

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: P317910

Luminaire Tested: **GAN-SA6A-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22645 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

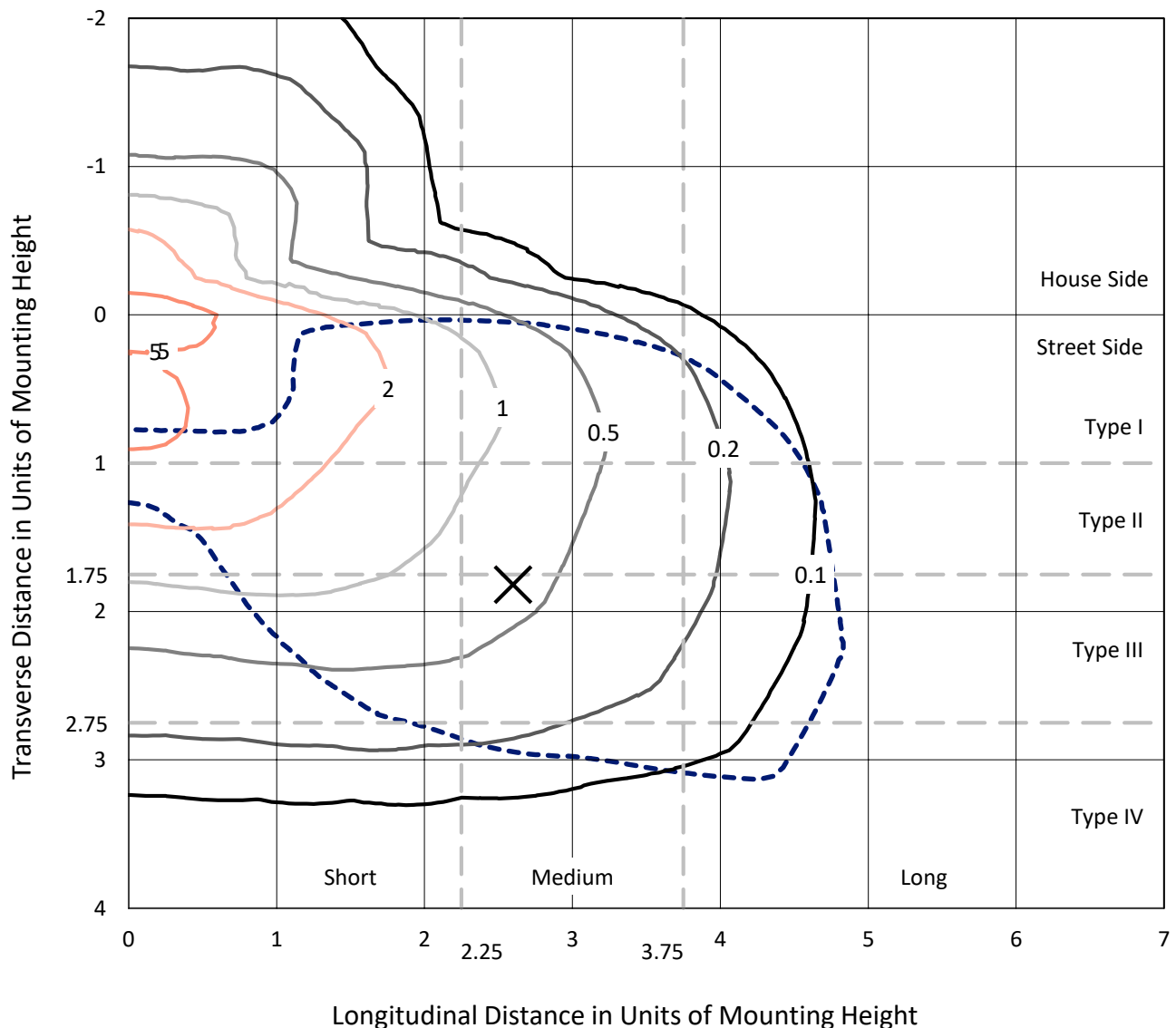
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317910
 CATALOG NUMBER: GAN-SA6A-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

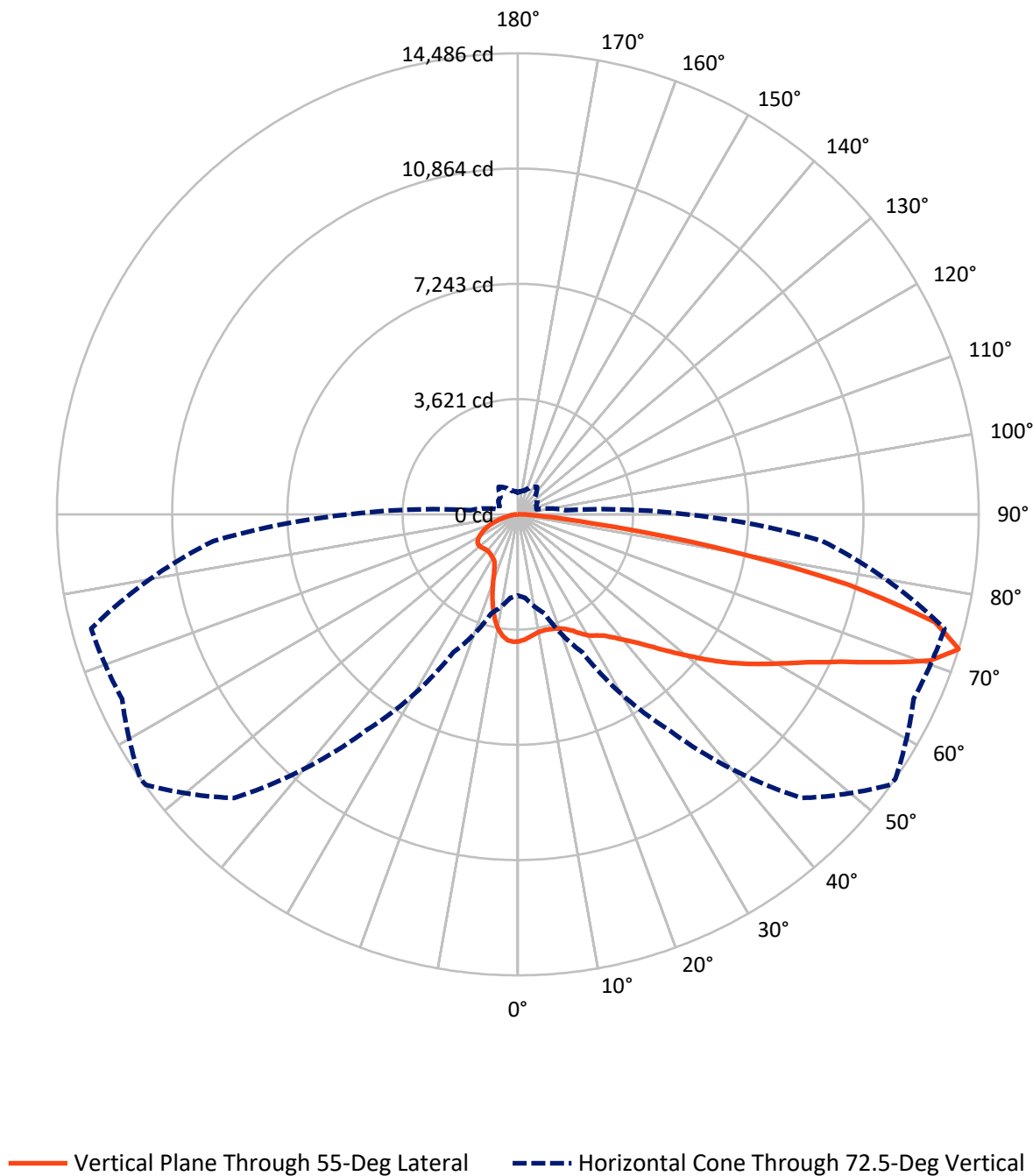
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317910
CATALOG NUMBER: GAN-SA6A-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317910

CATALOG NUMBER: GAN-SA6A-830-U-T3R

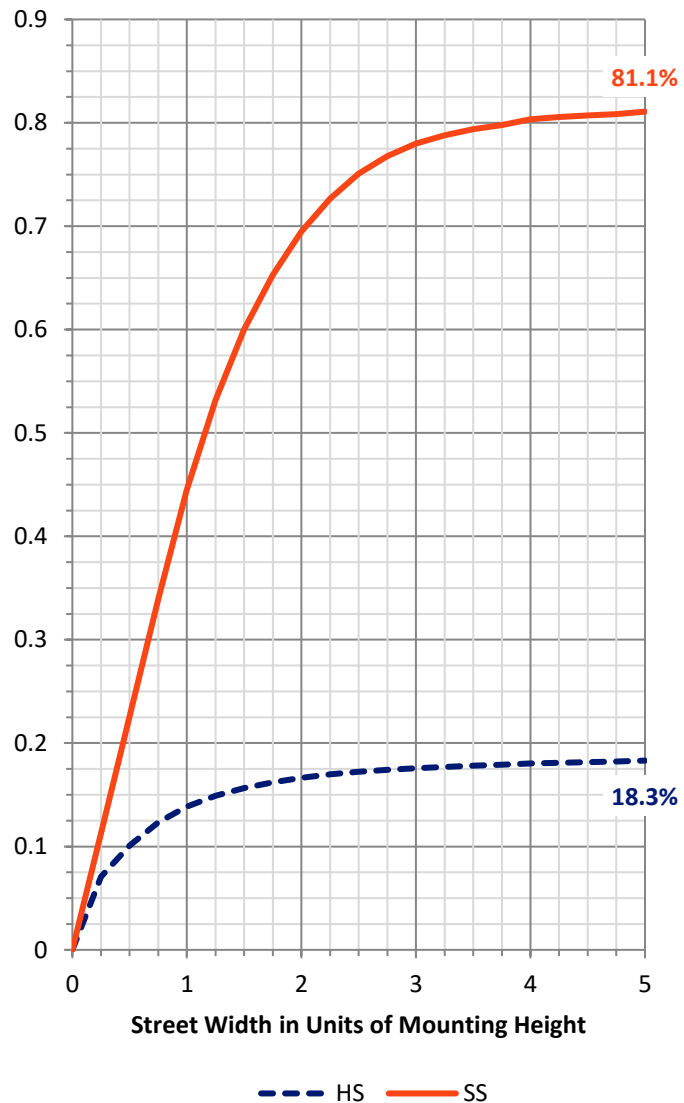
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4209.0	0.0	4209.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18436.0	0.0	18436.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	22645.0	0.0	22645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	1.6
10°-20°	962.2	4.2
20°-30°	1586.5	7.0
30°-40°	2346.8	10.4
40°-50°	3275.6	14.5
50°-60°	4265.0	18.8
60°-70°	5241.5	23.1
70°-80°	4108.7	18.1
80°-90°	497.2	2.2
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°	22645.0	100.0
0°-180°	22645.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317910

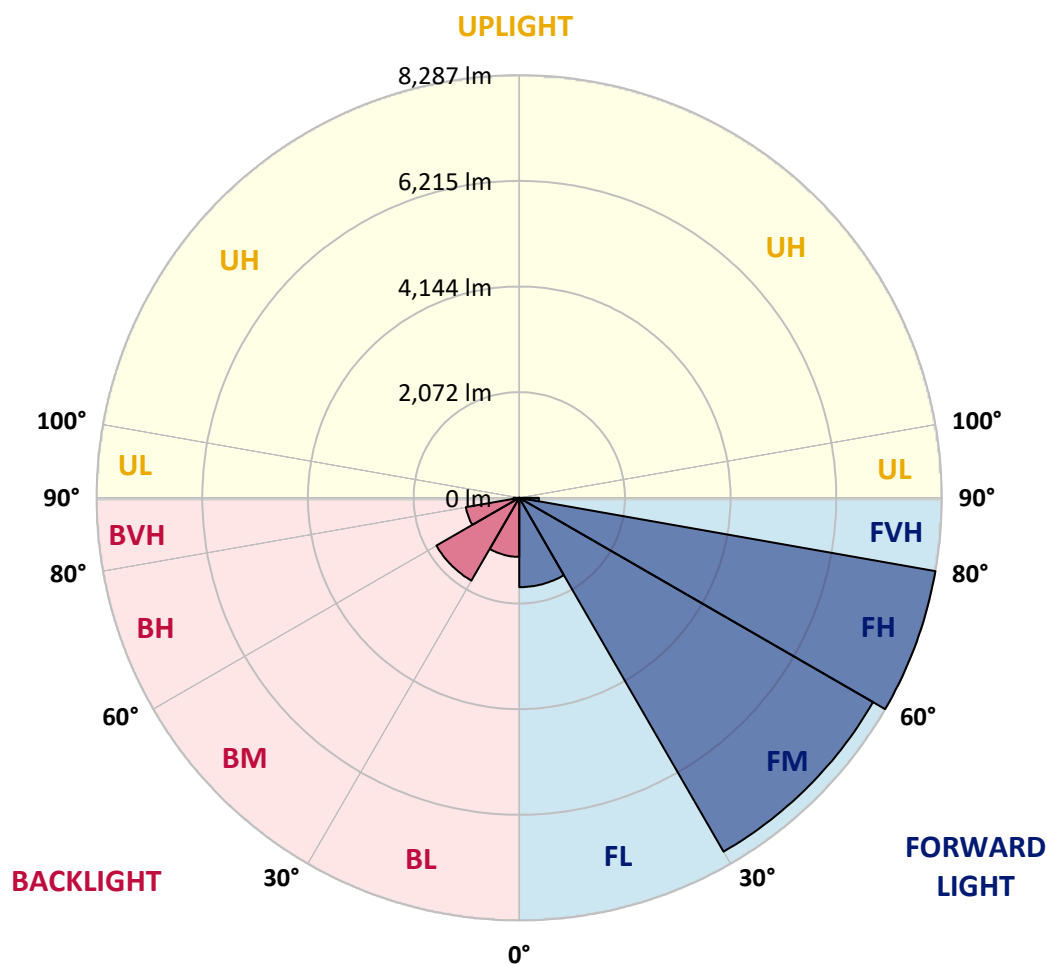
