

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: P321142

Luminaire Tested: **GAN-SA8D-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50695 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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



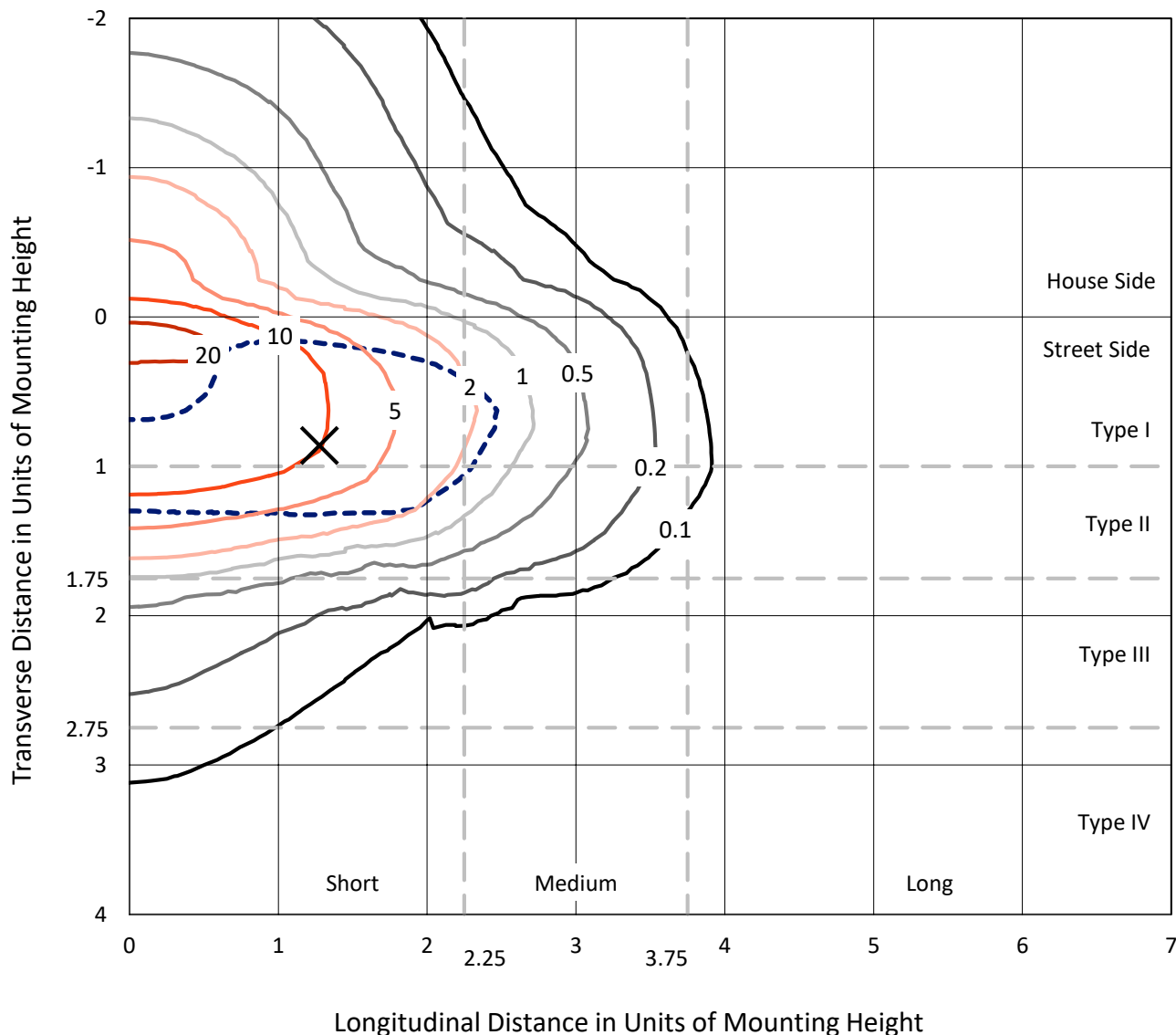
REPORT NUMBER: P321142

