

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: P321123

Luminaire Tested: **GAN-SA9B-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321123
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-SA9B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41649 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 374
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

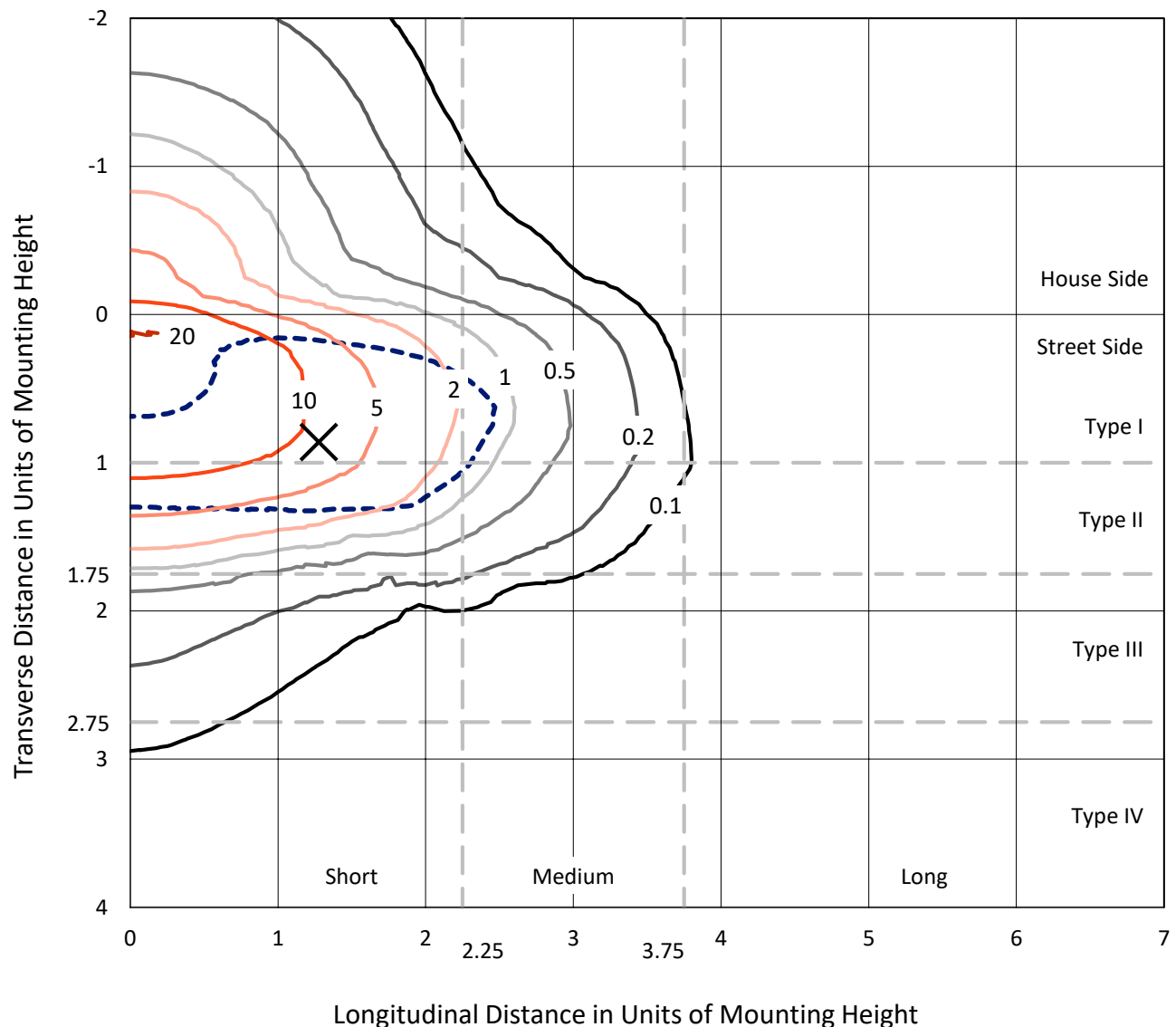


REPORT NUMBER: P321123

CATALOG NUMBER: GAN-SA9B-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

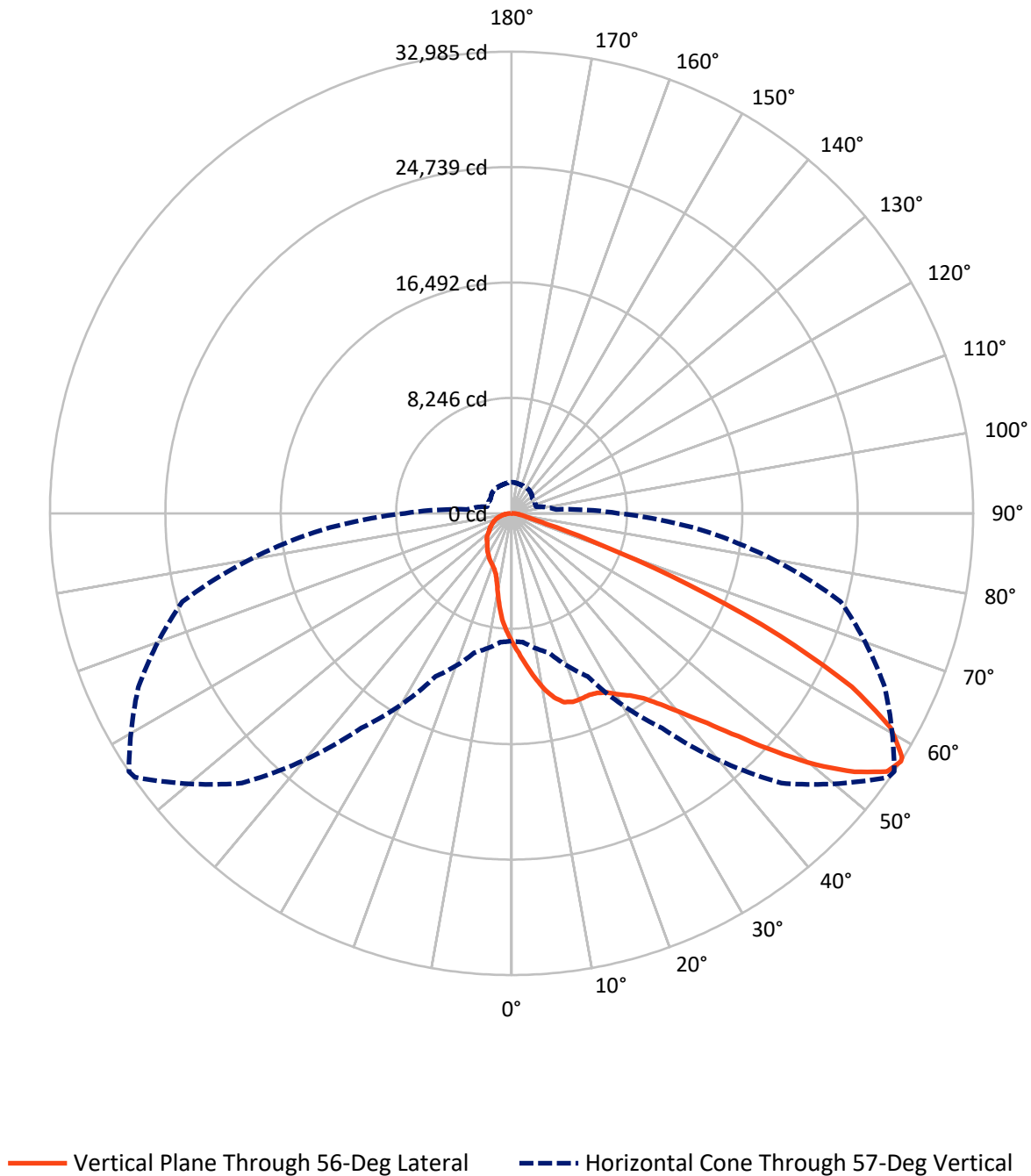
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

REPORT NUMBER: P321123
CATALOG NUMBER: GAN-SA9B-830-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P321123

