

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: P324956

Luminaire Tested: **GAN-SA2B-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7606 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

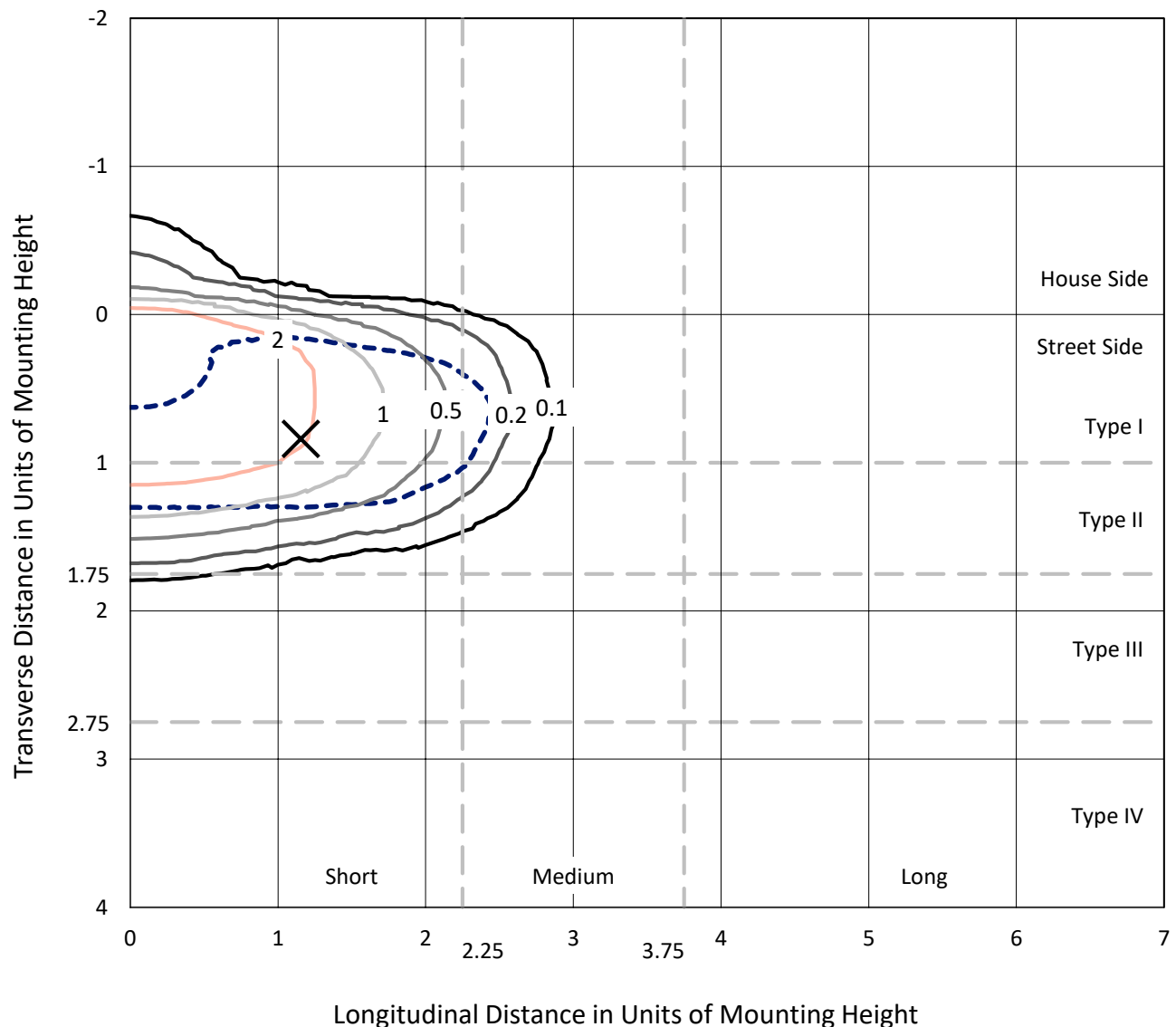
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324956
 CATALOG NUMBER: GAN-SA2B-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

