

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: P321427

Luminaire Tested: **GAN-SA3A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9126 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

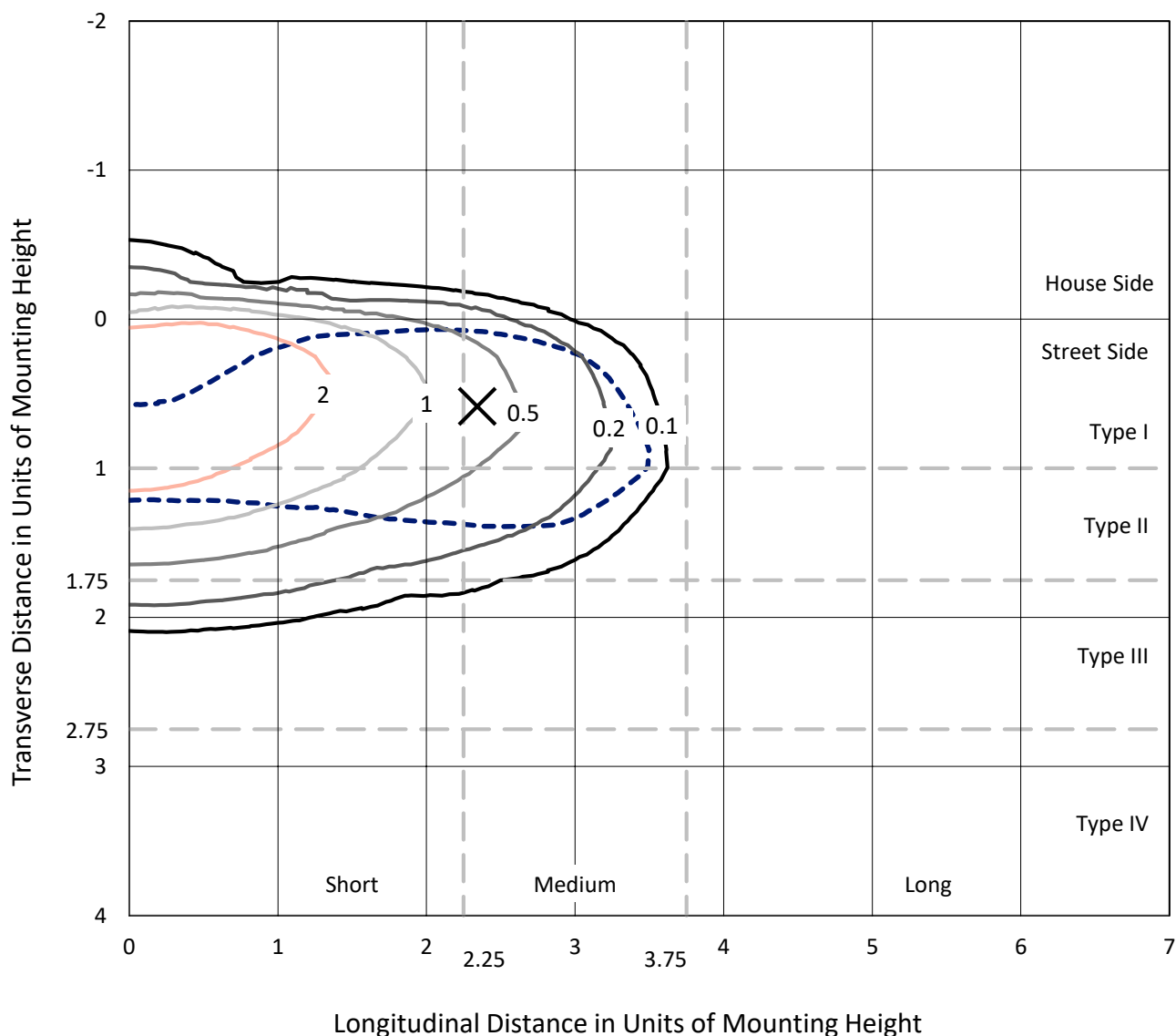
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321427
 CATALOG NUMBER: GAN-SA3A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

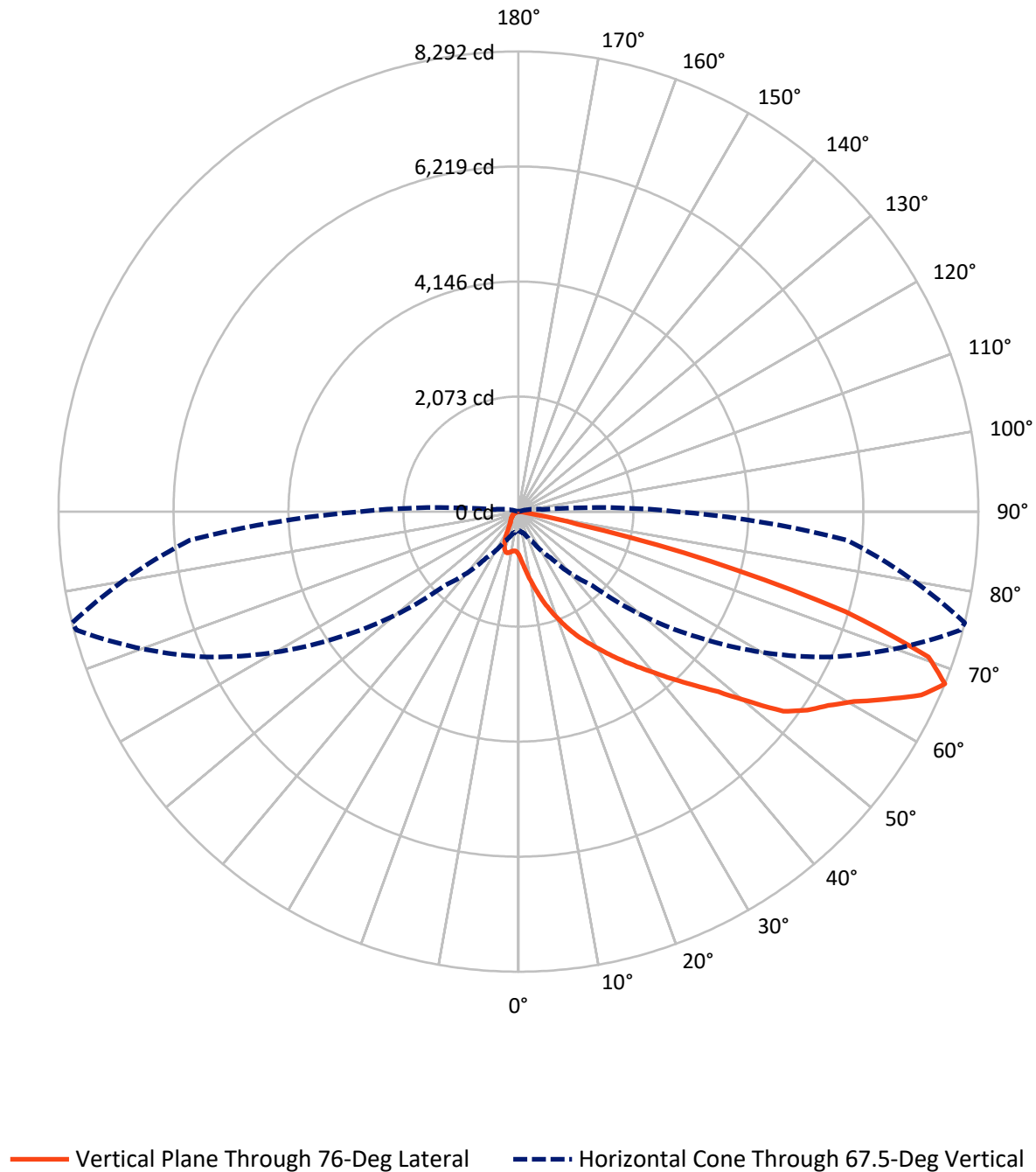
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P321427
CATALOG NUMBER: GAN-SA3A-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321427

CATALOG NUMBER: GAN-SA3A-830-U-T2R-HSS

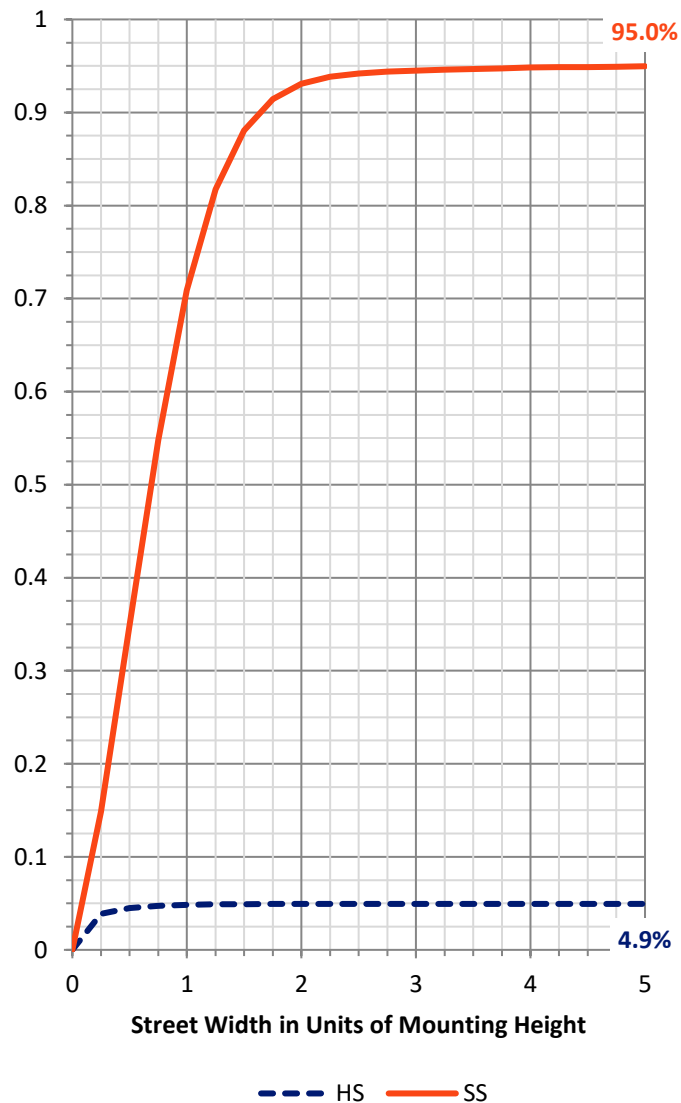
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.2	0.0	453.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8672.8	0.0	8672.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	9126.0	0.0	9126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	1.1
10°-20°	381.6	4.2
20°-30°	776.4	8.5
30°-40°	1347.7	14.8
40°-50°	1904.1	20.9
50°-60°	2159.3	23.7
60°-70°	1790.9	19.6
70°-80°	648.7	7.1
80°-90°	21.0	0.2
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°	9126.0	100.0
