

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: P322096

Luminaire Tested: **GAN-SA2D-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8974 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

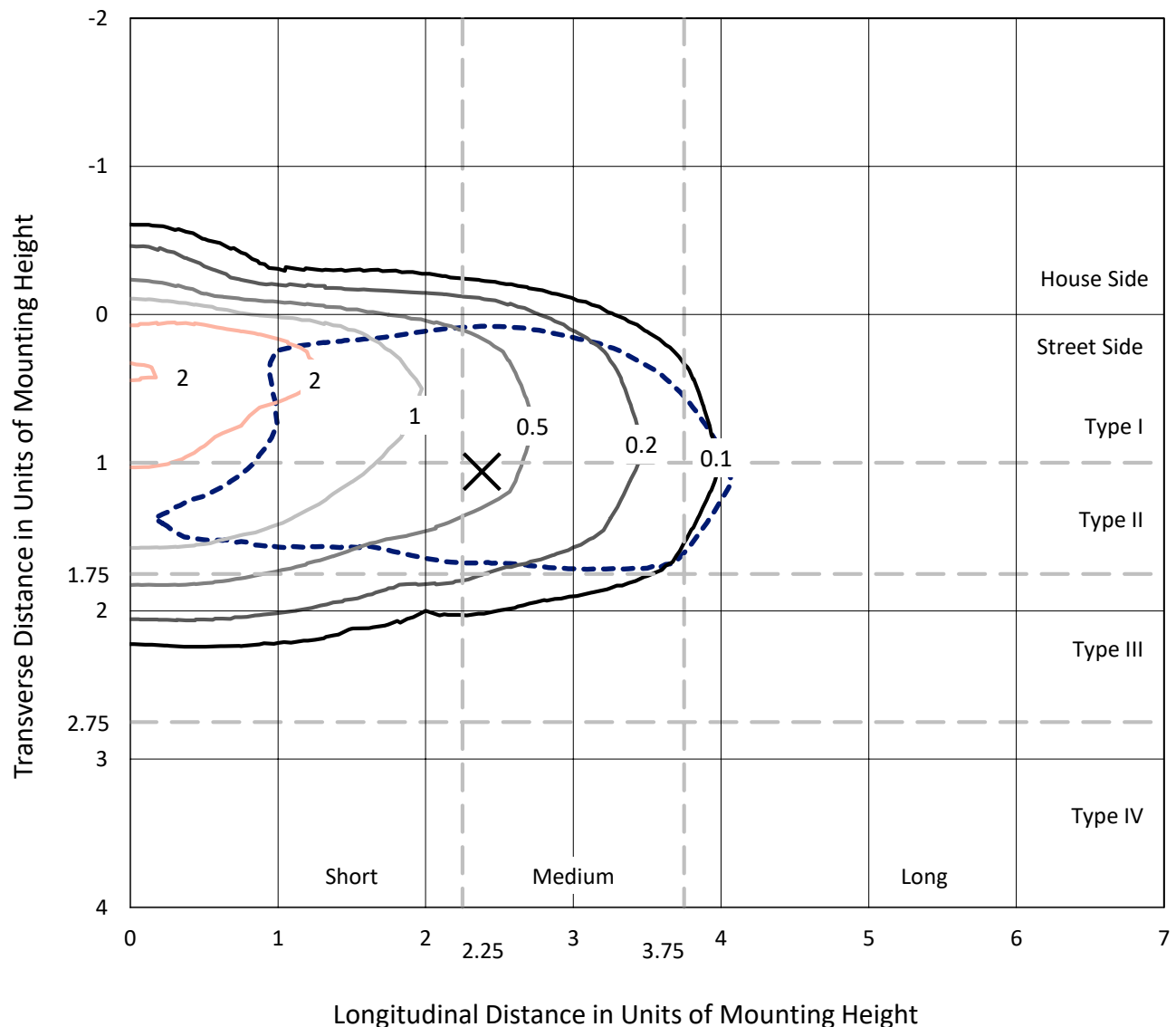


REPORT NUMBER: P322096