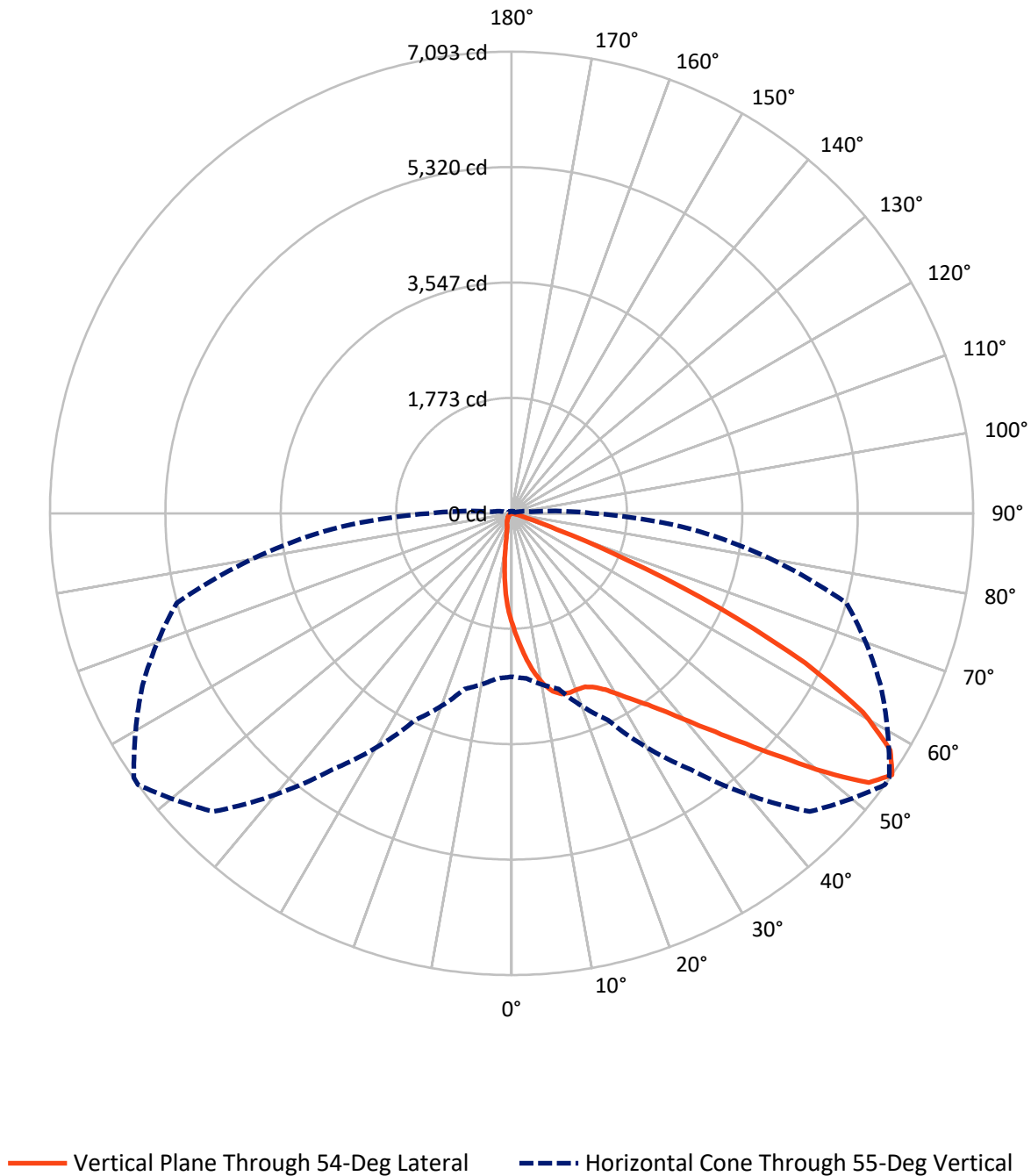
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