CATALOG NUMBER: GAN-SA6A-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1752.1	7.7			
FM	(30°-60°)	8012.3	35.4			
FH	(60°-80°)	8287.3	36.6			G4/12000
FVH	(80°-90°)	384.4	1.7			G3/500
BL	(0°-30°)	1158.1	5.1	B3/2500		
BM	(30°-60°)	1875.2	8.3	B2/2500		
BH	(60°-80°)	1063.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	112.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





REPORT NUMBER: P317910

CATALOG NUMBER: GAN-SA6A-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1
2.5°	3864.1	3854.9	3866.4	3882.4	3900.0	3923.7	3937.5	3943.6	3967.3	3976.5	3996.4
5°	3685.1	3680.5	3699.6	3727.2	3766.2	3821.2	3865.6	3874.0	3936.7	3981.1	4021.6
7.5°	3555.1	3555.1	3577.2	3610.1	3653.7	3727.9	3790.6	3802.1	3908.4	4004.0	4079.0
10°	3451.8	3455.6	3481.6	3520.6	3571.9	3650.7	3734.0	3747.0	3900.8	4057.6	4176.9
12.5°	3383.0	3392.1	3415.9	3451.0	3514.5	3610.1	3715.7	3733.3	3916.8	4134.1	4294.7
15°	3426.6	3441.9	3444.2	3458.7	3493.9	3597.9	3726.4	3744.7	3951.3	4212.1	4428.5
17.5°	3617.8	3623.1	3599.4	3568.8	3552.0	3618.5	3758.5	3777.6	3992.6	4289.3	4557.0
20°	3908.4	3905.4	3854.1	3771.5	3685.9	3696.6	3811.3	3831.2	4048.4	4357.4	4685.5
22.5°	4275.6	4264.9	4186.1	4033.9	3887.8	3826.6	3903.8	3920.7	4132.5	4454.5	4823.2
