

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: P322739

Luminaire Tested: **GAN-SA5D-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21884 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

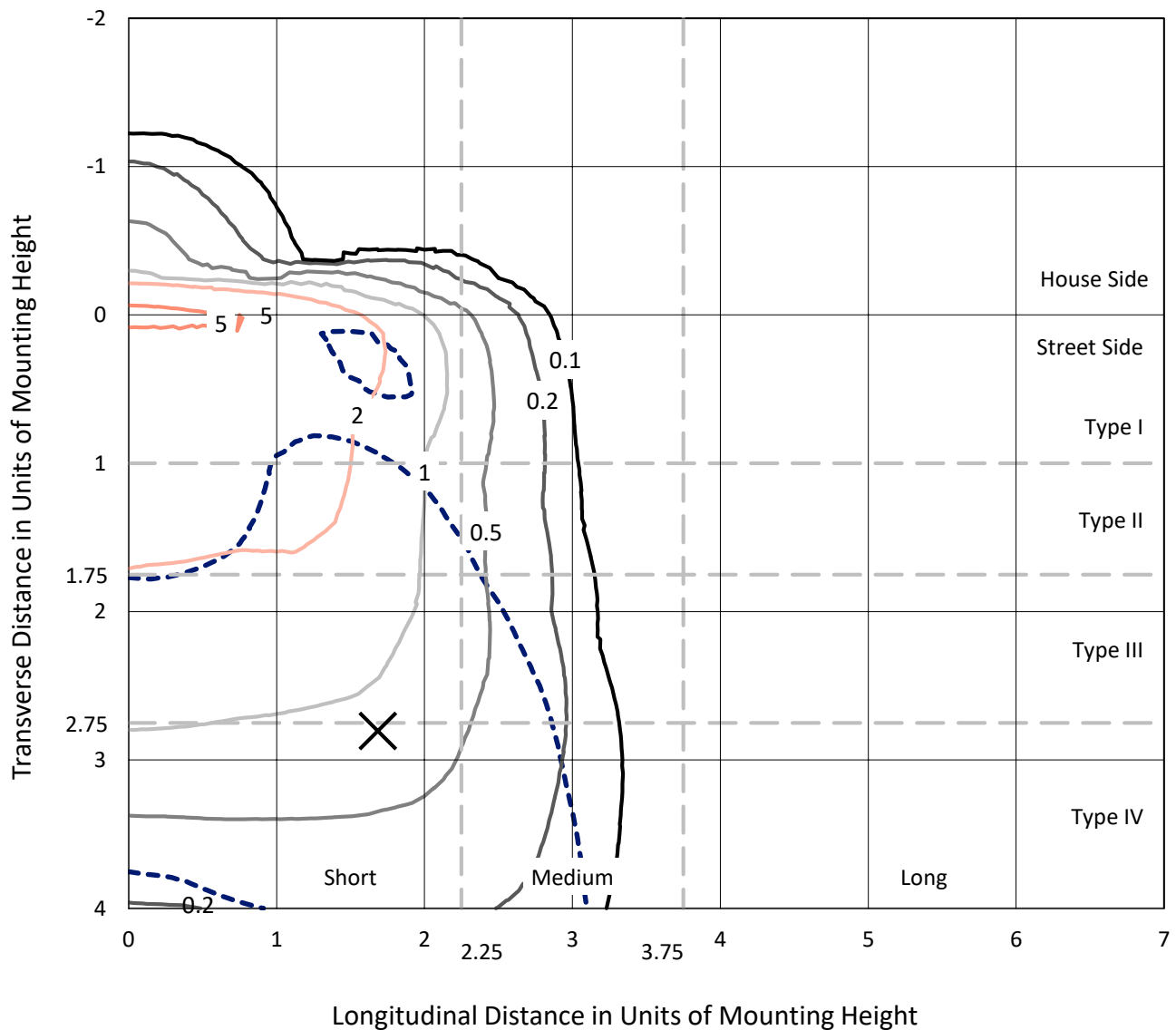
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322739
 CATALOG NUMBER: GAN-SA5D-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

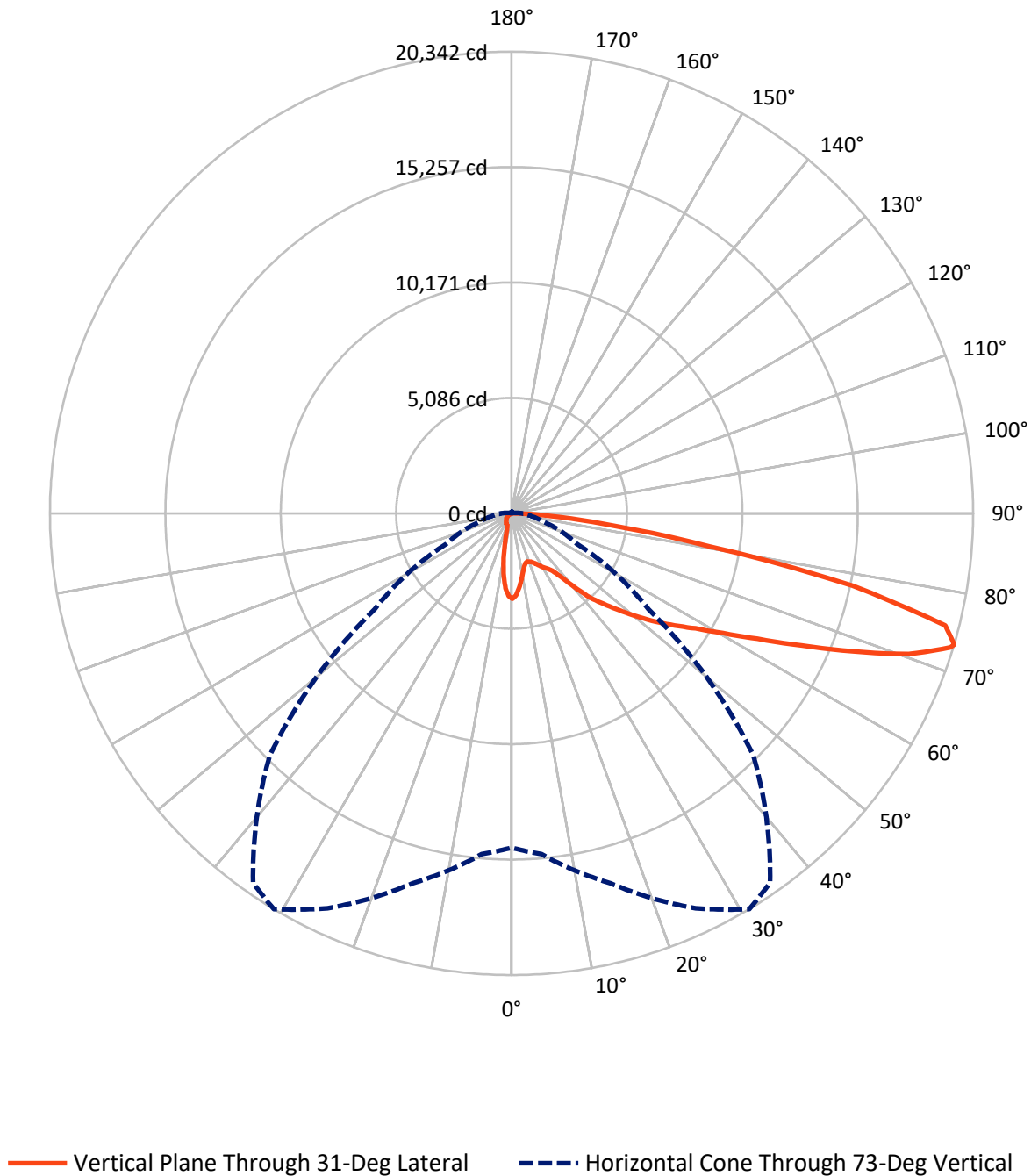
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

REPORT NUMBER: P322739
CATALOG NUMBER: GAN-SA5D-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322739

CATALOG NUMBER: GAN-SA5D-830-U-T4FT-HSS

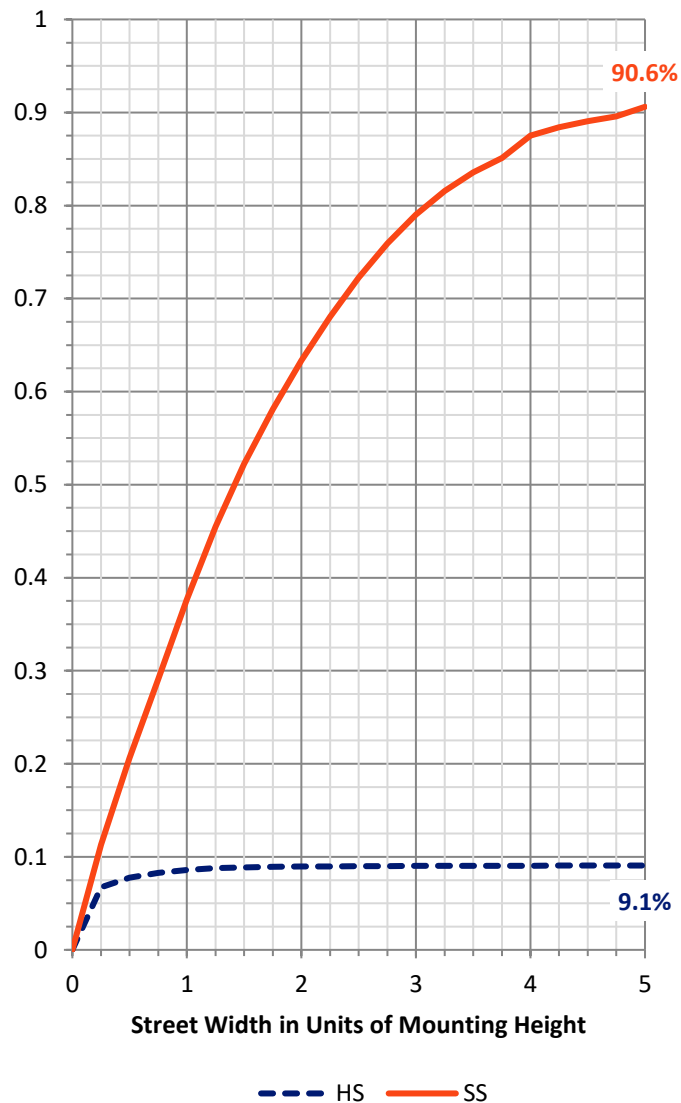
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.8	0.0	1994.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	19889.2	0.0	19889.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	21884.0	0.0	21884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.4
10°-20°	677.8	3.1
20°-30°	1015.6	4.6
30°-40°	1615.8	7.4
40°-50°	2885.4	13.2
50°-60°	4477.4	20.5
60°-70°	5952.1	27.2
70°-80°	4477.2	20.5
80°-90°	470.5	2.1
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°	21884.0	100.0
0°-180°	21884.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322739