CATALOG NUMBER: GAN-SA2D-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

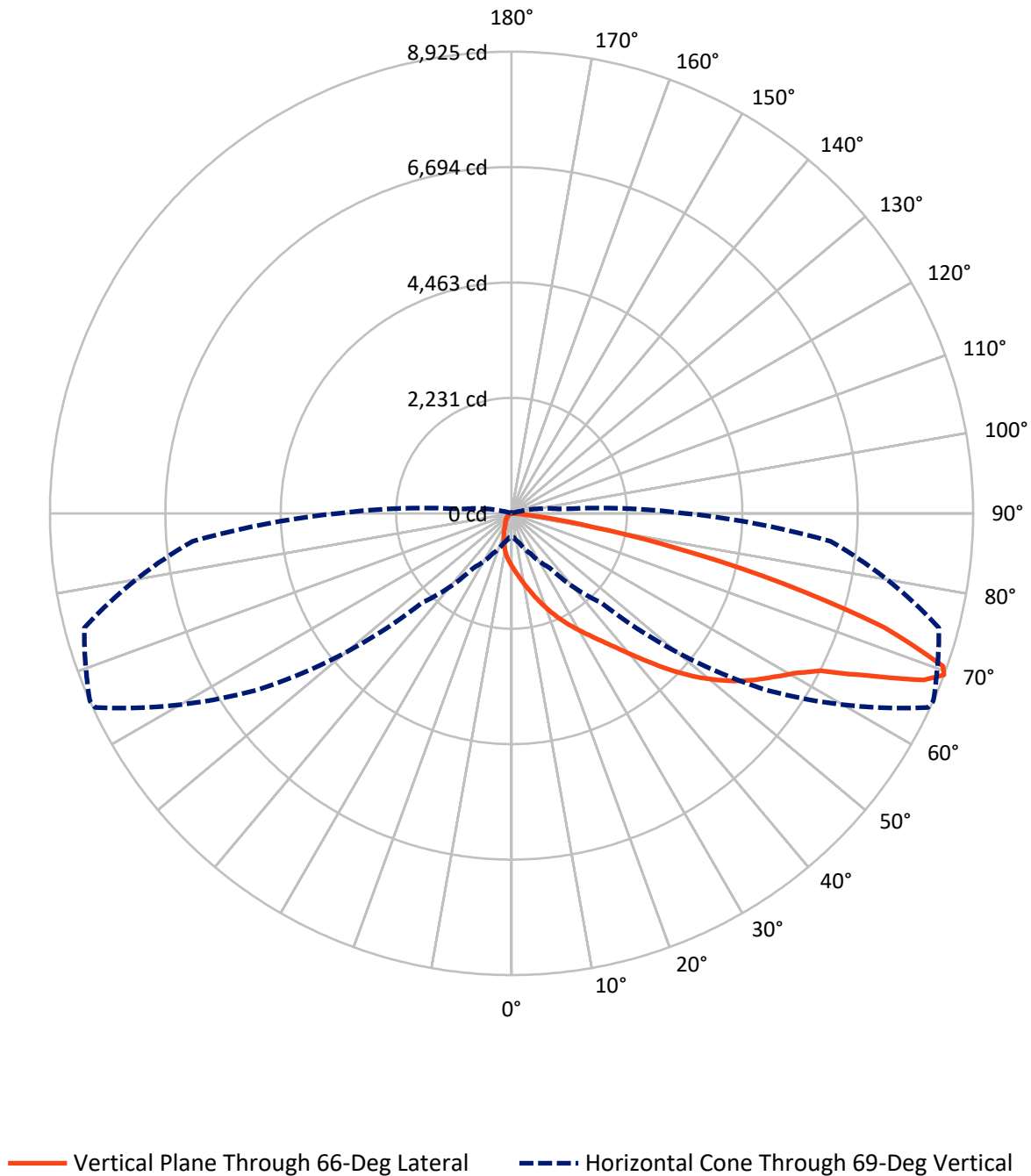
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P322096
CATALOG NUMBER: GAN-SA2D-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322096