25°	4720.7	4697.0	4593.0	4388.8	4173.8	4016.3	4043.0	4059.1	4254.9	4563.1	4949.4
27.5°	5190.3	5166.6	5034.3	4787.2	4501.2	4255.7	4235.0	4248.8	4394.1	4643.5	5042.7
30°	5681.4	5656.1	5535.3	5258.4	4848.4	4503.5	4414.0	4419.4	4492.0	4687.1	5119.2
32.5°	6174.7	6151.0	6015.6	5694.4	5225.5	4769.7	4543.3	4536.4	4550.9	4732.2	5205.6
35°	6674.9	6684.1	6525.8	6170.1	5643.1	5065.7	4696.2	4681.7	4649.6	4824.7	5328.0
37.5°	7210.3	7204.2	6999.2	6627.5	6079.9	5386.9	4915.7	4913.5	4802.5	4999.9	5520.0
40°	7568.3	7572.1	7447.4	7095.6	6521.2	5742.6	5197.2	5191.9	5046.5	5262.2	5771.6
42.5°	7708.2	7733.5	7765.6	7542.3	6983.2	6154.8	5533.0	5525.3	5386.9	5638.5	6067.6
45°	7718.2	7768.7	7967.5	7939.2	7451.3	6626.7	5962.1	5940.7	5841.2	6138.8	6421.0
47.5°	7632.5	7684.5	8015.0	8175.6	7869.6	7124.7	6463.8	6447.0	6361.3	6764.4	6803.4
50°	7445.1	7494.8	7917.0	8291.1	8213.8	7603.5	7042.1	6997.7	6951.8	7487.2	7240.9
52.5°	7094.1	7189.7	7786.3	8318.6	8419.6	8028.7	7650.1	7621.0	7646.3	8249.8	7679.2
55°	6262.7	6369.7	7449.0	8295.7	8571.8	8385.9	8258.2	8256.6	8387.4	9049.8	8149.6
57.5°	5796.9	5872.6	6762.1	8256.6	8752.3	8740.8	8860.1	8874.7	9129.4	9921.0	8642.1
60°	5533.8	5613.3	6414.1	8112.1	9032.2	9199.7	9474.3	9503.4	9883.5	10885.5	9234.9
62.5°	5294.4	5381.5	6198.4	7817.6	9361.9	9856.0	10210.1	10236.1	10682.0	11876.7	9807.8
