

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: P324976

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324976
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-SA2D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 10327 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

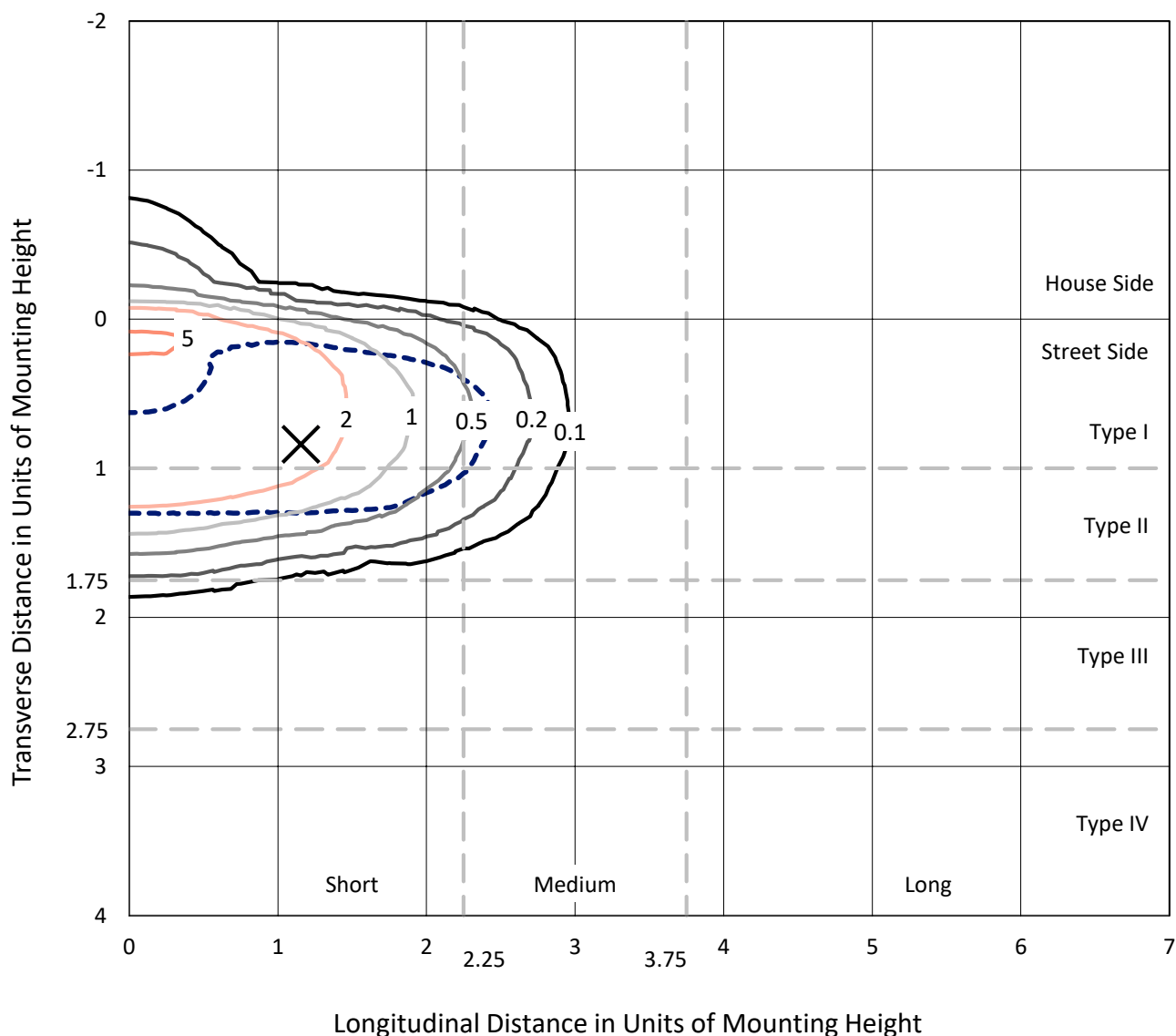
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324976
 CATALOG NUMBER: GAN-SA2D-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

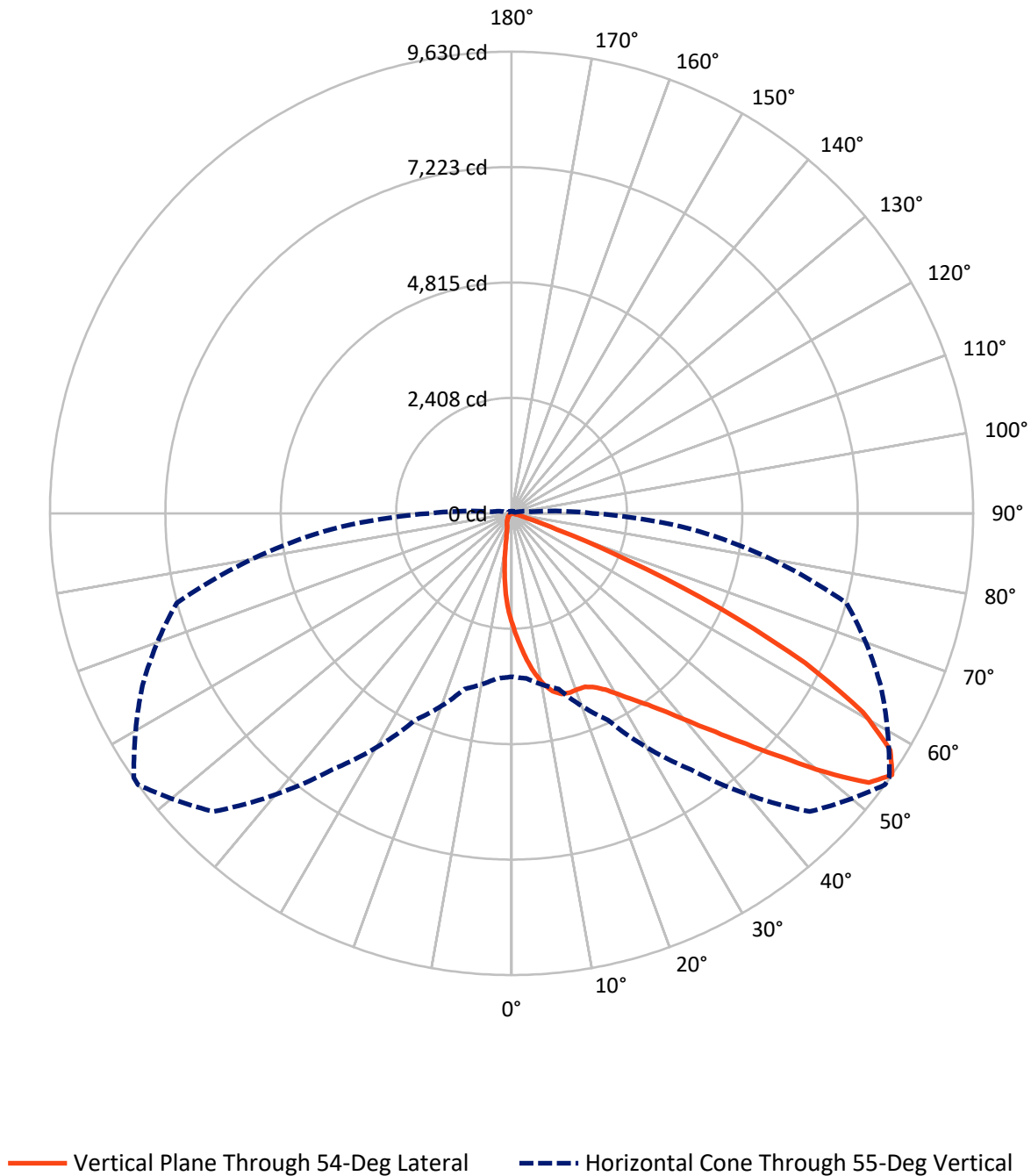
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

REPORT NUMBER: P324976
CATALOG NUMBER: GAN-SA2D-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324976

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

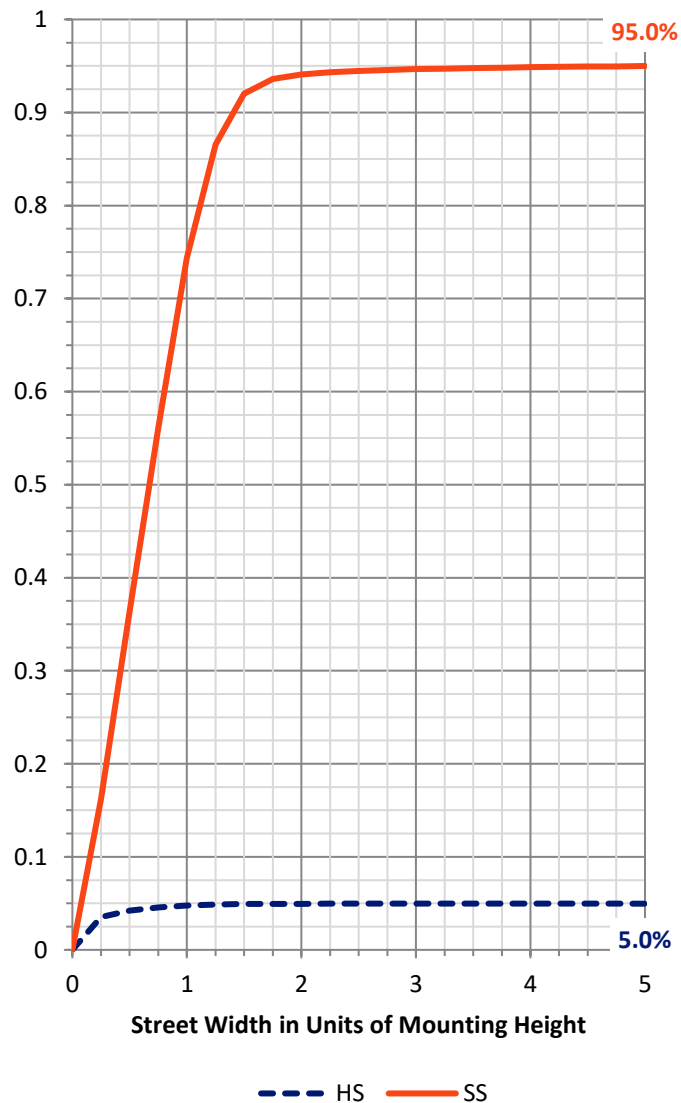
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	515.2	0.0	515.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9811.8	0.0	9811.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	10327.0	0.0	10327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.0	2.1
10°-20°	584.1	5.7
20°-30°	997.3	9.7
30°-40°	1600.5	15.5
40°-50°	2557.6	24.8
50°-60°	2740.5	26.5
60°-70°	1407.1	13.6
