

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: P321430

Luminaire Tested: **GAN-SA6A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321430
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-SA6A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 17878 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

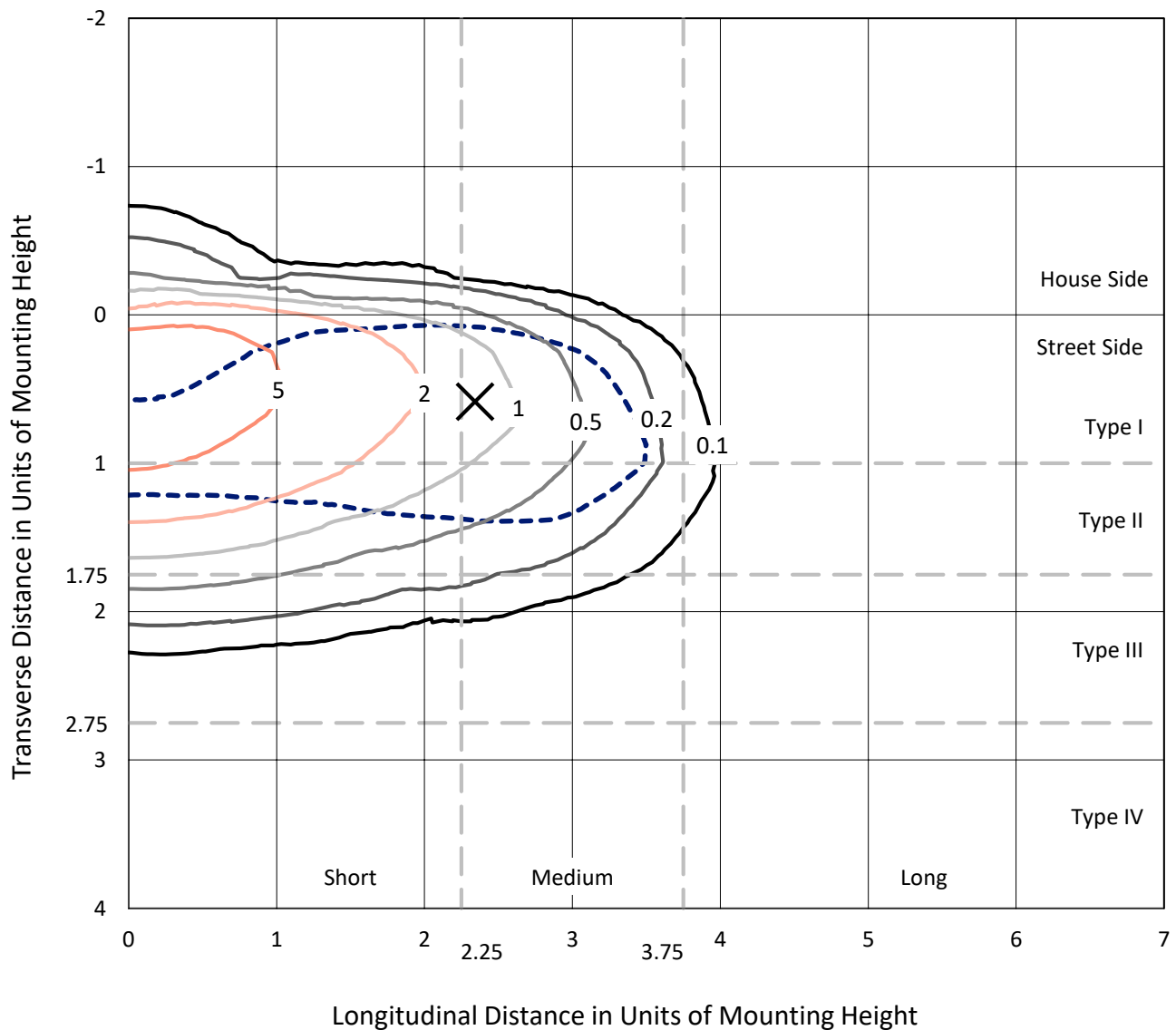
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321430
 CATALOG NUMBER: GAN-SA6A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

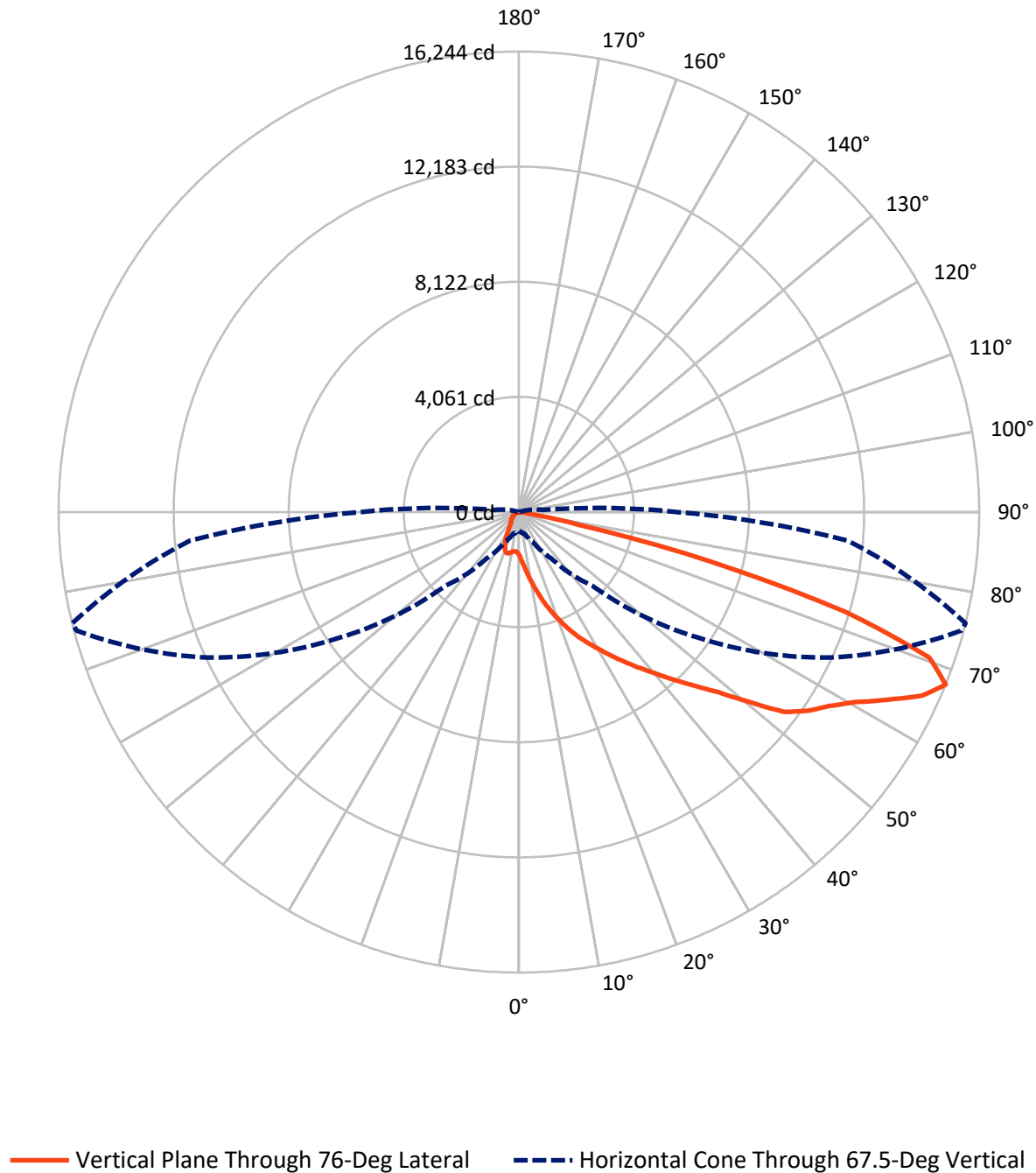
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P321430
CATALOG NUMBER: GAN-SA6A-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321430

CATALOG NUMBER: GAN-SA6A-830-U-T2R-HSS

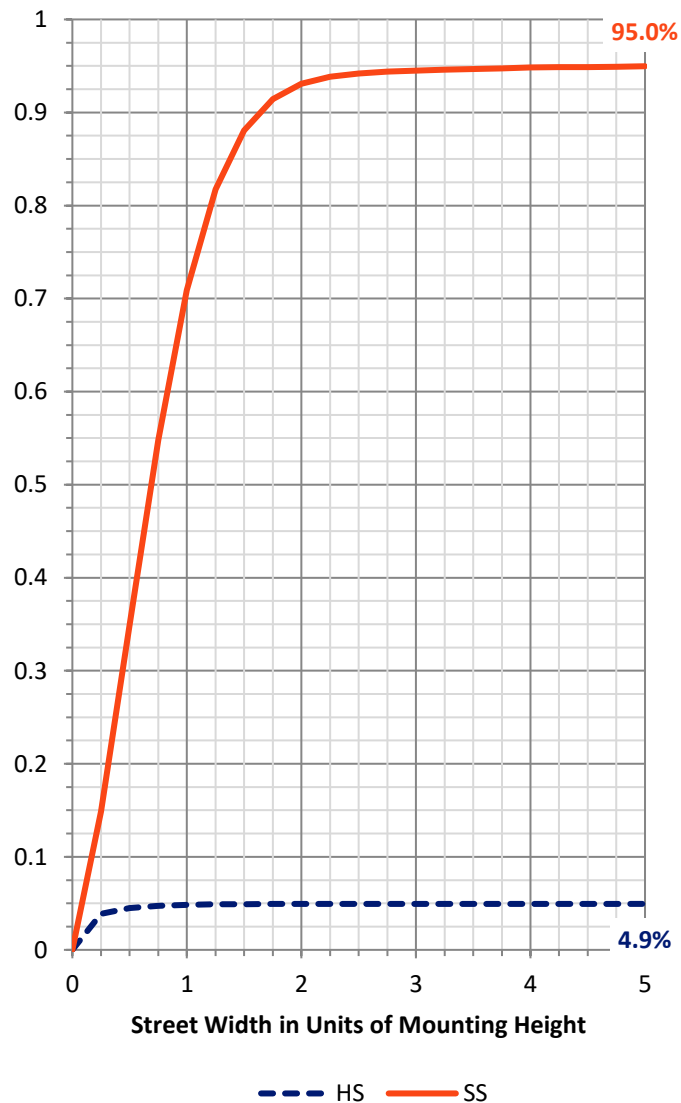
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.8	0.0	887.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16990.2	0.0	16990.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	17878.0	0.0	17878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	1.1
10°-20°	747.6	4.2
20°-30°	1521.1	8.5
30°-40°	2640.1	14.8
40°-50°	3730.1	20.9
50°-60°	4230.1	23.7
60°-70°	3508.5	19.6
70°-80°	1270.9	7.1
