

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: P319531

Luminaire Tested: **GAN-SA7C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38946 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

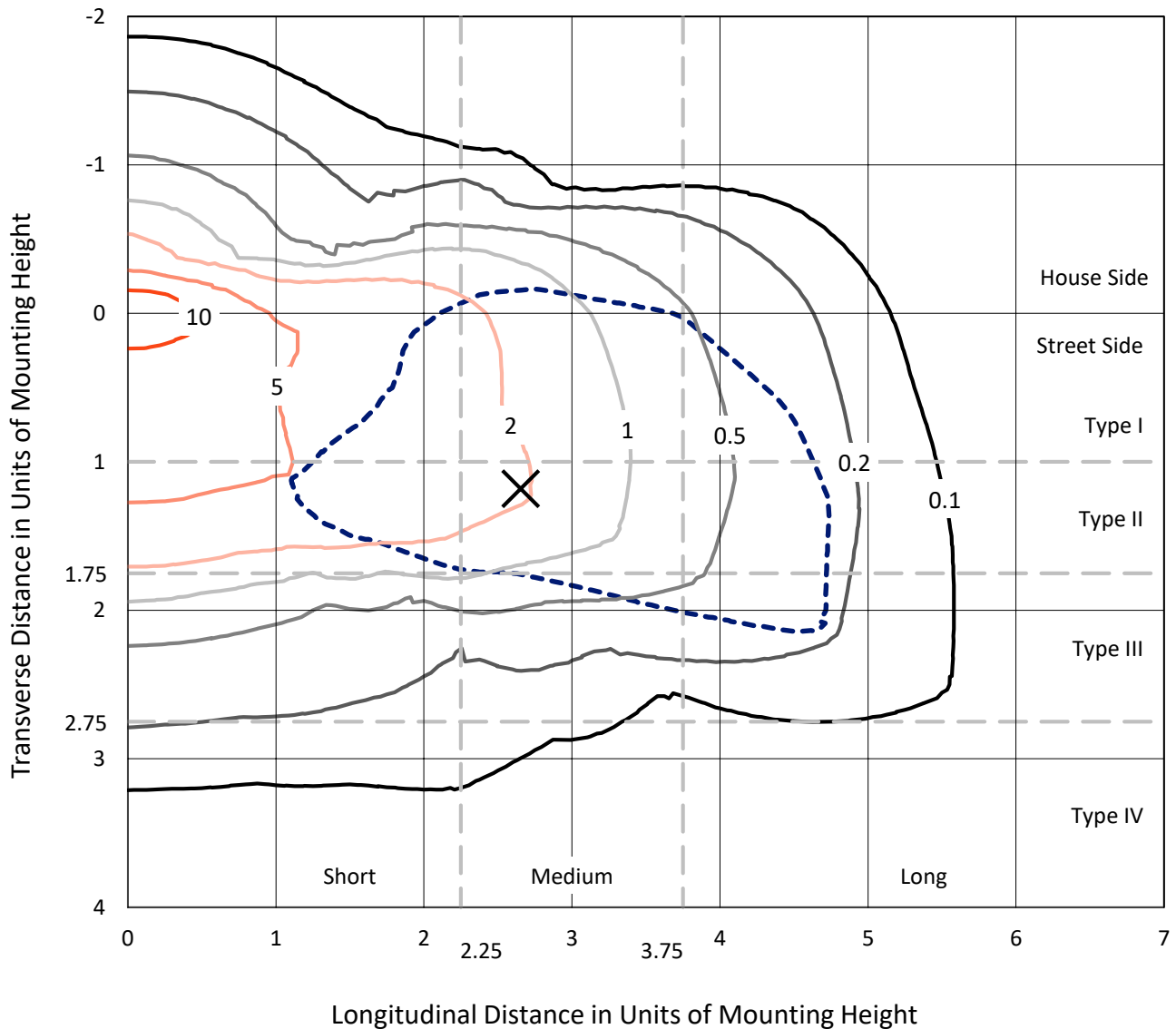
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319531
 CATALOG NUMBER: GAN-SA7C-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

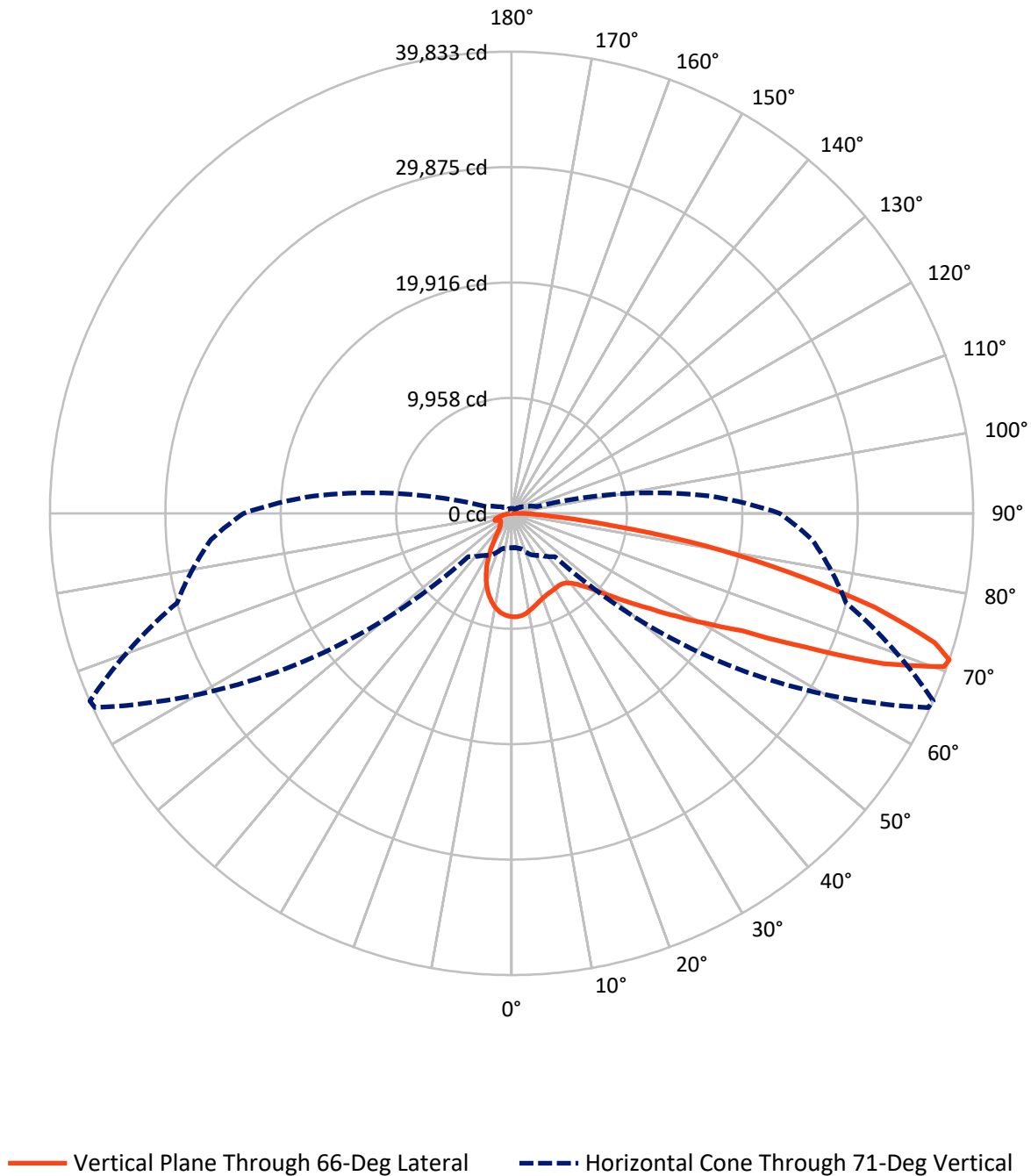
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P319531
CATALOG NUMBER: GAN-SA7C-830-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P319531

CATALOG NUMBER: GAN-SA7C-830-U-SL2

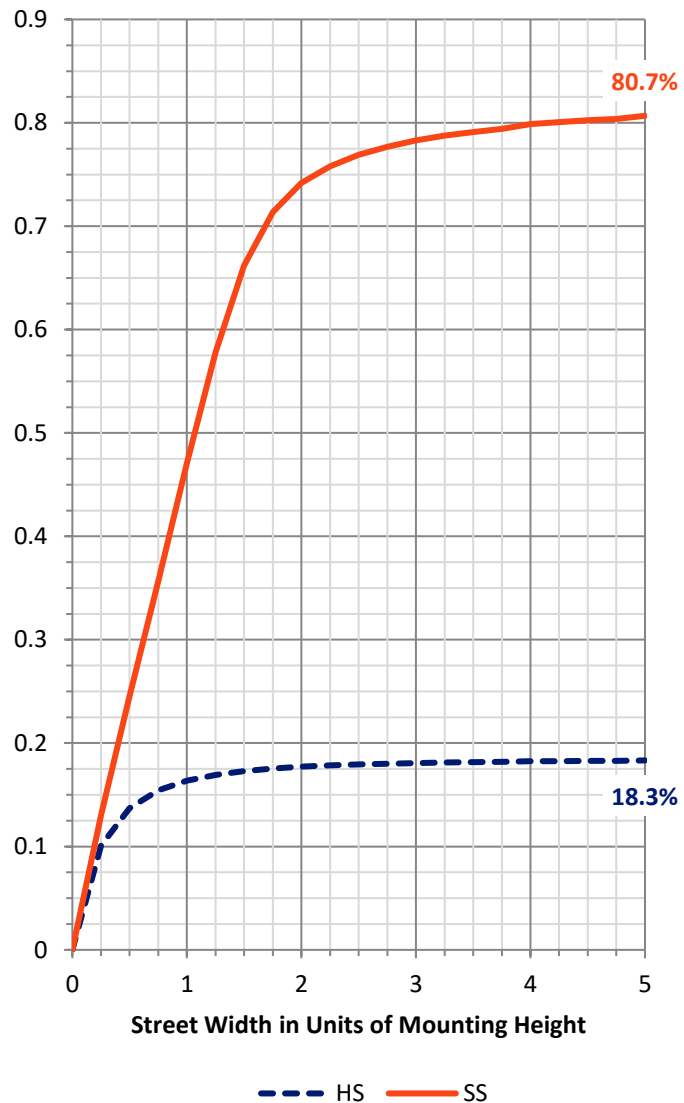
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7217.8	0.0	7217.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	31728.2	0.0	31728.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	38946.0	0.0	38946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.3	2.0
10°-20°	1883.6	4.8
20°-30°	2530.1	6.5
30°-40°	3328.3	8.5
40°-50°	4841.8	12.4
50°-60°	7563.4	19.4
60°-70°	9474.4	24.3
70°-80°	7226.8	18.6
80°-90°	1312.3	3.4
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°	38946.0	100.0
0°-180°	38946.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319531

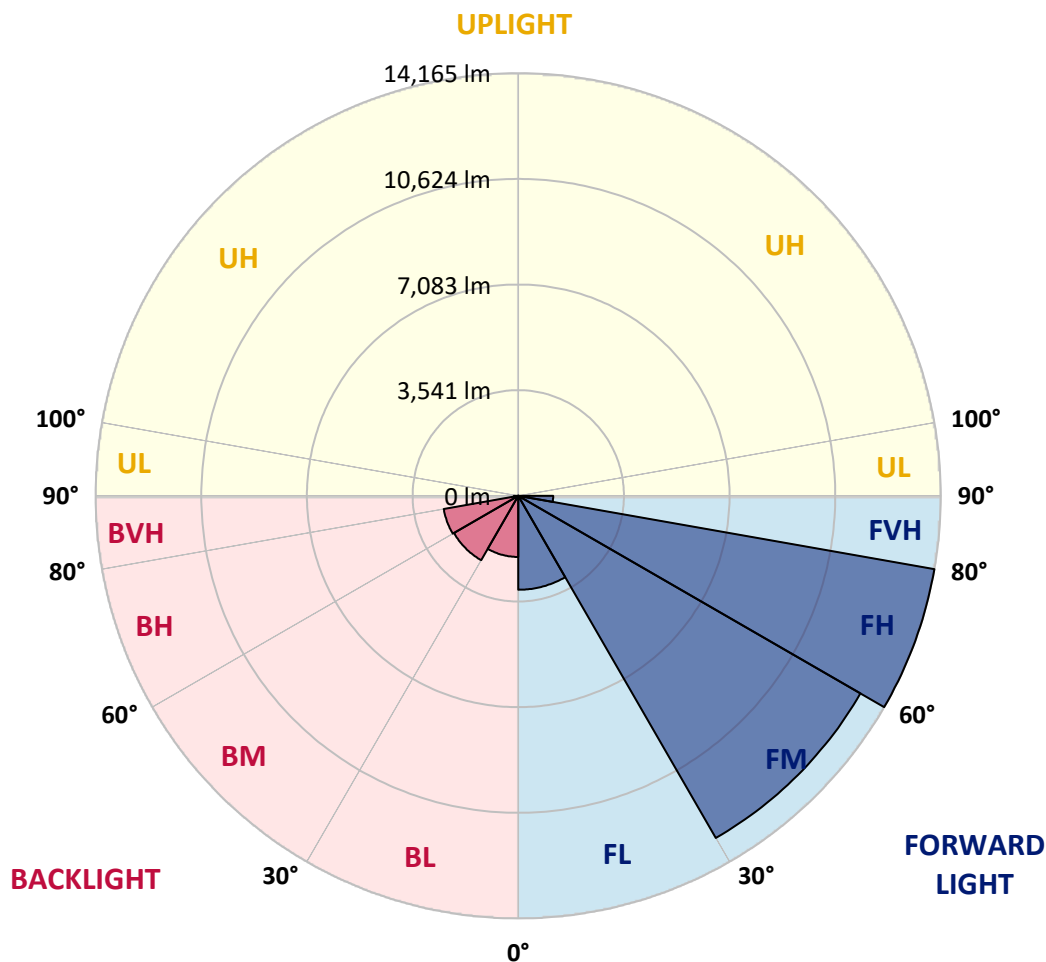