CATALOG NUMBER: GAN-SA8D-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

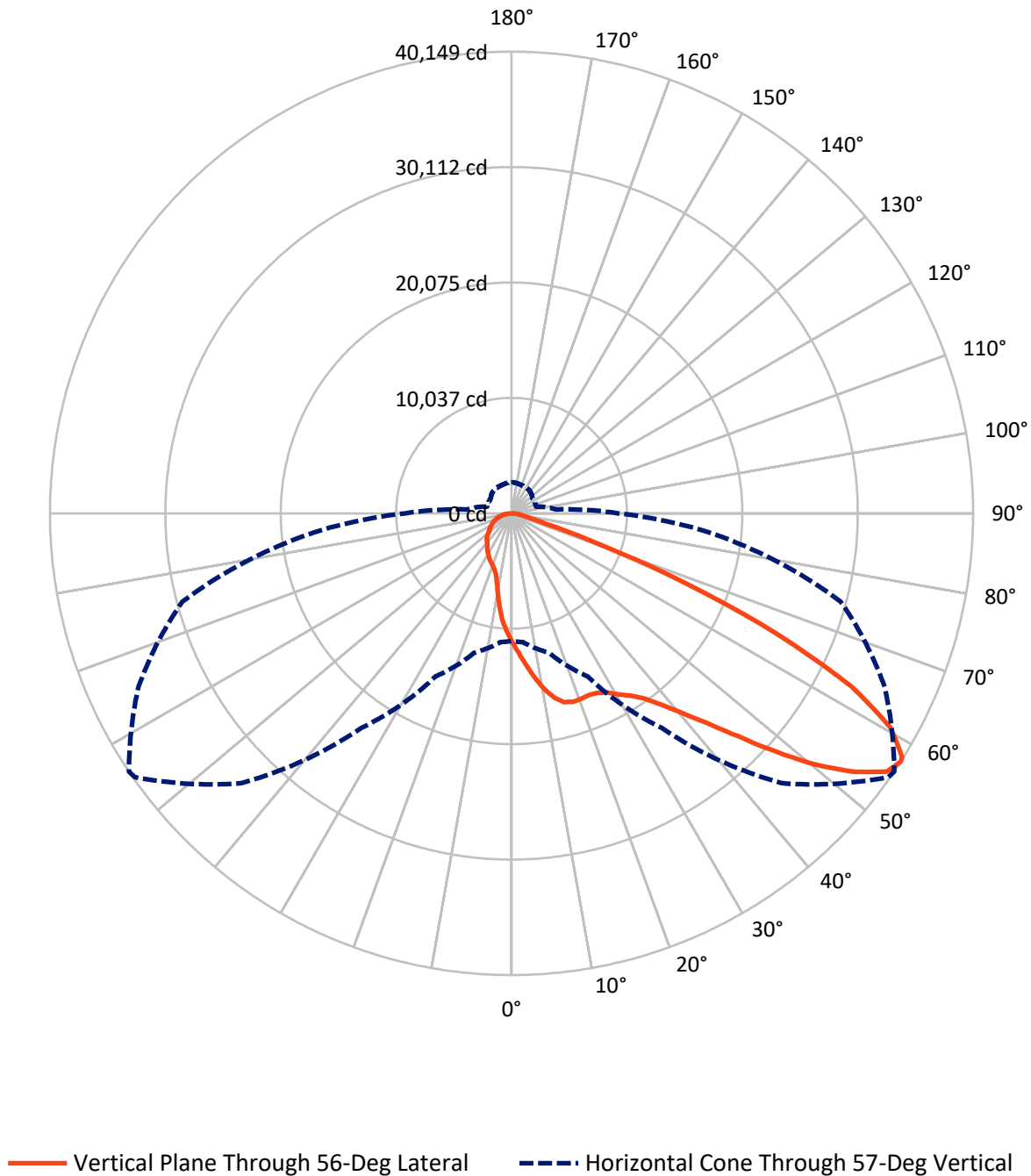


Based on 25 foot mounting height. Maximum calculated value = 24.9 fc

Type II - Short - N/A

REPORT NUMBER: P321142
CATALOG NUMBER: GAN-SA8D-830-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P321142