70°-80°	213.1	2.1
80°-90°	13.9	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°	10327.0	100.0
0°-180°	10327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324976

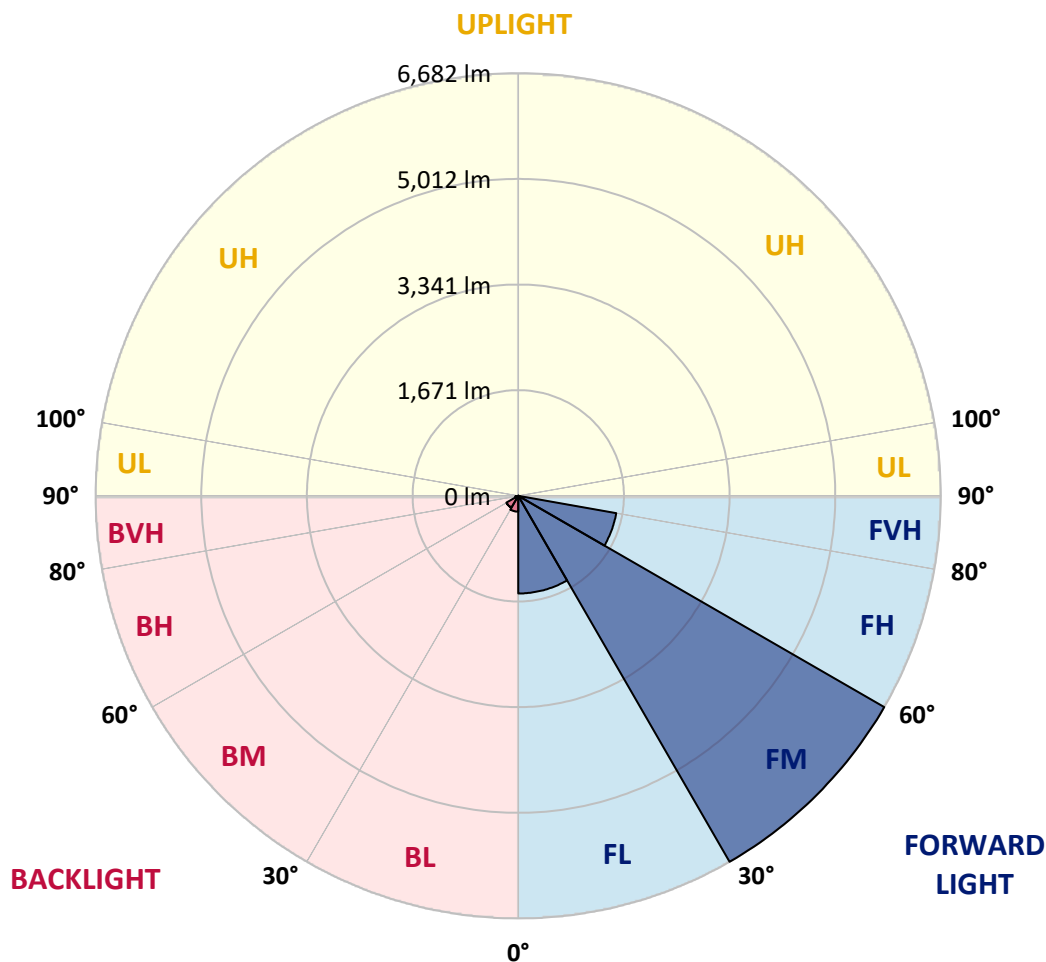
CATALOG NUMBER: GAN-SA2D-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1543.7	14.9			
FM	(30°-60°)	6682.0	64.7			
FH	(60°-80°)	1572.7	15.2			G1/1800
FVH	(80°-90°)	13.3	0.1			G1/100
BL	(0°-30°)	250.7	2.4	B1/500		
BM	(30°-60°)	216.5	2.1	B0/220		
BH	(60°-80°)	47.5	0.5	B0/110		G0/110
BVH	(80°-90°)	0.6	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: P324976

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8
2.5°	2902.4	2859.2	2860.5	2840.9	2769.1	2712.9	2654.5	2640.6	2549.6	2454.2	2362.3
5°	3404.1	3372.5	3364.9	3327.0	3227.1	3121.4	3008.1	2981.8	2803.9	2608.5	2416.3
7.5°	3661.9	3662.4	3656.1	3642.3	3579.9	3477.3	3339.0	3311.4	3069.2	2776.2	2472.5
10°	3587.0	3603.9	3638.7	3684.7	3732.4	3719.4	3615.5	3590.6	3327.4	2953.7	2534.9
12.5°	3412.2	3414.4	3453.2	3528.6	3665.9	3806.9	3808.6	3800.2	3574.1	3139.2	2603.6
15°	3325.2	3333.7	3347.9	3396.6	3526.8	3752.4	3913.9	3925.9	3800.2	3336.3	2676.8