CATALOG NUMBER: GAN-SA7C-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3149.3	8.1			
FM	(30°-60°)	13243.6	34.0			
FH	(60°-80°)	14165.1	36.4			G5
FVH	(80°-90°)	1170.3	3.0			G5
BL	(0°-30°)	2049.7	5.3	B3/2500		
BM	(30°-60°)	2489.9	6.4	B2/2500		
BH	(60°-80°)	2536.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	142.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





REPORT NUMBER: P319531

CATALOG NUMBER: GAN-SA7C-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8
2.5°	8756.4	8742.9	8783.3	8825.0	8841.1	8868.0	8908.3	8931.2	8929.8	8933.9	8920.4
5°	8175.5	8158.0	8238.7	8304.6	8431.0	8573.5	8747.0	8870.7	8873.4	8943.3	8962.1
7.5°	7625.5	7613.4	7706.2	7812.4	7959.0	8176.8	8457.9	8724.1	8740.2	8929.8	8995.7
10°	7184.5	7181.8	7271.9	7387.5	7558.3	7801.7	8124.4	8514.3	8538.5	8865.3	9001.1
12.5°	6840.3	6845.6	6923.6	7055.4	7235.6	7489.7	7839.3	8279.0	8318.0	8763.1	8970.2
15°	6586.1	6607.6	6670.8	6803.9	6981.4	7239.6	7598.6	8061.2	8120.4	8648.8	8952.7
17.5°	6440.9	6465.1	6509.5	6619.7	6786.5	7035.2	7375.4	7882.4	7936.1	8561.4	8954.0
20°	6397.9	6418.0	6443.6	6510.8	6652.0	6877.9	7199.3	7721.0	7778.8	8491.5	8967.5
22.5°	6482.6	6497.4	6500.1	6494.7	6580.7	6765.0	7071.5	7602.7	7664.5	8445.8	8976.9
25°	6664.1	6684.3	6669.5	6619.7	6591.5	6704.4	7005.6	7524.7	7586.5	8412.2	8958.1