80°-90°	41.2	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°	17878.0	100.0
0°-180°	17878.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321430

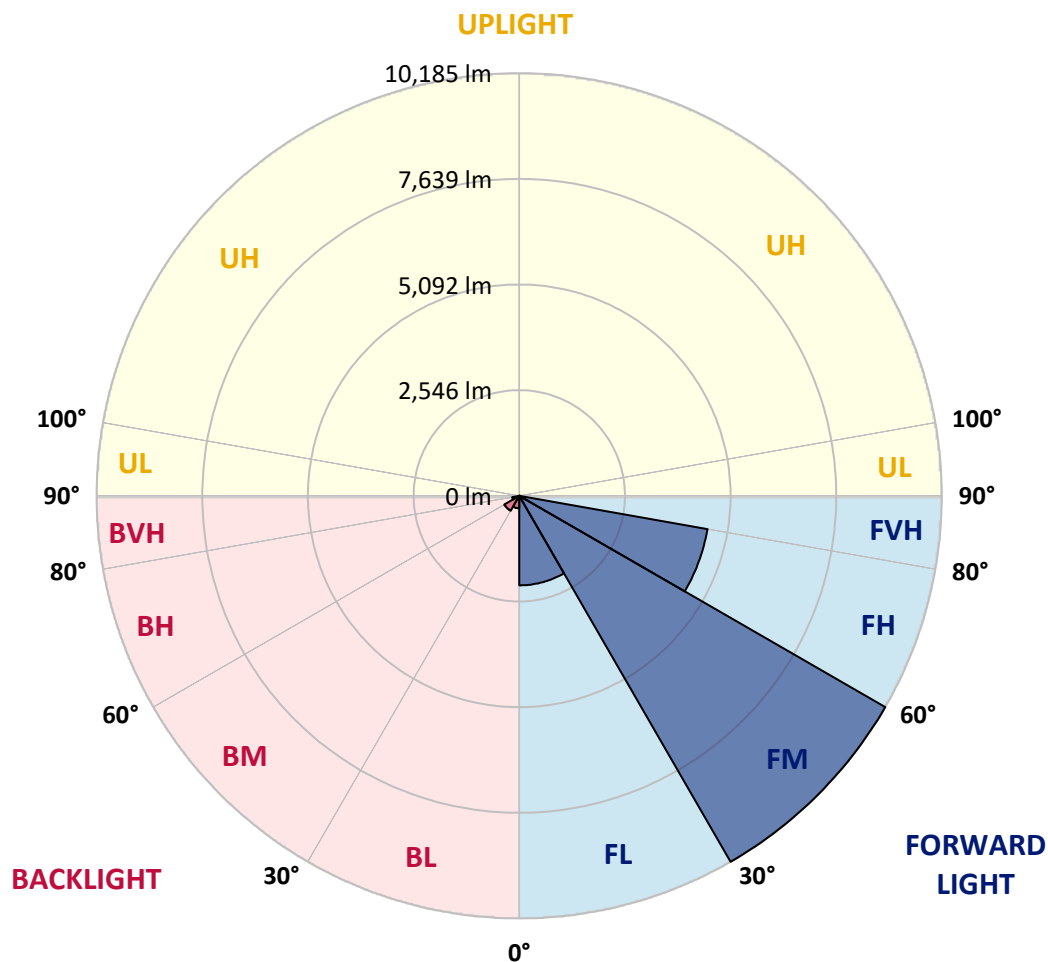
CATALOG NUMBER: GAN-SA6A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2157.8	12.1			
FM	(30°-60°)	10184.7	57.0			
FH	(60°-80°)	4607.8	25.8			G2/5000
FVH	(80°-90°)	39.9	0.2			G1/100
BL	(0°-30°)	299.4	1.7	B1/500		
BM	(30°-60°)	415.5	2.3	B1/1000		
BH	(60°-80°)	171.6	1.0	B1/500		G1/500
BVH	(80°-90°)	1.3	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: P321430

CATALOG NUMBER: GAN-SA6A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6
2.5°	2263.9	2213.0	2224.7	2191.8	2132.3	2010.1	1905.9	1807.2	1692.0	1688.1	1593.3
5°	3052.7	3009.6	3004.2	2937.6	2829.5	2621.9	2419.8	2189.5	1932.5	1913.7	1712.4
7.5°	3768.7	3734.2	3721.7	3642.6	3441.3	3239.2	2976.0	2637.6	2235.7	2201.2	1873.0
10°	4318.6	4302.2	4305.3	4248.9	4076.6	3888.6	3543.1	3111.5	2579.6	2526.3	2065.7
12.5°	4735.4	4739.3	4767.5	4733.0	4636.7	4497.2	4128.3	3616.7	2960.3	2887.4	2285.8
15°	5041.7	5061.2	5112.9	5156.0	5149.0	5028.3	4689.9	4129.8	3364.5	3283.8	2531.0
17.5°	5239.9	5261.8	5337.0	5432.6	5520.3	5492.1	5232.0	4624.9	3773.4	3680.2	2793.4