0°-180°	9126.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321427

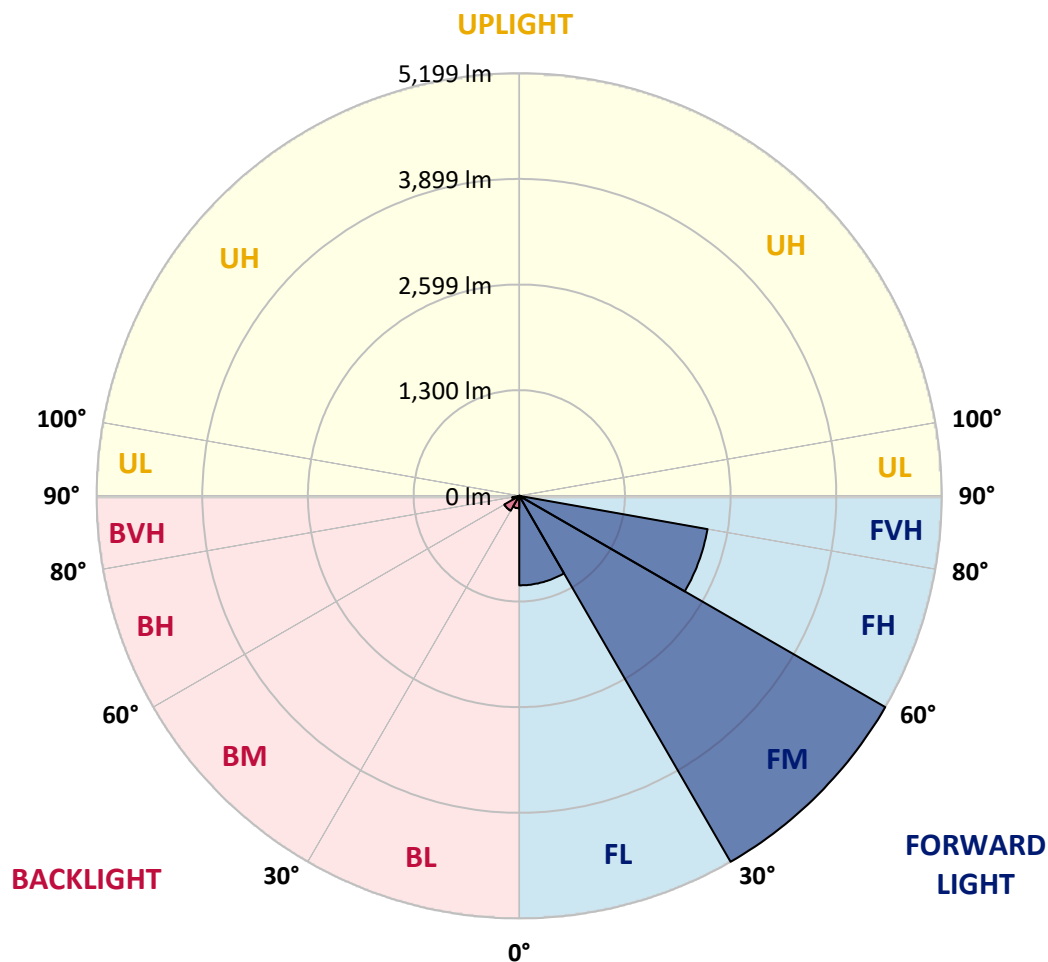
CATALOG NUMBER: GAN-SA3A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.5	12.1			
FM	(30°-60°)	5198.9	57.0			
FH	(60°-80°)	2352.1	25.8			G2/5000
FVH	(80°-90°)	20.4	0.2			G1/100
BL	(0°-30°)	152.8	1.7	B1/500		
BM	(30°-60°)	212.1	2.3	B0/220		
BH	(60°-80°)	87.6	1.0	B0/110		G0/110
BVH	(80°-90°)	0.7	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: P321427

CATALOG NUMBER: GAN-SA3A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1
2.5°	1155.6	1129.6	1135.6	1118.8	1088.4	1026.1	972.9	922.5	863.7	861.7	813.3
5°	1558.3	1536.3	1533.5	1499.5	1444.3	1338.4	1235.2	1117.6	986.5	976.9	874.1
7.5°	1923.8	1906.2	1899.8	1859.4	1756.6	1653.5	1519.1	1346.4	1141.2	1123.6	956.1
10°	2204.5	2196.1	2197.7	2168.9	2080.9	1985.0	1808.6	1588.3	1316.8	1289.6	1054.5
12.5°	2417.2	2419.2	2433.6	2416.0	2366.8	2295.7	2107.3	1846.2	1511.1	1473.9	1166.8
15°	2573.6	2583.6	2610.0	2631.9	2628.3	2566.8	2394.0	2108.1	1717.4	1676.3	1292.0
17.5°	2674.7	2685.9	2724.3	2773.1	2817.9	2803.5	2670.7	2360.8	1926.2	1878.6	1425.9
