

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: P324967

Luminaire Tested: **GAN-SA3C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324967
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-SA3C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 14046 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

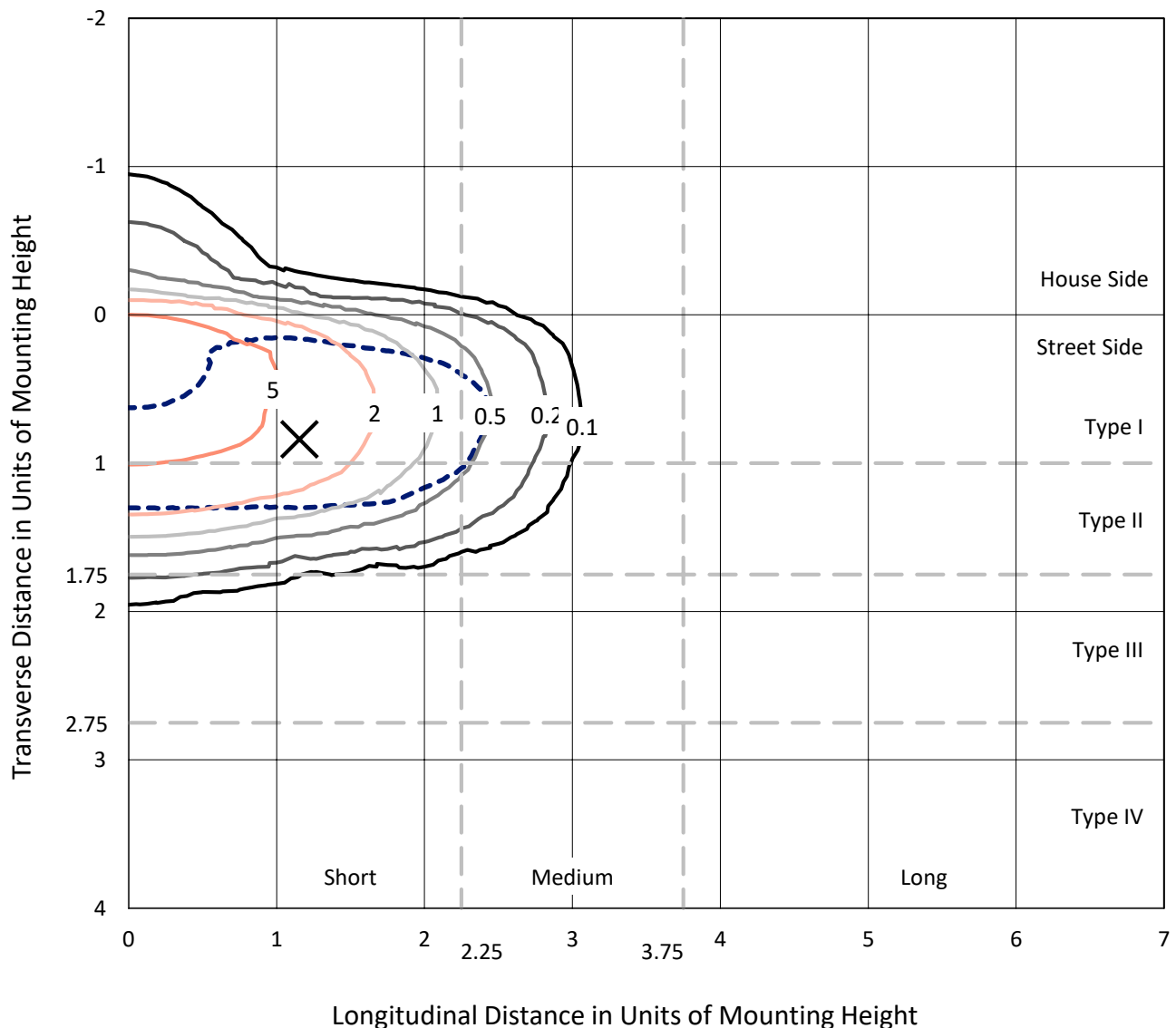
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324967
 CATALOG NUMBER: GAN-SA3C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

