

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: P320184

Luminaire Tested: **GAN-SA0D-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57991 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

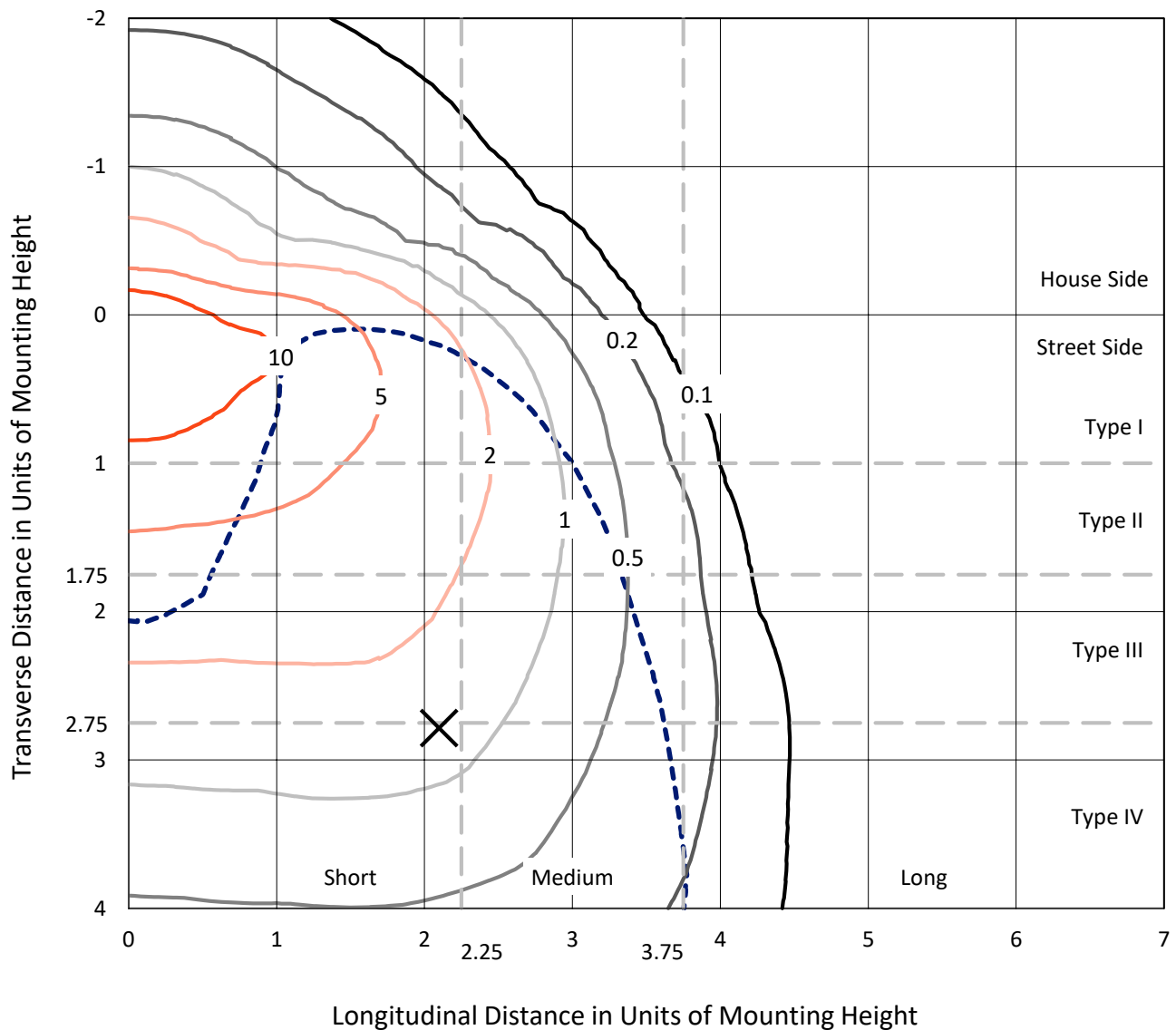


REPORT NUMBER: P320184

