

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: P319521

Luminaire Tested: **GAN-SA7B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319521
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-SA7B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 31466 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

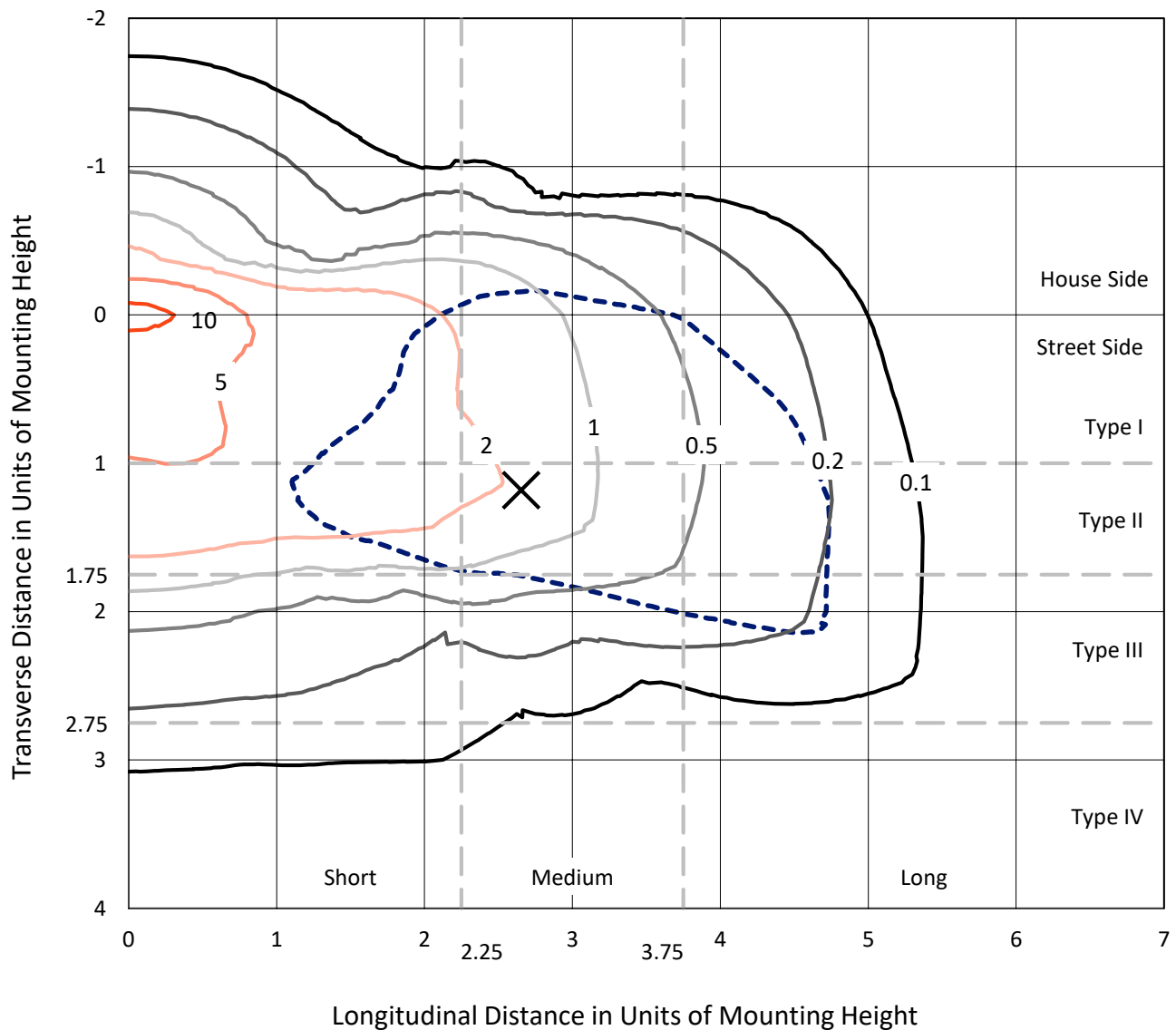
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319521
 CATALOG NUMBER: GAN-SA7B-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

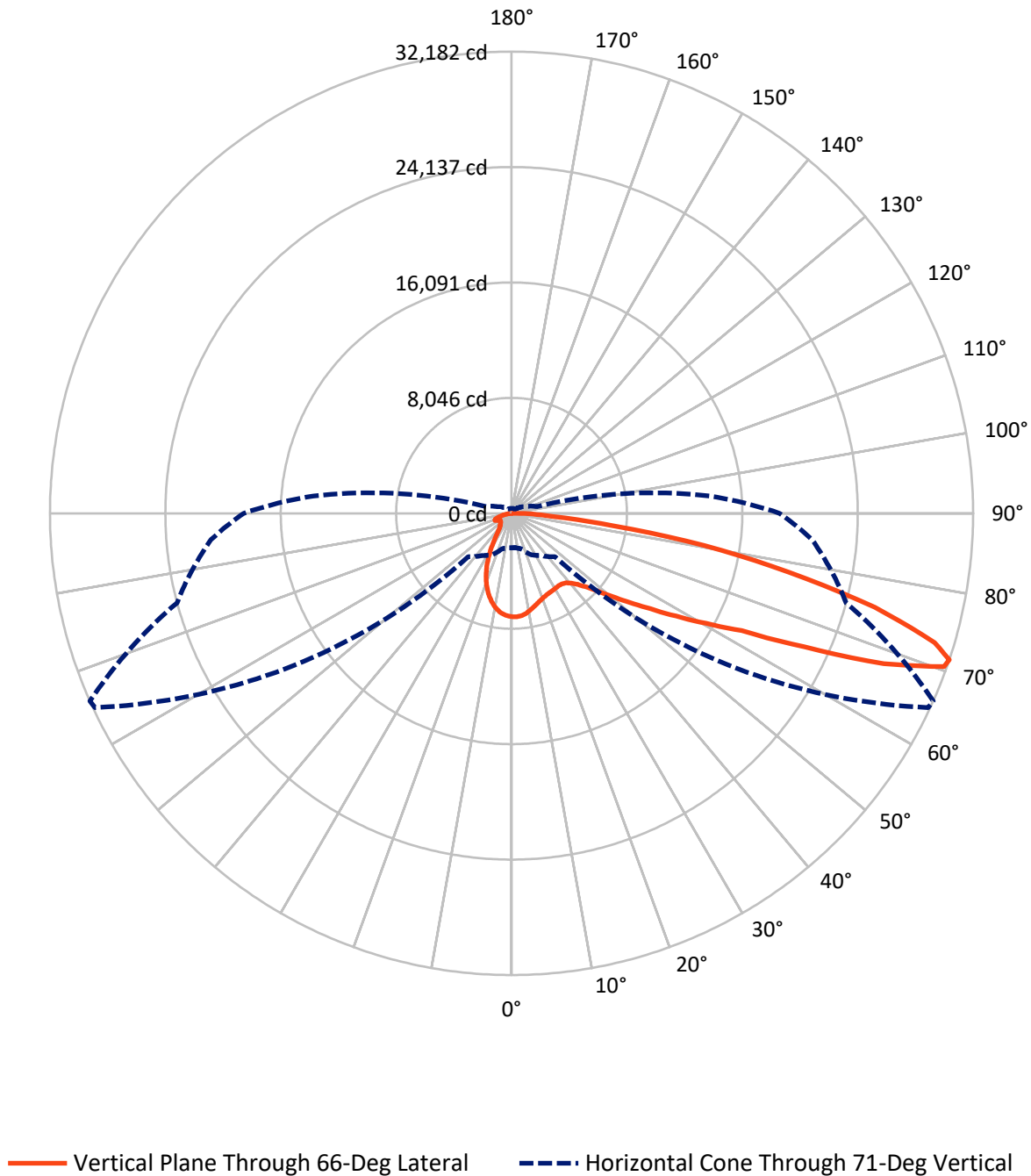
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P319521
CATALOG NUMBER: GAN-SA7B-830-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P319521

CATALOG NUMBER: GAN-SA7B-830-U-SL2

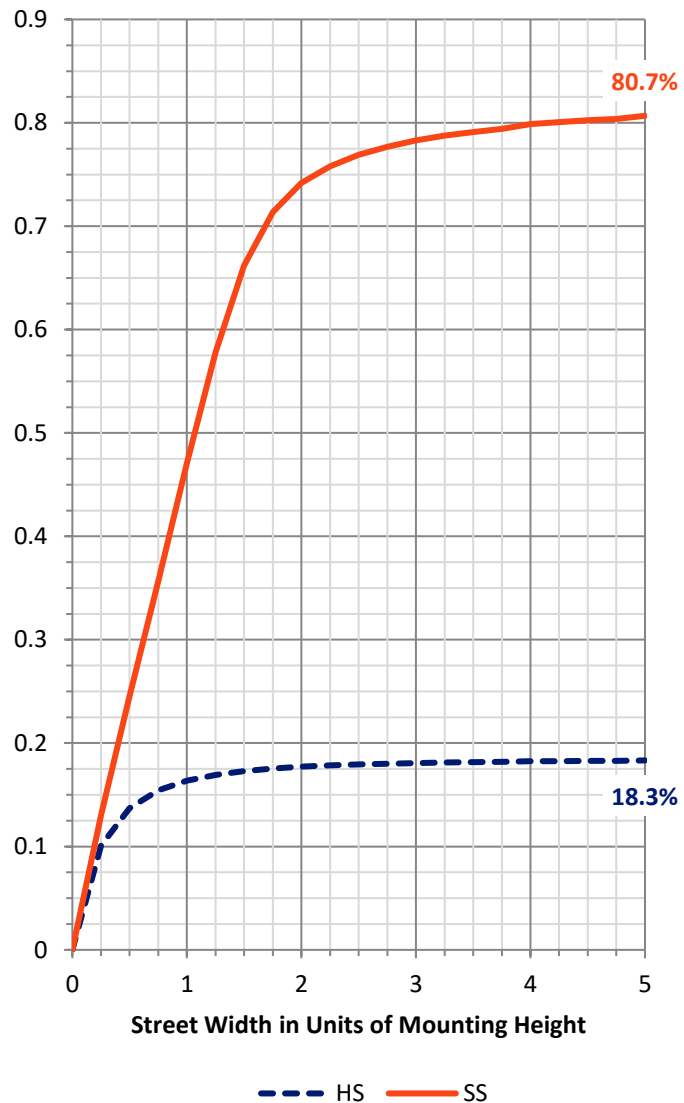
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5831.5	0.0	5831.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	25634.5	0.0	25634.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	31466.0	0.0	31466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.5	2.0
10°-20°	1521.8	4.8
20°-30°	2044.2	6.5
30°-40°	2689.1	8.5
40°-50°	3911.9	12.4
50°-60°	6110.8	19.4
60°-70°	7654.7	24.3
70°-80°	5838.8	18.6
80°-90°	1060.3	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°	31466.0	100.0
0°-180°	31466.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319521

