

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: P319801

Luminaire Tested: **GAN-SA7B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29716 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

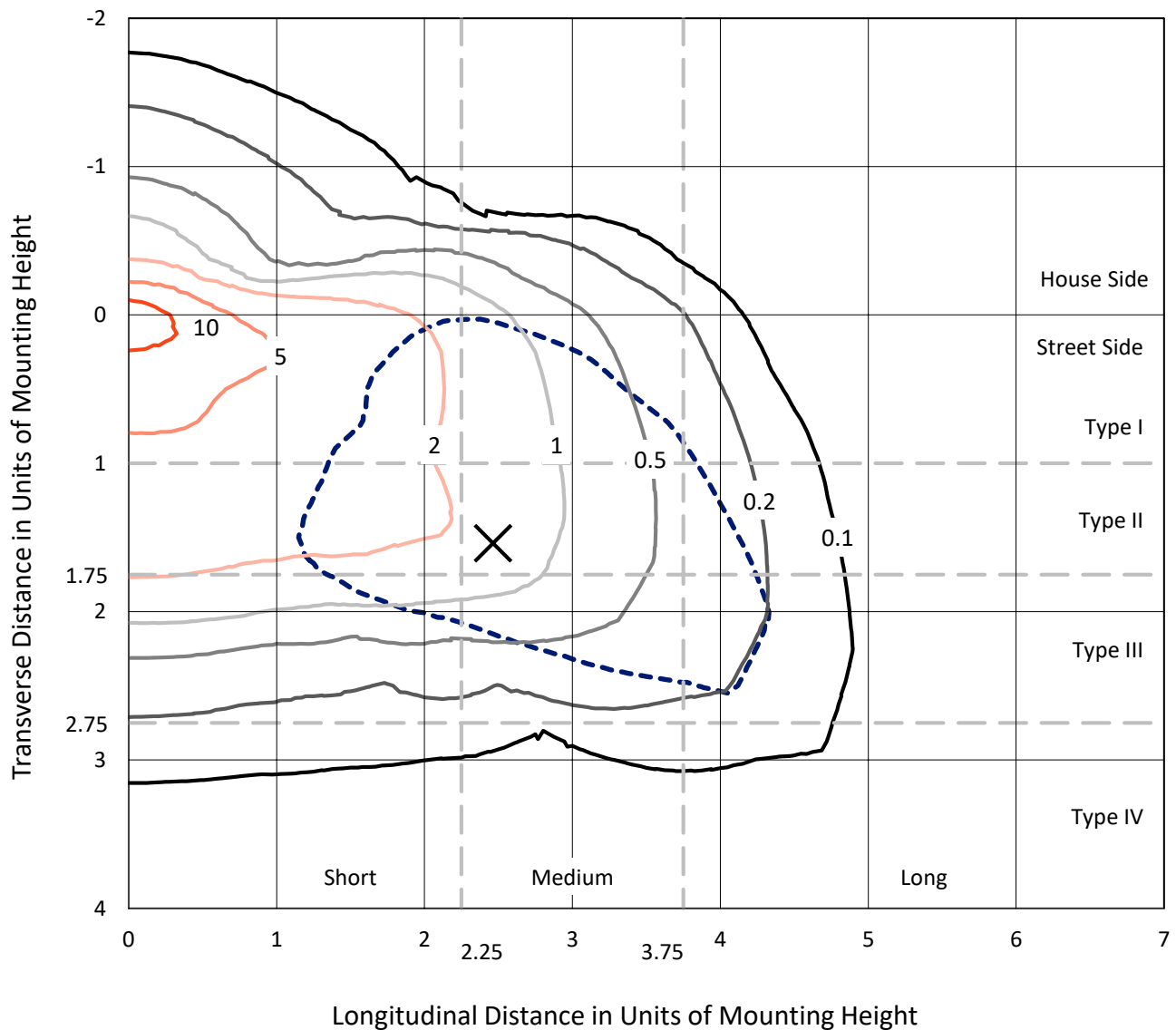
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319801
 CATALOG NUMBER: GAN-SA7B-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

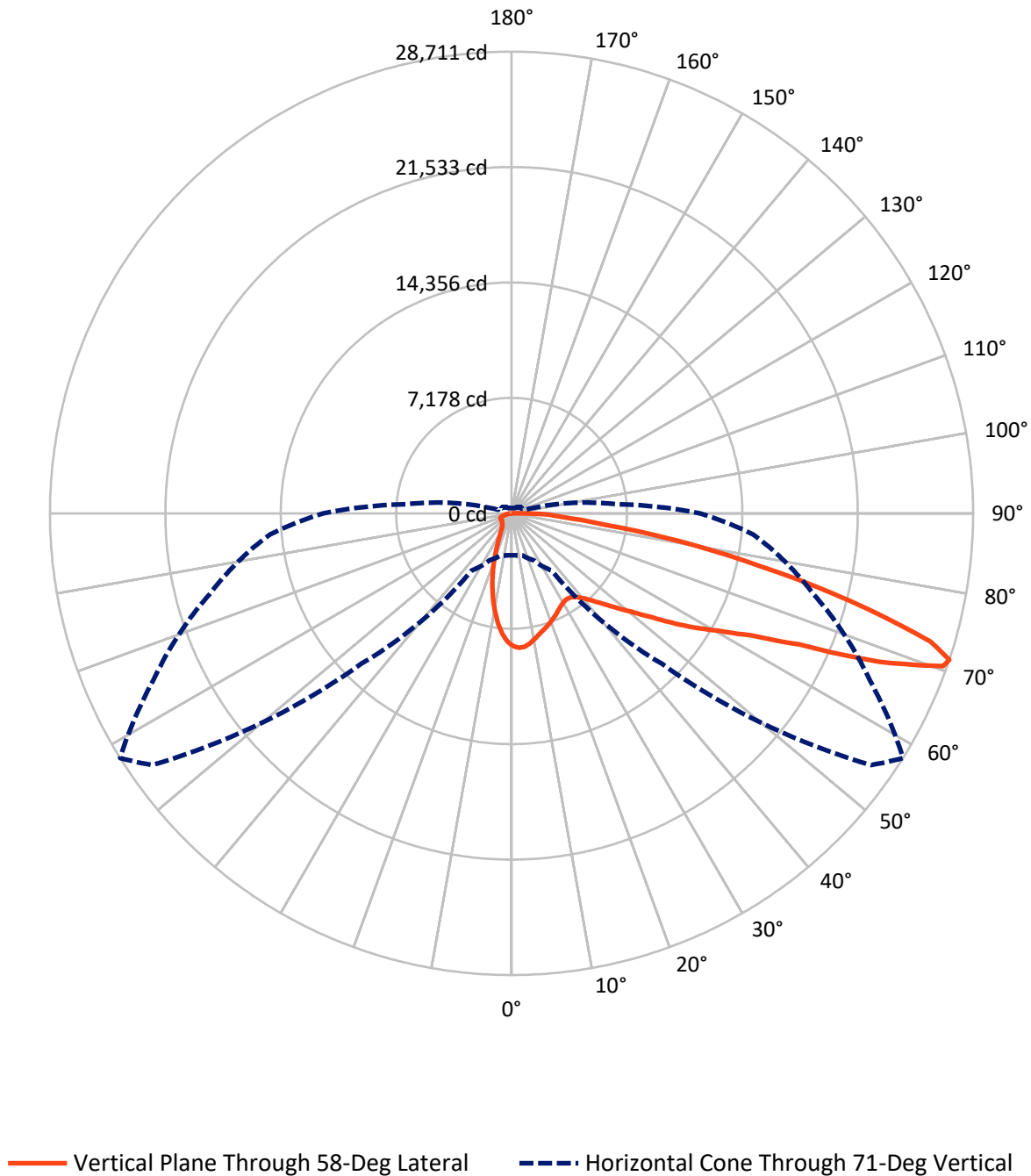
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P319801
CATALOG NUMBER: GAN-SA7B-827-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P319801

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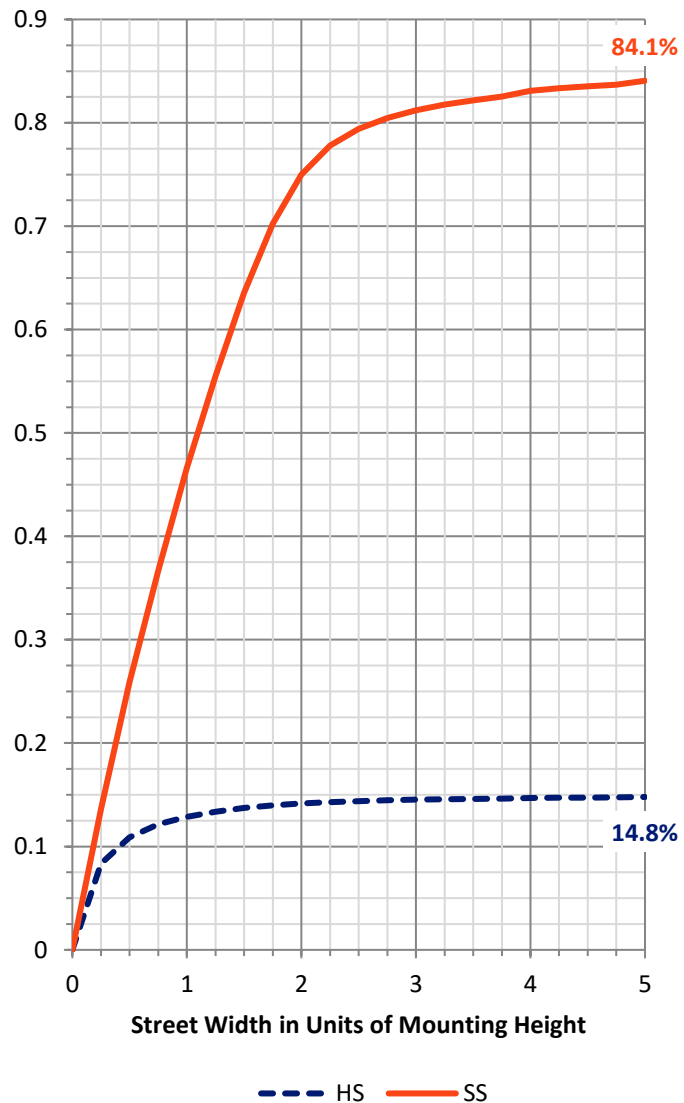
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4442.7	0.0	4442.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	25273.3	0.0	25273.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	29716.0	0.0	29716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.3	2.4
10°-20°	1579.4	5.3
20°-30°	2007.3	6.8
30°-40°	2556.9	8.6
40°-50°	3625.8	12.2
50°-60°	5611.0	18.9
60°-70°	7638.6	25.7
70°-80°	5095.9	17.1
80°-90°	890.9	3.0
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°	29716.0	100.0
0°-180°	29716.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319801

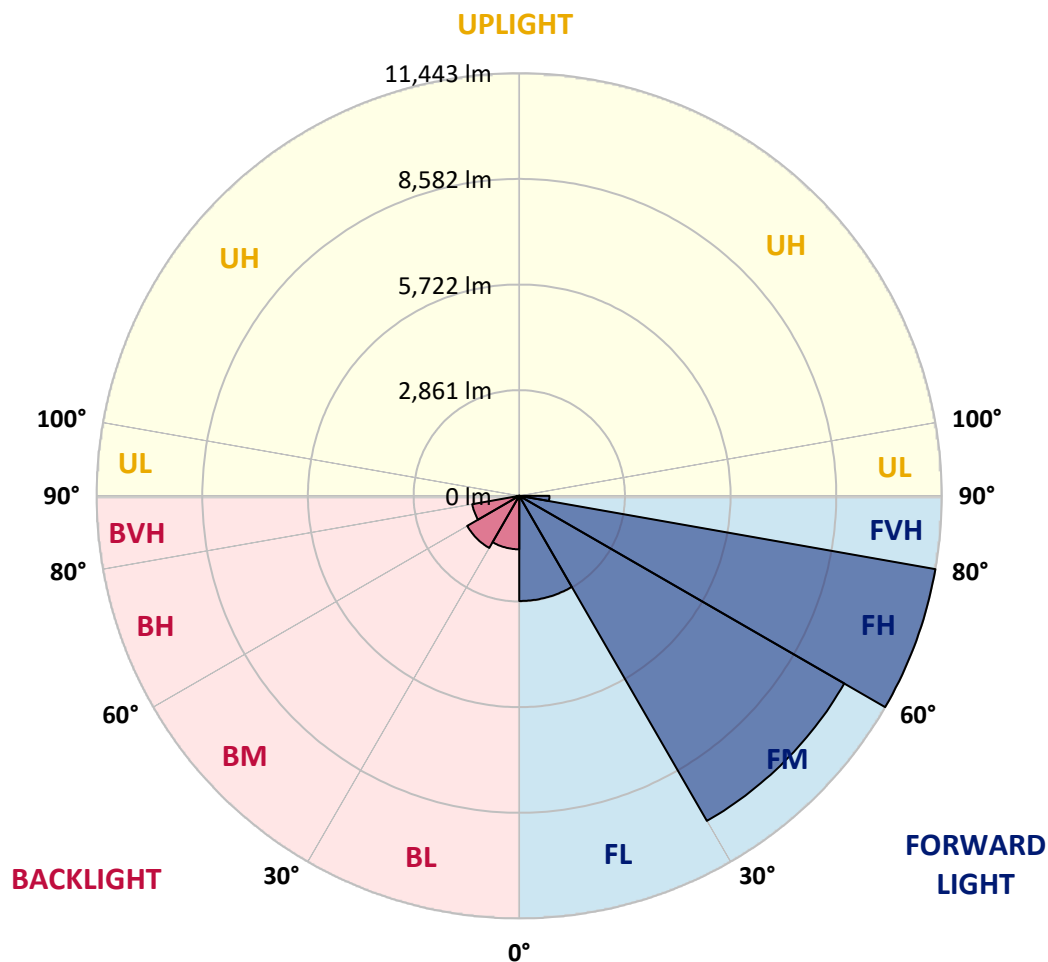