20°	5413.8	5439.6	5520.3	5646.4	5810.1	5845.4	5674.6	5105.1	4181.5	4068.0	3064.5
22.5°	5790.5	5789.8	5839.1	5912.8	6068.6	6159.5	6051.4	5550.8	4585.0	4466.7	3341.0
25°	6472.1	6446.2	6429.0	6371.0	6405.5	6461.9	6401.6	5967.6	4990.7	4870.9	3621.4
27.5°	7282.1	7297.7	7158.3	7002.4	6881.8	6823.8	6725.1	6353.8	5380.9	5249.3	3895.6
30°	8136.7	8141.4	7976.9	7777.9	7512.4	7292.2	7121.5	6722.7	5781.9	5638.6	4162.0
32.5°	8907.5	8877.0	8714.0	8443.0	8107.7	7860.2	7505.3	7134.8	6206.5	6067.9	4458.1
35°	9518.5	9482.5	9284.3	9037.5	8689.7	8440.6	8013.7	7546.0	6653.0	6517.5	4755.0
37.5°	9965.0	9922.7	9719.1	9465.3	9165.2	9020.3	8603.6	7993.3	7140.3	6994.6	5067.5
40°	10120.1	10083.3	9955.6	9770.0	9528.7	9495.8	9229.5	8508.0	7670.6	7515.5	5421.6
42.5°	10027.7	9991.7	9946.2	9883.6	9783.3	9814.6	9820.1	9094.7	8259.7	8106.9	5812.5
45°	9661.1	9629.0	9676.0	9767.6	9892.2	10047.3	10359.1	9725.3	8917.7	8754.8	6264.5
47.5°	9121.4	9097.9	9227.9	9456.6	9820.9	10248.6	10851.8	10388.0	9656.4	9505.2	6828.5
50°	8353.7	8349.8	8609.8	9027.4	9587.5	10345.7	11361.0	11141.6	10682.6	10523.6	7612.6
52.5°	7158.3	7166.1	7677.6	8345.8	9177.8	10279.9	11688.4	12109.9	11876.4	11711.1	8291.8