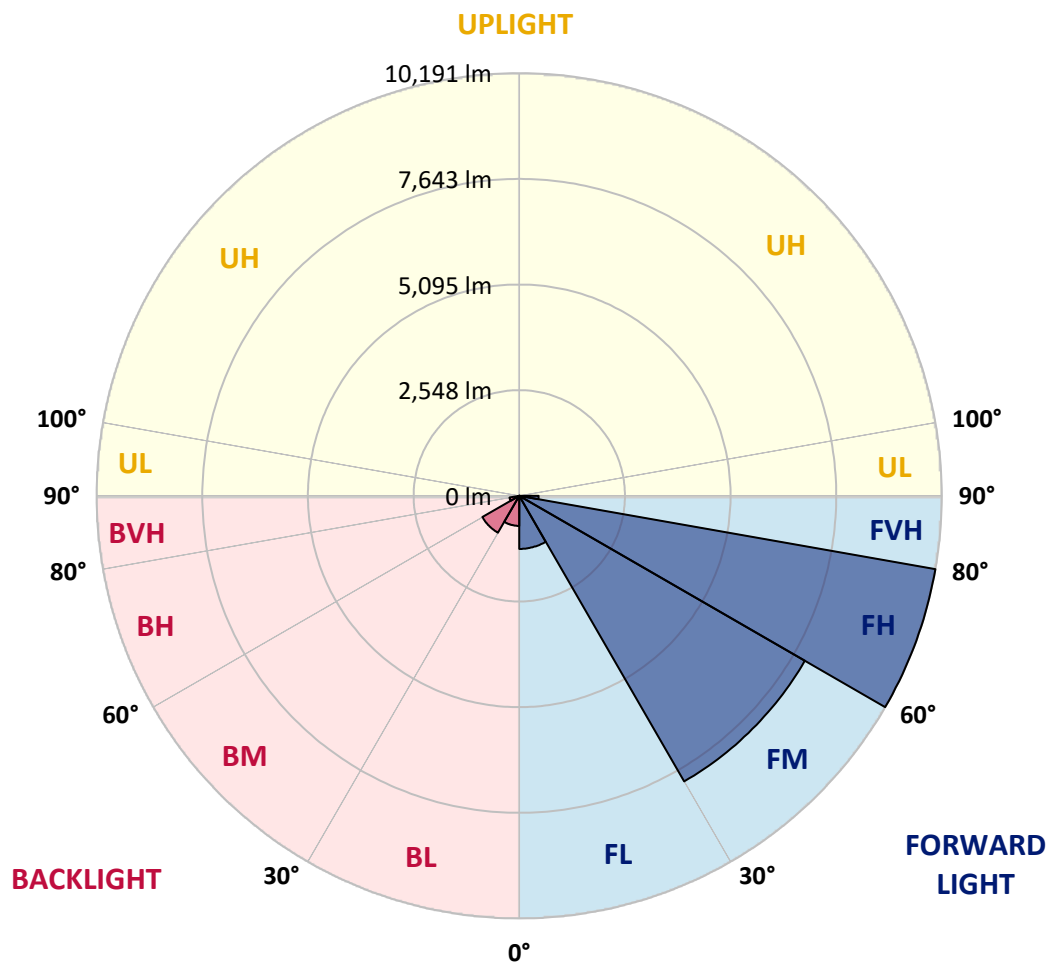
CATALOG NUMBER: GAN-SA5D-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1280.2	5.9			
FM	(30°-60°)	7951.9	36.3			
FH	(60°-80°)	10190.6	46.6			G4/12000
FVH	(80°-90°)	466.5	2.1			G3/500
BL	(0°-30°)	725.4	3.3	B2/1000		
BM	(30°-60°)	1026.8	4.7	B2/2500		
BH	(60°-80°)	238.7	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P322739

CATALOG NUMBER: GAN-SA5D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2
2.5°	3568.1	3583.1	3599.2	3602.4	3629.2	3630.3	3668.8	3697.7	3726.6	3754.5	3764.1
5°	3201.9	3226.5	3255.5	3284.4	3341.1	3363.6	3457.8	3554.2	3646.3	3734.1	3777.0
7.5°	2811.0	2838.9	2879.6	2951.3	3014.5	3058.4	3207.3	3378.6	3549.9	3711.6	3804.8
10°	2454.4	2480.1	2523.0	2599.0	2696.5	2756.4	2956.7	3194.4	3446.1	3691.3	3846.6
12.5°	2227.4	2241.3	2264.9	2346.3	2434.1	2501.6	2737.1	3031.6	3360.4	3690.2	3914.0
15°	2185.7	2189.9	2170.7	2207.1	2275.6	2340.9	2579.7	2899.9	3295.1	3707.4	4001.8
17.5°	2252.0	2249.9	2185.7	2181.4	2236.0	2289.5	2502.6	2808.9	3249.0	3747.0	4115.4
20°	2352.7	2345.2	2233.8	2213.5	2271.3	2321.7	2497.3	2774.6	3231.9	3813.4	4253.5
22.5°	2486.6	2473.7	2299.2	2277.7	2339.9	2392.3	2563.7	2807.8	3246.9	3902.3	4414.1
