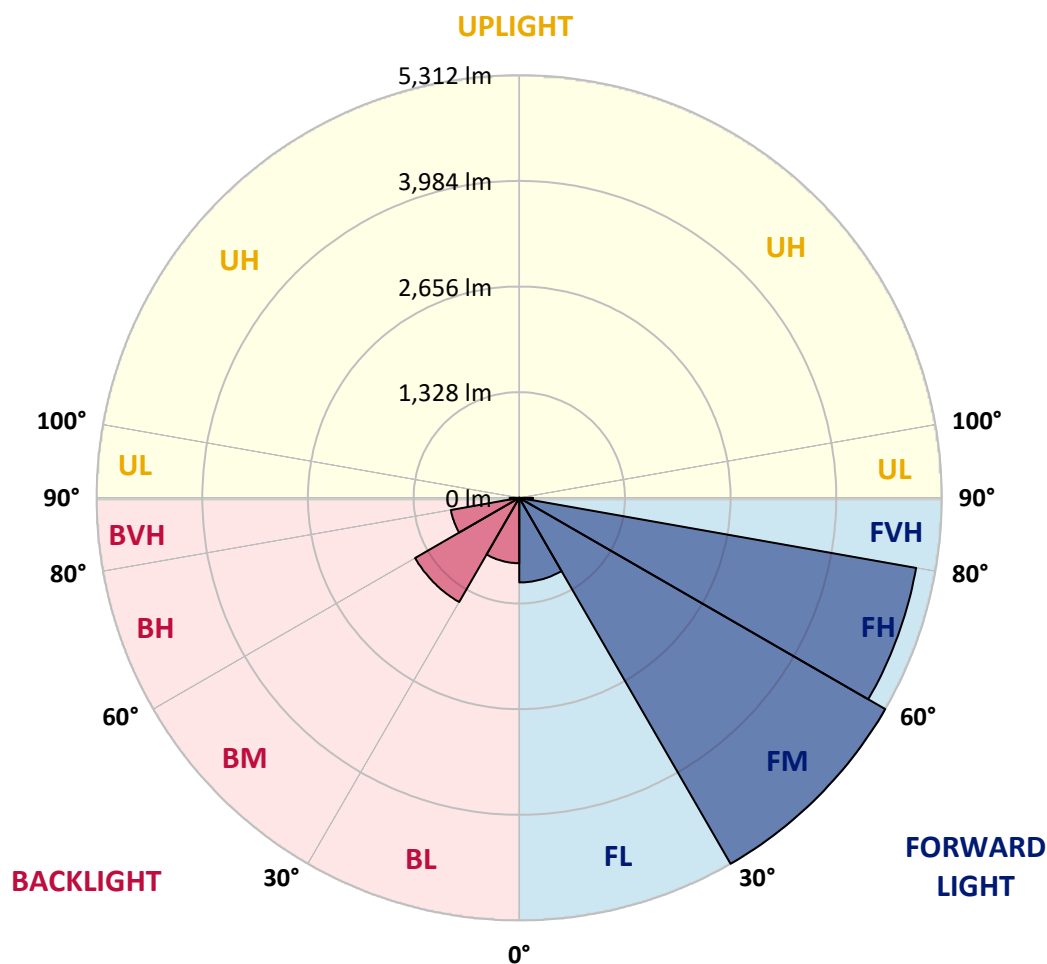
CATALOG NUMBER: GAN-SA4A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.4	7.1			
FM	(30°-60°)	5312.4	35.6			
FH	(60°-80°)	5066.1	33.9			G3/7500
FVH	(80°-90°)	172.5	1.2			G2/225
BL	(0°-30°)	822.3	5.5	B2/1000		
BM	(30°-60°)	1512.3	10.1	B2/2500		
BH	(60°-80°)	872.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	120.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P318548

CATALOG NUMBER: GAN-SA4A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4
2.5°	1965.8	1967.9	1966.3	1970.4	1965.8	1968.9	1966.3	1966.3	1964.8	1960.1	1955.0
5°	1996.7	2000.8	1998.2	2002.3	1996.7	1997.7	1993.1	1993.1	1988.4	1978.7	1968.4
7.5°	2045.1	2049.7	2047.6	2051.8	2044.0	2044.0	2037.9	2037.3	2028.1	2012.1	2000.3
10°	2102.7	2108.9	2106.8	2113.0	2106.8	2108.9	2102.7	2102.7	2090.4	2067.7	2052.8
12.5°	2186.6	2194.3	2188.7	2188.2	2185.6	2189.7	2184.6	2183.5	2172.2	2141.3	2120.7
15°	2298.8	2307.1	2295.2	2294.2	2279.8	2278.2	2278.2	2276.7	2269.5	2232.4	2198.5
17.5°	2428.0	2430.6	2420.3	2403.8	2385.3	2373.5	2371.9	2376.0	2376.0	2332.8	2278.8
20°	2554.7	2559.3	2551.1	2532.5	2508.8	2491.3	2479.0	2487.2	2486.7	2435.2	2358.5
22.5°	2692.6	2703.4	2691.1	2667.4	2639.6	2620.0	2598.4	2605.6	2606.1	2542.8	2436.8
25°	2871.2	2861.4	2853.7	2820.3	2780.6	2760.6	2740.5	2747.7	2745.6	2658.6	2517.6
27.5°	3029.2	3031.3	3021.0	2985.5	2939.7	2895.4	2894.4	2899.0	2891.3	2779.1	2593.8
30°	3213.0	3214.0	3199.6	3167.7	3117.8	3060.6	3047.3	3055.0	3038.5	2893.4	2674.1
32.5°	3395.7	3400.9	3384.9	3346.3	3306.2	3236.7	3209.9	3215.1	3173.9	3010.2	2757.0
35°	3555.8	3563.0	3557.9	3532.2	3488.4	3428.7	3396.8	3393.7	3342.7	3153.3	2866.6
37.5°	3719.0	3725.7	3720.0	3698.4	3680.9	3617.6	3600.6	3600.6	3512.1	3299.5	3006.1
40°	3886.8	3897.1	3890.4	3860.6	3845.6	3816.8	3776.1	3766.4	3670.6	3475.0	3233.6
42.5°	4042.8	4056.2	4082.9	4065.4	4035.1	4039.2	3957.3	3952.2	3882.2	3734.4	3519.3
45°	4264.1	4283.7	4329.0	4315.6	4309.4	4286.8	4189.5	4184.8	4158.1	4083.4	3873.9
47.5°	4505.5	4532.3	4614.1	4616.7	4683.1	4640.4	4508.1	4492.1	4498.3	4501.4	4306.8
50°	4727.9	4757.2	4891.6	4954.9	5111.4	5120.6	4909.1	4894.7	4918.9	4989.9	4811.3