65°	4885.2	4983.8	5882.5	7624.1	9661.7	10711.8	11145.5	11163.1	11599.1	12915.4	10246.0
67.5°	4306.9	4397.2	5286.7	7196.6	9883.5	11751.3	12389.2	12399.1	12508.5	13648.9	10470.1
70°	3631.5	3666.0	4437.7	6313.9	9621.2	12723.4	13752.2	13754.4	13337.6	14118.5	10433.4
72.5°	2551.6	2632.6	3221.6	4779.6	8268.1	12604.9	14459.6	14485.7	13723.1	13881.4	9599.7
75°	1564.9	1650.6	2020.8	2896.5	5245.4	9913.3	13359.8	13540.3	13000.3	12376.9	7842.1
77.5°	1046.3	1078.5	1318.6	1688.8	2376.4	5703.5	10271.3	10610.9	10799.8	9026.1	5015.2
80°	583.6	644.8	874.2	1049.4	1057.0	2266.3	6158.6	6238.2	6008.7	3594.1	1547.3
82.5°	309.0	342.7	583.6	616.5	576.7	758.7	2295.3	2297.6	1919.8	963.7	459.7
85°	239.4	267.7	400.0	376.3	294.5	336.5	757.2	798.5	653.2	394.7	149.9
87.5°	119.3	148.4	271.5	238.6	115.5	96.4	270.8	289.1	257.8	154.5	54.3
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: P317910

CATALOG NUMBER: GAN-SA6A-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1
2.5°	4004.0	4010.9	4019.3	4010.2	4007.1	3994.9	3974.2	3969.6	3958.9	3959.7	3965.8
5°	4039.2	4050.7	4046.1	4010.9	3968.9	3910.0	3848.8	3796.8	3762.3	3760.0	3757.7
7.5°	4106.5	4114.2	4078.2	3978.0	3860.2	3724.1	3595.6	3483.2	3415.1	3398.3	3394.4