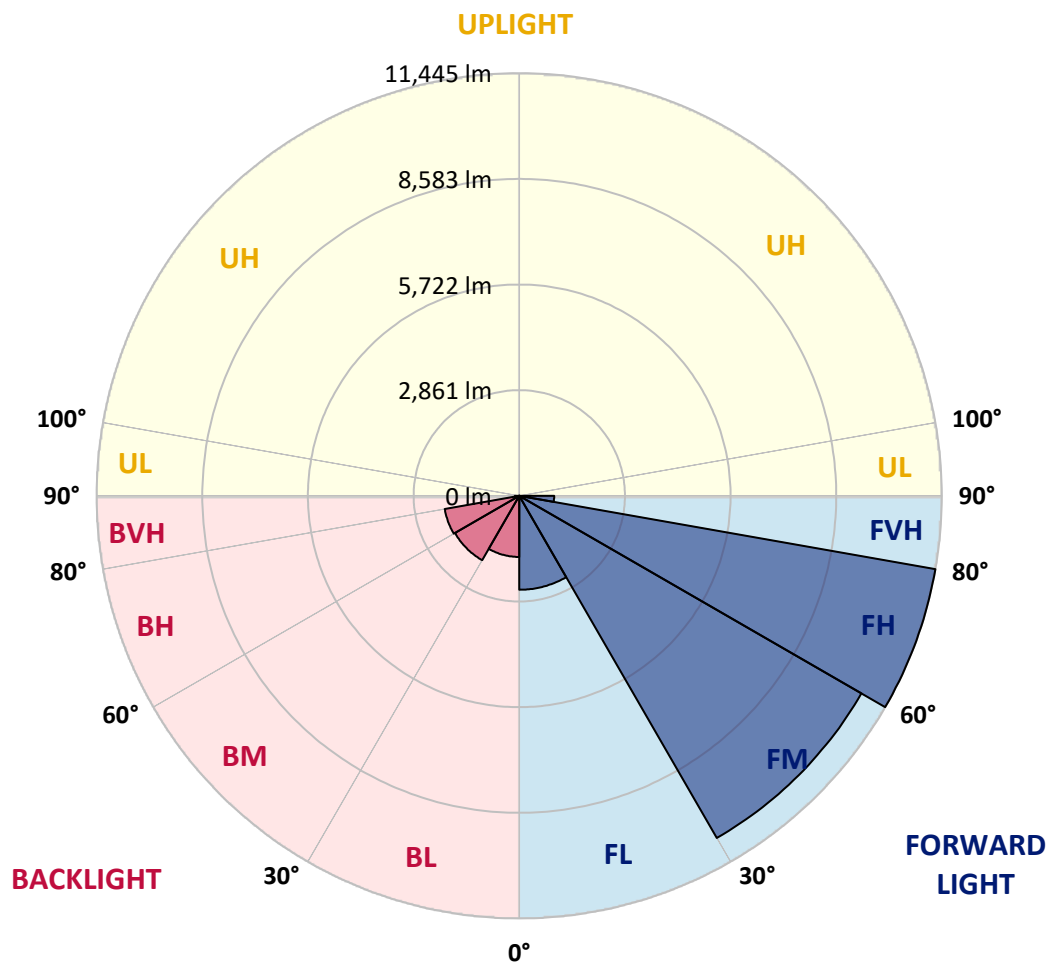
CATALOG NUMBER: GAN-SA7B-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2544.5	8.1			
FM	(30°-60°)	10700.0	34.0			
FH	(60°-80°)	11444.5	36.4			G4/12000
FVH	(80°-90°)	945.5	3.0			G5
BL	(0°-30°)	1656.0	5.3	B3/2500		
BM	(30°-60°)	2011.7	6.4	B2/2500		
BH	(60°-80°)	2049.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	114.8	0.4			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 III Medium





REPORT NUMBER: P319521

CATALOG NUMBER: GAN-SA7B-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3
2.5°	7074.6	7063.8	7096.4	7130.0	7143.1	7164.8	7197.4	7215.9	7214.8	7218.0	7207.2
5°	6605.3	6591.2	6656.4	6709.6	6811.7	6926.9	7067.0	7167.0	7169.1	7225.6	7240.8
7.5°	6161.0	6151.2	6226.1	6312.0	6430.4	6606.4	6833.4	7048.6	7061.6	7214.8	7268.0
10°	5804.6	5802.5	5875.2	5968.7	6106.6	6303.3	6564.0	6879.1	6898.6	7162.6	7272.3
12.5°	5526.5	5530.9	5593.9	5700.3	5845.9	6051.2	6333.7	6689.0	6720.5	7080.1	7247.4
15°	5321.2	5338.6	5389.6	5497.2	5640.6	5849.2	6139.2	6513.0	6560.8	6987.7	7233.2
17.5°	5203.8	5223.4	5259.3	5348.3	5483.1	5684.0	5958.9	6368.5	6411.9	6917.1	7234.3
20°	5169.1	5185.4	5206.0	5260.3	5374.4	5556.9	5816.6	6238.1	6284.8	6860.6	7245.2
22.5°	5237.5	5249.5	5251.6	5247.3	5316.8	5465.7	5713.4	6142.5	6192.5	6823.7	7252.8