20°	2763.5	2776.7	2817.9	2882.3	2965.8	2983.8	2896.7	2606.0	2134.5	2076.5	1564.3
22.5°	2955.8	2955.4	2980.6	3018.2	3097.8	3144.2	3089.0	2833.5	2340.4	2280.1	1705.4
25°	3303.7	3290.5	3281.7	3252.1	3269.7	3298.5	3267.7	3046.2	2547.6	2486.4	1848.6
27.5°	3717.2	3725.2	3654.0	3574.4	3512.9	3483.3	3432.9	3243.3	2746.7	2679.5	1988.6
30°	4153.5	4155.9	4071.9	3970.3	3834.8	3722.4	3635.2	3431.7	2951.4	2878.3	2124.5
32.5°	4546.9	4531.3	4448.2	4309.8	4138.7	4012.3	3831.2	3642.0	3168.2	3097.4	2275.7
35°	4858.8	4840.4	4739.3	4613.3	4435.8	4308.6	4090.7	3852.0	3396.1	3326.9	2427.2
37.5°	5086.8	5065.2	4961.2	4831.6	4678.5	4604.5	4391.8	4080.3	3644.8	3570.4	2586.8
40°	5165.9	5147.1	5082.0	4987.2	4864.0	4847.2	4711.3	4343.0	3915.5	3836.4	2767.5
42.5°	5118.7	5100.3	5077.2	5045.2	4994.0	5010.0	5012.8	4642.5	4216.2	4138.3	2967.0
45°	4931.6	4915.2	4939.2	4986.0	5049.6	5128.7	5287.9	4964.4	4552.1	4469.0	3197.8
47.5°	4656.1	4644.1	4710.5	4827.2	5013.2	5231.5	5539.4	5302.7	4929.2	4852.0	3485.7
50°	4264.2	4262.2	4395.0	4608.1	4894.0	5281.1	5799.3	5687.4	5453.0	5371.9	3885.9
52.5°	3654.0	3658.0	3919.1	4260.2	4684.9	5247.5	5966.5	6181.6	6062.4	5978.1	4232.6