25°	2652.6	2633.3	2411.6	2388.0	2451.2	2503.7	2682.5	2903.1	3291.9	4010.4	4617.6
27.5°	2840.0	2812.1	2591.5	2530.5	2602.2	2656.8	2841.0	3048.8	3362.5	4125.0	4867.1
30°	3016.6	2980.2	2781.1	2680.4	2768.2	2829.2	3012.4	3222.3	3476.1	4301.7	5208.7
32.5°	3194.4	3153.7	2950.3	2830.3	2909.6	2976.0	3189.1	3461.1	3689.2	4571.6	5662.8
35°	3603.5	3560.7	3311.1	3113.0	3112.0	3149.4	3436.4	3787.7	3970.8	4947.4	6204.6
37.5°	4292.1	4267.4	4029.7	3653.8	3553.2	3511.4	3773.8	4177.5	4375.6	5464.7	6816.1
40°	5046.0	5024.5	4757.9	4417.3	4264.2	4161.4	4257.8	4720.4	4947.4	6096.5	7440.4
42.5°	5897.3	5795.6	5320.1	5218.4	5081.3	5003.1	4916.4	5389.7	5649.9	6784.0	8059.4
45°	6670.5	6499.1	5882.3	5728.1	5697.0	5716.3	5764.5	6289.2	6440.2	7601.1	8676.2
47.5°	7130.9	6996.0	6522.7	6374.9	6366.3	6493.8	6857.9	7305.5	7227.3	8313.2	9219.1
50°	7568.9	7446.8	7053.8	7090.2	7129.9	7303.3	8099.0	8350.7	7945.9	8958.9	9717.1
52.5°	7923.4	7737.1	7531.4	7736.0	7930.9	8210.4	9379.8	9288.7	8455.6	9472.9	10143.3
55°	8127.9	8043.3	8142.9	8348.5	8714.8	9168.8	10588.8	10069.4	8828.3	9942.0	10427.1
57.5°	8877.5	8711.5	8909.7	9087.4	9565.0	10200.1	11624.3	10650.9	9097.1	10232.2	10492.4
60°	9784.6	9650.7	9767.4	10063.0	10707.7	11454.1	12592.4	11125.3	9237.3	10418.5	10323.2
