

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: P322706

Luminaire Tested: **GAN-SA2A-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5381 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

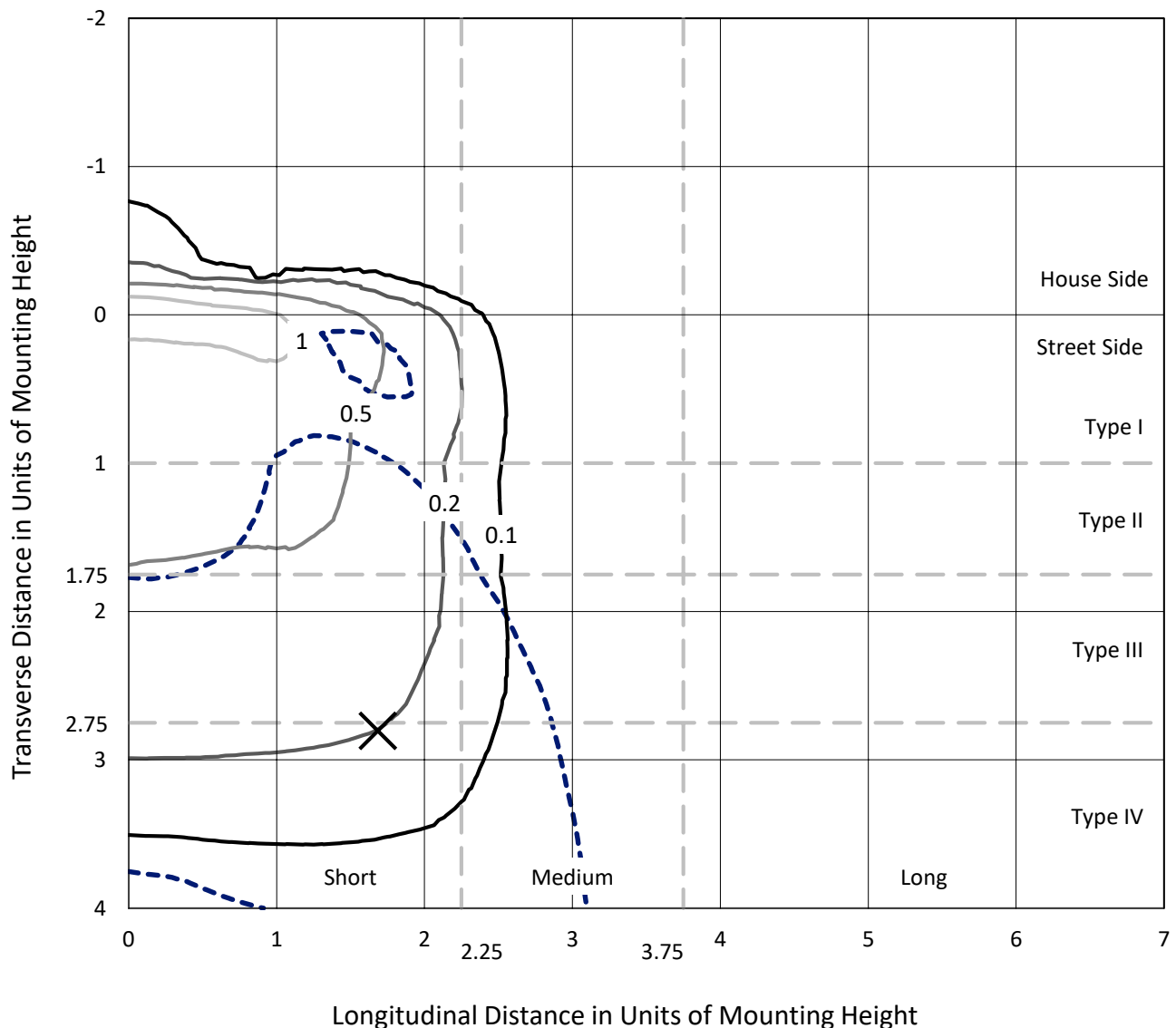
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322706
 CATALOG NUMBER: GAN-SA2A-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

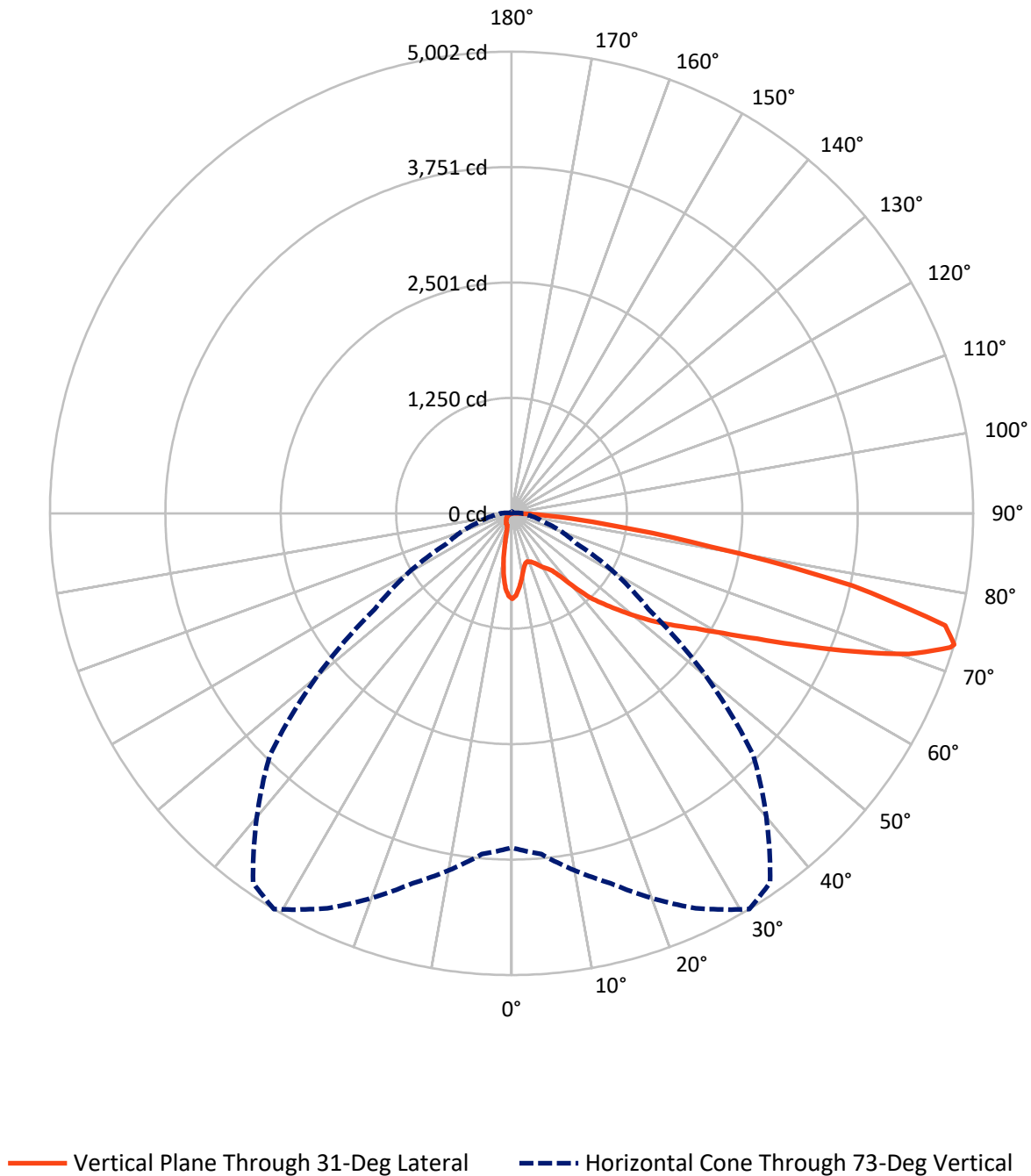
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P322706
CATALOG NUMBER: GAN-SA2A-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322706

CATALOG NUMBER: GAN-SA2A-830-U-T4FT-HSS

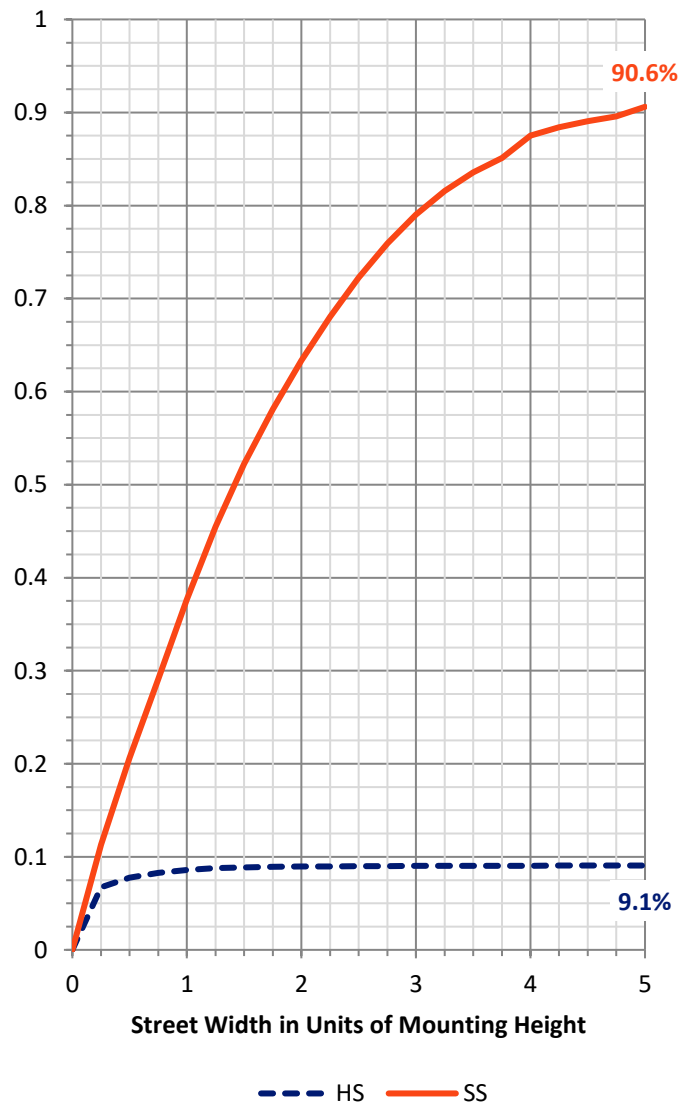
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	490.5	0.0	490.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4890.5	0.0	4890.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	5381.0	0.0	5381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.4
10°-20°	166.7	3.1
20°-30°	249.7	4.6
30°-40°	397.3	7.4
40°-50°	709.5	13.2
50°-60°	1100.9	20.5
60°-70°	1463.5	27.2
70°-80°	1100.9	20.5
80°-90°	115.7	2.1
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°	5381.0	100.0