CATALOG NUMBER: GAN-SA8D-830-U-AFL

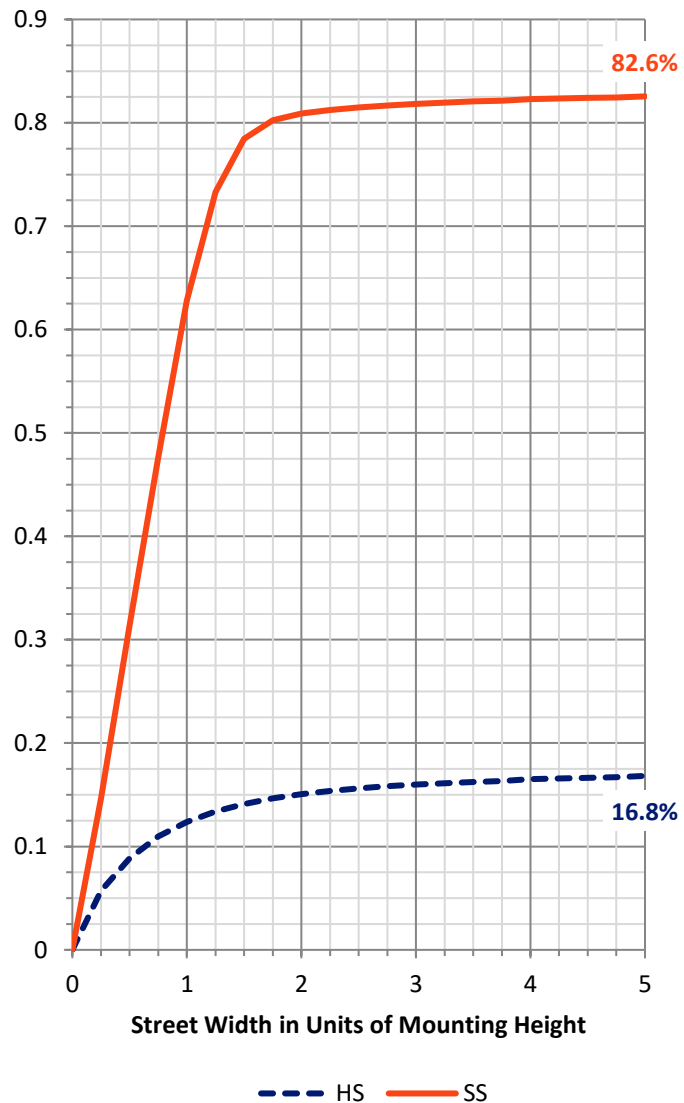
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8738.7	0.0	8738.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	41956.3	0.0	41956.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	50695.0	0.0	50695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1074.1	2.1
10°-20°	3036.7	6.0
20°-30°	4946.3	9.8
30°-40°	7394.1	14.6
40°-50°	11215.3	22.1
50°-60°	12570.4	24.8
60°-70°	7424.5	14.6
70°-80°	2432.6	4.8
80°-90°	601.0	1.2
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°	50695.0	100.0
0°-180°	50695.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321142

