

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: P323998

Luminaire Tested: **GAN-SA4B-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14867 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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

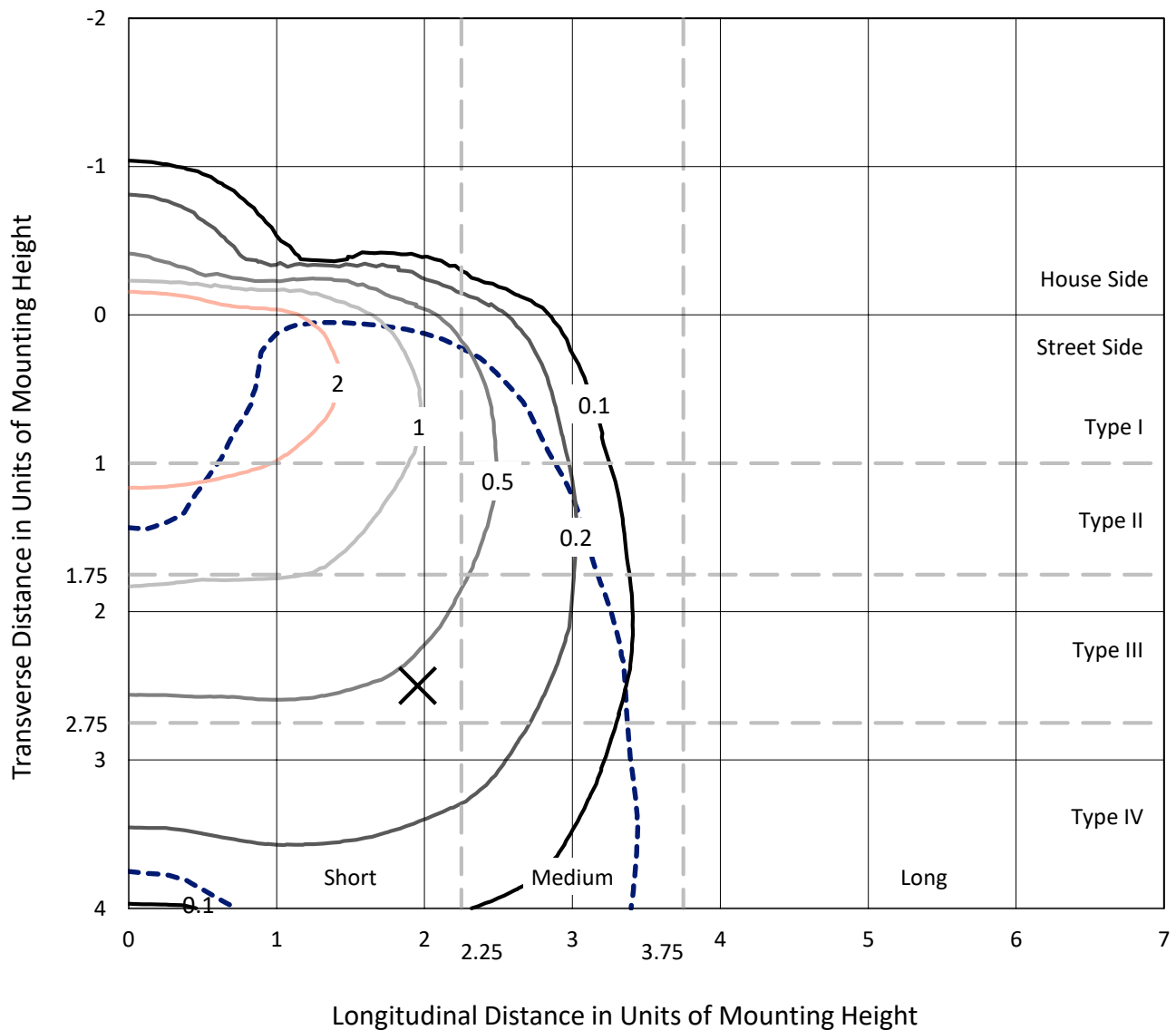