52.5°	4905.5	4942.5	5110.3	5305.9	5574.1	5650.3	5402.7	5391.9	5409.9	5532.4	5381.6
55°	5035.7	5075.9	5258.6	5614.8	6043.1	6177.4	5971.0	5960.7	5972.0	6128.0	6001.9
57.5°	5066.1	5075.9	5341.0	5822.7	6438.9	6761.6	6666.4	6645.8	6590.2	6726.1	6686.5
60°	4923.5	4962.6	5273.0	5895.8	6745.2	7337.6	7393.2	7367.5	7211.5	7322.7	7290.8
62.5°	4634.2	4704.2	5019.2	5784.7	6865.1	7808.1	8106.1	8075.3	7806.6	7878.6	7725.2
65°	4161.7	4191.5	4522.5	5401.2	6712.7	8109.2	8741.8	8726.4	8388.2	8275.5	7805.5
67.5°	3316.5	3372.6	3653.6	4599.7	6089.4	8073.7	9233.4	9231.9	8768.1	8422.7	7520.9
69°	2620.0	2678.2	2945.9	3789.0	5388.3	7748.9	9315.8	9333.8	8875.2	8333.1	7114.2
70°	2088.8	2156.2	2340.0	3191.4	4766.0	7320.6	9247.3	9279.7	8854.6	8185.4	6739.0
72.5°	889.0	943.5	1074.3	1645.1	2904.7	5466.5	8455.1	8577.6	8377.4	7491.5	5569.5
75°	388.1	405.1	464.3	670.7	1289.4	2975.2	6623.7	6850.2	7163.1	6332.3	4148.8
77.5°	284.1	291.3	323.8	393.8	578.6	1123.7	4259.5	4391.3	5165.9	4608.0	2544.9
80°	219.8	224.9	250.2	289.3	377.8	454.5	1942.6	2055.9	2904.7	2366.8	1059.9
82.5°	175.0	178.6	196.1	213.1	261.0	275.4	645.0	715.5	1072.2	653.7	280.5
85°	162.7	166.8	173.0	155.5	167.3	161.6	279.0	291.9	323.8	256.9	117.4
87.5°	73.6	87.0	171.4	121.0	89.1	71.0	114.3	119.4	134.3	134.9	52.0
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: P318548

CATALOG NUMBER: GAN-SA4A-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4
2.5°	1958.1	1956.5	1959.1	1952.9	1960.6	1960.1	1957.6	1958.6	1963.7	1963.2	1963.7
5°	1969.9	1968.9	1972.0	1967.3	1976.6	1979.7	1980.2	1984.8	1990.5	1992.0	1992.0
7.5°	1999.8	1999.8	2001.3	1995.1	2001.3	2000.8	1998.2	2002.9	2008.5	2009.0	2008.5
10°	2051.2	2051.8	2049.2	2033.2	2028.1	2014.2	2001.3	2001.8	2009.0	2014.7	2016.2
12.5°	2116.1	2114.0	2102.7	2073.4	2051.8	2023.4	2010.1	2009.5	2016.8	2021.4	2022.9
15°	2190.2	2184.6	2155.2	2107.3	2069.3	2041.5	2019.8	2014.7	2010.6	2005.4	2005.9
17.5°	2260.2	2247.4	2198.5	2132.1	2091.9	2054.8	2013.2	1979.7	1956.5	1943.1	1939.0
20°	2331.3	2306.0	2235.5	2155.2	2104.3	2036.8	1956.5	1888.6	1846.4	1826.8	1823.2