62.5°	11228.1	11051.4	10978.6	11309.5	12164.0	12979.0	13327.0	11454.1	9206.3	10336.1	9742.8
65°	13162.1	12979.0	12653.4	12953.3	14040.2	14615.3	14148.4	11523.7	8992.1	9668.9	8275.7
67.5°	15143.2	15010.4	14732.0	15237.4	16218.4	16403.6	15016.8	11354.5	8302.5	7839.9	5847.0
70°	16451.8	16395.1	16576.0	17694.0	18568.9	18515.4	15813.6	10445.3	6471.3	4821.1	2892.4
72.5°	15508.4	15780.4	17116.8	19144.0	20212.7	19775.8	15404.5	8020.8	3698.8	1854.8	836.4
73°	14726.6	15074.7	16873.7	19198.6	20342.3	19863.6	15060.7	7362.2	3152.6	1463.9	634.0
75°	10245.0	10672.3	13969.5	17880.4	19736.2	18925.5	12553.8	4506.2	1460.7	648.9	255.9
77.5°	4974.2	5290.1	7692.1	12919.0	15348.8	14786.6	7815.2	1679.1	659.7	405.9	117.8
80°	1856.9	2064.6	3339.0	6575.2	8870.0	9102.4	3437.5	635.0	439.1	326.6	60.0
82.5°	486.2	541.9	1231.5	2932.0	4545.9	4757.9	1083.7	320.2	321.3	268.8	36.4
85°	155.3	177.8	384.4	1316.1	2141.7	1880.5	282.7	155.3	233.5	200.3	20.3
87.5°	19.3	24.6	122.1	309.5	472.3	262.4	43.9	46.0	99.6	111.4	11.8
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: P322739

CATALOG NUMBER: GAN-SA5D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2	3765.2
2.5°	3773.8	3768.4	3769.5	3741.6	3723.4	3687.0	3649.5	3632.4	3614.2	3606.7	3614.2