55°	3073.0	3097.0	3282.1	3774.0	4364.2	5122.7	6024.0	6412.3	6398.7	6318.8	4425.4
57.5°	2504.0	2547.6	2725.9	3185.4	3895.9	4835.2	5992.5	6512.3	6649.0	6587.9	4679.7
60°	1887.4	1907.4	2112.9	2542.4	3294.9	4310.6	5763.3	6566.7	6991.3	6948.9	5048.8
62.5°	1200.8	1250.8	1433.1	1847.4	2565.6	3582.0	5377.1	6565.9	7419.6	7442.8	5525.0
65°	632.6	691.0	787.7	1144.8	1763.0	2768.3	4796.0	6504.3	7945.0	7977.4	5897.3
67.5°	341.1	357.9	409.1	594.2	1022.5	1875.4	3942.3	6200.4	8249.3	8292.1	5949.3
70°	249.5	258.7	277.9	328.7	514.6	1089.2	2876.7	5511.4	7857.1	7841.1	5285.9
72.5°	191.5	205.9	220.3	240.7	295.9	581.4	1791.0	4315.8	6269.2	6163.6	3951.1
75°	151.2	153.6	173.9	192.3	221.9	331.1	795.3	2513.6	3826.4	3576.4	2048.9
77.5°	120.8	122.4	134.4	150.4	178.3	217.5	246.3	988.9	1221.6	1090.0	444.7
80°	71.6	75.6	100.0	116.0	148.0	137.2	90.0	214.7	190.7	172.7	74.8
82.5°	40.0	43.2	56.4	91.6	103.2	65.6	44.8	58.0	44.8	43.6	21.2
85°	0.0	2.0	36.4	56.8	42.0	14.4	18.8	19.2	13.2	12.4	8.4
87.5°	0.0	0.0	11.2	10.8	1.6	2.4	4.4	6.4	5.2	5.2	4.4
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: P321427

CATALOG NUMBER: GAN-SA3A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1	774.1