0°-180°	5381.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322706

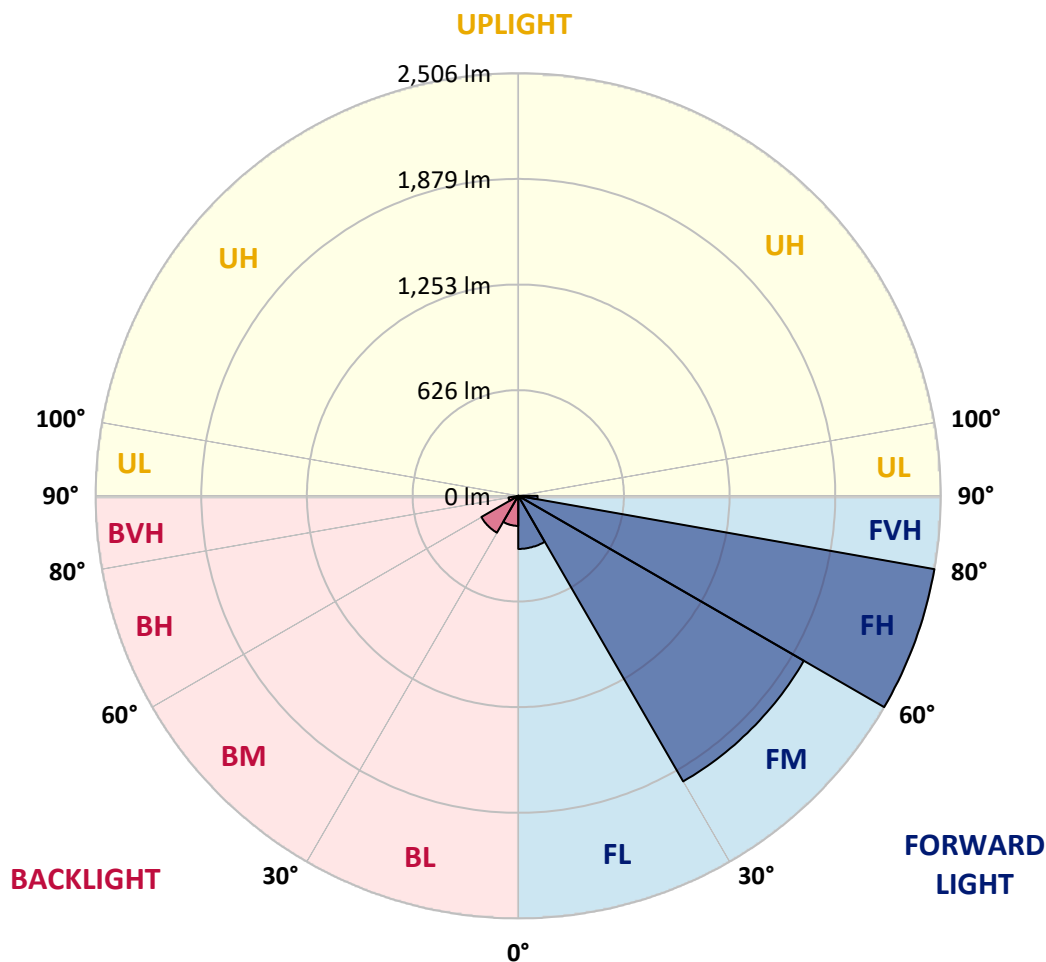
CATALOG NUMBER: GAN-SA2A-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.8	5.9			
FM	(30°-60°)	1955.3	36.3			
FH	(60°-80°)	2505.7	46.6			G2/5000
FVH	(80°-90°)	114.7	2.1			G2/225
BL	(0°-30°)	178.4	3.3	B1/500		
BM	(30°-60°)	252.5	4.7	B1/1000		
BH	(60°-80°)	58.7	1.1	B0/110		G0/110
BVH	(80°-90°)	1.0	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 IV Short





REPORT NUMBER: P322706

CATALOG NUMBER: GAN-SA2A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8
2.5°	877.4	881.0	885.0	885.8	892.4	892.6	902.1	909.2	916.3	923.2	925.5
5°	787.3	793.4	800.5	807.6	821.5	827.1	850.2	873.9	896.6	918.2	928.7
7.5°	691.2	698.0	708.1	725.7	741.2	752.0	788.6	830.8	872.9	912.6	935.6
10°	603.5	609.8	620.4	639.1	663.0	677.8	727.0	785.5	847.3	907.6	945.8
12.5°	547.7	551.1	556.9	576.9	598.5	615.1	673.0	745.4	826.3	907.4	962.4
15°	537.4	538.5	533.7	542.7	559.5	575.6	634.3	713.1	810.2	911.6	984.0
17.5°	553.7	553.2	537.4	536.4	549.8	563.0	615.4	690.7	798.9	921.3	1011.9
20°	578.5	576.7	549.3	544.3	558.5	570.9	614.0	682.2	794.7	937.7	1045.9