17.5°	3382.3	3394.3	3382.3	3388.1	3463.5	3666.4	3932.2	3962.9	3997.7	3531.2	2745.9
20°	3537.0	3548.2	3526.8	3503.1	3517.9	3641.4	3919.2	3960.7	4152.5	3704.3	2803.9
22.5°	3745.8	3750.2	3717.7	3678.9	3668.2	3726.1	3929.9	3972.8	4276.5	3860.8	2840.4
25°	3975.4	3979.4	3938.9	3894.3	3868.8	3892.5	4017.8	4049.9	4385.7	4010.2	2861.4
27.5°	4225.6	4229.2	4178.4	4123.5	4094.1	4095.0	4162.7	4197.1	4502.1	4180.6	2878.3
30°	4490.1	4488.3	4441.5	4365.2	4327.8	4326.9	4371.5	4406.2	4670.7	4399.1	2901.5
32.5°	4787.1	4783.5	4717.1	4622.5	4580.2	4586.4	4626.1	4646.2	4879.9	4631.9	2943.0
35°	5178.2	5168.0	5067.6	4950.3	4872.3	4870.1	4903.5	4919.6	5146.6	4913.8	3012.1
37.5°	5685.8	5676.4	5540.4	5370.0	5260.3	5219.3	5259.0	5279.5	5527.0	5275.5	3123.2
40°	6186.1	6176.8	6096.1	5940.0	5770.9	5672.4	5703.6	5725.4	6002.0	5714.3	3263.2
42.5°	6531.3	6539.4	6567.4	6580.4	6422.1	6215.1	6229.4	6252.1	6501.0	6183.5	3423.3
45°	6622.3	6639.7	6798.5	7110.2	7169.5	7008.1	6858.7	6871.2	7008.1	6652.6	3583.4
47.5°	6348.9	6381.0	6687.4	7267.2	7769.4	7883.5	7600.8	7584.3	7494.6	7032.2	3697.1
50°	5727.7	5757.1	6154.0	7011.6	7951.3	8719.3	8490.1	8441.4	7921.4	7259.2	3737.3
52.5°	4828.6	4864.3	5186.7	6207.1	7608.4	9092.1	9332.1	9291.5	8234.5	7277.0	3744.0