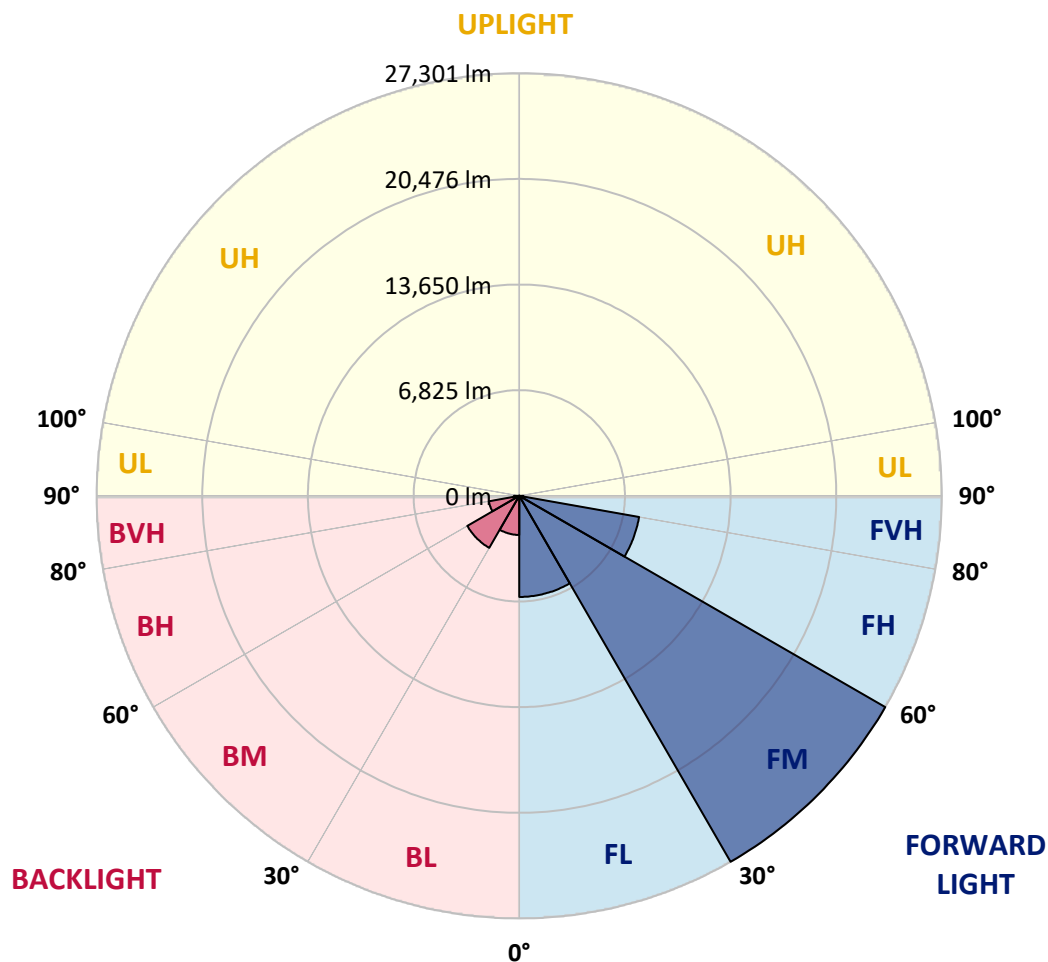
CATALOG NUMBER: GAN-SA8D-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6530.3	12.9			
FM	(30°-60°)	27300.9	53.9			
FH	(60°-80°)	7860.4	15.5			G4/12000
FVH	(80°-90°)	264.6	0.5			G3/500
BL	(0°-30°)	2526.8	5.0	B4/5000		
BM	(30°-60°)	3878.8	7.7	B3/5000		
BH	(60°-80°)	1996.7	3.9	B3/2500		G3/2500
BVH	(80°-90°)	336.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P321142

