

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: P324968

Luminaire Tested: **GAN-SA4C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324968
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-SA4C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 18560 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

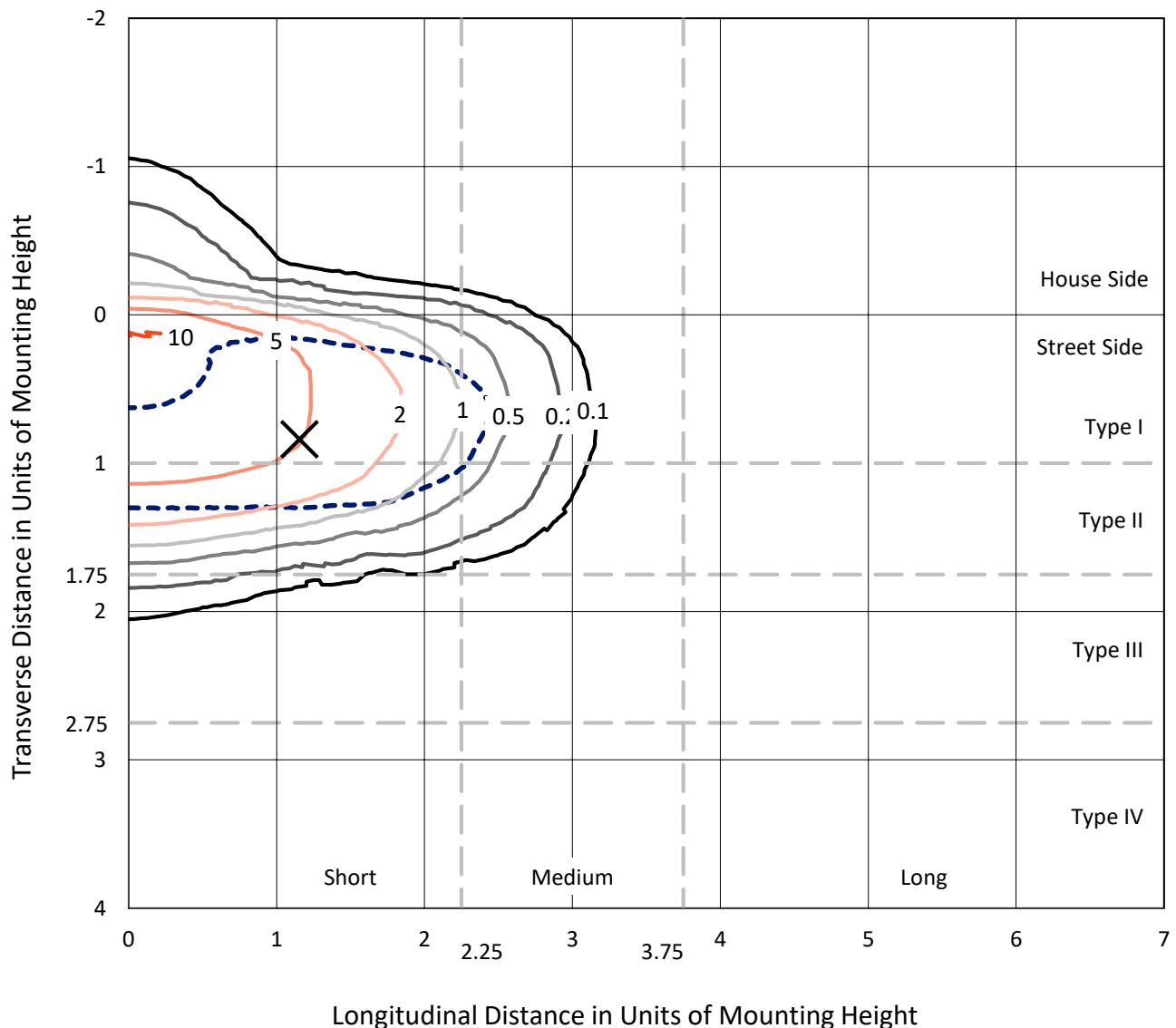
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324968
 CATALOG NUMBER: GAN-SA4C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