CATALOG NUMBER: GAN-SA9B-830-U-AFL

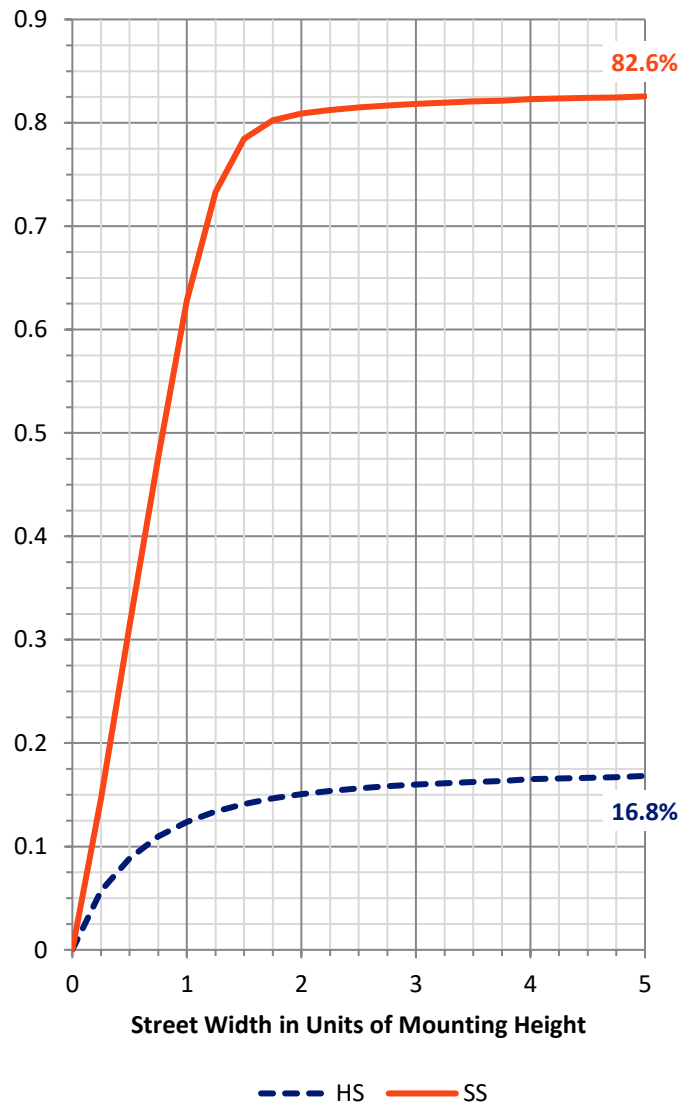
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7179.4	0.0	7179.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	34469.6	0.0	34469.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	41649.0	0.0	41649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.4	2.1
10°-20°	2494.9	6.0
20°-30°	4063.7	9.8
30°-40°	6074.7	14.6
40°-50°	9214.0	22.1
50°-60°	10327.3	24.8
60°-70°	6099.7	14.6
70°-80°	1998.5	4.8
80°-90°	493.8	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°	41649.0	100.0
0°-180°	41649.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321123