CATALOG NUMBER: GAN-SA2D-830-U-T2-HSS

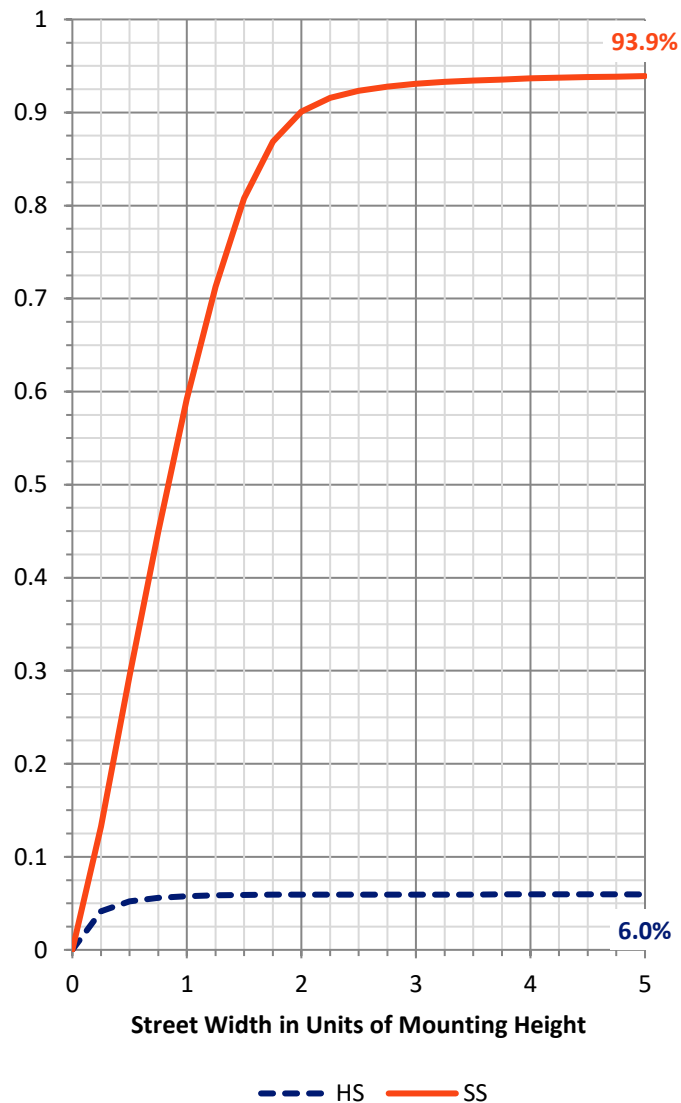
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.3	0.0	538.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	8435.7	0.0	8435.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	8974.0	0.0	8974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	1.1
10°-20°	293.8	3.3
20°-30°	511.6	5.7
30°-40°	897.6	10.0
40°-50°	1502.5	16.7
50°-60°	2208.6	24.6
60°-70°	2267.6	25.3
70°-80°	1119.5	12.5
80°-90°	74.0	0.8
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°	8974.0	100.0
0°-180°	8974.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322096