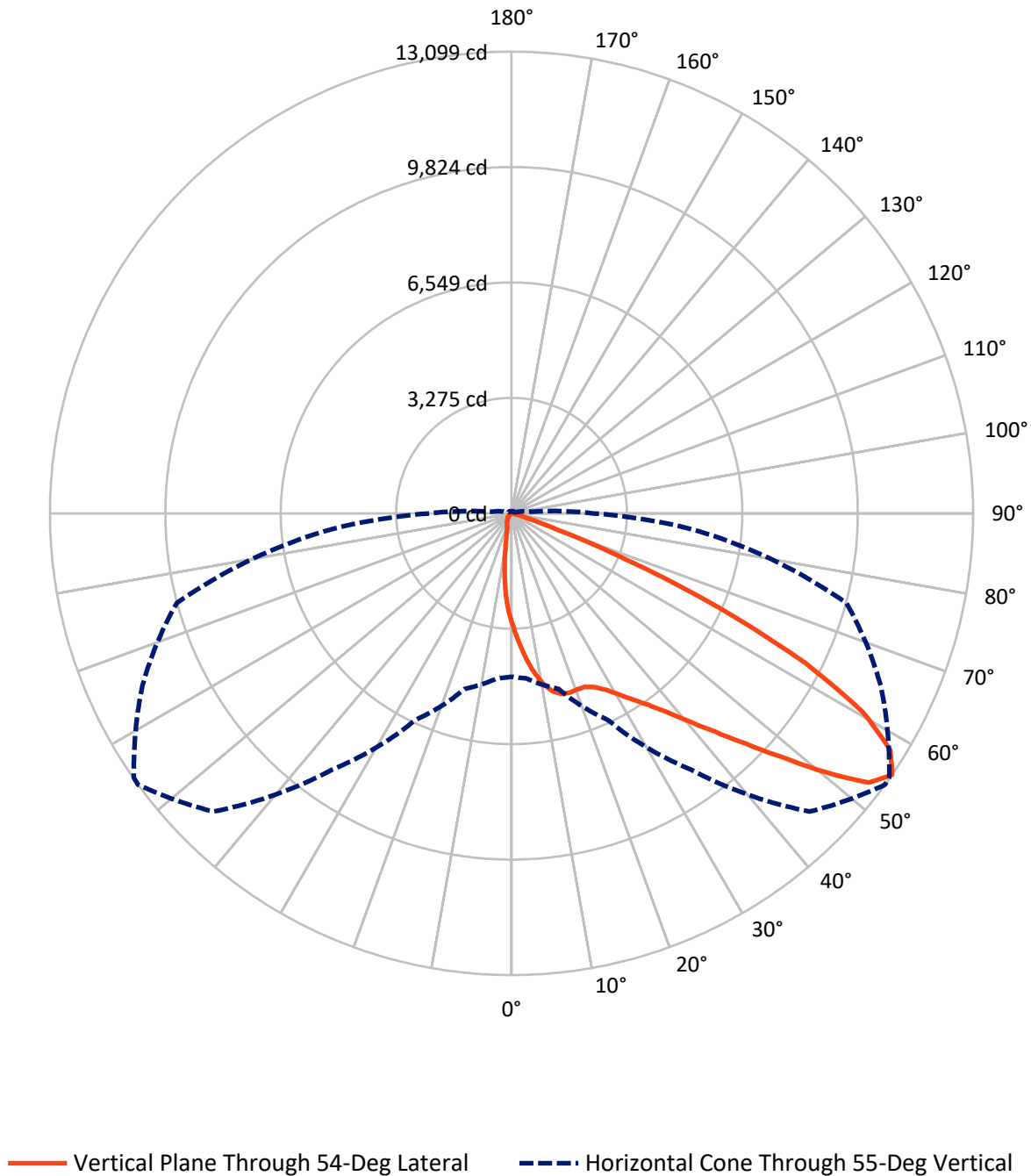
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

REPORT NUMBER: P324967
CATALOG NUMBER: GAN-SA3C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324967