REPORT NUMBER: P324956
CATALOG NUMBER: GAN-SA2B-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324956

CATALOG NUMBER: GAN-SA2B-830-U-AFL-HSS

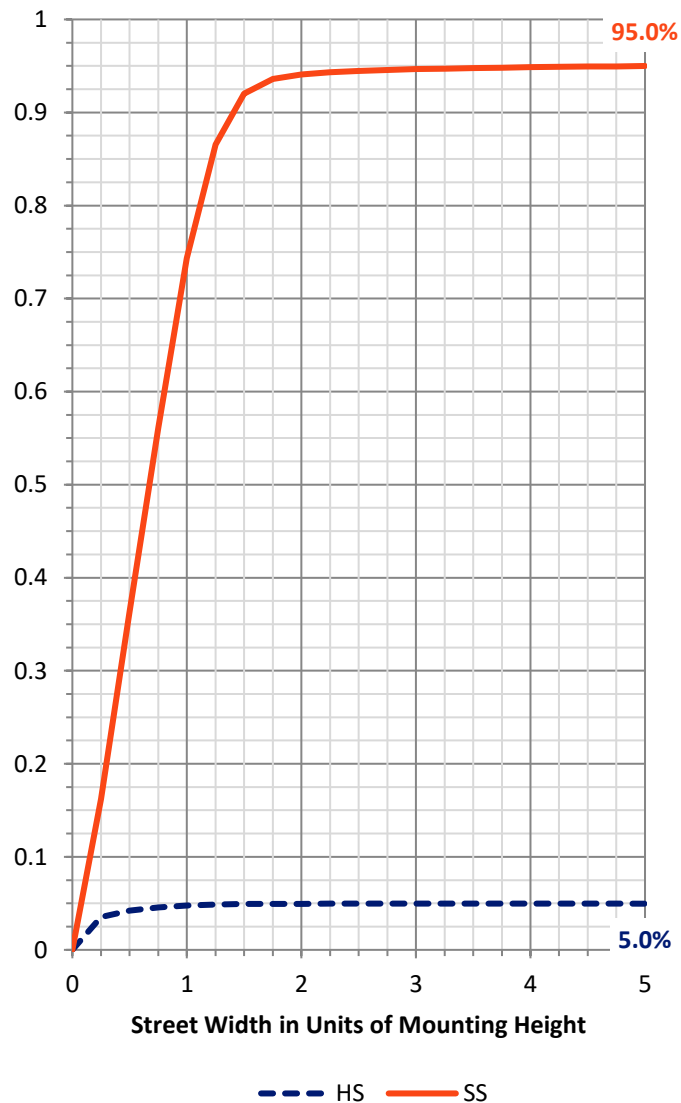
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	379.5	0.0	379.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7226.5	0.0	7226.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	7606.0	0.0	7606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	2.1
10°-20°	430.2	5.7
20°-30°	734.5	9.7
30°-40°	1178.8	15.5
40°-50°	1883.7	24.8
50°-60°	2018.4	26.5
60°-70°	1036.3	13.6
70°-80°	157.0	2.1
80°-90°	10.2	0.1
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°	7606.0	100.0
0°-180°	7606.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324956