REPORT NUMBER: P323998

CATALOG NUMBER: GAN-SA4B-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

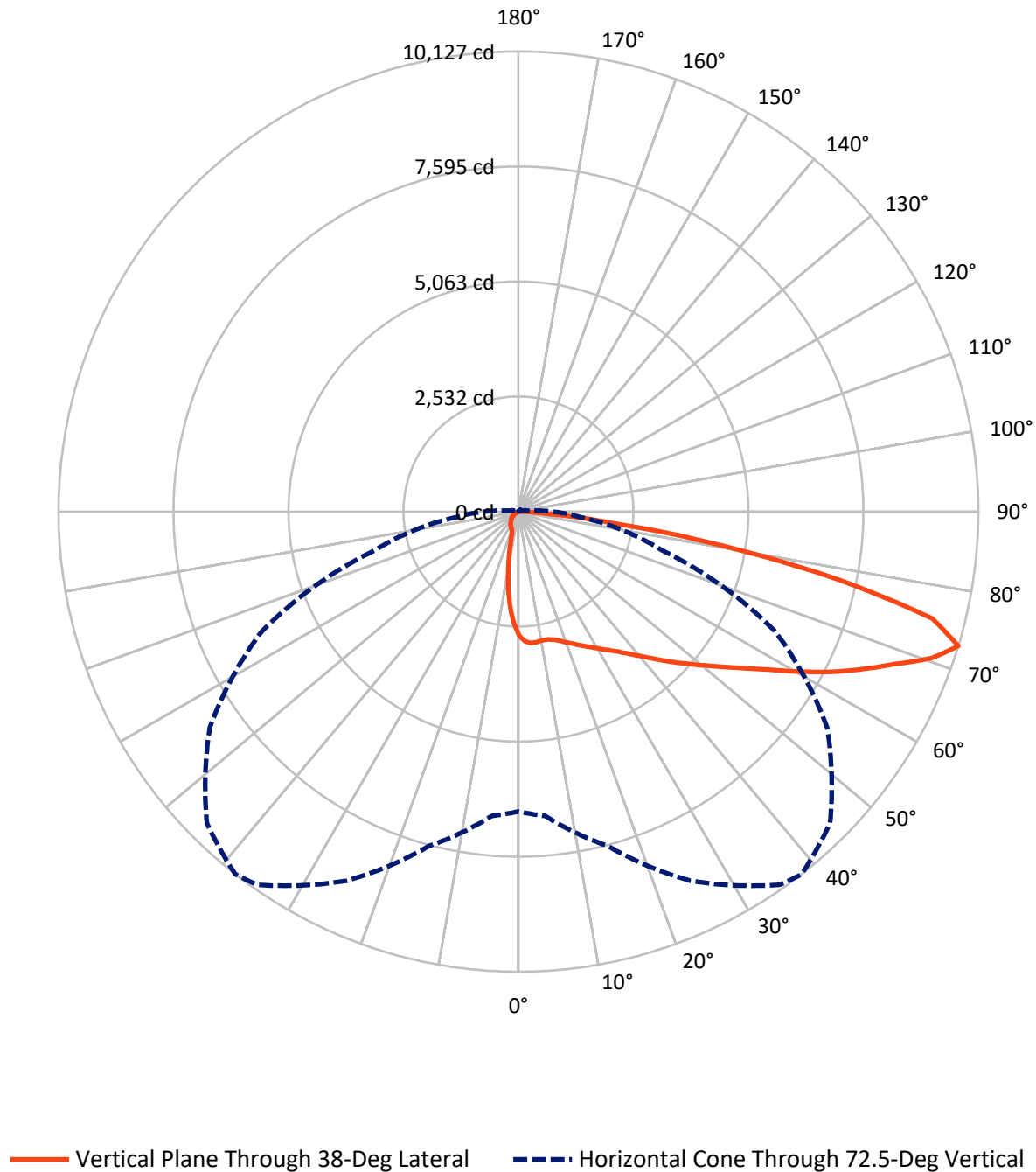
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

REPORT NUMBER: P323998
CATALOG NUMBER: GAN-SA4B-830-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323998