5°	3793.0	3783.4	3755.5	3669.9	3578.9	3461.1	3350.8	3267.2	3162.3	3133.4	3163.4
7.5°	3823.0	3803.7	3722.4	3547.8	3345.4	3120.5	2867.8	2683.6	2532.6	2435.2	2470.5
10°	3866.9	3830.5	3666.7	3370.0	3008.1	2609.7	2251.0	1971.5	1773.4	1692.0	1688.8
12.5°	3940.8	3872.3	3598.1	3138.7	2595.8	2064.6	1594.5	1291.5	1130.8	1027.0	1024.8
15°	4022.2	3921.5	3511.4	2861.4	2116.0	1478.9	1027.0	796.7	692.9	659.7	655.4
17.5°	4121.8	3978.3	3398.9	2519.8	1613.8	979.8	670.4	604.0	599.7	596.5	596.5
20°	4247.1	4045.8	3254.4	2128.9	1144.8	654.3	569.7	574.0	576.1	571.8	572.9
22.5°	4392.7	4114.3	3082.0	1709.1	774.2	547.2	545.1	550.4	552.6	550.4	551.5
25°	4561.9	4193.5	2872.1	1269.0	559.0	519.4	524.7	532.2	537.6	537.6	537.6
27.5°	4771.8	4289.9	2619.4	885.6	483.0	490.5	505.5	519.4	526.9	529.0	529.0
30°	5044.9	4409.9	2316.3	607.2	439.1	451.9	479.8	506.5	520.4	522.6	523.7
32.5°	5389.7	4544.8	1965.1	448.7	401.6	411.2	441.2	486.2	512.9	517.2	517.2
35°	5784.9	4701.1	1587.0	390.9	374.8	378.0	401.6	453.0	500.1	511.9	512.9
37.5°	6217.5	4855.3	1206.9	365.2	352.3	352.3	369.5	413.4	469.0	505.5	509.7
40°	6621.2	4948.5	846.0	344.8	332.0	332.0	347.0	379.1	431.6	486.2	498.0
42.5°	6993.9	4980.6	589.0	325.5	312.7	315.9	328.8	354.5	394.1	448.7	459.4