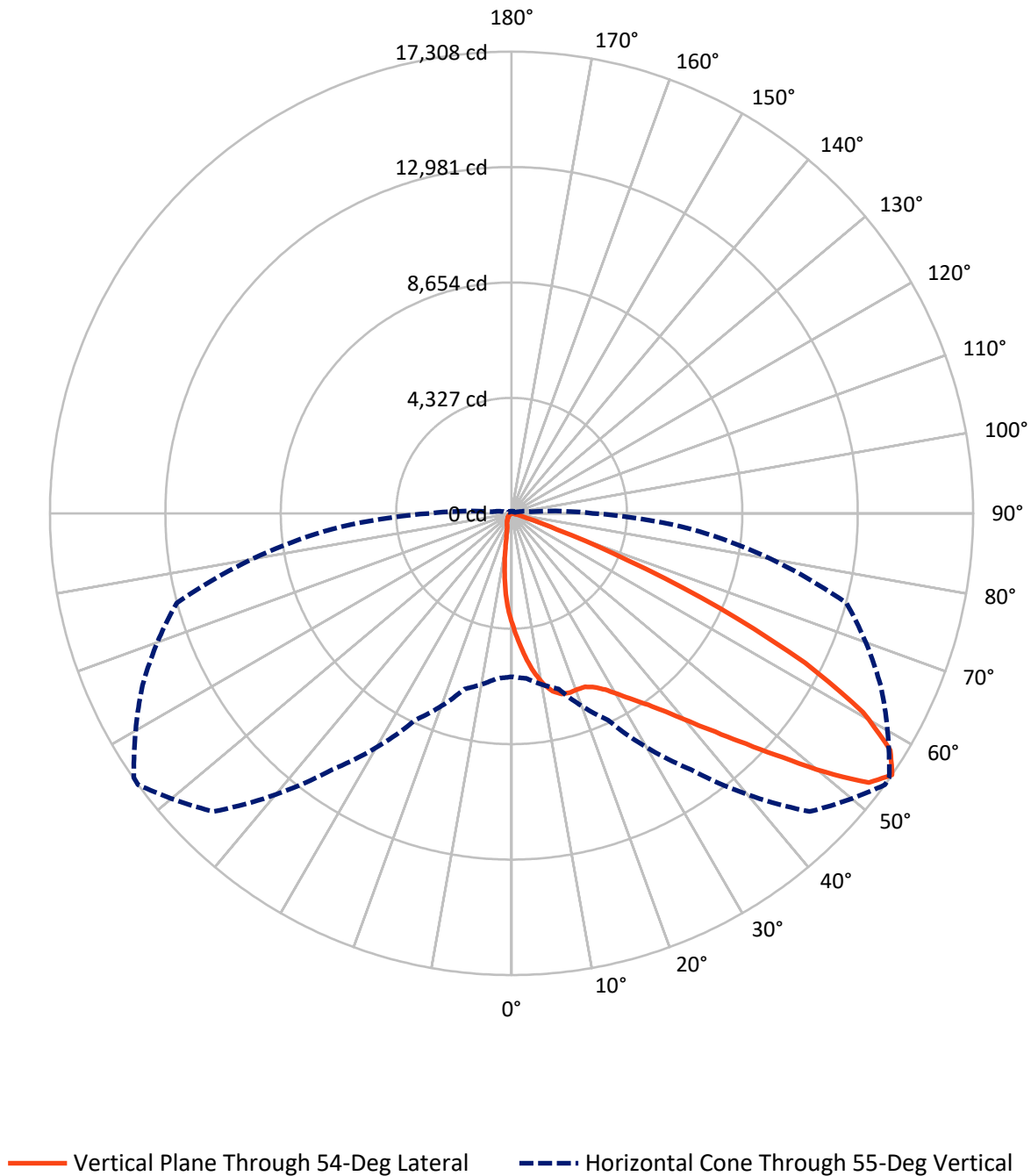
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

REPORT NUMBER: P324968
CATALOG NUMBER: GAN-SA4C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324968