22.5°	611.4	608.3	565.3	560.1	575.3	588.2	630.4	690.4	798.4	959.5	1085.4
25°	652.2	647.5	593.0	587.2	602.7	615.6	659.6	713.8	809.4	986.1	1135.4
27.5°	698.3	691.5	637.2	622.2	639.9	653.3	698.6	749.7	826.8	1014.3	1196.8
30°	741.8	732.8	683.8	659.1	680.7	695.7	740.7	792.3	854.7	1057.7	1280.8
32.5°	785.5	775.5	725.4	695.9	715.4	731.7	784.1	851.0	907.1	1124.1	1392.4
35°	886.1	875.5	814.2	765.5	765.2	774.4	845.0	931.3	976.4	1216.5	1525.6
37.5°	1055.4	1049.3	990.9	898.4	873.7	863.4	927.9	1027.2	1075.9	1343.7	1676.0
40°	1240.7	1235.5	1169.9	1086.2	1048.5	1023.2	1046.9	1160.7	1216.5	1499.0	1829.5
42.5°	1450.1	1425.1	1308.1	1283.1	1249.4	1230.2	1208.9	1325.3	1389.2	1668.1	1981.7
45°	1640.2	1598.1	1446.4	1408.5	1400.8	1405.6	1417.4	1546.4	1583.6	1869.0	2133.4
47.5°	1753.4	1720.2	1603.8	1567.5	1565.4	1596.7	1686.3	1796.3	1777.1	2044.1	2266.9
50°	1861.1	1831.1	1734.4	1743.4	1753.1	1795.8	1991.4	2053.3	1953.8	2202.9	2389.3
52.5°	1948.3	1902.4	1851.9	1902.2	1950.1	2018.8	2306.4	2284.0	2079.1	2329.3	2494.1
55°	1998.6	1977.8	2002.2	2052.8	2142.8	2254.5	2603.6	2475.9	2170.8	2444.6	2563.9
57.5°	2182.9	2142.1	2190.8	2234.5	2351.9	2508.1	2858.3	2618.9	2236.9	2516.0	2580.0