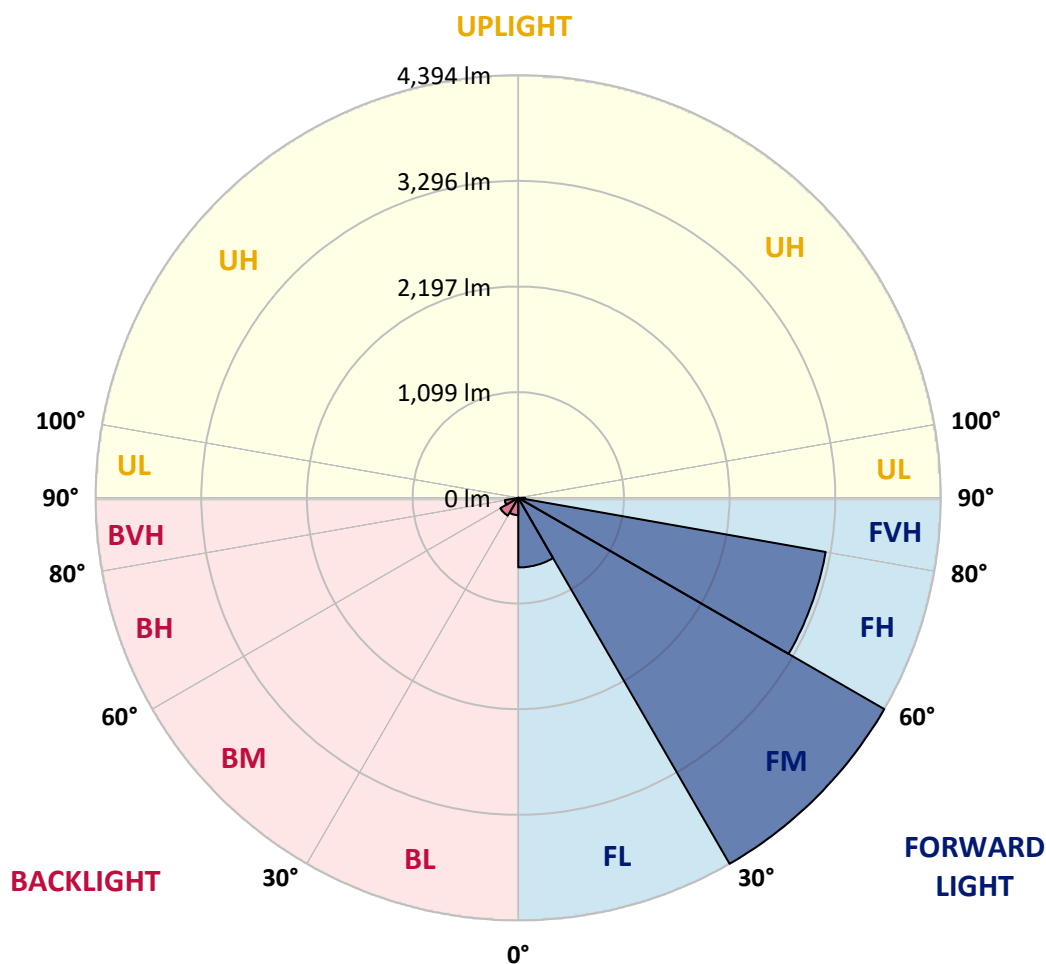
CATALOG NUMBER: GAN-SA2D-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	724.1	8.1			
FM	(30°-60°)	4394.1	49.0			
FH	(60°-80°)	3245.2	36.2			G2/5000
FVH	(80°-90°)	72.2	0.8			G1/100
BL	(0°-30°)	180.0	2.0	B1/500		
BM	(30°-60°)	214.6	2.4	B0/220		
BH	(60°-80°)	141.9	1.6	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P322096