55°	3409.9	3453.2	3794.4	4757.2	6521.5	8795.5	9630.4	9618.4	8494.5	7229.7	3758.2
57.5°	1916.4	1947.6	2315.5	3049.6	4776.4	7661.0	9318.7	9398.5	8651.5	7147.7	3779.6
60°	850.9	859.4	1049.8	1518.1	2796.3	5854.8	8426.3	8561.0	8516.8	7038.0	3815.8
62.5°	471.8	464.7	464.7	631.1	1215.3	3624.5	6871.2	7093.7	7941.9	6908.2	3817.6
65°	369.7	363.0	343.8	346.5	462.9	1608.6	4758.1	5153.7	6850.2	6527.8	3689.1
67.5°	313.5	307.7	288.5	281.0	287.7	530.7	2614.3	3025.1	5197.9	5539.0	3195.4
70°	264.9	260.9	251.1	241.7	224.8	262.2	1000.3	1279.5	3203.0	3684.7	2181.3
72.5°	213.2	211.4	215.0	206.9	186.4	174.8	342.1	414.3	1438.7	1644.3	898.6
75°	183.7	182.9	184.6	176.6	153.4	121.8	173.9	190.0	405.8	402.3	182.0
77.5°	119.5	120.9	153.0	149.4	132.0	81.2	90.1	97.2	123.1	92.3	55.3
80°	76.3	75.4	77.6	124.0	118.6	62.0	45.0	47.3	59.3	45.5	26.8
82.5°	46.4	45.5	50.8	58.0	59.8	43.3	27.7	28.1	37.0	29.4	14.3
85°	4.0	5.4	30.8	28.5	20.5	13.4	13.4	14.3	19.6	17.4	8.0
87.5°	0.0	0.0	5.4	8.0	4.5	4.9	4.9	5.4	7.6	7.6	4.0
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: P324976

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8