60°	2405.9	2373.0	2401.7	2474.4	2632.9	2816.4	3096.3	2735.6	2271.3	2561.8	2538.3
62.5°	2760.8	2717.4	2699.5	2780.9	2991.0	3191.4	3276.9	2816.4	2263.7	2541.5	2395.6
65°	3236.4	3191.4	3111.3	3185.0	3452.3	3593.7	3478.9	2833.5	2211.0	2377.5	2034.9
67.5°	3723.5	3690.9	3622.4	3746.7	3987.9	4033.4	3692.5	2791.9	2041.5	1927.7	1437.7
70°	4045.3	4031.3	4075.8	4350.7	4565.9	4552.7	3888.4	2568.4	1591.2	1185.4	711.2
72.5°	3813.3	3880.2	4208.8	4707.3	4970.1	4862.6	3787.8	1972.2	909.5	456.1	205.6
73°	3621.1	3706.7	4149.0	4720.7	5001.9	4884.2	3703.2	1810.3	775.2	360.0	155.9
75°	2519.1	2624.2	3434.9	4396.6	4852.9	4653.5	3086.8	1108.0	359.2	159.6	62.9
77.5°	1223.1	1300.8	1891.4	3176.6	3774.1	3635.8	1921.7	412.9	162.2	99.8	29.0
80°	456.6	507.7	821.0	1616.7	2181.0	2238.2	845.2	156.1	108.0	80.3	14.7
82.5°	119.5	133.2	302.8	721.0	1117.8	1169.9	266.5	78.7	79.0	66.1	9.0
85°	38.2	43.7	94.5	323.6	526.6	462.4	69.5	38.2	57.4	49.2	5.0
87.5°	4.7	6.1	30.0	76.1	116.1	64.5	10.8	11.3	24.5	27.4	2.9
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: P322706

CATALOG NUMBER: GAN-SA2A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8