25°	5384.2	5400.5	5388.5	5348.3	5325.5	5416.8	5660.1	6079.5	6129.5	6796.5	7237.6
27.5°	5604.7	5606.9	5597.1	5545.0	5437.4	5422.2	5643.8	6042.5	6090.3	6765.0	7206.1
30°	5904.6	5918.7	5901.3	5830.7	5654.7	5509.1	5663.4	6006.7	6050.2	6724.8	7155.0
32.5°	6255.5	6290.2	6289.2	6215.3	5963.2	5703.6	5743.8	5985.0	6018.6	6682.4	7093.1
35°	6619.4	6667.2	6756.3	6724.8	6413.0	6011.0	5898.1	6019.7	6042.5	6677.0	7049.6
37.5°	6997.5	7045.3	7228.9	7313.6	6948.6	6451.0	6141.4	6142.5	6153.4	6743.3	7046.4
40°	7392.9	7444.0	7719.9	7940.5	7642.8	7008.4	6533.6	6398.9	6386.9	6906.2	7110.5
42.5°	7947.0	7992.6	8324.0	8605.4	8413.1	7722.1	7075.7	6794.3	6769.3	7225.6	7315.8
45°	8647.7	8686.8	9038.8	9339.8	9240.9	8536.9	7756.9	7338.6	7334.3	7758.0	7731.9
47.5°	9481.0	9511.4	9827.6	10118.7	10154.6	9474.5	8613.0	8178.4	8107.8	8488.0	8376.1
50°	10349.0	10382.7	10597.8	10910.7	11176.9	10729.3	9714.6	9207.2	9112.7	9451.7	9288.7
52.5°	10923.7	10968.3	11155.1	11551.7	12326.3	12104.6	11017.2	10454.4	10311.0	10619.5	10494.6
55°	10667.3	10767.3	11053.0	11688.6	13245.4	14205.7	12623.9	11909.1	11747.2	12003.6	11929.7
57.5°	9501.6	9638.5	10028.5	11009.6	13374.6	16057.0	15053.1	13622.3	13508.3	13434.4	13468.1
60°	7371.2	7502.7	7986.1	9264.8	12474.0	17408.4	18708.9	15734.3	15569.2	14870.6	14901.0