27.5°	6937.1	6939.8	6927.7	6863.1	6730.0	6711.2	6985.5	7479.0	7538.1	8373.2	8919.1
30°	7308.2	7325.7	7304.2	7216.8	6998.9	6818.7	7009.7	7434.6	7488.4	8323.4	8855.9
32.5°	7742.5	7785.5	7784.2	7692.8	7380.8	7059.4	7109.2	7407.7	7449.4	8271.0	8779.2
35°	8193.0	8252.1	8362.4	8323.4	7937.5	7440.0	7300.1	7450.7	7479.0	8264.2	8725.5
37.5°	8660.9	8720.1	8947.3	9052.2	8600.4	7984.6	7601.3	7602.7	7616.1	8346.3	8721.4
40°	9150.4	9213.6	9555.1	9828.1	9459.6	8674.4	8086.7	7920.0	7905.2	8548.0	8800.8
42.5°	9836.1	9892.6	10302.7	10651.0	10413.0	9557.8	8757.7	8409.5	8378.5	8943.3	9054.9
45°	10703.4	10751.8	11187.5	11560.0	11437.6	10566.3	9600.8	9083.1	9077.8	9602.2	9569.9
47.5°	11734.8	11772.4	12163.7	12524.1	12568.5	11726.7	10660.4	10122.6	10035.1	10505.8	10367.3
50°	12809.2	12850.9	13117.1	13504.4	13833.8	13279.8	12023.9	11395.9	11279.0	11698.5	11496.8
52.5°	13520.5	13575.6	13806.9	14297.7	15256.4	14982.1	13636.1	12939.6	12762.1	13144.0	12989.4
55°	13203.2	13326.9	13680.5	14467.1	16394.0	17582.7	15624.9	14740.1	14539.7	14857.1	14765.6
57.5°	11760.3	11929.8	12412.5	13626.7	16554.0	19874.0	18631.5	16860.6	16719.4	16628.0	16669.7
60°	9123.5	9286.2	9884.5	11467.2	15439.3	21546.7	23156.3	19474.6	19270.2	18405.6	18443.3
62.5°	6457.0	6375.0	6785.1	7942.9	12545.6	21743.0	28305.0	22970.7	22298.4	20282.8	20117.4