22.5°	2396.1	2355.5	2270.0	2179.4	2094.5	1976.1	1850.0	1751.1	1692.5	1666.2	1668.3
25°	2459.4	2402.8	2306.0	2196.4	2045.1	1869.0	1701.7	1580.3	1512.3	1483.0	1481.9
27.5°	2515.0	2450.7	2345.2	2182.5	1952.9	1716.7	1526.2	1407.8	1351.2	1326.0	1321.9
30°	2578.9	2510.9	2397.1	2129.5	1818.1	1540.6	1354.8	1271.4	1231.3	1206.0	1201.4
32.5°	2656.6	2592.7	2439.9	2033.2	1645.6	1356.9	1221.0	1162.8	1126.3	1097.9	1092.8
35°	2769.8	2700.8	2450.7	1895.3	1456.2	1211.7	1122.6	1062.9	1013.5	977.0	973.4
37.5°	2911.9	2836.2	2426.0	1716.7	1272.4	1117.5	1040.8	967.2	902.9	851.4	843.1
40°	3116.8	3002.5	2357.5	1510.8	1137.1	1044.9	961.0	877.1	797.3	737.1	725.3
42.5°	3362.8	3197.6	2252.5	1305.9	1037.7	971.3	881.8	777.8	701.6	658.9	652.7
45°	3675.8	3400.4	2106.8	1126.8	939.9	897.7	796.3	700.6	653.2	621.8	616.7
47.5°	4033.0	3627.9	1954.0	981.1	857.0	828.7	727.8	666.1	628.5	603.8	599.2
50°	4472.1	3884.7	1791.8	861.7	773.7	745.9	695.4	647.0	617.2	598.1	593.5
52.5°	4967.2	4174.5	1675.0	767.5	704.7	684.6	678.4	636.7	612.5	598.1	593.5
55°	5500.5	4469.5	1548.9	688.2	645.0	650.6	667.1	637.8	621.3	603.8	597.1
57.5°	6034.3	4774.2	1408.3	621.3	597.6	625.4	659.4	639.8	625.9	608.9	602.8
60°	6456.4	4967.2	1190.6	565.2	560.0	597.6	640.9	624.4	606.4	606.9	605.8
62.5°	6653.5	4957.0	950.2	515.3	522.5	560.0	611.0	600.2	585.3	605.3	606.9
65°	6542.9	4709.9	739.7	470.0	482.3	520.9	580.1	588.3	593.5	632.1	637.2
67.5°	6078.6	4229.1	572.9	430.3	445.8	494.2	583.2	640.9	647.5	688.2	687.7
69°	5598.3	3778.2	497.8	409.7	427.7	500.8	623.4	674.3	649.1	692.3	686.1
70°	5195.8	3421.5	457.6	395.8	419.5	512.7	650.1	673.8	641.4	678.4	668.1
72.5°	4001.6	2461.5	388.1	370.1	391.7	490.5	657.8	658.9	623.4	630.6	613.1
75°	2744.6	1555.5	338.7	335.1	349.5	442.2	633.1	629.5	576.5	566.2	551.8
77.5°	1513.3	790.1	287.7	301.6	311.4	391.7	575.5	570.3	526.6	505.0	499.8
80°	583.7	345.9	243.0	268.2	274.4	339.2	504.4	499.8	463.3	435.5	427.7
82.5°	220.3	181.2	200.7	232.1	230.1	280.0	427.2	424.7	389.1	348.5	336.1
85°	101.9	108.6	159.1	191.5	176.6	207.4	341.8	346.4	303.2	254.8	254.8
87.5°	43.2	60.7	112.7	144.6	118.9	140.0	250.7	239.4	219.8	152.4	143.1
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)