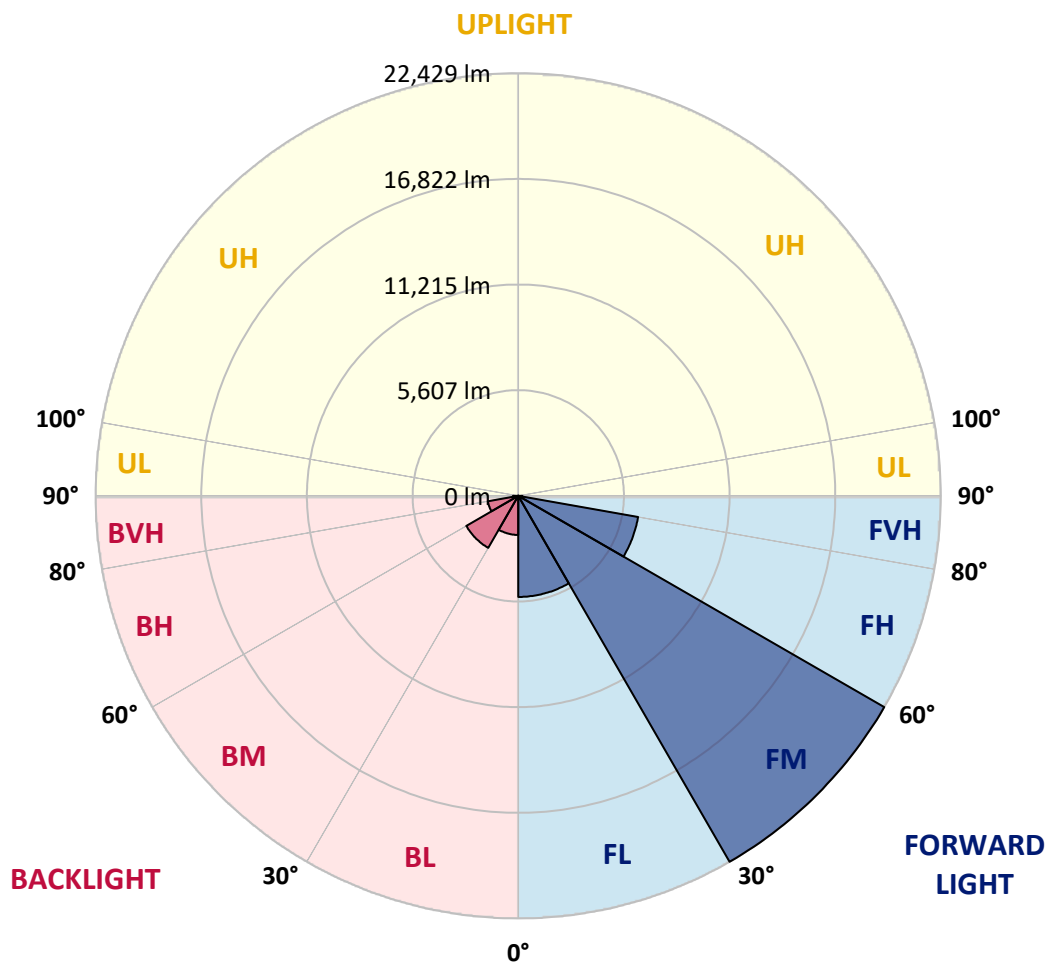
CATALOG NUMBER: GAN-SA9B-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5365.0	12.9			
FM	(30°-60°)	22429.4	53.9			
FH	(60°-80°)	6457.8	15.5			G3/7500
FVH	(80°-90°)	217.4	0.5			G2/225
BL	(0°-30°)	2075.9	5.0	B3/2500		
BM	(30°-60°)	3186.7	7.7	B3/5000		
BH	(60°-80°)	1640.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	276.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P321123