2.5°	2314.6	2268.2	2174.6	2084.5	2008.2	1934.6	1850.8	1767.9	1729.1	1713.4	1697.4
5°	2318.6	2223.2	2030.1	1835.6	1634.1	1452.5	1297.8	1139.0	1059.6	1024.9	1008.8
7.5°	2324.0	2178.6	1866.4	1540.0	1215.3	969.1	754.1	615.9	556.1	546.8	523.6
10°	2324.9	2124.6	1676.4	1213.5	814.8	584.2	449.5	378.2	351.9	347.4	339.8
12.5°	2326.7	2060.9	1465.5	898.6	543.2	390.7	325.1	301.5	294.3	293.9	293.9
15°	2332.0	1994.0	1246.5	647.6	390.2	309.5	285.4	276.1	273.4	274.7	274.3
17.5°	2332.0	1915.0	1031.5	482.5	315.3	278.3	264.9	258.7	257.8	259.1	259.6
20°	2315.1	1819.1	834.4	375.5	279.6	258.2	246.2	240.4	238.2	239.0	239.5
22.5°	2274.5	1701.4	673.9	310.8	256.0	239.9	227.0	218.1	214.5	215.0	215.0
25°	2211.2	1561.8	527.1	268.9	236.8	220.3	205.1	194.9	192.7	192.2	193.1
27.5°	2130.0	1407.5	419.7	236.8	214.1	198.5	183.3	174.8	173.0	173.5	173.9
30°	2050.2	1247.4	330.9	209.6	188.6	173.9	162.3	158.3	158.3	159.7	160.1
32.5°	1977.0	1093.5	261.8	186.0	165.9	152.5	145.8	145.4	147.6	148.5	149.0
35°	1914.1	951.3	216.7	167.7	148.1	136.5	134.2	136.0	138.7	140.5	140.9
37.5°	1869.5	824.2	189.5	152.5	134.2	124.9	124.4	128.0	131.6	135.6	136.5
40°	1850.8	716.7	170.8	139.1	123.1	116.0	114.6	119.5	126.2	132.0	132.9