CATALOG NUMBER: GAN-SA3C-830-U-AFL-HSS

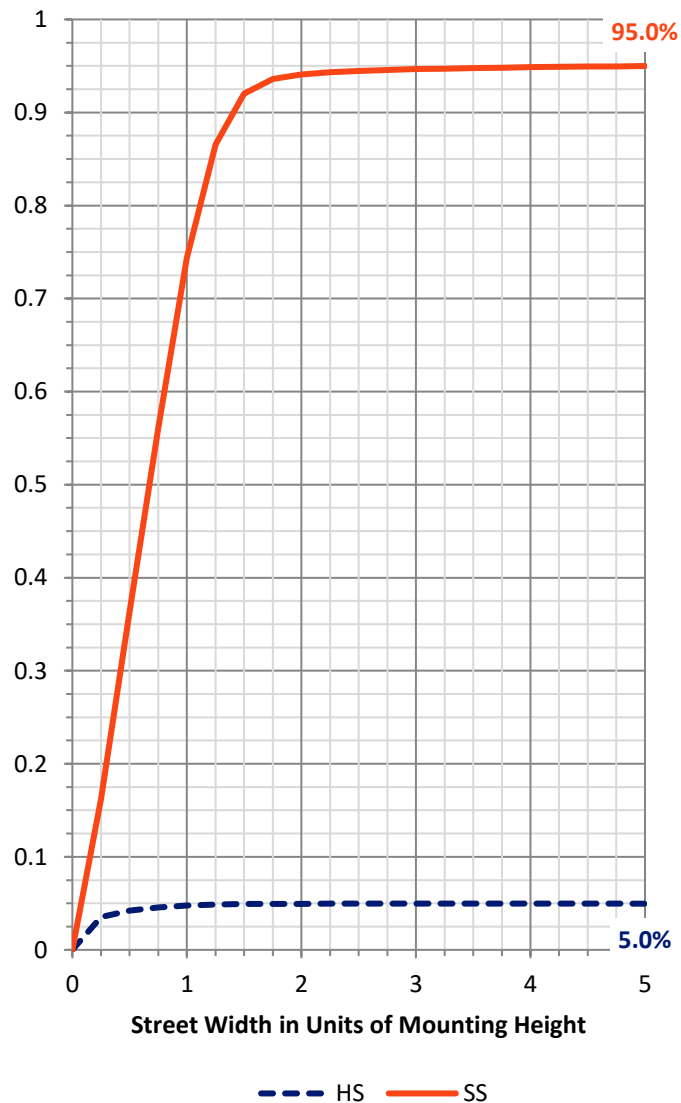
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	700.8	0.0	700.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13345.2	0.0	13345.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	14046.0	0.0	14046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	2.1
10°-20°	794.5	5.7
20°-30°	1356.4	9.7
30°-40°	2176.8	15.5
40°-50°	3478.6	24.8
50°-60°	3727.4	26.5
60°-70°	1913.8	13.6
70°-80°	289.9	2.1
80°-90°	18.9	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°	14046.0	100.0
0°-180°	14046.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324967