CATALOG NUMBER: GAN-SA9B-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8
2.5°	10607.6	10704.9	10662.0	10513.1	10398.6	10236.9	10056.5	10002.1	9811.7	9598.5	9342.3
5°	12286.5	12237.8	12167.7	11935.8	11691.1	11406.2	10953.9	10882.4	10458.7	9976.4	9466.8
7.5°	13242.6	13238.3	13196.8	13060.9	12837.6	12465.4	11920.1	11835.6	11195.8	10420.1	9630.0
10°	13103.8	13093.8	13162.5	13304.2	13371.5	13294.2	12834.7	12750.3	11964.5	10911.0	9818.9
12.5°	12315.1	12320.9	12431.1	12728.8	13133.9	13620.5	13546.1	13504.6	12761.7	11466.4	10047.9
15°	11701.1	11714.0	11801.3	12060.4	12538.4	13421.6	13978.3	13992.7	13533.2	12079.0	10315.6
17.5°	11432.0	11459.2	11499.3	11681.1	12119.0	13025.1	14081.4	14158.7	14208.8	12714.5	10573.2
20°	11517.9	11543.7	11555.1	11671.0	12030.3	12784.6	14009.8	14148.7	14726.9	13312.8	10830.9
22.5°	11902.9	11918.7	11925.8	11955.9	12235.0	12853.3	13962.6	14108.6	15101.9	13849.5	11025.5
25°	12541.3	12529.8	12484.0	12445.4	12632.9	13125.3	14071.4	14210.2	15406.8	14336.2	11152.9
27.5°	13305.6	13291.3	13202.6	13096.6	13204.0	13548.9	14384.8	14495.1	15680.2	14791.3	11217.3
30°	14223.1	14185.9	14018.4	13892.5	13934.0	14184.5	14901.5	15001.7	16102.4	15308.0	11280.3
32.5°	15283.7	15243.6	15001.7	14792.8	14792.8	15001.7	15434.0	15517.0	16460.3	15892.0	11381.9
35°	16612.0	16561.9	16247.0	15896.3	15797.6	15903.5	16159.7	16218.4	17104.4	16627.7	11566.6
37.5°	18177.9	18110.6	17702.7	17233.2	17017.0	17011.3	17196.0	17316.2	18133.5	17593.9	11880.0
40°	19748.0	19700.8	19344.4	18975.1	18551.4	18415.5	18700.3	18737.5	19478.9	18793.3	12280.8
42.5°	20961.8	20953.2	20887.4	20936.0	20502.3	20227.5	20450.8	20480.9	21122.1	20091.5	12707.3
45°	21603.0	21617.3	21936.5	22643.6	22803.9	22603.5	22713.7	22722.3	23000.0	21401.2	13098.1
47.5°	21089.2	21163.6	21970.9	23552.5	24865.0	25530.6	25347.4	25453.3	24820.6	22526.2	13404.4
50°	19086.7	19178.4	20552.4	23147.4	25826.9	28363.2	28267.3	28242.9	26289.2	23350.7	13570.4
52.5°	16606.3	16677.8	17811.4	21041.9	25121.2	29929.1	30809.3	30683.4	27594.6	23967.6	13601.9
55°	12829.0	12940.6	14027.0	16839.6	22267.2	29330.8	32678.6	32565.6	28784.0	24291.1	13564.7
57°	9120.4	9237.8	10317.0	12851.9	18731.8	27259.6	32864.7	32984.9	29426.7	24345.4	13606.2
57.5°	8138.5	8258.8	9328.0	11789.8	17629.7	26511.0	32704.4	32904.8	29542.6	24336.9	13629.1
60°	4097.9	4143.7	4825.0	6581.2	11144.3	21432.7	30613.2	31129.9	29647.1	23916.0	13727.9
62.5°	2547.8	2514.8	2493.4	3031.6	5421.9	14213.1	26297.8	27292.5	27647.5	22896.9	13488.8
65°	2240.0	2178.5	1942.3	1899.4	2394.6	6903.3	19803.8	21041.9	23375.0	21291.0	12919.2
67.5°	2104.1	2043.9	1777.7	1617.4	1618.8	2736.7	12295.1	13689.2	18209.3	18575.8	11575.1
70°	1963.8	1909.4	1660.3	1471.4	1378.4	1515.8	5656.6	6714.4	11870.0	14601.0	9674.3
72.5°	1783.4	1746.2	1510.1	1315.4	1216.6	1135.0	2165.6	2557.8	6871.8	9806.0	6718.7
75°	1594.5	1560.1	1358.3	1172.3	1052.0	893.1	1219.5	1314.0	3491.0	5016.8	3307.8
77.5°	1387.0	1366.9	1208.0	1036.3	940.4	740.0	863.1	908.9	1497.2	2151.3	1658.9
80°	1103.6	1142.2	1056.3	923.2	834.5	592.6	611.2	641.2	871.7	1050.6	941.8
82.5°	718.5	785.8	827.3	750.0	687.0	466.6	439.4	452.3	568.2	641.2	409.4
85°	299.1	336.4	543.9	490.9	456.6	340.7	294.9	300.6	352.1	365.0	167.5
87.5°	133.1	141.7	239.0	224.7	193.2	117.4	126.0	137.4	187.5	177.5	64.4
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: P321123