55°	6020.1	6067.1	6429.8	7393.3	8549.5	10035.5	11801.2	12561.9	12535.2	12378.6	8669.4
57.5°	4905.4	4990.7	5340.1	6240.2	7632.2	9472.3	11739.3	12757.7	13025.6	12905.7	9167.6
60°	3697.4	3736.6	4139.2	4980.6	6454.8	8444.5	11290.5	12864.2	13696.2	13613.1	9890.6
62.5°	2352.4	2450.3	2807.5	3619.1	5026.0	7017.3	10533.8	12862.7	14535.1	14580.6	10823.6
65°	1239.3	1353.6	1543.2	2242.7	3453.8	5423.2	9395.5	12742.0	15564.4	15627.9	11552.9
67.5°	668.2	701.1	801.4	1164.1	2003.0	3673.9	7723.1	12146.7	16160.6	16244.4	11654.7
70°	488.8	506.8	544.4	643.9	1008.2	2133.9	5635.4	10797.0	15392.1	15360.8	10355.1
72.5°	375.2	403.4	431.6	471.6	579.7	1139.0	3508.6	8454.7	12281.4	12074.6	7740.3
75°	296.1	300.8	340.8	376.8	434.8	648.6	1558.1	4924.2	7495.9	7006.3	4013.9
77.5°	236.6	239.7	263.2	294.5	349.4	426.1	482.5	1937.2	2393.1	2135.4	871.1
80°	140.2	148.1	195.8	227.2	289.8	268.7	176.3	420.7	373.7	338.4	146.5
82.5°	78.3	84.6	110.5	179.4	202.1	128.5	87.7	113.6	87.7	85.4	41.5
85°	0.0	3.9	71.3	111.2	82.3	28.2	36.8	37.6	25.9	24.3	16.5
87.5°	0.0	0.0	21.9	21.2	3.1	4.7	8.6	12.5	10.2	10.2	8.6
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: P321430

CATALOG NUMBER: GAN-SA6A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6	1516.6