CATALOG NUMBER: GAN-SA4C-830-U-AFL-HSS

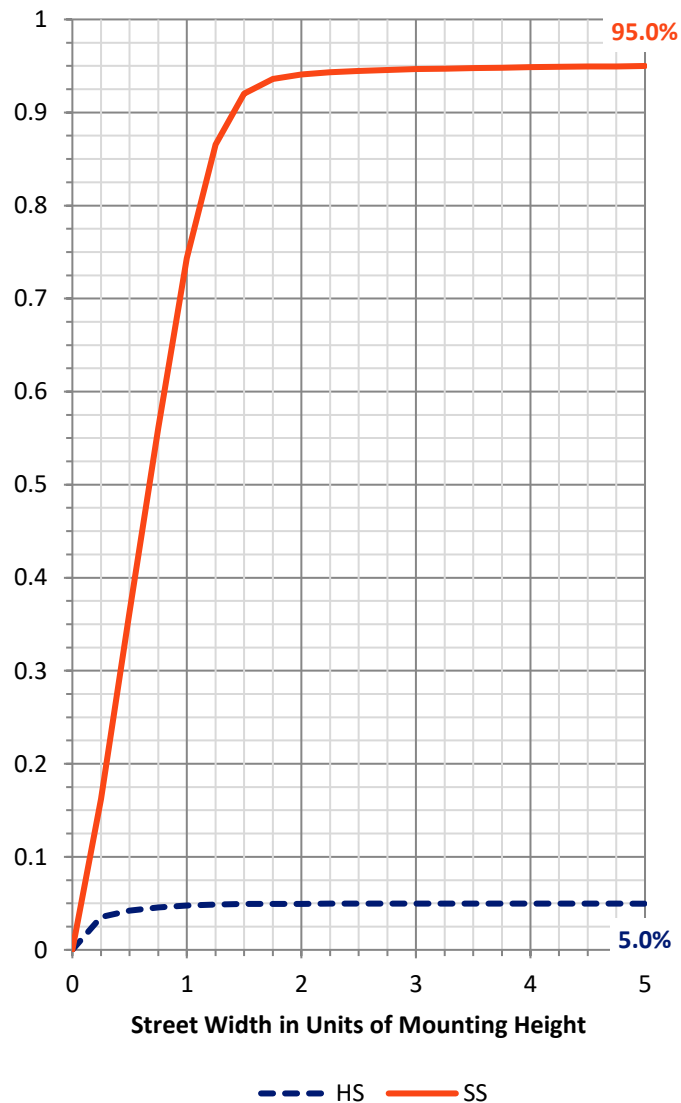
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.0	0.0	926.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17634.0	0.0	17634.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	18560.0	0.0	18560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.8	2.1
10°-20°	1049.8	5.7
20°-30°	1792.4	9.7
30°-40°	2876.4	15.5
40°-50°	4596.5	24.8
50°-60°	4925.3	26.5
60°-70°	2528.8	13.6
70°-80°	383.0	2.1
80°-90°	24.9	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°	18560.0	100.0
0°-180°	18560.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324968