2.5°	927.9	926.6	926.9	920.0	915.5	906.6	897.4	893.2	888.7	886.8	888.7
5°	932.7	930.3	923.4	902.4	880.0	851.0	823.9	803.4	777.6	770.5	777.8
7.5°	940.0	935.3	915.3	872.4	822.6	767.3	705.2	659.9	622.7	598.8	607.5
10°	950.8	941.9	901.6	828.6	739.6	641.7	553.5	484.8	436.0	416.0	415.2
12.5°	969.0	952.1	884.7	771.8	638.3	507.7	392.1	317.6	278.1	252.5	252.0
15°	989.0	964.3	863.4	703.6	520.3	363.6	252.5	195.9	170.4	162.2	161.1
17.5°	1013.5	978.2	835.8	619.6	396.8	240.9	164.8	148.5	147.5	146.7	146.7
20°	1044.3	994.8	800.2	523.5	281.5	160.9	140.1	141.1	141.7	140.6	140.9
22.5°	1080.1	1011.7	757.8	420.2	190.4	134.6	134.0	135.3	135.9	135.3	135.6
25°	1121.7	1031.1	706.2	312.0	137.4	127.7	129.0	130.9	132.2	132.2	132.2
27.5°	1173.3	1054.8	644.1	217.8	118.8	120.6	124.3	127.7	129.6	130.1	130.1
30°	1240.5	1084.3	569.5	149.3	108.0	111.1	118.0	124.5	128.0	128.5	128.8
32.5°	1325.3	1117.5	483.2	110.3	98.7	101.1	108.5	119.5	126.1	127.2	127.2
35°	1422.4	1155.9	390.2	96.1	92.2	92.9	98.7	111.4	123.0	125.9	126.1
37.5°	1528.8	1193.9	296.8	89.8	86.6	86.6	90.8	101.6	115.3	124.3	125.3
40°	1628.1	1216.8	208.0	84.8	81.6	81.6	85.3	93.2	106.1	119.5	122.4
42.5°	1719.7	1224.7	144.8	80.0	76.9	77.7	80.8	87.2	96.9	110.3	113.0