62.5°	5216.9	5150.6	5482.0	6417.4	10136.1	17567.1	22868.7	18558.9	18015.7	16387.2	16253.6
65°	3978.4	3963.2	4112.0	4409.7	6139.2	15669.1	25346.8	23306.5	22458.0	18171.1	17856.0
67.5°	3269.0	3241.8	3388.5	3821.9	3953.4	10108.9	25401.1	28814.5	27981.3	20391.7	19709.4
70°	2687.7	2657.3	2794.2	3353.7	3653.6	5126.7	21378.1	32040.1	31995.5	23203.3	21108.7
71°	2409.6	2387.9	2551.9	3173.4	3589.5	4272.8	18457.9	32048.7	32182.4	24155.0	21026.1
72.5°	1962.0	1969.6	2143.5	2824.6	3541.7	3773.1	13565.9	30554.9	30837.4	25062.1	20275.4
75°	1303.7	1310.2	1538.3	2172.8	3434.1	3691.6	7456.0	25639.0	26158.3	24518.9	18501.4
77.5°	875.6	873.5	1028.8	1490.5	2991.9	3691.6	4371.7	19176.0	19746.4	19509.5	14263.3
80°	603.0	598.6	708.3	1028.8	2265.1	3736.1	3379.8	13438.7	13611.5	10535.9	5797.0
82.5°	369.4	372.6	462.8	726.8	1541.6	3362.4	3190.8	7327.8	7139.8	2955.0	1448.2
85°	211.8	210.8	295.5	492.1	989.7	2837.7	3111.4	3153.8	2893.1	889.8	523.6
87.5°	76.0	81.5	158.6	272.7	567.1	1976.2	2639.9	1640.5	1478.6	402.0	236.8
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: P319521

CATALOG NUMBER: GAN-SA7B-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3	7208.3
2.5°	7199.6	7206.1	7198.5	7155.0	7118.1	7058.3	7024.7	6977.9	6963.8	6957.3	6974.7
5°	7226.7	7228.9	7164.8	7050.7	6922.5	6771.5	6662.9	6529.3	6466.2	6439.1	6456.5
7.5°	7251.7	7241.9	7101.8	6883.4	6646.6	6383.7	6150.1	5936.1	5811.1	5760.1	5764.4