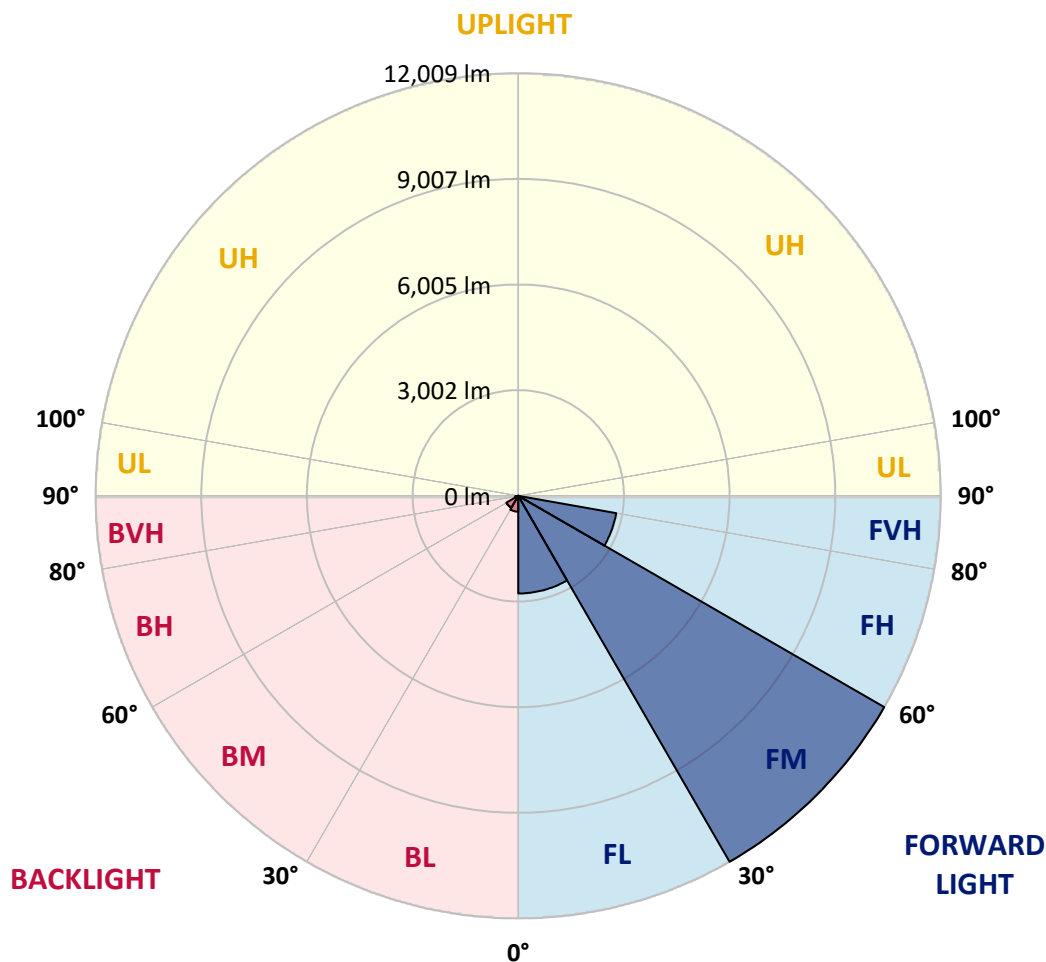
CATALOG NUMBER: GAN-SA4C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2774.4	14.9			
FM	(30°-60°)	12009.1	64.7			
FH	(60°-80°)	2826.5	15.2			G2/5000
FVH	(80°-90°)	23.9	0.1			G1/100
BL	(0°-30°)	450.5	2.4	B1/500		
BM	(30°-60°)	389.1	2.1	B1/1000		
BH	(60°-80°)	85.3	0.5	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 II Short