CATALOG NUMBER: GAN-SA7B-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2848.8	9.6			
FM	(30°-60°)	10164.3	34.2			
FH	(60°-80°)	11443.3	38.5			G4/12000
FVH	(80°-90°)	816.9	2.7			G5
BL	(0°-30°)	1448.2	4.9	B3/2500		
BM	(30°-60°)	1629.3	5.5	B2/2500		
BH	(60°-80°)	1291.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	74.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P319801

CATALOG NUMBER: GAN-SA7B-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3
2.5°	8451.7	8440.3	8444.5	8436.2	8416.5	8396.9	8367.9	8373.1	8332.7	8272.7	8198.1
5°	8292.3	8288.2	8319.2	8336.8	8351.3	8339.9	8331.7	8342.0	8283.0	8200.2	8070.8
7.5°	7958.0	7912.4	7951.8	8010.8	8066.7	8109.1	8165.0	8172.2	8135.0	8048.0	7878.3
10°	7482.9	7439.4	7497.4	7589.5	7701.3	7802.7	7915.5	7936.2	7943.5	7864.8	7658.8
12.5°	6990.1	6957.0	7015.0	7144.4	7329.7	7486.0	7666.1	7697.1	7761.3	7708.5	7455.9
15°	6549.2	6536.8	6607.2	6734.5	6947.7	7186.8	7446.6	7503.6	7612.2	7594.7	7297.6
17.5°	6168.3	6165.2	6219.0	6352.5	6588.5	6890.8	7228.2	7324.5	7486.0	7506.7	7167.1
20°	5884.6	5878.4	5915.7	6014.0	6257.3	6599.9	6992.2	7124.7	7357.6	7430.1	7032.6
22.5°	5732.5	5731.4	5732.5	5779.1	5977.8	6296.6	6762.4	6923.9	7232.4	7369.0	6883.5
25°	5706.6	5703.5	5680.7	5675.5	5788.4	6043.0	6534.7	6712.7	7113.3	7326.6	6741.7