10°	7255.0	7213.7	6988.8	6650.9	6283.7	5898.1	5539.5	5209.3	5000.7	4864.9	4906.2
12.5°	7221.3	7151.8	6822.6	6350.0	5840.5	5314.7	4830.1	4334.7	4037.1	3899.1	3903.4
15°	7195.2	7069.2	6618.3	5995.8	5311.4	4615.0	3953.4	3371.1	3053.9	2912.6	2846.4
17.5°	7173.5	6980.1	6381.5	5597.1	4686.7	3803.5	3008.2	2488.9	2315.1	2273.8	2256.4
20°	7143.1	6885.6	6117.5	5135.4	3975.1	2895.3	2196.7	1940.3	1941.4	1989.2	1995.7
22.5°	7100.7	6778.0	5836.1	4617.2	3211.4	2108.7	1721.9	1648.1	1723.0	1814.3	1830.6
25°	7037.7	6650.9	5523.2	4044.7	2448.7	1620.9	1471.0	1467.7	1559.0	1654.6	1668.7
27.5°	6948.6	6484.7	5175.6	3429.8	1804.5	1377.6	1317.8	1340.6	1408.0	1477.5	1482.9
30°	6829.1	6291.3	4792.1	2781.2	1414.5	1226.5	1220.0	1240.7	1281.9	1330.8	1335.2
32.5°	6697.6	6094.7	4382.5	2153.2	1211.3	1145.1	1151.6	1161.4	1180.9	1200.5	1204.8
35°	6578.1	5893.7	3963.2	1636.1	1114.6	1091.8	1087.5	1085.3	1087.5	1081.0	1082.1
37.5°	6501.0	5727.5	3526.4	1302.6	1059.2	1045.1	1032.1	1015.8	997.3	986.4	988.6
40°	6472.8	5603.6	3084.3	1125.5	1013.6	1003.8	978.8	944.1	922.4	915.8	915.8
42.5°	6548.8	5539.5	2657.3	1036.4	975.6	959.3	918.0	877.8	861.5	860.4	859.3
45°	6781.3	5565.6	2251.0	987.5	940.8	909.3	855.0	821.3	810.5	812.6	811.5
47.5°	7198.5	5729.7	1903.4	954.9	906.1	864.8	803.9	776.8	763.7	763.7	764.8