CATALOG NUMBER: GAN-SA2D-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3
2.5°	1202.0	1196.9	1194.7	1185.4	1169.2	1156.8	1132.9	1105.2	1100.1	1073.3	1040.5
5°	1358.0	1353.7	1350.8	1337.5	1320.9	1289.8	1246.3	1194.7	1184.9	1133.8	1068.2
7.5°	1466.7	1474.4	1474.4	1465.8	1445.0	1421.5	1368.2	1297.9	1285.5	1207.1	1105.2
10°	1530.2	1539.6	1546.8	1554.1	1551.1	1541.7	1491.4	1412.1	1397.2	1293.2	1148.3
12.5°	1536.2	1545.5	1566.0	1596.3	1625.7	1647.0	1615.4	1538.7	1521.7	1393.0	1199.4
15°	1502.9	1512.7	1544.3	1603.1	1674.3	1736.5	1746.7	1679.0	1661.5	1511.9	1263.4
17.5°	1445.0	1451.3	1496.5	1577.9	1689.6	1803.8	1865.7	1829.4	1813.2	1647.8	1334.6
20°	1401.9	1406.6	1446.2	1533.6	1680.2	1846.0	1978.2	1989.3	1972.2	1793.6	1411.7
22.5°	1475.6	1484.2	1485.4	1526.8	1654.7	1866.9	2077.1	2146.5	2133.8	1948.3	1487.6
25°	1677.3	1687.1	1654.7	1629.1	1676.4	1876.3	2161.9	2307.7	2297.4	2115.0	1563.9
27.5°	1943.7	1953.9	1912.1	1835.8	1790.2	1911.7	2237.3	2471.3	2470.9	2291.5	1646.1
30°	2205.4	2215.6	2173.0	2096.7	1991.8	2011.9	2302.5	2642.7	2645.2	2473.5	1733.5
32.5°	2479.9	2492.6	2448.7	2350.7	2241.2	2184.9	2394.2	2814.9	2829.4	2684.5	1832.0
35°	2791.9	2793.6	2731.8	2629.0	2502.9	2416.4	2541.2	3008.0	3042.5	2945.7	1956.9
37.5°	3097.9	3110.3	3059.5	2897.6	2781.6	2683.6	2759.9	3249.2	3298.2	3265.0	2120.1
40°	3324.7	3350.7	3343.4	3168.7	3058.7	2988.8	3031.4	3536.1	3598.3	3636.7	2326.0
42.5°	3467.0	3486.6	3519.9	3414.6	3314.9	3326.4	3351.9	3870.3	3947.0	4060.4	2562.6
45°	3630.3	3639.7	3667.4	3620.9	3553.6	3669.5	3692.1	4246.6	4327.2	4516.0	2825.1
47.5°	3829.8	3851.9	3859.6	3817.0	3786.3	3973.0	4019.9	4588.9	4701.8	5004.1	3103.0
50°	4083.8	4089.8	4103.0	4075.3	4044.6	4233.8	4314.0	4948.2	5050.9	5493.8	3377.1
52.5°	4332.3	4353.6	4399.6	4382.2	4369.8	4455.9	4576.1	5272.2	5386.8	5902.1	3650.7
55°	4403.9	4422.2	4581.2	4689.9	4790.5	4729.6	4826.7	5562.4	5686.5	6267.0	3914.2
57.5°	4117.9	4155.0	4430.3	4713.4	5130.6	5154.9	5171.1	5860.4	5971.6	6546.6	4188.2
60°	3395.0	3402.2	3854.1	4339.5	5074.4	5526.2	5674.1	6180.5	6273.8	6807.0	4516.4
62.5°	2159.3	2233.1	2728.8	3414.2	4479.4	5472.5	6282.3	6664.7	6698.8	7119.5	4987.0
65°	1028.5	1076.3	1433.4	2109.5	3244.5	4785.0	6702.2	7540.6	7555.9	7738.8	5615.7
67.5°	569.5	592.5	762.5	1135.5	1896.8	3383.9	6532.5	8578.1	8592.6	8371.3	6167.3
69°	445.4	465.0	598.9	855.9	1286.0	2432.1	5911.5	8882.0	8925.0	8552.5	6186.9
70°	378.1	397.3	515.7	722.9	1034.1	1879.3	5261.9	8806.5	8852.1	8535.4	6040.7
72.5°	231.4	242.5	343.5	508.9	693.1	945.4	3245.0	7447.7	7524.8	7829.6	5191.6
75°	156.0	162.0	214.8	351.2	495.7	486.8	1685.8	5249.6	5416.7	6090.5	3834.5
77.5°	111.7	117.2	144.1	227.2	347.4	321.4	763.4	3262.4	3298.2	3652.9	2091.1
80°	63.5	68.6	101.9	135.1	235.7	214.4	303.5	1558.3	1576.2	1566.4	698.2
82.5°	33.2	37.5	55.8	89.1	151.3	140.2	126.2	521.7	524.3	436.0	153.0
85°	6.4	7.7	27.7	61.0	78.0	61.0	51.6	122.3	124.9	110.4	37.9
87.5°	0.0	0.4	11.1	13.6	15.3	15.8	16.6	23.9	25.6	34.5	10.2
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: P322096