CATALOG NUMBER: GAN-SA0D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

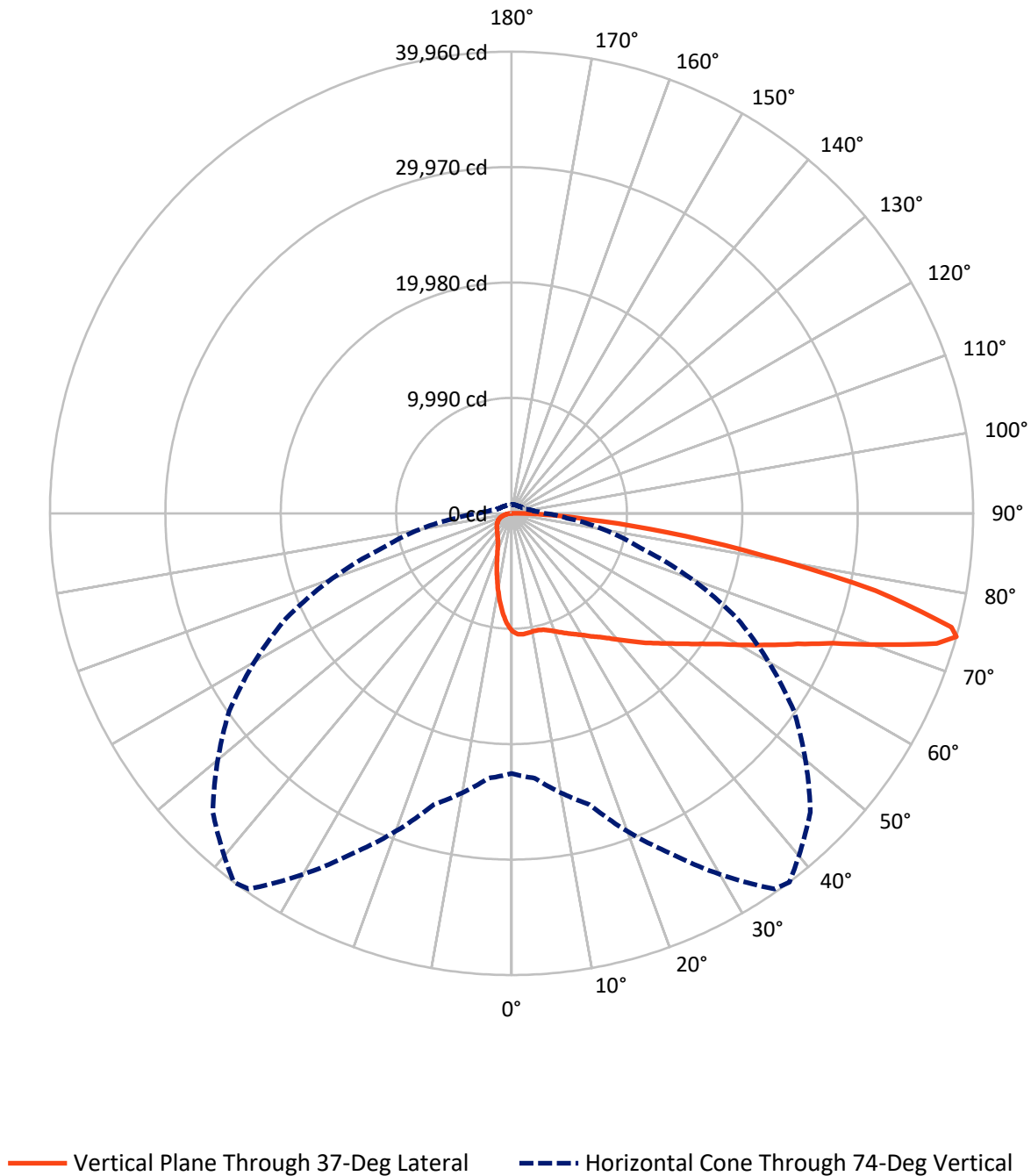
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
Type IV - Short - N/A

REPORT NUMBER: P320184
CATALOG NUMBER: GAN-SA0D-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P320184