65°	4924.1	4905.3	5089.5	5457.9	7598.6	19393.9	31372.1	28846.8	27796.7	22490.7	22100.7
67.5°	4046.1	4012.4	4194.0	4730.5	4893.2	12512.0	31439.3	35664.2	34632.9	25239.1	24394.7
70°	3326.7	3289.0	3458.4	4150.9	4522.1	6345.4	26460.1	39656.5	39601.4	28719.1	26126.6
71°	2982.4	2955.5	3158.6	3927.7	4442.7	5288.5	22845.7	39667.3	39832.7	29897.0	26024.4
72.5°	2428.4	2437.9	2653.0	3496.1	4383.6	4670.0	16790.7	37818.4	38168.0	31019.8	25095.3
75°	1613.6	1621.7	1904.0	2689.3	4250.4	4569.1	9228.4	31733.8	32376.6	30347.5	22899.4
77.5°	1083.8	1081.1	1273.4	1844.9	3703.2	4569.1	5410.9	23734.5	24440.4	24147.3	17654.0
80°	746.3	740.9	876.7	1273.4	2803.6	4624.3	4183.2	16633.4	16847.2	13040.4	7175.1
82.5°	457.2	461.2	572.8	899.6	1908.1	4161.7	3949.2	9069.7	8837.1	3657.5	1792.4
85°	262.2	260.9	365.7	609.1	1225.0	3512.2	3851.1	3903.5	3580.8	1101.3	648.1
87.5°	94.1	100.8	196.3	337.5	701.9	2445.9	3267.5	2030.4	1830.1	497.5	293.1
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: P319531

CATALOG NUMBER: GAN-SA7C-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8	8921.8
2.5°	8911.0	8919.1	8909.7	8855.9	8810.2	8736.2	8694.5	8636.7	8619.2	8611.2	8632.7
5°	8944.6	8947.3	8868.0	8726.8	8568.1	8381.2	8246.8	8081.4	8003.4	7969.8	7991.3
7.5°	8975.6	8963.5	8790.0	8519.7	8226.6	7901.2	7612.1	7347.2	7192.6	7129.4	7134.7