2.5°	789.3	767.8	727.0	687.0	653.4	625.8	601.0	591.0	583.0	581.8	575.4
5°	824.5	780.9	703.0	639.0	596.2	565.8	539.8	523.8	511.4	506.6	502.2
7.5°	877.7	811.7	699.8	626.2	575.0	523.8	475.8	423.9	391.5	379.1	371.9
10°	942.5	852.5	711.8	622.6	533.0	425.1	345.5	279.5	252.7	243.9	241.5
12.5°	1018.1	903.3	732.6	600.2	443.5	301.9	238.3	215.9	209.9	207.1	207.1
15°	1104.8	958.9	747.4	535.4	327.9	228.3	206.3	195.9	189.5	185.9	186.3
17.5°	1193.6	1013.3	740.2	441.5	241.9	203.1	186.7	175.5	166.7	163.1	162.3
20°	1283.2	1063.7	700.2	328.7	204.7	184.3	165.9	153.6	144.8	141.2	140.4
22.5°	1376.0	1106.4	629.8	241.1	183.9	163.5	145.6	133.2	124.8	121.6	120.0
25°	1466.3	1141.2	531.4	195.1	164.3	144.0	126.8	115.2	107.6	104.4	104.0
27.5°	1550.7	1163.2	417.5	172.3	147.2	126.4	110.8	100.4	94.0	91.6	91.2
30°	1626.7	1165.2	308.7	155.5	132.0	111.2	96.8	87.6	82.0	79.6	78.8
32.5°	1703.4	1148.4	224.7	140.4	118.0	98.0	84.0	76.8	72.8	70.8	70.8
35°	1775.8	1109.6	175.1	127.2	104.4	85.2	74.0	68.8	66.4	64.4	64.4
37.5°	1846.6	1054.1	148.8	115.6	91.6	74.4	65.2	62.0	60.0	58.0	58.0
40°	1918.6	984.1	135.2	104.8	81.2	66.0	58.0	55.2	53.2	51.6	51.2