CATALOG NUMBER: GAN-SA0D-830-U-SL4

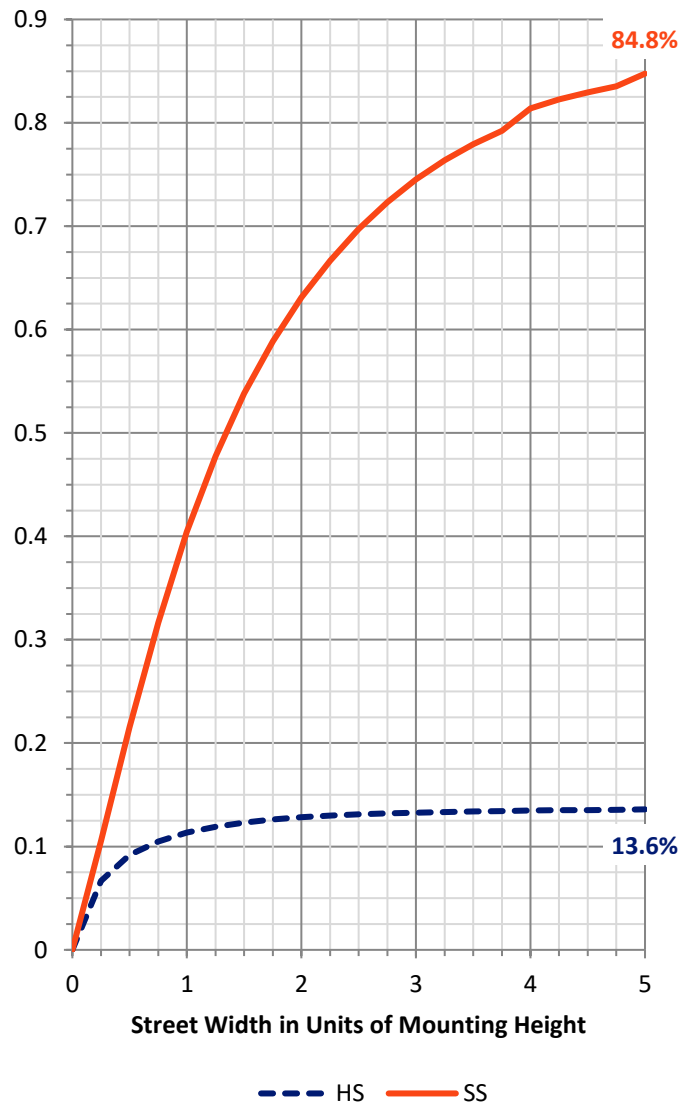
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7979.2	0.0	7979.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	50011.8	0.0	50011.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	57991.0	0.0	57991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.8	1.6
10°-20°	2306.4	4.0
20°-30°	3553.7	6.1
30°-40°	5167.6	8.9
40°-50°	7605.9	13.1
50°-60°	10681.1	18.4
60°-70°	13518.9	23.3
70°-80°	11903.9	20.5
80°-90°	2353.7	4.1
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°	57991.0	100.0
0°-180°	57991.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320184