27.5°	5773.9	5778.0	5748.0	5699.4	5722.1	5876.4	6337.0	6527.4	7018.1	7318.3	6643.4
30°	5913.6	5911.6	5885.7	5835.0	5790.4	5814.3	6196.2	6386.7	6953.9	7354.5	6576.1
32.5°	6067.9	6079.2	6074.1	6046.1	5979.9	5884.6	6153.8	6340.1	6935.3	7441.5	6547.1
35°	6253.1	6265.6	6302.8	6324.6	6246.9	6093.7	6244.9	6406.3	6989.1	7605.0	6593.7
37.5°	6429.1	6461.2	6565.7	6657.9	6591.6	6420.8	6487.1	6602.0	7155.8	7862.7	6718.9
40°	6632.0	6659.9	6830.7	7026.4	7016.0	6839.0	6877.3	6953.9	7449.7	8232.3	6945.6
42.5°	6831.8	6887.7	7135.1	7412.5	7492.2	7335.9	7396.9	7437.3	7863.8	8721.9	7341.0
45°	7097.8	7157.8	7501.5	7835.8	8022.2	7934.2	8031.5	8047.0	8384.4	9388.5	7915.5
47.5°	7500.5	7568.8	7969.4	8320.3	8604.9	8614.2	8774.7	8768.5	9034.5	10151.4	8639.1
50°	8127.7	8226.1	8554.2	8882.3	9228.1	9420.6	9634.9	9604.8	9813.9	10964.0	9472.4
52.5°	8949.6	8995.2	9238.4	9480.6	9910.2	10341.9	10649.3	10622.4	10697.9	11799.3	10418.4
55°	9801.5	9835.7	9936.1	10068.6	10646.2	11350.1	12000.1	11957.7	11766.2	12666.7	11353.2
57.5°	10567.5	10636.9	10706.2	10761.1	11387.3	12403.8	13382.0	13385.1	12925.5	13602.5	12318.9
60°	10686.5	10747.6	11206.2	11638.9	12655.3	13809.5	14861.2	14830.1	14125.2	14617.9	13395.4
62.5°	9446.5	9584.1	10350.1	11501.2	13876.8	16380.7	16748.2	16709.9	15559.9	15869.4	14649.0