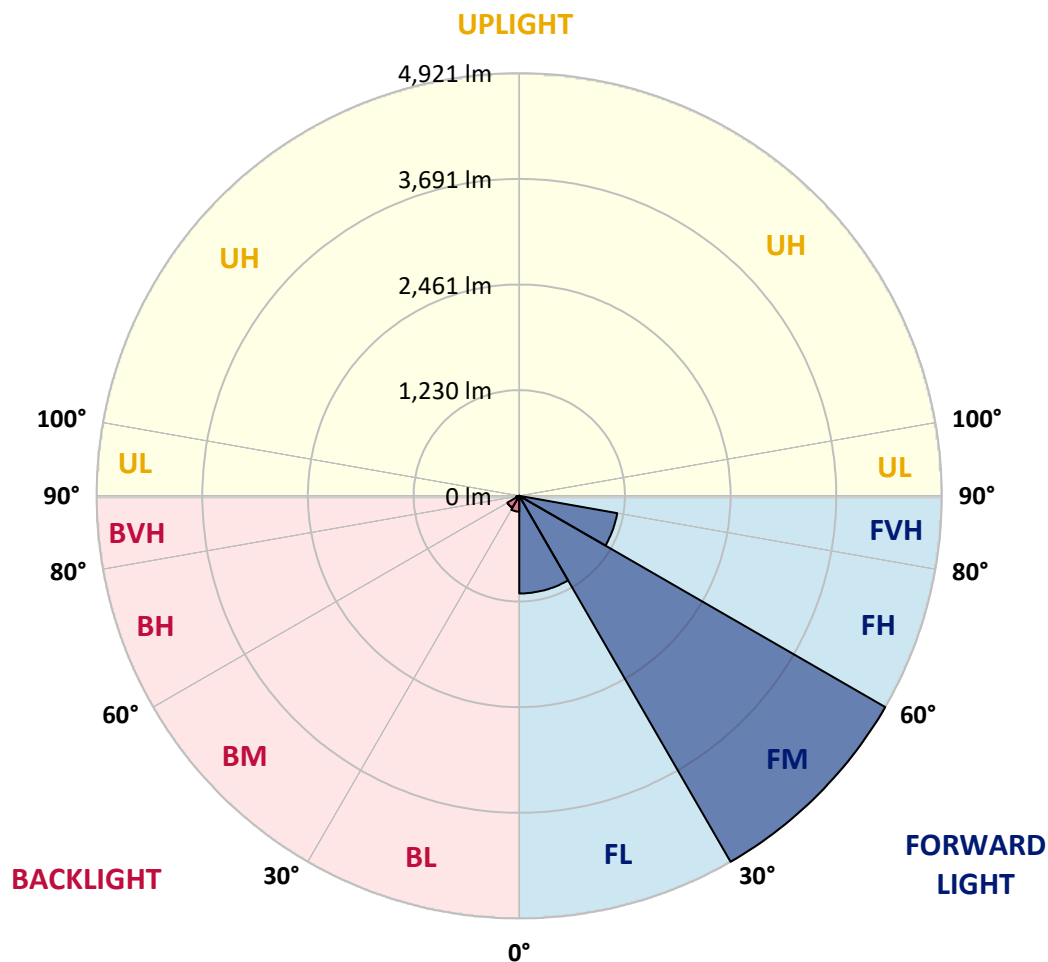
CATALOG NUMBER: GAN-SA2B-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.0	14.9			
FM	(30°-60°)	4921.4	64.7			
FH	(60°-80°)	1158.3	15.2			G1/1800
FVH	(80°-90°)	9.8	0.1			G0/10
BL	(0°-30°)	184.6	2.4	B1/500		
BM	(30°-60°)	159.5	2.1	B0/220		
BH	(60°-80°)	35.0	0.5	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type II Short