REPORT NUMBER: P324968

CATALOG NUMBER: GAN-SA4C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7
2.5°	5216.3	5138.6	5141.0	5105.7	4976.7	4875.7	4770.7	4745.8	4582.3	4410.8	4245.7
5°	6118.0	6061.1	6047.5	5979.4	5799.8	5609.9	5406.3	5359.0	5039.2	4688.1	4342.6
7.5°	6581.3	6582.1	6570.9	6546.0	6433.8	6249.5	6001.0	5951.3	5516.1	4989.5	4443.6
10°	6446.6	6477.1	6539.6	6622.2	6707.9	6684.7	6497.9	6453.1	5980.2	5308.5	4555.9
12.5°	6132.4	6136.5	6206.2	6341.6	6588.5	6841.8	6845.0	6829.8	6423.4	5641.9	4679.3
15°	5976.2	5991.4	6017.0	6104.4	6338.4	6744.0	7034.2	7055.8	6829.8	5996.2	4810.7
17.5°	6078.7	6100.4	6078.7	6089.2	6224.6	6589.3	7067.0	7122.3	7184.8	6346.5	4935.0
20°	6356.9	6376.9	6338.4	6296.0	6322.4	6544.4	7043.8	7118.3	7463.0	6657.4	5039.2
22.5°	6732.0	6740.0	6681.5	6611.8	6592.5	6696.7	7063.0	7140.0	7685.8	6938.8	5104.9
25°	7144.8	7152.0	7079.0	6998.9	6953.2	6995.7	7220.9	7278.6	7882.2	7207.3	5142.6
27.5°	7594.4	7600.8	7509.5	7410.9	7358.0	7359.6	7481.4	7543.1	8091.4	7513.5	5173.0
30°	8069.7	8066.5	7982.4	7845.3	7778.0	7776.4	7856.5	7919.0	8394.3	7906.2	5214.7
32.5°	8603.5	8597.1	8477.7	8307.8	8231.6	8242.9	8314.2	8350.3	8770.3	8324.6	5289.2
35°	9306.5	9288.0	9107.7	8896.9	8756.6	8752.6	8812.7	8841.6	9249.6	8831.2	5413.5
37.5°	10218.6	10201.8	9957.3	9651.1	9454.0	9380.2	9451.6	9488.4	9933.3	9481.2	5613.1
40°	11117.9	11101.1	10956.0	10675.5	10371.7	10194.6	10250.7	10289.9	10786.9	10269.9	5864.7
42.5°	11738.3	11752.7	11803.2	11826.5	11541.9	11170.0	11195.7	11236.5	11683.8	11113.1	6152.5
45°	11901.8	11933.1	12218.4	12778.7	12885.3	12595.1	12326.6	12349.1	12595.1	11956.3	6440.2
47.5°	11410.5	11468.2	12018.8	13060.8	13963.3	14168.5	13660.3	13630.7	13469.6	12638.4	6644.6
50°	10294.0	10346.9	11060.2	12601.5	14290.3	15670.6	15258.6	15171.2	14236.6	13046.4	6716.8
52.5°	8678.1	8742.2	9321.7	11155.6	13674.0	16340.6	16771.9	16698.9	14799.3	13078.4	6728.8
55°	6128.4	6206.2	6819.4	8549.8	11720.7	15807.6	17308.1	17286.4	15266.6	12993.5	6754.4
57.5°	3444.1	3500.2	4161.5	5480.8	8584.3	13768.6	16747.8	16891.3	15548.7	12846.0	6792.9
60°	1529.3	1544.5	1886.8	2728.4	5025.5	10522.4	15144.0	15386.0	15306.7	12648.8	6857.8
62.5°	848.0	835.2	835.2	1134.2	2184.1	6514.0	12349.1	12749.0	14273.5	12415.6	6861.0
65°	664.5	652.4	618.0	622.8	832.0	2891.1	8551.4	9262.4	12311.4	11731.9	6630.2
67.5°	563.5	553.1	518.6	505.0	517.0	953.8	4698.5	5436.7	9341.7	9954.9	5742.9
70°	476.1	468.9	451.3	434.4	404.0	471.3	1797.8	2299.6	5756.5	6622.2	3920.2
72.5°	383.1	379.9	386.3	371.9	335.0	314.2	614.8	744.6	2585.7	2955.2	1615.1
75°	330.2	328.6	331.8	317.4	275.7	218.8	312.6	341.4	729.4	723.0	327.0
77.5°	214.8	217.2	274.9	268.5	237.3	145.9	161.9	174.7	221.2	165.9	99.4
80°	137.1	135.5	139.5	222.8	213.2	111.4	81.0	85.0	106.6	81.8	48.1
82.5°	83.4	81.8	91.4	104.2	107.4	77.7	49.7	50.5	66.5	52.9	25.6
85°	7.2	9.6	55.3	51.3	36.9	24.0	24.0	25.6	35.3	31.3	14.4
87.5°	0.0	0.0	9.6	14.4	8.0	8.8	8.8	9.6	13.6	13.6	7.2
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: P324968