65°	6769.7	6926.0	7850.3	9580.0	13284.7	19213.8	20153.7	19638.2	17516.2	17408.6	16116.8
67.5°	3905.5	3942.8	4343.3	5732.5	10115.2	19361.9	25349.0	24627.5	20554.3	19154.8	16835.1
70°	2888.0	2886.9	2982.2	3527.7	5473.7	15802.1	27819.8	28466.7	23752.8	19729.3	15819.7
71°	2611.6	2614.7	2721.3	3210.9	4335.1	13226.7	27295.0	28711.0	24595.4	19445.7	15084.8
72.5°	2233.8	2244.1	2392.2	2879.7	3646.7	9121.4	25034.3	27245.3	24995.0	18746.0	13934.7
75°	1694.5	1718.3	1923.2	2427.3	3333.1	4625.9	18373.3	21756.1	22204.3	16541.2	10354.3
77.5°	1209.0	1235.9	1467.8	2041.3	3168.5	3486.3	12304.4	15869.4	16340.4	10600.6	4670.4
80°	763.9	796.0	970.9	1624.1	2977.0	3310.3	7732.3	10666.9	8910.3	3392.1	1188.3
82.5°	448.2	473.0	602.4	1061.0	2431.5	3188.2	4549.3	5912.6	3467.6	1024.8	540.3
85°	259.8	271.2	375.7	675.9	1765.9	3009.1	3342.4	3305.1	1505.1	501.0	255.7
87.5°	121.1	134.6	222.6	353.0	980.3	2181.0	2641.6	2282.4	935.7	235.0	120.1
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: P319801

CATALOG NUMBER: GAN-SA7B-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3
2.5°	8161.9	8144.3	8070.8	8005.6	7937.3	7848.3	7749.9	7737.5	7677.5	7688.8	7668.1
5°	8000.4	7955.9	7778.9	7618.5	7429.0	7259.3	7075.0	6990.1	6868.0	6859.7	6828.7
7.5°	7769.6	7686.8	7412.5	7108.1	6803.8	6514.0	6227.3	6038.9	5846.3	5764.6	5757.3