CATALOG NUMBER: GAN-SA9B-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8	9237.8
2.5°	9246.4	9126.1	8920.0	8692.5	8506.4	8357.5	8207.2	8104.2	7983.9	7919.5	7886.6
5°	9253.5	9017.4	8583.7	8138.5	7740.6	7377.1	7030.7	6764.5	6515.4	6380.9	6343.6
7.5°	9283.6	8928.6	8227.3	7494.4	6787.4	6141.8	5643.7	5331.7	5107.0	5006.8	4978.2
10°	9307.9	8824.1	7786.4	6701.5	5739.6	5085.5	4699.0	4524.4	4447.1	4434.3	4421.4
12.5°	9365.2	8716.8	7322.7	5874.2	4925.2	4472.9	4338.4	4326.9	4348.4	4379.9	4379.9
15°	9455.3	8610.9	6793.1	5164.2	4407.1	4248.2	4275.4	4338.4	4397.0	4445.7	4452.9
17.5°	9521.2	8480.6	6223.4	4596.0	4130.8	4173.8	4271.1	4359.8	4419.9	4467.2	4471.5
20°	9568.4	8278.8	5615.1	4162.3	3971.9	4105.0	4226.7	4305.4	4346.9	4394.2	4401.3
22.5°	9544.1	8008.3	5075.5	3851.7	3843.1	4004.9	4120.8	4215.3	4183.8	4138.0	4168.0
25°	9426.7	7636.1	4520.1	3619.8	3707.1	3870.3	4013.4	3950.5	3844.5	3824.5	3836.0
27.5°	9217.7	7160.9	4006.3	3405.1	3549.7	3745.8	3737.2	3674.2	3637.0	3611.2	3627.0
30°	8993.0	6645.7	3556.8	3217.6	3375.1	3536.8	3503.9	3502.5	3465.2	3423.7	3443.8
32.5°	8771.2	6127.5	3200.4	3063.0	3243.4	3264.9	3336.4	3357.9	3284.9	3197.6	3191.9
35°	8577.9	5638.0	2929.9	2922.8	3084.5	3087.4	3191.9	3161.8	2980.0	2889.8	2889.8
37.5°	8433.4	5149.9	2723.8	2796.8	2875.5	2950.0	3002.9	2878.4	2848.3	2798.2	2796.8
40°	8370.4	4720.5	2595.0	2700.9	2728.1	2822.6	2686.6	2735.3	2749.6	2723.8	2723.8
42.5°	8304.6	4346.9	2483.4	2627.9	2623.6	2610.7	2542.0	2605.0	2662.3	2663.7	2659.4
45°	8238.7	4024.9	2384.6	2471.9	2532.0	2393.2	2406.1	2473.3	2553.5	2582.1	2582.1
47.5°	8165.7	3770.1	2294.4	2307.3	2400.3	2307.3	2297.3	2348.8	2443.3	2489.1	2499.1
50°	8005.4	3541.1	2191.4	2162.7	2188.5	2220.0	2228.6	2252.9	2357.4	2430.4	2447.6
52.5°	7783.6	3336.4	2059.7	2029.6	2029.6	2148.4	2188.5	2195.7	2284.4	2371.7	2388.9
55°	7598.9	3206.2	1923.7	1918.0	1912.3	2072.6	2141.3	2152.7	2214.3	2283.0	2291.6
57°	7611.8	3196.2	1819.2	1824.9	1823.5	1995.3	2096.9	2121.2	2152.7	2211.4	2221.4
57.5°	7619.0	3203.3	1796.3	1799.2	1797.7	1973.8	2084.0	2111.2	2135.5	2197.1	2207.1
60°	7726.3	3221.9	1703.3	1671.8	1678.9	1859.3	2011.0	2045.4	2061.1	2142.7	2155.6
62.5°	7567.4	3138.9	1628.9	1553.0	1553.0	1739.1	1909.4	1963.8	1988.1	2098.3	2119.8
65°	7106.5	2905.6	1541.5	1418.4	1432.8	1618.8	1787.7	1876.5	1913.7	2051.1	2074.0
67.5°	6395.2	2635.1	1448.5	1298.2	1312.5	1492.9	1661.8	1757.7	1816.4	1999.6	2018.2
70°	5469.1	2304.4	1322.5	1170.8	1188.0	1355.5	1512.9	1621.7	1709.0	1950.9	1956.6
72.5°	4032.0	1889.4	1146.5	1030.6	1049.2	1195.2	1362.6	1488.6	1605.9	1829.2	1826.4
75°	2397.5	1477.1	951.8	888.9	901.7	1037.7	1226.6	1379.8	1555.9	1782.0	1809.2
77.5°	1454.2	1112.1	775.8	744.3	760.0	898.9	1129.3	1292.5	1534.4	1680.4	1671.8
80°	878.8	794.4	619.8	599.7	615.5	768.6	1044.9	1226.6	1341.2	1435.6	1435.6
82.5°	459.5	485.2	455.2	439.4	460.9	624.1	950.4	1070.6	1185.1	1017.7	950.4
85°	187.5	253.3	276.2	274.8	287.7	432.3	820.2	916.0	764.3	725.7	742.9
87.5°	63.0	107.3	134.5	115.9	121.7	272.0	568.2	442.3	525.3	366.4	347.8
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)