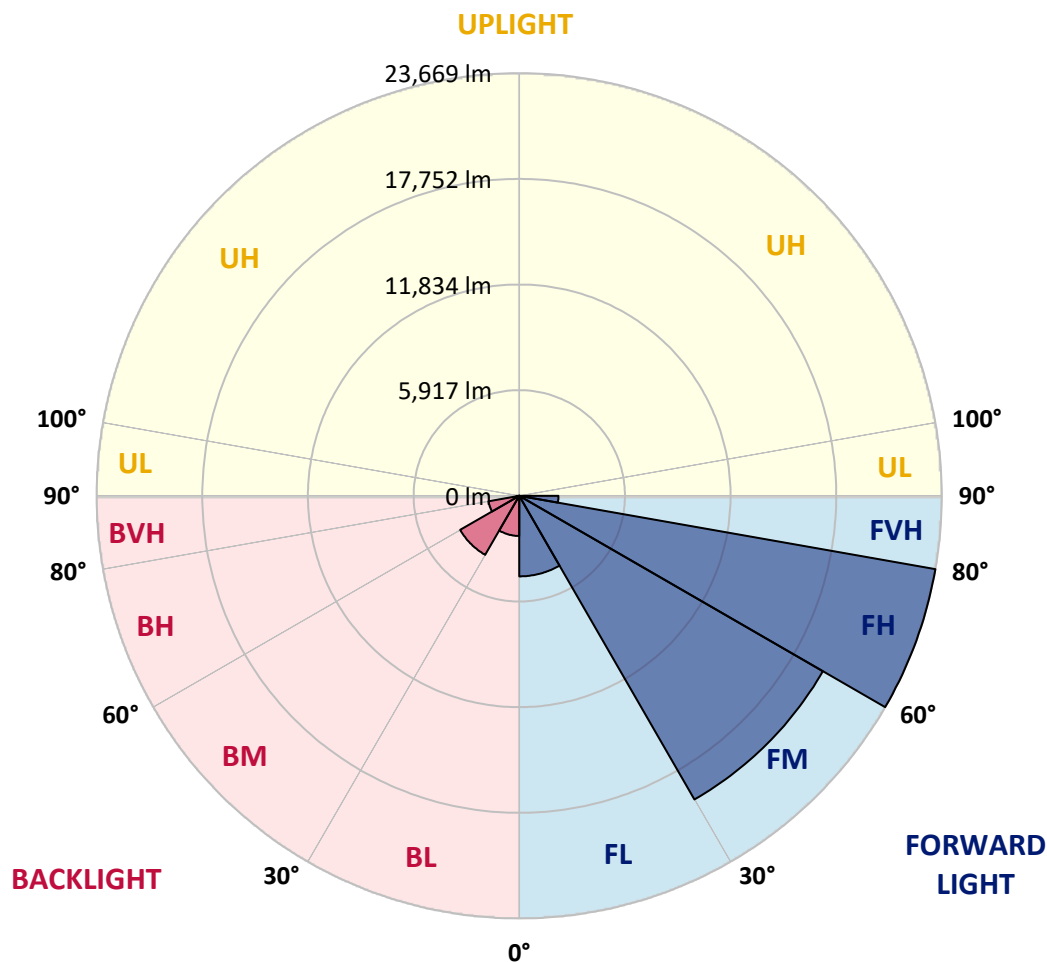
CATALOG NUMBER: GAN-SA0D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4512.4	7.8			
FM	(30°-60°)	19636.2	33.9			
FH	(60°-80°)	23669.0	40.8			G5
FVH	(80°-90°)	2194.3	3.8			G5
BL	(0°-30°)	2247.5	3.9	B3/2500		
BM	(30°-60°)	3818.3	6.6	B3/5000		
BH	(60°-80°)	1753.9	3.0	B3/2500		G3/2500
BVH	(80°-90°)	159.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P320184