10°	8979.6	8928.5	8650.2	8232.0	7777.5	7300.1	6856.4	6447.6	6189.4	6021.4	6072.5
12.5°	8937.9	8851.9	8444.4	7859.5	7228.9	6578.0	5978.3	5365.2	4996.7	4826.0	4831.3
15°	8905.6	8749.7	8191.6	7421.1	6574.0	5712.1	4893.2	4172.5	3779.8	3605.0	3523.0
17.5°	8878.7	8639.4	7898.5	6927.7	5800.8	4707.6	3723.3	3080.6	2865.5	2814.4	2792.8
20°	8841.1	8522.4	7571.7	6356.2	4920.1	3583.5	2718.9	2401.6	2402.9	2462.1	2470.1
22.5°	8788.7	8389.3	7223.5	5714.8	3974.8	2610.0	2131.3	2039.8	2132.6	2245.6	2265.7
25°	8710.7	8232.0	6836.2	5006.1	3030.8	2006.2	1820.7	1816.6	1929.6	2047.9	2065.4
27.5°	8600.4	8026.2	6405.9	4245.1	2233.5	1705.0	1631.1	1659.3	1742.7	1828.7	1835.5
30°	8452.5	7786.9	5931.3	3442.3	1750.7	1518.1	1510.0	1535.6	1586.7	1647.2	1652.6
32.5°	8289.8	7543.5	5424.3	2665.1	1499.3	1417.3	1425.3	1437.4	1461.6	1485.8	1491.2
35°	8141.9	7294.7	4905.3	2025.0	1379.6	1351.4	1346.0	1343.3	1346.0	1337.9	1339.3
37.5°	8046.4	7089.0	4364.7	1612.2	1311.0	1293.6	1277.4	1257.3	1234.4	1220.9	1223.6
40°	8011.4	6935.7	3817.5	1393.1	1254.6	1242.5	1211.5	1168.5	1141.6	1133.5	1133.5
42.5°	8105.6	6856.4	3289.0	1282.8	1207.5	1187.3	1136.2	1086.5	1066.3	1065.0	1063.6
45°	8393.3	6888.7	2786.1	1222.3	1164.5	1125.5	1058.2	1016.6	1003.1	1005.8	1004.5
47.5°	8909.7	7091.7	2355.8	1182.0	1121.4	1070.3	995.0	961.4	945.3	945.3	946.6