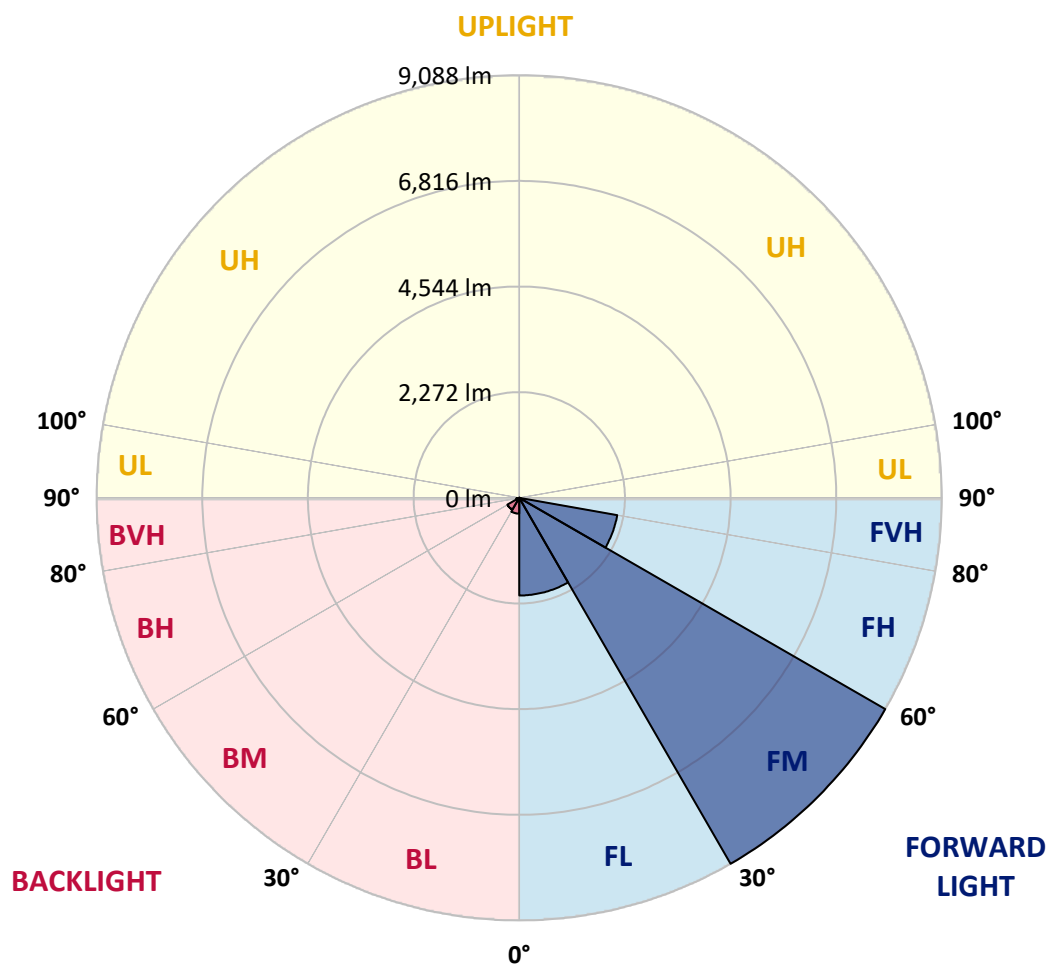
CATALOG NUMBER: GAN-SA3C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2099.6	14.9			
FM	(30°-60°)	9088.4	64.7			
FH	(60°-80°)	2139.1	15.2			G2/5000
FVH	(80°-90°)	18.1	0.1			G1/100
BL	(0°-30°)	341.0	2.4	B1/500		
BM	(30°-60°)	294.5	2.1	B1/1000		
BH	(60°-80°)	64.6	0.5	B0/110		G0/110
BVH	(80°-90°)	0.8	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: P324967