CATALOG NUMBER: GAN-SA4B-830-U-SL4-HSS

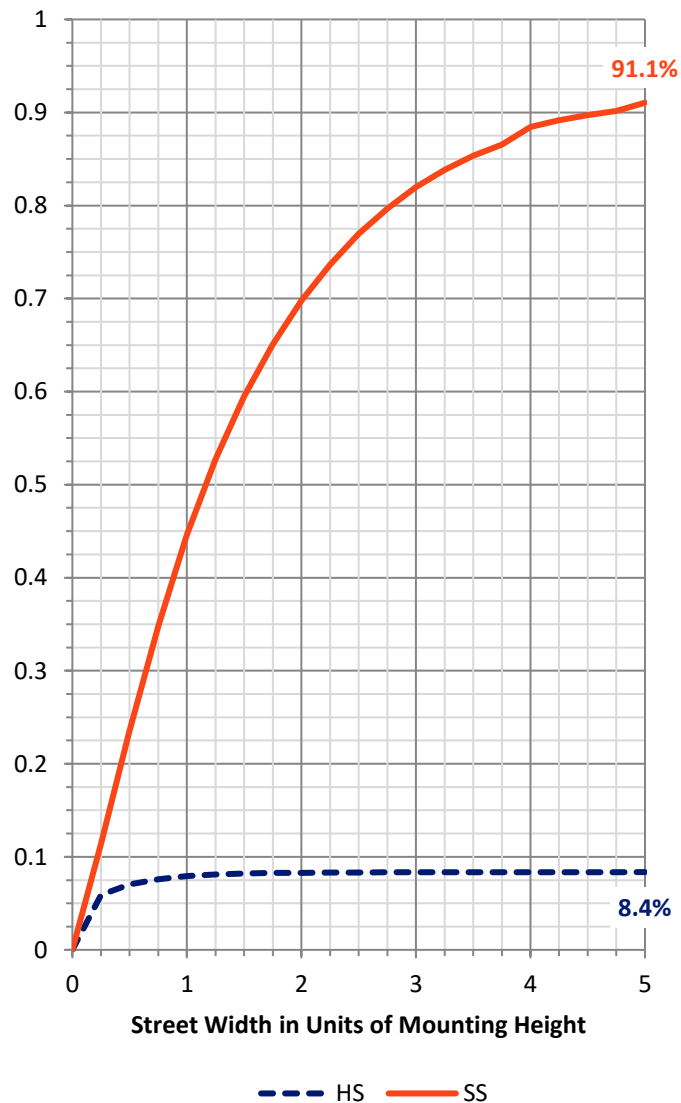
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1251.1	0.0	1251.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13615.9	0.0	13615.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	14867.0	0.0	14867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	1.6
10°-20°	569.7	3.8
20°-30°	906.1	6.1
30°-40°	1362.2	9.2
40°-50°	2078.2	14.0
50°-60°	2937.2	19.8
60°-70°	3684.2	24.8
70°-80°	2754.8	18.5
80°-90°	341.6	2.3
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°	14867.0	100.0
0°-180°	14867.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323998