CATALOG NUMBER: GAN-SA2D-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3
2.5°	1026.0	1010.6	981.2	947.1	920.7	894.7	874.2	852.9	845.2	841.4	841.0
5°	1036.2	1003.8	941.6	877.6	825.2	775.8	740.4	706.7	690.9	683.7	680.7
7.5°	1053.2	1001.2	901.1	803.5	728.0	666.2	617.2	580.5	562.2	554.5	551.6
10°	1073.3	997.8	853.8	725.0	628.7	564.8	516.2	479.9	459.9	451.4	447.1
12.5°	1096.7	991.9	799.2	645.8	543.9	479.9	421.1	376.4	353.4	343.5	338.9
15°	1125.7	985.9	742.1	571.2	469.3	391.3	326.9	296.7	292.0	290.3	290.7
17.5°	1154.3	976.5	679.9	497.4	390.9	305.6	272.8	271.1	271.9	271.9	271.9
20°	1179.8	955.2	612.1	434.3	316.3	257.9	251.1	248.1	245.9	244.2	242.1
22.5°	1199.9	926.6	546.9	371.7	258.3	236.1	225.5	216.1	208.4	203.3	200.8
25°	1213.5	888.7	487.2	311.6	232.3	214.8	195.6	179.9	167.9	160.7	157.7
27.5°	1223.7	847.8	433.9	260.9	214.4	190.1	165.0	146.2	133.8	127.4	124.9
30°	1231.0	801.3	387.0	229.3	194.4	164.1	137.2	118.9	110.0	106.6	104.9
32.5°	1237.8	749.8	342.7	214.4	175.6	140.2	115.1	101.0	95.5	91.2	89.9
35°	1254.8	702.0	300.5	198.6	156.4	119.8	98.9	88.7	83.1	80.6	79.7
37.5°	1295.3	666.6	260.0	182.4	137.2	103.6	86.5	79.3	74.2	71.6	70.8
40°	1360.6	648.7	225.9	165.0	118.5	91.2	78.4	71.6	66.1	62.2	61.4
42.5°	1456.5	651.3	202.0	147.5	103.6	81.4	70.8	62.7	56.7	53.3	52.4
45°	1572.8	670.0	185.4	130.4	91.2	73.7	62.2	53.7	48.2	45.2	44.3
47.5°	1699.0	700.3	171.8	115.1	81.4	66.5	53.7	44.8	40.1	37.5	37.1
50°	1832.0	729.7	157.7	100.2	72.9	59.2	45.2	37.1	33.2	31.1	30.3
52.5°	1966.7	763.8	144.9	86.5	65.6	50.7	37.5	30.3	27.3	25.6	24.7
55°	2111.6	789.4	132.6	75.9	58.4	43.1	31.1	25.1	22.6	20.5	20.0
57.5°	2282.1	829.0	119.8	65.6	49.9	35.8	25.6	20.0	17.9	15.8	15.3
60°	2512.3	875.5	106.1	58.0	40.9	29.4	20.9	16.2	13.6	11.9	11.5
62.5°	2815.7	927.1	89.1	50.7	33.2	23.9	16.6	12.8	9.8	7.7	7.7
65°	3200.6	1011.0	72.9	42.6	27.3	19.6	12.8	9.4	5.5	3.4	3.4
67.5°	3425.3	1025.5	58.8	35.0	22.2	16.6	10.7	6.4	1.7	0.4	0.0
69°	3353.2	941.6	49.9	29.8	19.2	15.8	9.8	4.7	0.9	0.0	0.0
70°	3217.7	861.0	43.9	26.4	17.5	14.9	9.4	3.4	0.9	0.0	0.0
72.5°	2658.9	612.9	33.2	19.6	12.8	13.2	8.5	2.1	0.9	0.0	0.0
75°	1936.8	372.5	23.9	13.6	8.1	9.8	6.0	0.9	0.4	0.0	0.0
77.5°	1077.5	175.6	14.9	7.7	5.1	6.0	3.0	0.0	0.0	0.0	0.0
80°	349.9	47.7	6.8	4.3	3.0	3.4	1.3	0.0	0.0	0.0	0.0
82.5°	64.8	13.6	3.8	2.1	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	14.1	5.5	2.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)