CATALOG NUMBER: GAN-SA0D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8
2.5°	10567.1	10569.1	10567.1	10550.8	10511.9	10479.3	10452.7	10413.9	10328.1	10262.7	10164.7
5°	10667.2	10654.9	10646.8	10616.1	10554.8	10518.1	10467.0	10393.5	10252.5	10121.8	9962.4
7.5°	10620.2	10605.9	10587.5	10550.8	10481.3	10450.7	10379.2	10283.2	10113.6	9942.0	9713.2
10°	10475.2	10471.1	10462.9	10454.7	10395.5	10371.0	10305.6	10203.5	10036.0	9827.6	9560.0
12.5°	10313.8	10324.0	10356.7	10399.6	10373.0	10360.8	10319.9	10250.5	10078.9	9854.2	9531.4
15°	10211.7	10240.3	10328.1	10440.4	10462.9	10458.8	10448.6	10403.7	10221.9	9972.7	9596.8
17.5°	10176.9	10223.9	10391.4	10577.3	10642.7	10657.0	10661.1	10583.4	10381.2	10117.7	9664.2
20°	10240.3	10299.5	10544.6	10800.0	10904.2	10912.3	10893.9	10759.1	10532.4	10242.3	9701.0
22.5°	10432.3	10485.4	10791.8	11079.8	11198.3	11210.6	11155.4	10951.1	10691.7	10389.4	9752.0
25°	10802.0	10867.4	11173.8	11461.8	11523.1	11525.1	11445.5	11192.2	10900.1	10595.7	9862.4
27.5°	11284.1	11349.5	11625.2	11907.1	11874.5	11856.1	11747.8	11494.5	11171.7	10879.6	10058.5
30°	11821.3	11892.8	12154.3	12354.5	12276.9	12240.1	12152.3	11825.4	11549.7	11267.8	10358.7
32.5°	12377.0	12442.3	12671.1	12808.0	12709.9	12693.6	12560.8	12262.6	12042.0	11860.2	10844.9
35°	12946.9	12993.9	13218.6	13296.2	13165.5	13161.4	13124.6	12850.9	12712.0	12797.8	11551.7
37.5°	13529.1	13541.3	13733.3	13737.4	13698.6	13715.0	13753.8	13582.2	13621.0	13888.6	12470.9
40°	14047.9	14080.6	14219.5	14262.4	14329.8	14387.0	14581.1	14468.7	14769.0	15242.9	13614.9
42.5°	14432.0	14495.3	14717.9	14828.3	15046.8	15136.7	15410.4	15514.6	16119.3	16830.1	14975.3
45°	14756.8	14854.8	15212.3	15439.0	15808.8	15966.1	16358.3	16707.6	17645.2	18552.2	16407.3
47.5°	15108.1	15232.7	15680.1	16113.1	16615.7	16793.4	17506.3	18029.2	19273.3	20284.4	17757.5
50°	15624.9	15720.9	16158.1	16838.3	17465.4	17694.2	18680.9	19430.6	20927.9	21935.0	18928.0
52.5°	16346.0	16309.2	16679.0	17632.9	18474.5	18756.4	19935.1	20921.8	22605.0	23428.2	19916.7
55°	17071.2	17009.9	17269.3	18464.3	19651.2	19947.4	21316.0	22419.1	24200.4	24772.3	20674.6
57.5°	17878.1	17761.6	17980.2	19402.0	20991.2	21344.6	22862.4	24010.4	25769.2	25859.1	21156.7
60°	18709.5	18552.2	18797.3	20564.3	22692.8	23109.5	24672.2	25562.9	27248.1	26729.3	21311.9
62.5°	19436.7	19326.4	19704.3	21861.4	24610.9	25068.5	26449.4	27213.4	28706.6	27090.8	20752.2
65°	20072.0	20090.4	20744.0	23319.9	26749.7	27237.9	28488.1	29248.0	29854.7	26876.3	19442.8
67.5°	20829.8	20934.0	22049.3	25240.1	29442.0	29977.2	31454.1	31466.4	30496.1	25618.0	16864.9
70°	21935.0	22149.4	23844.9	27903.8	33270.1	34005.5	35145.4	32769.6	29595.2	22206.6	13269.6
72.5°	22915.5	23315.8	25754.9	30951.6	37935.7	38493.4	37304.5	32017.9	25830.5	16642.2	8267.0
74°	22517.1	23013.5	26102.1	32453.0	39692.5	39960.1	36575.3	29824.0	21536.6	11525.1	4804.5
75°	21659.2	22198.5	25595.5	32438.7	39469.8	39320.7	34814.4	27317.6	17737.1	7860.5	3196.9
77.5°	17479.7	18049.7	21567.3	27801.7	32363.1	32222.2	26743.6	18325.4	7768.5	2577.9	1624.0
80°	10162.6	10597.7	13388.1	17655.4	21822.6	22077.9	17588.0	9067.7	3055.9	1448.3	1101.0
82.5°	4514.5	4814.7	6467.3	9012.6	13169.5	13498.4	9210.7	4751.4	1887.5	880.4	661.8
85°	2962.0	3184.6	3926.1	4291.8	6271.2	6495.9	4508.3	3699.4	1246.1	484.1	486.2
87.5°	2130.6	2345.1	2917.0	2547.3	2878.2	2725.0	2453.3	3423.6	500.5	275.8	163.4
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: P320184