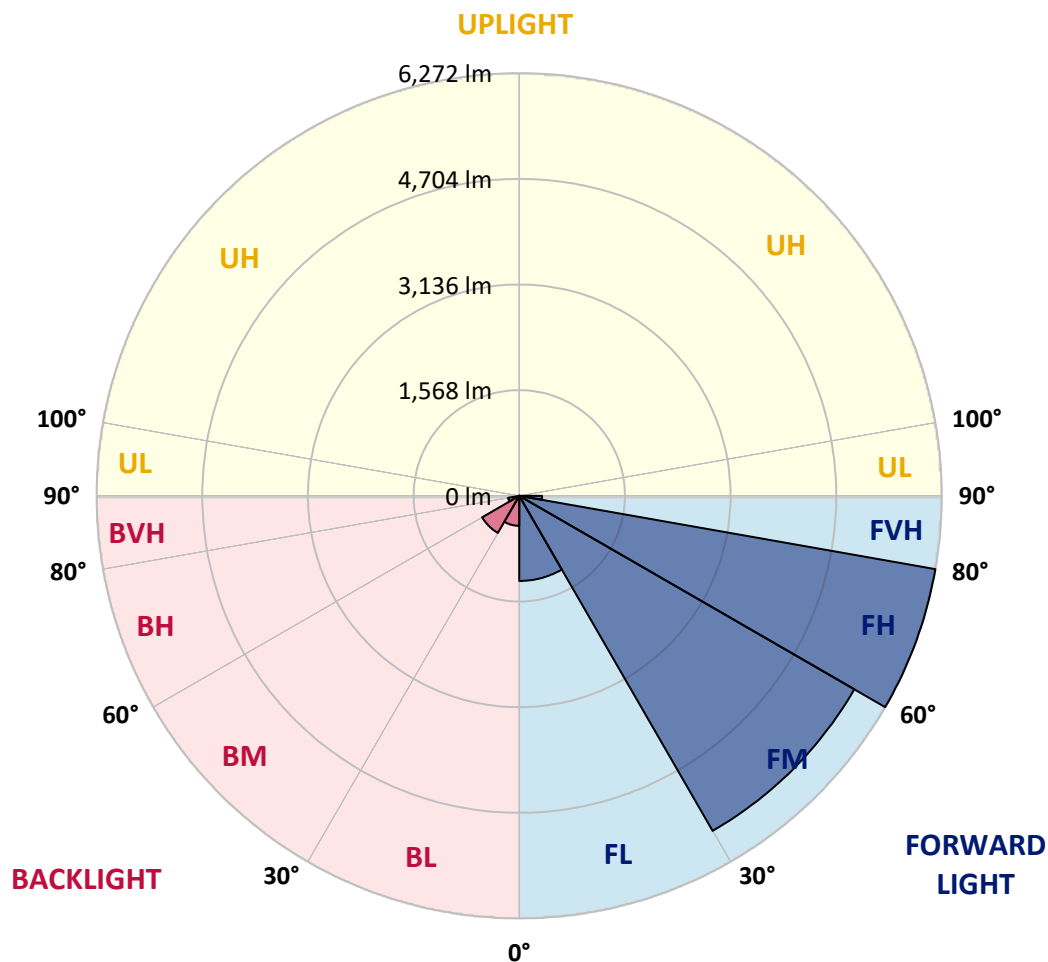
CATALOG NUMBER: GAN-SA4B-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1263.3	8.5			
FM	(30°-60°)	5742.3	38.6			
FH	(60°-80°)	6271.9	42.2			G3/7500
FVH	(80°-90°)	338.4	2.3			G3/500
BL	(0°-30°)	445.5	3.0	B1/500		
BM	(30°-60°)	635.3	4.3	B1/1000		
BH	(60°-80°)	167.1	1.1	B1/500		G1/500
BVH	(80°-90°)	3.2	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 IV Short