50°	9787.7	7566.4	2012.9	1148.3	1085.1	1019.2	949.3	907.6	886.1	884.8	884.8
52.5°	11066.5	8416.2	1799.1	1120.1	1044.8	973.5	903.6	851.2	825.6	820.2	817.5
55°	12669.3	9634.4	1740.0	1101.3	991.0	923.8	848.5	796.0	767.8	755.7	754.4
57.5°	14461.7	11116.2	1857.0	1078.4	935.9	864.6	788.0	738.2	708.6	693.8	692.5
60°	16275.7	12733.9	2334.3	1046.1	890.2	800.1	726.1	680.4	650.8	634.7	632.0
62.5°	18092.3	14438.9	3309.2	1043.5	857.9	738.2	662.9	623.9	595.7	578.2	574.2
65°	20141.6	16305.3	4417.2	1114.7	847.1	681.7	598.4	567.4	543.2	527.1	525.8
67.5°	22494.7	18412.3	4311.0	1261.3	883.4	630.6	537.9	513.7	496.2	482.7	481.4
70°	23598.7	18082.9	2679.9	1364.8	934.5	580.9	480.0	462.6	449.1	439.7	435.7
71°	23136.1	17169.9	2246.9	1352.7	929.2	559.4	457.2	443.7	430.3	422.2	418.2
72.5°	21874.8	15658.5	1874.4	1258.6	868.6	520.4	427.6	414.2	402.1	392.6	389.9
75°	19629.2	13984.4	1500.6	1005.8	692.5	439.7	375.2	360.4	351.0	345.6	340.2
77.5°	14429.5	9980.0	1160.4	794.7	509.6	359.0	320.0	309.3	299.9	291.8	287.8
80°	5527.9	3865.9	781.2	593.0	373.8	283.7	258.2	252.8	243.4	238.0	238.0
82.5°	1488.5	1155.1	416.8	359.0	250.1	207.1	197.7	195.0	186.9	176.1	177.5
85°	602.4	509.6	234.0	197.7	153.3	122.4	133.1	134.5	125.1	111.6	113.0
87.5°	264.9	216.5	130.4	87.4	67.2	47.1	60.5	60.5	55.1	45.7	41.7
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)