CATALOG NUMBER: GAN-SA8D-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2
2.5°	12911.5	13030.0	12977.7	12796.5	12657.1	12460.3	12240.7	12174.5	11942.8	11683.2	11371.4
5°	14955.1	14895.9	14810.5	14528.3	14230.3	13883.6	13333.1	13246.0	12730.3	12143.2	11523.0
7.5°	16118.9	16113.7	16063.1	15897.6	15625.8	15172.9	14509.1	14406.3	13627.5	12683.3	11721.6
10°	15949.9	15937.7	16021.3	16193.8	16275.7	16181.6	15622.4	15519.6	14563.1	13280.8	11951.5
12.5°	14989.9	14996.9	15131.1	15493.4	15986.5	16578.8	16488.2	16437.7	15533.5	13956.8	12230.3
15°	14242.5	14258.2	14364.5	14679.8	15261.7	16336.7	17014.4	17031.8	16472.6	14702.5	12556.1
17.5°	13915.0	13948.1	13996.9	14218.1	14751.3	15854.1	17139.8	17233.9	17294.9	15476.0	12869.7
20°	14019.5	14050.9	14064.8	14205.9	14643.2	15561.4	17052.7	17221.7	17925.6	16204.3	13183.3
22.5°	14488.2	14507.3	14516.1	14552.6	14892.4	15645.0	16995.2	17172.9	18382.0	16857.6	13420.2
25°	15265.2	15251.3	15195.5	15148.5	15376.7	15976.0	17127.6	17296.6	18753.1	17449.9	13575.3
27.5°	16195.5	16178.1	16070.1	15941.2	16071.8	16491.7	17509.2	17643.3	19085.9	18004.0	13653.7
30°	17312.3	17267.0	17063.2	16909.9	16960.4	17265.3	18138.1	18260.1	19599.8	18632.9	13730.3
32.5°	18603.3	18554.5	18260.1	18005.7	18005.7	18260.1	18786.2	18887.3	20035.4	19343.7	13854.0
35°	20220.0	20159.1	19775.8	19348.9	19228.7	19357.7	19669.5	19740.9	20819.4	20239.2	14078.8
37.5°	22126.0	22044.1	21547.6	20976.2	20713.1	20706.1	20930.9	21077.2	22072.0	21415.2	14460.3
40°	24037.2	23979.7	23545.9	23096.4	22580.7	22415.2	22761.9	22807.2	23709.7	22875.2	14948.1
42.5°	25514.6	25504.2	25424.0	25483.2	24955.4	24620.9	24892.6	24929.2	25709.7	24455.3	15467.3
45°	26295.1	26312.5	26701.0	27561.7	27756.8	27512.9	27647.1	27657.5	27995.5	26049.5	15942.9
47.5°	25669.7	25760.3	26742.9	28668.0	30265.6	31075.7	30852.7	30981.6	30211.6	27418.8	16315.8
50°	23232.3	23343.8	25016.3	28175.0	31436.4	34523.6	34406.8	34377.2	31999.1	28422.3	16517.9
52.5°	20213.1	20300.2	21680.0	25612.2	30577.5	36429.5	37501.0	37347.7	33588.0	29173.2	16556.2
55°	15615.4	15751.3	17073.6	20497.1	27103.5	35701.3	39776.3	39638.7	35035.8	29567.0	16510.9
57°	11101.3	11244.2	12557.8	15643.3	22800.2	33180.3	40002.8	40149.1	35818.0	29633.2	16561.4
57.5°	9906.2	10052.5	11354.0	14350.6	21458.8	32269.1	39807.7	40051.6	35959.1	29622.7	16589.3
60°	4987.9	5043.7	5873.0	8010.7	13564.8	26087.8	37262.3	37891.2	36086.3	29110.5	16709.5
62.5°	3101.1	3061.1	3034.9	3690.0	6599.5	17300.1	32009.5	33220.4	33652.4	27870.1	16418.5
65°	2726.6	2651.6	2364.2	2311.9	2914.7	8402.7	24105.2	25612.2	28452.0	25915.3	15725.2
67.5°	2561.0	2487.9	2163.8	1968.7	1970.4	3331.1	14965.5	16662.5	22164.3	22610.3	14089.2
70°	2390.3	2324.1	2021.0	1791.0	1677.7	1845.0	6885.2	8172.7	14448.1	17772.2	11775.6
72.5°	2170.8	2125.5	1838.0	1601.1	1480.9	1381.6	2636.0	3113.3	8364.3	11935.9	8177.9
75°	1940.8	1899.0	1653.4	1426.9	1280.5	1087.1	1484.4	1599.3	4249.2	6106.4	4026.2
77.5°	1688.2	1663.8	1470.4	1261.4	1144.6	900.7	1050.6	1106.3	1822.3	2618.5	2019.2
80°	1343.2	1390.3	1285.7	1123.7	1015.7	721.3	743.9	780.5	1061.0	1278.8	1146.4
82.5°	874.6	956.5	1007.0	912.9	836.3	568.0	534.9	550.5	691.7	780.5	498.3
85°	364.1	409.4	662.0	597.6	555.8	414.6	358.9	365.9	428.6	444.3	203.8
87.5°	162.0	172.5	290.9	273.5	235.2	142.9	153.3	167.3	228.2	216.0	78.4
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: P321142