45°	1814.0	1223.4	105.6	74.5	72.1	74.5	76.9	81.6	88.7	96.4	96.9
47.5°	1885.1	1212.3	83.7	69.3	67.7	70.8	72.9	76.1	80.0	79.5	79.5
50°	1951.7	1185.4	67.4	62.1	63.2	66.9	67.9	69.0	69.3	64.2	63.7
52.5°	2002.2	1143.6	54.0	54.5	58.7	62.4	61.4	59.8	57.1	51.1	50.0
55°	2019.1	1063.0	42.4	45.0	52.1	56.9	52.9	49.5	44.5	39.5	38.4
57.5°	1988.5	959.0	34.5	35.0	44.0	47.9	43.4	39.5	34.0	29.8	29.0
60°	1923.8	843.4	28.4	26.3	34.0	37.4	34.5	30.5	25.5	22.4	22.1
62.5°	1795.3	720.2	23.4	20.5	25.8	28.7	26.9	24.0	19.7	17.6	17.4
65°	1525.1	576.1	19.0	16.6	20.0	22.4	20.8	18.7	15.5	14.0	13.7
67.5°	1064.6	389.4	15.5	13.7	15.8	17.6	16.3	15.3	12.4	12.1	12.4
70°	513.5	187.7	12.9	11.1	12.4	13.7	13.2	12.4	11.8	13.7	15.8
72.5°	147.2	62.9	10.3	9.2	10.0	10.8	11.3	11.1	12.9	16.6	19.2
73°	113.2	50.8	9.7	8.7	9.5	10.5	11.1	10.8	13.2	16.9	19.2
75°	48.4	24.5	7.4	7.1	7.9	9.2	9.7	9.7	13.2	17.1	18.4
77.5°	21.9	13.2	4.7	5.5	6.8	7.4	8.2	8.2	10.5	13.2	13.2
80°	12.4	7.1	3.7	4.2	5.0	5.0	5.0	4.5	4.7	5.3	5.8
82.5°	7.9	4.7	2.9	3.4	3.2	2.6	2.1	2.1	1.8	2.1	2.6
85°	4.5	2.6	2.6	2.1	1.3	1.1	1.3	1.1	0.3	0.0	0.3
87.5°	2.6	1.6	0.8	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)