CATALOG NUMBER: GAN-SA0D-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8	10217.8
2.5°	10121.8	10089.1	10015.6	9876.7	9799.0	9733.7	9625.4	9562.1	9533.5	9531.4	9543.7
5°	9870.5	9794.9	9605.0	9372.1	9186.2	9016.7	8806.3	8679.6	8589.7	8536.6	8550.9
7.5°	9578.4	9459.9	9161.7	8789.9	8491.7	8162.8	7838.0	7643.9	7492.8	7380.4	7400.8
10°	9378.2	9214.8	8779.7	8244.5	7748.1	7270.1	6822.8	6555.2	6342.7	6179.3	6191.5
12.5°	9310.8	9090.2	8487.6	7772.6	7076.1	6422.4	5838.2	5427.6	5209.0	5023.1	5037.4
15°	9321.0	9024.8	8242.5	7347.7	6471.4	5648.2	4939.3	4459.3	4163.1	4034.4	4036.5
17.5°	9329.2	8949.2	7985.1	6892.2	5872.9	4925.0	4154.9	3668.8	3388.9	3270.4	3272.5
20°	9302.6	8826.7	7666.4	6369.3	5247.8	4261.2	3515.6	3102.9	2890.5	2798.6	2798.6
22.5°	9267.9	8681.6	7306.9	5844.3	4630.9	3685.1	3058.0	2743.4	2620.8	2559.6	2557.5
25°	9284.3	8573.4	6939.2	5305.0	4063.0	3225.5	2753.6	2545.3	2463.5	2424.7	2422.7
27.5°	9372.1	8522.3	6600.1	4767.8	3566.6	2880.3	2549.3	2402.3	2349.2	2324.6	2324.6
30°	9531.4	8522.3	6246.7	4310.2	3154.0	2624.9	2392.0	2292.0	2255.2	2238.8	2238.8
32.5°	9809.2	8569.3	5905.6	3856.7	2825.1	2424.7	2261.3	2193.9	2165.3	2157.1	2157.1
35°	10287.2	8728.6	5572.6	3427.7	2559.6	2261.3	2136.7	2097.9	2077.5	2075.4	2081.6
37.5°	10959.3	9053.4	5260.1	3111.1	2371.6	2128.5	2032.5	2001.9	1989.6	1999.8	2008.0
40°	11805.0	9494.7	4976.1	2825.1	2228.6	2022.3	1936.5	1916.1	1910.0	1924.3	1936.5
42.5°	12826.4	10091.1	4743.2	2618.8	2118.3	1932.4	1854.8	1830.3	1824.2	1840.5	1856.9
45°	13931.5	10732.6	4579.8	2465.6	2032.5	1865.0	1783.3	1756.8	1744.5	1752.7	1771.1
47.5°	14936.5	11339.3	4514.5	2357.3	1950.8	1807.8	1720.0	1687.3	1666.9	1662.8	1677.1
50°	15784.3	11790.7	4545.1	2292.0	1885.4	1744.5	1658.7	1621.9	1591.3	1572.9	1583.1
52.5°	16401.2	12074.6	4573.7	2263.4	1834.4	1675.0	1591.3	1556.6	1515.7	1485.1	1485.1
55°	16848.5	12140.0	4510.4	2240.9	1795.6	1599.5	1515.7	1483.0	1442.2	1407.4	1403.4
57.5°	17024.2	11956.2	4275.5	2208.2	1769.0	1528.0	1436.0	1411.5	1376.8	1336.0	1333.9
60°	16787.2	11388.3	3822.0	2138.7	1734.3	1468.7	1356.4	1340.0	1323.7	1284.9	1282.8
62.5°	15835.3	10142.2	3235.7	1997.8	1664.8	1405.4	1282.8	1291.0	1293.1	1266.5	1262.4
65°	14109.2	8430.4	2663.7	1814.0	1560.7	1329.8	1207.3	1246.1	1268.5	1264.5	1258.3
67.5°	11600.7	6561.3	2257.2	1619.9	1423.8	1225.6	1125.6	1170.5	1188.9	1203.2	1199.1
70°	8610.2	4626.8	1867.1	1415.6	1258.3	1103.1	1019.3	1041.8	1029.5	1045.9	1052.0
72.5°	4800.4	2776.1	1521.8	1211.3	1086.7	960.1	900.8	896.8	870.2	870.2	870.2
74°	2880.3	2036.6	1338.0	1084.7	982.6	866.1	815.1	796.7	772.2	774.2	772.2
75°	2316.5	1750.6	1227.7	1000.9	909.0	811.0	759.9	735.4	717.0	717.0	715.0
77.5°	1462.6	1329.8	988.7	796.7	727.2	668.0	633.2	600.6	600.6	598.5	596.5
80°	1105.1	1058.1	770.1	602.6	557.7	512.7	490.3	476.0	476.0	482.1	480.0
82.5°	757.9	796.7	541.3	420.8	398.3	365.7	361.6	363.6	357.5	349.3	347.3
85°	553.6	598.5	365.7	265.6	243.1	222.7	239.0	247.2	237.0	218.6	210.4
87.5°	212.4	392.2	196.1	110.3	102.1	87.8	102.1	106.2	114.4	89.9	91.9
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)