REPORT NUMBER: P323998

CATALOG NUMBER: GAN-SA4B-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0
2.5°	2901.9	2902.6	2895.8	2884.6	2870.4	2863.0	2850.7	2830.9	2809.9	2772.3	2731.5
5°	2961.2	2961.2	2952.6	2937.7	2914.9	2908.1	2884.6	2853.2	2809.9	2748.8	2680.3
7.5°	2955.0	2956.3	2944.5	2929.1	2906.3	2900.1	2871.7	2836.5	2782.8	2708.7	2621.0
10°	2922.9	2926.0	2916.8	2909.3	2888.4	2881.6	2855.0	2819.8	2766.1	2687.1	2586.4
12.5°	2890.2	2893.3	2896.4	2903.2	2890.2	2887.7	2866.7	2837.1	2785.9	2703.7	2590.1
15°	2869.2	2875.4	2897.6	2924.2	2927.2	2924.8	2911.2	2883.4	2831.5	2746.3	2616.7
17.5°	2869.2	2879.1	2925.4	2976.0	2993.9	2995.8	2984.1	2945.2	2883.4	2792.0	2641.4
20°	2893.3	2906.9	2979.1	3050.7	3080.4	3080.4	3057.5	3003.2	2931.0	2833.4	2658.0
22.5°	2955.0	2972.9	3063.7	3146.4	3177.9	3171.1	3140.3	3061.2	2980.3	2880.3	2679.0
25°	3076.7	3090.3	3184.7	3268.1	3287.2	3271.8	3232.9	3131.6	3043.3	2943.9	2717.3
27.5°	3233.5	3235.3	3332.9	3403.3	3391.6	3381.1	3332.3	3219.9	3134.1	3034.7	2783.4
30°	3405.8	3405.8	3491.6	3545.3	3509.5	3500.8	3452.1	3326.7	3250.2	3158.2	2877.2
32.5°	3572.5	3579.9	3649.6	3683.6	3643.5	3634.8	3587.3	3461.9	3404.5	3346.5	3023.6
35°	3733.6	3739.2	3805.2	3823.8	3785.5	3788.0	3754.0	3647.8	3626.2	3618.8	3244.0
37.5°	3889.8	3891.1	3958.4	3970.1	3951.0	3971.9	3975.0	3881.2	3921.3	3981.2	3554.6
40°	4032.5	4033.7	4100.4	4130.6	4163.3	4190.5	4214.6	4164.6	4297.3	4436.3	3924.4
42.5°	4146.7	4159.6	4244.2	4301.7	4388.1	4440.0	4505.4	4502.9	4745.0	4953.7	4371.4
45°	4247.3	4269.5	4387.5	4488.1	4636.3	4719.0	4821.5	4901.8	5248.8	5529.7	4824.0
47.5°	4380.1	4401.1	4535.7	4700.5	4898.1	5006.8	5176.6	5350.1	5802.6	6095.3	5266.1
50°	4567.2	4557.9	4690.6	4927.1	5180.9	5323.5	5565.5	5825.5	6352.1	6588.0	5526.0
52.5°	4766.6	4762.9	4861.0	5173.5	5514.3	5681.0	6000.8	6317.0	6877.6	6927.6	5645.2
55°	5013.6	4987.0	5069.7	5454.4	5910.1	6089.1	6465.8	6803.5	7296.2	7119.0	5705.1
57.5°	5272.3	5228.4	5307.5	5767.4	6356.5	6568.2	6980.7	7277.7	7574.7	7249.9	5704.5
60°	5539.6	5487.7	5581.6	6158.9	6910.9	7156.0	7538.9	7598.1	7834.6	7316.0	5662.5
62.5°	5763.1	5732.2	5871.8	6577.5	7530.2	7771.0	7960.6	7889.6	8053.8	7367.2	5564.3
65°	5999.6	6001.4	6226.8	7065.9	8188.4	8350.8	8366.8	8267.4	8237.2	7356.7	5232.1
67.5°	6319.4	6349.1	6725.1	7729.0	8828.7	8954.0	8952.8	8676.8	8371.2	6939.3	4495.5
70°	6657.8	6727.5	7299.3	8487.8	9527.6	9654.8	9589.3	8937.3	7882.1	5611.2	3181.6
72.5°	6601.0	6722.0	7618.5	8966.4	10029.6	10126.5	9701.1	8297.1	6229.9	3261.3	1354.6
75°	5092.6	5232.7	6985.6	8492.2	9502.9	9415.8	8335.3	6456.5	3404.5	910.1	305.0
77.5°	2690.2	2764.9	4614.7	6469.5	7409.8	7227.7	5871.8	3581.7	1037.9	225.4	137.1
80°	1409.0	1426.3	2011.0	3670.6	4573.3	4574.6	3479.9	1573.2	427.9	115.5	92.0
82.5°	754.5	769.3	1062.6	1696.1	2396.3	2172.1	1332.4	865.6	248.8	65.4	88.3
85°	181.5	184.6	602.6	774.9	942.2	673.0	395.8	726.7	67.3	38.3	71.6
87.5°	69.8	71.0	223.5	335.3	240.2	155.6	185.2	271.1	8.6	14.8	11.1
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: P323998