45°	7377.2	4975.3	429.4	303.1	293.4	303.1	312.7	332.0	360.9	391.9	394.1
47.5°	7666.4	4930.3	340.5	281.6	275.2	288.1	296.6	309.5	325.5	323.4	323.4
50°	7937.3	4821.1	274.1	252.7	257.0	272.0	276.3	280.6	281.6	261.3	259.2
52.5°	8142.9	4650.8	219.5	221.7	238.8	253.8	249.5	243.1	232.4	207.7	203.5
55°	8211.4	4323.1	172.4	183.1	212.0	231.3	215.2	201.3	181.0	160.6	156.3
57.5°	8087.2	3900.1	140.3	142.4	178.8	194.9	176.7	160.6	138.1	121.0	117.8
60°	7823.8	3430.0	115.7	107.1	138.1	152.1	140.3	124.2	103.9	91.0	90.0
62.5°	7301.2	2928.8	95.3	83.5	104.9	116.7	109.2	97.4	80.3	71.7	70.7
65°	6202.5	2343.1	77.1	67.5	81.4	91.0	84.6	76.0	63.2	56.8	55.7
67.5°	4329.5	1583.8	63.2	55.7	64.3	71.7	66.4	62.1	50.3	49.3	50.3
70°	2088.2	763.5	52.5	45.0	50.3	55.7	53.5	50.3	48.2	55.7	64.3
72.5°	598.6	255.9	41.8	37.5	40.7	43.9	46.0	45.0	52.5	67.5	78.2
73°	460.5	206.7	39.6	35.3	38.6	42.8	45.0	43.9	53.5	68.5	78.2
75°	197.0	99.6	30.0	28.9	32.1	37.5	39.6	39.6	53.5	69.6	75.0
77.5°	88.9	53.5	19.3	22.5	27.8	30.0	33.2	33.2	42.8	53.5	53.5
80°	50.3	28.9	15.0	17.1	20.3	20.3	20.3	18.2	19.3	21.4	23.6
82.5°	32.1	19.3	11.8	13.9	12.9	10.7	8.6	8.6	7.5	8.6	10.7
85°	18.2	10.7	10.7	8.6	5.4	4.3	5.4	4.3	1.1	0.0	1.1
87.5°	10.7	6.4	3.2	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)