10°	4212.1	4210.5	4111.9	3910.0	3675.1	3431.9	3225.4	3069.4	2978.4	2951.6	2944.7
12.5°	4329.9	4312.3	4123.4	3786.0	3413.6	3076.3	2814.7	2641.1	2546.2	2515.6	2508.0
15°	4451.5	4407.9	4095.1	3601.0	3092.3	2693.1	2418.5	2257.9	2206.6	2189.8	2186.7
17.5°	4564.7	4480.5	4014.0	3350.1	2726.0	2311.4	2097.2	2033.0	2045.2	2067.4	2068.2
20°	4675.6	4529.5	3884.0	3033.4	2339.7	1997.0	1924.4	1971.8	2029.9	2075.1	2081.2
22.5°	4785.0	4563.9	3716.4	2667.8	1994.0	1820.4	1871.6	1958.0	2024.6	2073.5	2081.9
25°	4876.7	4572.3	3485.5	2277.7	1753.8	1753.8	1846.4	1928.2	1994.0	2042.2	2050.6
27.5°	4910.4	4515.7	3159.6	1916.7	1633.0	1723.2	1811.2	1879.3	1935.1	1986.3	1995.5
30°	4923.4	4410.9	2783.3	1626.9	1583.3	1690.3	1763.8	1821.9	1874.7	1922.9	1931.3
32.5°	4925.7	4284.7	2384.1	1462.4	1548.8	1655.9	1704.9	1756.1	1812.7	1831.8	1834.9
35°	4940.2	4135.6	1963.4	1378.3	1516.7	1623.8	1662.8	1699.5	1607.7	1614.6	1620.7
37.5°	4982.3	3988.0	1611.6	1330.9	1496.1	1607.0	1653.6	1520.5	1448.6	1431.8	1429.5
40°	5061.1	3830.4	1350.7	1292.6	1488.4	1615.4	1594.7	1419.6	1295.7	1203.1	1189.4
42.5°	5170.4	3660.6	1184.0	1267.4	1493.8	1655.9	1512.9	1322.4	1116.7	1057.0	1049.4
45°	5293.6	3482.4	1093.7	1249.8	1512.1	1687.3	1496.1	1193.2	1033.3	988.2	984.4
47.5°	5412.9	3264.4	1047.1	1242.1	1537.4	1662.0	1424.9	1153.4	993.6	969.8	972.1