REPORT NUMBER: P324956

CATALOG NUMBER: GAN-SA2B-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4
2.5°	2137.7	2105.8	2106.8	2092.3	2039.5	1998.1	1955.0	1944.9	1877.9	1807.6	1739.9
5°	2507.2	2483.9	2478.3	2450.4	2376.8	2299.0	2215.5	2196.1	2065.1	1921.2	1779.6
7.5°	2697.1	2697.4	2692.8	2682.6	2636.6	2561.1	2459.2	2438.9	2260.5	2044.7	1821.0
10°	2641.9	2654.4	2680.0	2713.8	2749.0	2739.4	2662.9	2644.5	2450.7	2175.4	1867.0
12.5°	2513.1	2514.8	2543.3	2598.8	2700.0	2803.8	2805.1	2798.9	2632.3	2312.1	1917.6
15°	2449.1	2455.3	2465.8	2501.6	2597.5	2763.7	2882.6	2891.5	2798.9	2457.3	1971.5
17.5°	2491.1	2500.0	2491.1	2495.4	2550.9	2700.3	2896.1	2918.8	2944.4	2600.8	2022.4
20°	2605.1	2613.3	2597.5	2580.1	2591.0	2681.9	2886.6	2917.1	3058.4	2728.3	2065.1
22.5°	2758.8	2762.1	2738.1	2709.5	2701.7	2744.4	2894.5	2926.0	3149.7	2843.6	2092.0
25°	2928.0	2930.9	2901.0	2868.2	2849.5	2866.9	2959.2	2982.8	3230.2	2953.6	2107.5
27.5°	3112.2	3114.9	3077.4	3037.0	3015.3	3016.0	3065.9	3091.2	3315.9	3079.1	2119.9
30°	3307.0	3305.7	3271.2	3215.1	3187.5	3186.8	3219.7	3245.3	3440.1	3240.0	2137.0
32.5°	3525.8	3523.2	3474.2	3404.6	3373.4	3378.0	3407.2	3422.0	3594.1	3411.5	2167.6
35°	3813.9	3806.3	3732.4	3646.0	3588.5	3586.9	3611.5	3623.3	3790.5	3619.1	2218.5
37.5°	4187.6	4180.7	4080.6	3955.1	3874.3	3844.1	3873.3	3888.4	4070.7	3885.5	2300.3
40°	4556.2	4549.3	4489.8	4374.9	4250.4	4177.8	4200.8	4216.9	4420.5	4208.7	2403.4
42.5°	4810.4	4816.3	4837.0	4846.6	4729.9	4577.5	4588.1	4604.8	4788.1	4554.2	2521.3
45°	4877.4	4890.2	5007.2	5236.8	5280.5	5161.6	5051.5	5060.7	5161.6	4899.8	2639.2
47.5°	4676.1	4699.7	4925.4	5352.4	5722.3	5806.3	5598.1	5585.9	5519.9	5179.3	2723.0
50°	4218.5	4240.2	4532.5	5164.2	5856.3	6421.9	6253.1	6217.3	5834.3	5346.5	2752.6
52.5°	3556.3	3582.6	3820.1	4571.6	5603.7	6696.5	6873.2	6843.3	6064.8	5359.6	2757.5
55°	2511.5	2543.3	2794.6	3503.8	4803.2	6478.1	7093.0	7084.1	6256.3	5324.8	2768.0
57.5°	1411.4	1434.4	1705.4	2246.1	3517.9	5642.4	6863.4	6922.1	6372.0	5264.4	2783.8
60°	626.7	633.0	773.2	1118.1	2059.5	4312.1	6206.1	6305.3	6272.8	5183.6	2810.4
62.5°	347.5	342.3	342.3	464.8	895.1	2669.5	5060.7	5224.6	5849.4	5088.0	2811.7
65°	272.3	267.4	253.2	255.2	341.0	1184.8	3504.4	3795.8	5045.3	4807.8	2717.1
67.5°	230.9	226.6	212.5	206.9	211.9	390.9	1925.5	2228.0	3828.3	4079.6	2353.5
70°	195.1	192.2	184.9	178.0	165.5	193.1	736.8	942.4	2359.1	2713.8	1606.5
72.5°	157.0	155.7	158.3	152.4	137.3	128.8	251.9	305.1	1059.6	1211.1	661.9
75°	135.3	134.7	136.0	130.1	113.0	89.7	128.1	139.9	298.9	296.3	134.0
77.5°	88.0	89.0	112.7	110.0	97.2	59.8	66.4	71.6	90.7	68.0	40.7
80°	56.2	55.5	57.2	91.3	87.4	45.7	33.2	34.8	43.7	33.5	19.7
82.5°	34.2	33.5	37.4	42.7	44.0	31.9	20.4	20.7	27.3	21.7	10.5
85°	3.0	3.9	22.7	21.0	15.1	9.9	9.9	10.5	14.5	12.8	5.9
87.5°	0.0	0.0	3.9	5.9	3.3	3.6	3.6	3.9	5.6	5.6	3.0
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: P324956