2.5°	1546.3	1504.0	1424.1	1345.8	1280.0	1225.9	1177.4	1157.8	1142.1	1139.8	1127.2
5°	1615.3	1529.9	1377.1	1251.8	1168.0	1108.4	1057.5	1026.2	1001.9	992.5	983.9
7.5°	1719.5	1590.2	1370.9	1226.7	1126.5	1026.2	932.2	830.4	766.9	742.6	728.5
10°	1846.4	1670.1	1394.4	1219.7	1044.2	832.7	676.8	547.6	495.1	477.8	473.1
12.5°	1994.4	1769.6	1435.1	1175.8	868.7	591.4	466.9	423.0	411.3	405.8	405.8
15°	2164.4	1878.5	1464.1	1048.9	642.3	447.3	404.2	383.8	371.3	364.3	365.0
17.5°	2338.3	1985.0	1450.0	864.8	473.9	397.9	365.8	343.9	326.7	319.6	318.0
20°	2513.8	2083.7	1371.7	643.9	401.1	361.1	325.1	300.8	283.6	276.5	275.0
22.5°	2695.5	2167.5	1233.8	472.4	360.3	320.4	285.1	260.9	244.4	238.1	235.0
25°	2872.6	2235.7	1041.1	382.3	322.0	282.0	248.3	225.6	210.7	204.5	203.7
27.5°	3037.8	2278.8	817.8	337.6	288.3	247.5	217.0	196.6	184.1	179.4	178.6
30°	3186.7	2282.7	604.7	304.7	258.5	217.8	189.6	171.6	160.6	155.9	154.3
32.5°	3337.1	2249.8	440.2	275.0	231.1	191.9	164.5	150.4	142.6	138.7	138.7
35°	3478.9	2173.8	343.1	249.1	204.5	166.9	144.9	134.7	130.0	126.1	126.1
37.5°	3617.5	2064.9	291.4	226.4	179.4	145.7	127.7	121.4	117.5	113.6	113.6
40°	3758.5	1927.8	264.8	205.2	159.0	129.3	113.6	108.1	104.2	101.1	100.3