50°	7907.9	6113.2	1626.3	927.8	876.7	823.5	767.0	733.3	715.9	714.8	714.8
52.5°	8941.1	6799.8	1453.6	905.0	844.1	786.6	730.1	687.7	667.0	662.7	660.5
55°	10236.0	7784.0	1405.8	889.8	800.7	746.4	685.5	643.1	620.3	610.6	609.5
57.5°	11684.2	8981.3	1500.3	871.3	756.1	698.6	636.6	596.4	572.5	560.6	559.5
60°	13149.8	10288.2	1886.0	845.2	719.2	646.4	586.7	549.7	525.8	512.8	510.6
62.5°	14617.5	11665.7	2673.6	843.0	693.1	596.4	535.6	504.1	481.3	467.2	463.9
65°	16273.2	13173.7	3568.8	900.6	684.4	550.8	483.4	458.5	438.9	425.9	424.8
67.5°	18174.4	14876.0	3483.0	1019.0	713.8	509.5	434.6	415.0	400.9	390.0	388.9
70°	19066.3	14609.9	2165.2	1102.7	755.0	469.3	387.8	373.7	362.9	355.3	352.0
71°	18692.6	13872.2	1815.4	1092.9	750.7	451.9	369.4	358.5	347.6	341.1	337.9
72.5°	17673.5	12651.1	1514.4	1016.9	701.8	420.4	345.5	334.6	324.8	317.2	315.1
75°	15859.2	11298.5	1212.4	812.6	559.5	355.3	303.1	291.2	283.5	279.2	274.9
77.5°	11658.1	8063.2	937.6	642.1	411.7	290.1	258.6	249.9	242.3	235.7	232.5
80°	4466.2	3123.4	631.2	479.1	302.0	229.2	208.6	204.2	196.6	192.3	192.3
82.5°	1202.6	933.2	336.8	290.1	202.1	167.3	159.7	157.5	151.0	142.3	143.4
85°	486.7	411.7	189.0	159.7	123.8	98.9	107.6	108.6	101.0	90.2	91.3
87.5°	214.0	174.9	105.4	70.6	54.3	38.0	48.9	48.9	44.5	36.9	33.7
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)