10°	7509.8	7369.0	6965.3	6515.0	6076.1	5652.8	5242.9	4939.6	4666.3	4536.9	4531.7
12.5°	7263.4	7055.4	6501.6	5888.8	5288.4	4739.8	4177.7	3779.2	3436.6	3321.7	3273.0
15°	7054.3	6761.4	6050.3	5266.7	4538.0	3776.1	3136.4	2717.2	2400.4	2290.7	2270.0
17.5°	6851.4	6474.7	5587.6	4638.4	3757.5	2920.1	2279.3	1967.8	1799.0	1754.5	1753.5
20°	6649.6	6179.6	5104.2	3995.6	3002.9	2184.1	1752.5	1612.7	1555.8	1550.6	1542.3
22.5°	6420.8	5867.0	4595.9	3350.7	2343.5	1717.3	1489.5	1433.6	1426.4	1445.0	1445.0
25°	6206.6	5556.5	4080.4	2719.3	1822.8	1432.6	1330.1	1318.7	1338.4	1371.5	1374.6
27.5°	6006.8	5257.4	3577.4	2158.2	1460.5	1261.8	1219.4	1232.8	1268.0	1306.3	1307.4
30°	5842.2	4974.8	3088.8	1700.7	1233.9	1134.5	1127.2	1154.2	1192.5	1222.5	1229.7
32.5°	5714.9	4733.6	2616.8	1367.4	1085.8	1039.3	1045.5	1068.2	1092.0	1108.6	1120.0
35°	5655.9	4526.6	2181.0	1153.1	991.6	965.8	974.0	986.5	996.8	1009.2	1018.6
37.5°	5666.2	4366.1	1791.8	1019.6	928.5	915.0	915.0	915.0	915.0	921.3	922.3
40°	5762.5	4274.0	1475.0	934.7	886.1	871.6	860.2	849.8	841.5	845.7	843.6
42.5°	6008.9	4265.7	1243.2	880.9	851.9	828.1	805.3	790.8	780.5	784.6	786.7
45°	6427.0	4369.2	1086.9	842.6	819.8	783.6	754.6	739.1	731.8	745.3	747.4
47.5°	6968.4	4594.9	991.6	814.6	789.8	742.2	711.1	696.6	698.7	718.4	723.5