42.5°	2006.9	903.3	126.4	94.8	72.0	58.4	51.2	48.0	46.4	44.8	44.0
45°	2109.3	833.7	119.2	84.8	64.4	52.0	44.4	41.2	38.8	36.8	36.4
47.5°	2256.9	783.3	109.6	74.0	57.2	45.2	38.4	34.8	31.2	29.2	28.8
50°	2445.2	741.8	97.2	64.4	50.0	38.4	32.0	27.6	24.4	22.4	22.4
52.5°	2538.8	687.4	86.0	56.0	42.0	32.4	26.0	20.8	19.2	17.2	17.2
55°	2576.4	645.8	74.8	47.6	34.8	26.8	20.4	16.0	14.8	13.6	13.2
57.5°	2681.9	633.8	65.2	40.4	28.8	21.2	15.6	12.0	11.2	9.6	9.6
60°	2851.9	639.8	56.4	34.4	23.2	16.4	11.6	9.2	8.4	6.8	6.8
62.5°	3035.4	632.2	47.6	29.6	18.0	12.0	8.0	6.8	6.8	4.0	3.6
65°	3070.6	563.0	40.8	24.4	14.0	8.8	5.2	4.4	6.0	0.8	0.0
67.5°	2849.9	436.7	35.2	18.8	10.4	6.8	4.0	2.0	5.2	0.0	0.0
70°	2278.9	277.5	28.4	13.6	8.0	5.6	3.2	0.8	4.0	0.0	0.0
72.5°	1611.5	161.1	22.4	9.6	6.8	4.4	2.4	0.0	2.4	0.0	0.0
75°	814.9	86.0	14.0	7.2	5.2	3.2	1.6	0.0	0.4	0.0	0.0
77.5°	176.3	40.0	8.8	5.2	3.6	2.0	0.8	0.0	0.0	0.0	0.0
80°	38.4	17.6	5.6	3.2	2.0	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	14.0	9.2	2.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.6	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.6	0.4	0.4	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)