50°	5549.8	3067.8	1018.8	1233.7	1559.5	1646.0	1344.6	1132.8	978.3	1007.3	1037.9
52.5°	5665.3	2864.4	993.6	1216.9	1568.0	1617.7	1324.0	1136.6	978.3	1034.1	1063.2
55°	5802.2	2710.7	964.5	1181.7	1551.9	1537.4	1309.4	1159.5	989.7	954.5	957.6
57.5°	5978.9	2660.2	932.4	1126.6	1498.4	1420.3	1302.6	1181.7	982.8	960.7	968.3
60°	6223.7	2713.7	919.4	1054.7	1415.0	1328.6	1303.3	1170.2	934.7	896.4	897.2
62.5°	6456.9	2773.4	918.6	1009.6	1312.5	1246.7	1285.7	1132.8	910.2	888.0	896.4
65°	6533.4	2713.0	881.9	959.1	1197.0	1148.8	1253.6	1093.0	891.8	858.2	856.6
67.5°	6430.9	2525.6	807.7	877.3	1064.7	1034.9	1211.5	1045.6	862.8	835.2	830.6
70°	6126.5	2107.2	715.9	769.4	914.0	906.4	1145.0	990.5	823.8	800.0	780.2
72.5°	5307.4	1501.4	603.5	640.2	744.2	768.7	1053.2	918.6	768.7	717.4	686.8
75°	4358.9	1111.3	495.6	503.3	565.2	631.8	927.0	834.5	703.7	616.5	592.8
77.5°	2669.4	680.0	394.7	397.7	405.4	504.0	763.3	740.4	621.1	514.0	497.2
80°	864.3	371.0	285.3	299.8	276.9	369.4	590.5	630.2	533.1	429.9	411.5
82.5°	328.9	216.5	192.7	202.7	192.0	247.8	430.6	504.8	436.7	353.4	287.6
85°	159.1	122.4	114.0	127.7	118.6	127.0	275.3	371.7	331.2	230.2	214.2
87.5°	56.6	54.3	43.6	58.9	50.5	45.1	84.1	187.4	218.7	158.3	141.5
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)