CATALOG NUMBER: GAN-SA4C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7	4156.7
2.5°	4159.9	4076.5	3908.2	3746.3	3609.3	3477.0	3326.3	3177.2	3107.5	3079.4	3050.6
5°	4167.1	3995.6	3648.5	3299.1	2936.8	2610.6	2332.4	2047.1	1904.4	1841.9	1813.0
7.5°	4176.7	3915.4	3354.4	2767.7	2184.1	1741.7	1355.4	1106.9	999.5	982.7	941.0
10°	4178.3	3818.5	3012.9	2180.9	1464.4	1050.0	807.9	679.7	632.4	624.4	610.8
12.5°	4181.5	3703.8	2633.8	1615.1	976.3	702.1	584.3	541.8	529.0	528.2	528.2
15°	4191.2	3583.6	2240.3	1163.8	701.3	556.3	513.0	496.1	491.3	493.7	492.9
17.5°	4191.2	3441.7	1853.9	867.2	566.7	500.1	476.1	464.9	463.3	465.7	466.5
20°	4160.7	3269.4	1499.6	674.9	502.6	464.1	442.4	432.0	428.0	429.6	430.4
22.5°	4087.8	3057.8	1211.1	558.7	460.1	431.2	408.0	391.9	385.5	386.3	386.3
25°	3973.9	2806.9	947.4	483.3	425.6	396.0	368.7	350.3	346.3	345.5	347.1
27.5°	3828.1	2529.6	754.2	425.6	384.7	356.7	329.4	314.2	311.0	311.8	312.6
30°	3684.6	2241.9	594.7	376.7	339.0	312.6	291.8	284.5	284.5	286.9	287.7
32.5°	3553.1	1965.3	470.5	334.2	298.2	274.1	262.1	261.3	265.3	266.9	267.7
35°	3440.1	1709.6	389.5	301.4	266.1	245.3	241.3	244.5	249.3	252.5	253.3
37.5°	3360.0	1481.2	340.6	274.1	241.3	224.4	223.6	230.0	236.4	243.7	245.3
40°	3326.3	1288.0	307.0	250.1	221.2	208.4	206.0	214.8	226.8	237.3	238.9
42.5°	3298.3	1130.1	278.1	226.8	205.2	186.8	186.0	197.2	211.6	222.0	224.4
45°	3274.2	1003.5	251.7	202.0	184.4	160.3	162.7	177.1	188.4	199.6	202.0
47.5°	3224.5	899.3	222.8	175.5	152.3	137.1	141.9	154.7	163.5	180.3	182.7
50°	3135.6	814.3	193.2	143.5	124.2	118.6	125.8	134.7	145.9	160.3	161.9
52.5°	3075.4	750.2	167.5	120.2	102.6	104.2	111.4	114.6	121.0	126.6	125.0
55°	3041.0	715.0	146.7	104.2	87.4	92.2	93.8	89.8	86.6	81.0	78.5
57.5°	3037.0	682.9	130.6	90.6	76.9	79.4	73.7	60.1	48.9	42.5	40.9
60°	3030.6	643.6	117.8	76.1	68.1	64.9	52.9	32.9	23.2	21.6	21.6
62.5°	2960.8	582.7	108.2	64.1	57.7	48.9	30.5	15.2	12.8	13.6	13.6
65°	2738.8	497.7	98.6	52.1	45.7	35.3	15.2	8.8	4.8	5.6	5.6
67.5°	2328.4	396.8	88.2	40.1	34.5	22.4	8.8	4.0	0.0	0.0	0.0
70°	1559.0	246.1	74.5	28.1	22.4	13.6	6.4	0.8	0.0	0.0	0.0
72.5°	597.9	133.1	60.1	16.8	14.4	9.6	4.0	0.0	0.0	0.0	0.0
75°	134.7	87.4	41.7	12.0	10.4	6.4	1.6	0.0	0.0	0.0	0.0
77.5°	51.3	63.3	24.0	8.0	7.2	4.0	0.0	0.0	0.0	0.0	0.0
80°	24.8	37.7	11.2	4.8	4.0	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	12.8	14.4	4.8	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	7.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.4	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)