50°	7666.1	4961.3	946.1	797.0	769.1	707.0	674.9	662.5	668.7	696.6	702.8
52.5°	8432.1	5489.2	951.3	791.9	755.6	681.1	646.9	632.5	642.8	668.7	673.9
55°	9316.1	6123.8	1037.2	799.1	736.0	664.5	624.2	599.3	607.6	631.4	635.6
57.5°	10298.4	6850.4	1210.1	797.0	711.1	649.0	600.4	563.1	569.3	583.8	587.9
60°	11321.1	7728.2	1478.1	803.3	699.7	630.4	568.3	521.7	519.6	532.1	534.1
62.5°	12548.7	8743.6	1784.5	807.4	707.0	606.6	525.8	480.3	474.1	477.2	479.3
65°	13813.6	9478.6	1669.6	790.8	729.8	586.9	488.6	439.9	428.5	426.5	427.5
67.5°	13853.0	8690.8	1170.7	757.7	739.1	576.6	460.6	405.8	387.1	379.9	378.9
70°	12423.5	7060.5	911.9	722.5	701.8	560.0	434.7	377.8	349.9	338.5	337.4
71°	11725.8	6499.5	864.3	704.9	673.9	543.4	423.4	365.4	336.4	324.0	321.9
72.5°	10631.7	5826.7	806.4	677.0	620.0	501.0	401.6	347.8	317.8	303.3	300.2
75°	7629.8	3810.3	692.5	603.5	513.4	399.6	351.9	312.6	286.7	269.1	267.1
77.5°	2939.7	1516.4	523.8	502.0	393.3	312.6	289.8	270.2	251.5	233.9	232.9
80°	908.8	678.0	382.0	377.8	284.7	232.9	225.7	220.5	213.2	194.6	190.5
82.5°	485.5	389.2	262.9	244.3	186.3	155.3	163.5	165.6	166.7	147.0	144.9
85°	231.9	206.0	148.0	138.7	108.7	86.9	100.4	108.7	109.7	90.1	83.8
87.5°	110.8	107.7	69.4	52.8	40.4	29.0	35.2	43.5	47.6	34.2	30.0
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)