42.5°	1835.2	628.8	154.8	126.2	114.2	103.9	103.5	109.7	117.7	123.5	124.9
45°	1821.8	558.4	140.0	112.4	102.6	89.2	90.5	98.6	104.8	111.0	112.4
47.5°	1794.2	500.4	124.0	97.7	84.7	76.3	78.9	86.1	91.0	100.3	101.7
50°	1744.7	453.1	107.5	79.8	69.1	66.0	70.0	74.9	81.2	89.2	90.1
52.5°	1711.2	417.4	93.2	66.9	57.1	58.0	62.0	63.8	67.3	70.5	69.6
55°	1692.0	397.8	81.6	58.0	48.6	51.3	52.2	49.9	48.2	45.0	43.7
57.5°	1689.8	380.0	72.7	50.4	42.8	44.2	41.0	33.4	27.2	23.6	22.7
60°	1686.2	358.1	65.6	42.4	37.9	36.1	29.4	18.3	12.9	12.0	12.0
62.5°	1647.4	324.2	60.2	35.7	32.1	27.2	16.9	8.5	7.1	7.6	7.6
65°	1523.9	277.0	54.9	29.0	25.4	19.6	8.5	4.9	2.7	3.1	3.1
67.5°	1295.6	220.8	49.1	22.3	19.2	12.5	4.9	2.2	0.0	0.0	0.0
70°	867.4	136.9	41.5	15.6	12.5	7.6	3.6	0.4	0.0	0.0	0.0
72.5°	332.7	74.0	33.4	9.4	8.0	5.4	2.2	0.0	0.0	0.0	0.0
75°	74.9	48.6	23.2	6.7	5.8	3.6	0.9	0.0	0.0	0.0	0.0
77.5°	28.5	35.2	13.4	4.5	4.0	2.2	0.0	0.0	0.0	0.0	0.0
80°	13.8	21.0	6.2	2.7	2.2	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	7.1	8.0	2.7	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	4.0	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.3	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)