CATALOG NUMBER: GAN-SA2B-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4	1703.4
2.5°	1704.8	1670.6	1601.6	1535.3	1479.1	1424.9	1363.1	1302.0	1273.5	1262.0	1250.2
5°	1707.7	1637.4	1495.2	1352.0	1203.5	1069.8	955.8	838.9	780.4	754.8	743.0
7.5°	1711.7	1604.6	1374.6	1134.2	895.1	713.8	555.4	453.6	409.6	402.7	385.6
10°	1712.3	1564.8	1234.7	893.8	600.1	430.3	331.1	278.5	259.2	255.9	250.3
12.5°	1713.6	1517.9	1079.3	661.9	400.1	287.7	239.5	222.0	216.8	216.5	216.5
15°	1717.6	1468.6	918.1	476.9	287.4	228.0	210.2	203.3	201.4	202.3	202.0
17.5°	1717.6	1410.4	759.7	355.4	232.2	205.0	195.1	190.5	189.9	190.8	191.2
20°	1705.1	1339.8	614.6	276.6	205.9	190.2	181.3	177.0	175.4	176.1	176.4
22.5°	1675.2	1253.1	496.3	228.9	188.5	176.7	167.2	160.6	158.0	158.3	158.3
25°	1628.5	1150.3	388.3	198.1	174.4	162.3	151.1	143.5	141.9	141.6	142.2
27.5°	1568.8	1036.6	309.1	174.4	157.7	146.2	135.0	128.8	127.4	127.8	128.1
30°	1510.0	918.7	243.7	154.4	138.9	128.1	119.6	116.6	116.6	117.6	117.9
32.5°	1456.1	805.4	192.8	137.0	122.2	112.3	107.4	107.1	108.7	109.4	109.7
35°	1409.8	700.6	159.6	123.5	109.1	100.5	98.9	100.2	102.2	103.5	103.8
37.5°	1376.9	607.0	139.6	112.3	98.9	92.0	91.6	94.3	96.9	99.9	100.5
40°	1363.1	527.8	125.8	102.5	90.7	85.4	84.4	88.0	93.0	97.2	97.9
42.5°	1351.6	463.1	114.0	93.0	84.1	76.5	76.2	80.8	86.7	91.0	92.0
45°	1341.8	411.2	103.1	82.8	75.5	65.7	66.7	72.6	77.2	81.8	82.8
47.5°	1321.4	368.5	91.3	71.9	62.4	56.2	58.1	63.4	67.0	73.9	74.9
50°	1285.0	333.7	79.2	58.8	50.9	48.6	51.6	55.2	59.8	65.7	66.4
52.5°	1260.3	307.4	68.6	49.3	42.0	42.7	45.7	47.0	49.6	51.9	51.2
55°	1246.2	293.0	60.1	42.7	35.8	37.8	38.4	36.8	35.5	33.2	32.2
57.5°	1244.6	279.9	53.5	37.1	31.5	32.5	30.2	24.6	20.0	17.4	16.8
60°	1241.9	263.8	48.3	31.2	27.9	26.6	21.7	13.5	9.5	8.9	8.9
62.5°	1213.4	238.8	44.3	26.3	23.6	20.0	12.5	6.2	5.3	5.6	5.6
65°	1122.4	204.0	40.4	21.4	18.7	14.5	6.2	3.6	2.0	2.3	2.3
67.5°	954.2	162.6	36.1	16.4	14.1	9.2	3.6	1.6	0.0	0.0	0.0
70°	638.9	100.8	30.5	11.5	9.2	5.6	2.6	0.3	0.0	0.0	0.0
72.5°	245.0	54.5	24.6	6.9	5.9	3.9	1.6	0.0	0.0	0.0	0.0
75°	55.2	35.8	17.1	4.9	4.3	2.6	0.7	0.0	0.0	0.0	0.0
77.5°	21.0	25.9	9.9	3.3	3.0	1.6	0.0	0.0	0.0	0.0	0.0
80°	10.2	15.4	4.6	2.0	1.6	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	5.9	2.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	3.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.0	0.3	0.3	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)