CATALOG NUMBER: GAN-SA4B-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0	2734.0
2.5°	2706.8	2690.8	2651.3	2601.2	2556.8	2524.7	2476.5	2445.0	2424.0	2423.4	2415.4
5°	2638.3	2605.6	2520.4	2419.1	2327.1	2244.4	2146.8	2069.6	2012.2	2003.0	1983.2
7.5°	2564.8	2511.1	2380.2	2222.1	2067.8	1911.0	1728.8	1615.8	1518.9	1472.6	1467.6
10°	2519.7	2444.4	2258.6	2030.1	1788.1	1533.1	1294.8	1129.9	1010.7	976.8	951.5
12.5°	2510.5	2411.1	2164.7	1849.8	1504.1	1166.9	903.3	728.0	632.9	602.6	594.6
15°	2519.7	2395.6	2085.7	1671.4	1216.3	828.0	606.3	504.4	468.6	460.0	459.4
17.5°	2525.3	2377.1	1996.2	1473.2	937.3	591.5	464.3	434.7	429.1	428.5	429.7
20°	2524.7	2348.7	1889.3	1252.2	697.1	464.9	419.9	413.7	412.4	413.1	412.4
22.5°	2520.4	2315.4	1772.0	1024.3	526.7	415.5	400.7	397.0	396.4	396.4	396.4
25°	2528.4	2288.8	1643.0	806.4	434.1	392.7	383.4	380.3	379.7	379.7	378.5
27.5°	2557.4	2274.0	1501.6	620.5	392.1	372.3	364.9	364.3	362.4	361.8	363.1
30°	2604.3	2274.0	1346.6	482.8	366.8	351.3	345.8	344.5	343.9	343.3	343.9
32.5°	2687.1	2291.3	1177.4	401.3	342.7	327.9	324.2	326.0	324.2	324.2	324.2
35°	2836.5	2343.2	1000.2	350.1	317.4	305.0	301.3	303.8	302.5	302.5	301.9
37.5°	3054.4	2439.5	821.8	319.2	295.1	282.2	277.2	280.9	279.7	279.7	279.1
40°	3319.9	2579.6	652.0	295.8	273.5	259.9	255.6	257.5	254.4	254.4	255.6
42.5°	3647.8	2757.5	503.8	272.9	251.9	238.9	236.5	234.6	229.1	226.0	226.6
45°	4012.1	2942.7	392.7	250.7	231.5	221.0	217.3	212.4	203.1	197.0	197.6
47.5°	4337.5	3085.3	319.2	229.1	213.0	205.0	199.4	190.2	176.6	169.2	169.8
50°	4508.5	3106.9	271.7	207.5	195.7	187.7	179.7	165.5	149.4	141.4	140.8
52.5°	4552.3	3005.7	236.5	187.7	178.4	169.2	158.7	139.5	121.6	113.0	111.8
55°	4568.4	2851.3	205.0	169.2	159.9	149.4	135.8	114.2	97.6	88.9	88.3
57.5°	4515.3	2621.0	180.3	152.5	141.4	128.4	111.8	91.4	75.3	68.5	68.5
60°	4397.4	2309.2	161.1	134.6	122.3	107.4	90.1	71.0	56.2	50.6	50.6
62.5°	4162.1	1905.4	143.2	116.1	104.3	88.9	72.9	53.7	39.5	36.4	37.0
65°	3718.2	1445.4	125.3	99.4	88.9	73.5	56.8	38.3	26.5	26.5	27.8
67.5°	3032.2	1003.9	106.8	84.6	76.6	59.9	43.2	26.5	18.5	21.0	23.5
70°	2007.3	563.1	91.4	69.8	65.4	47.5	32.1	17.9	14.8	19.8	24.1
72.5°	757.6	219.2	76.6	56.2	56.8	36.4	22.8	13.6	13.6	21.6	28.4
75°	211.2	107.4	55.0	41.4	44.5	26.5	16.7	11.7	13.0	24.7	33.3
77.5°	124.1	79.0	35.8	24.1	30.3	18.5	11.1	9.3	11.1	21.0	32.1
80°	100.0	42.0	21.0	12.3	16.7	10.5	7.4	5.6	3.1	8.0	16.7
82.5°	100.0	25.3	9.9	8.6	8.6	5.6	3.7	2.5	0.6	0.0	4.3
85°	67.3	10.5	6.2	5.6	4.3	1.9	1.2	0.6	0.0	0.0	0.0
87.5°	11.1	4.3	2.5	1.2	0.6	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)