42.5°	3931.7	1769.6	247.5	185.7	141.0	114.4	100.3	94.0	90.9	87.7	86.2
45°	4132.2	1633.3	233.4	166.1	126.1	101.8	87.0	80.7	76.0	72.1	71.3
47.5°	4421.2	1534.6	214.6	144.9	112.0	88.5	75.2	68.2	61.1	57.2	56.4
50°	4790.2	1453.1	190.4	126.1	97.9	75.2	62.7	54.1	47.8	43.9	43.9
52.5°	4973.5	1346.6	168.4	109.7	82.3	63.5	50.9	40.7	37.6	33.7	33.7
55°	5047.1	1265.1	146.5	93.2	68.2	52.5	40.0	31.3	29.0	26.6	25.9
57.5°	5254.0	1241.6	127.7	79.1	56.4	41.5	30.6	23.5	21.9	18.8	18.8
60°	5586.9	1253.4	110.5	67.4	45.4	32.1	22.7	18.0	16.5	13.3	13.3
62.5°	5946.4	1238.5	93.2	58.0	35.3	23.5	15.7	13.3	13.3	7.8	7.1
65°	6015.4	1103.0	79.9	47.8	27.4	17.2	10.2	8.6	11.8	1.6	0.0
67.5°	5583.0	855.4	68.9	36.8	20.4	13.3	7.8	3.9	10.2	0.0	0.0
70°	4464.3	543.6	55.6	26.6	15.7	11.0	6.3	1.6	7.8	0.0	0.0
72.5°	3156.9	315.7	43.9	18.8	13.3	8.6	4.7	0.0	4.7	0.0	0.0
75°	1596.5	168.4	27.4	14.1	10.2	6.3	3.1	0.0	0.8	0.0	0.0
77.5°	345.5	78.3	17.2	10.2	7.1	3.9	1.6	0.0	0.0	0.0	0.0
80°	75.2	34.5	11.0	6.3	3.9	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	27.4	18.0	5.5	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.9	9.4	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.1	0.8	0.8	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)