CATALOG NUMBER: GAN-SA8D-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2	11244.2
2.5°	11254.7	11108.3	10857.4	10580.4	10353.9	10172.7	9989.8	9864.4	9718.0	9639.6	9599.6
5°	11263.4	10975.9	10448.0	9906.2	9421.8	8979.3	8557.7	8233.7	7930.5	7766.8	7721.5
7.5°	11299.9	10867.9	10014.2	9122.2	8261.5	7475.8	6869.5	6489.7	6216.2	6094.2	6059.4
10°	11329.6	10740.7	9477.6	8157.0	6986.2	6190.1	5719.7	5507.1	5413.0	5397.4	5381.7
12.5°	11399.3	10610.0	8913.1	7150.0	5994.9	5444.4	5280.6	5266.7	5292.8	5331.2	5331.2
15°	11509.0	10481.1	8268.5	6285.9	5364.3	5170.9	5204.0	5280.6	5352.1	5411.3	5420.0
17.5°	11589.2	10322.6	7575.1	5594.2	5028.0	5080.3	5198.7	5306.8	5379.9	5437.4	5442.7
20°	11646.6	10076.9	6834.7	5066.3	4834.6	4996.6	5144.7	5240.6	5291.1	5348.6	5357.3
22.5°	11617.0	9747.6	6177.9	4688.3	4677.8	4874.7	5015.8	5130.8	5092.5	5036.7	5073.3
25°	11474.2	9294.7	5501.9	4406.0	4512.3	4710.9	4885.1	4808.5	4679.6	4655.2	4669.1
27.5°	11219.8	8716.3	4876.4	4144.7	4320.7	4559.4	4548.9	4472.2	4426.9	4395.6	4414.7
30°	10946.3	8089.1	4329.4	3916.5	4108.1	4305.0	4264.9	4263.2	4217.9	4167.4	4191.7
32.5°	10676.2	7458.4	3895.6	3728.3	3947.8	3974.0	4061.1	4087.2	3998.4	3892.1	3885.1
35°	10441.0	6862.5	3566.3	3557.6	3754.5	3757.9	3885.1	3848.5	3627.3	3517.5	3517.5
37.5°	10265.1	6268.5	3315.4	3404.3	3500.1	3590.7	3655.1	3503.6	3467.0	3406.0	3404.3
40°	10188.4	5745.8	3158.6	3287.5	3320.6	3435.6	3270.1	3329.4	3346.8	3315.4	3315.4
42.5°	10108.3	5291.1	3022.7	3198.7	3193.5	3177.8	3094.2	3170.8	3240.5	3242.2	3237.0
45°	10028.1	4899.1	2902.5	3008.8	3082.0	2913.0	2928.6	3010.5	3108.1	3142.9	3142.9
47.5°	9939.3	4589.0	2792.8	2808.4	2921.7	2808.4	2796.2	2859.0	2973.9	3029.7	3041.9
50°	9744.2	4310.2	2667.3	2632.5	2663.8	2702.2	2712.6	2742.2	2869.4	2958.3	2979.2
52.5°	9474.1	4061.1	2507.0	2470.4	2470.4	2615.1	2663.8	2672.5	2780.6	2886.8	2907.7
55°	9249.4	3902.5	2341.5	2334.6	2327.6	2522.7	2606.3	2620.3	2695.2	2778.8	2789.3
57°	9265.1	3890.3	2214.3	2221.3	2219.6	2428.6	2552.3	2581.9	2620.3	2691.7	2703.9
57.5°	9273.8	3899.1	2186.5	2190.0	2188.2	2402.5	2536.7	2569.8	2599.4	2674.3	2686.5
60°	9404.4	3921.7	2073.2	2034.9	2043.6	2263.1	2447.8	2489.6	2508.8	2608.1	2623.8
62.5°	9211.0	3820.7	1982.6	1890.3	1890.3	2116.8	2324.1	2390.3	2419.9	2554.1	2580.2
65°	8650.1	3536.7	1876.4	1726.5	1743.9	1970.4	2176.0	2284.0	2329.3	2496.6	2524.5
67.5°	7784.2	3207.4	1763.1	1580.2	1597.6	1817.1	2022.7	2139.4	2210.9	2433.9	2456.5
70°	6657.0	2805.0	1609.8	1425.1	1446.0	1649.9	1841.5	1973.9	2080.2	2374.6	2381.6
72.5°	4907.8	2299.7	1395.5	1254.4	1277.0	1454.7	1658.6	1811.9	1954.8	2226.5	2223.1
75°	2918.2	1798.0	1158.6	1081.9	1097.6	1263.1	1493.1	1679.5	1893.8	2169.0	2202.1
77.5°	1770.1	1353.7	944.3	905.9	925.1	1094.1	1374.6	1573.2	1867.6	2045.3	2034.9
80°	1069.7	966.9	754.4	730.0	749.1	935.6	1271.8	1493.1	1632.4	1747.4	1747.4
82.5°	559.2	590.6	554.0	534.9	561.0	759.6	1156.8	1303.2	1442.5	1238.7	1156.8
85°	228.2	308.4	336.2	334.5	350.2	526.1	998.3	1115.0	930.3	883.3	904.2
87.5°	76.7	130.7	163.8	141.1	148.1	331.0	691.7	538.3	639.4	446.0	423.4
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)