CATALOG NUMBER: GAN-SA3C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7
2.5°	3947.6	3888.8	3890.6	3863.9	3766.3	3689.8	3610.4	3591.6	3467.8	3338.0	3213.1
5°	4630.0	4587.0	4576.7	4525.1	4389.2	4245.5	4091.4	4055.6	3813.6	3547.9	3286.5
7.5°	4980.7	4981.3	4972.8	4954.0	4869.0	4729.5	4541.5	4503.9	4174.5	3776.0	3362.9
10°	4878.7	4901.8	4949.1	5011.6	5076.5	5058.9	4917.6	4883.6	4525.7	4017.4	3447.8
12.5°	4641.0	4644.0	4696.8	4799.3	4986.1	5177.8	5180.2	5168.7	4861.2	4269.7	3541.2
15°	4522.7	4534.2	4553.6	4619.7	4796.9	5103.8	5323.4	5339.8	5168.7	4537.8	3640.7
17.5°	4600.3	4616.7	4600.3	4608.2	4710.7	4986.7	5348.2	5390.1	5437.4	4802.9	3734.7
20°	4810.8	4826.0	4796.9	4764.7	4784.7	4952.8	5330.7	5387.1	5647.9	5038.3	3813.6
22.5°	5094.7	5100.8	5056.5	5003.7	4989.1	5068.0	5345.2	5403.4	5816.5	5251.2	3863.3
25°	5407.1	5412.5	5357.3	5296.7	5262.1	5294.3	5464.7	5508.4	5965.1	5454.4	3891.8
27.5°	5747.4	5752.2	5683.1	5608.5	5568.4	5569.6	5661.8	5708.6	6123.5	5686.1	3914.9
30°	6107.1	6104.7	6041.0	5937.2	5886.3	5885.1	5945.7	5993.0	6352.7	5983.3	3946.4
32.5°	6511.1	6506.2	6415.8	6287.2	6229.6	6238.1	6292.1	6319.4	6637.2	6300.0	4002.8
35°	7043.0	7029.1	6892.6	6733.1	6626.9	6623.9	6669.4	6691.2	7000.0	6683.3	4096.9
37.5°	7733.3	7720.6	7535.6	7303.9	7154.6	7098.8	7152.8	7180.7	7517.4	7175.3	4247.9
40°	8413.9	8401.2	8291.4	8079.1	7849.2	7715.1	7757.6	7787.3	8163.4	7772.2	4438.4
42.5°	8883.4	8894.3	8932.5	8950.1	8734.8	8453.3	8472.8	8503.7	8842.2	8410.3	4656.1
45°	9007.2	9030.8	9246.8	9670.8	9751.4	9531.8	9328.6	9345.6	9531.8	9048.4	4873.9
47.5°	8635.3	8679.0	9095.7	9884.3	10567.3	10722.6	10338.0	10315.6	10193.6	9564.6	5028.6
50°	7790.3	7830.4	8370.2	9536.7	10814.8	11859.3	11547.5	11481.4	10774.1	9873.4	5083.2
52.5°	6567.5	6616.0	7054.6	8442.4	10348.3	12366.4	12692.8	12637.6	11200.0	9897.6	5092.3
55°	4637.9	4696.8	5160.8	6470.4	8870.1	11963.0	13098.6	13082.2	11553.6	9833.3	5111.7
57.5°	2606.5	2648.9	3149.4	4147.8	6496.5	10419.9	12674.6	12783.1	11767.1	9721.7	5140.8
60°	1157.4	1168.9	1427.9	2064.8	3803.3	7963.2	11460.8	11644.0	11583.9	9572.5	5189.9
62.5°	641.8	632.1	632.1	858.3	1652.9	4929.7	9345.6	9648.3	10802.0	9396.0	5192.4
65°	502.9	493.8	467.7	471.3	629.6	2187.9	6471.6	7009.7	9317.1	8878.6	5017.7
67.5°	426.4	418.5	392.5	382.1	391.2	721.8	3555.8	4114.5	7069.7	7533.8	4346.2
70°	360.3	354.9	341.5	328.8	305.7	356.7	1360.6	1740.3	4356.5	5011.6	2966.8
72.5°	289.9	287.5	292.4	281.5	253.6	237.8	465.2	563.5	1956.8	2236.5	1222.3
75°	249.9	248.7	251.1	240.2	208.7	165.6	236.6	258.4	552.0	547.1	247.5
77.5°	162.6	164.4	208.1	203.2	179.5	110.4	122.5	132.2	167.4	125.6	75.2
80°	103.7	102.5	105.5	168.6	161.4	84.3	61.3	64.3	80.7	61.9	36.4
82.5°	63.1	61.9	69.2	78.9	81.3	58.8	37.6	38.2	50.3	40.0	19.4
85°	5.5	7.3	41.9	38.8	27.9	18.2	18.2	19.4	26.7	23.7	10.9
87.5°	0.0	0.0	7.3	10.9	6.1	6.7	6.7	7.3	10.3	10.3	5.5
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: P324967

CATALOG NUMBER: GAN-SA3C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7
2.5°	3148.2	3085.1	2957.7	2835.2	2731.4	2631.4	2517.3	2404.5	2351.7	2330.5	2308.7
5°	3153.6	3023.8	2761.2	2496.7	2222.5	1975.6	1765.2	1549.2	1441.2	1393.9	1372.1
7.5°	3160.9	2963.2	2538.6	2094.5	1652.9	1318.1	1025.7	837.7	756.4	743.7	712.1
10°	3162.1	2889.8	2280.1	1650.5	1108.2	794.6	611.4	514.4	478.6	472.5	462.2
12.5°	3164.5	2803.0	1993.2	1222.3	738.8	531.4	442.2	410.1	400.3	399.7	399.7
15°	3171.8	2712.0	1695.4	880.8	530.8	421.0	388.2	375.5	371.8	373.7	373.0
17.5°	3171.8	2604.7	1403.0	656.3	428.9	378.5	360.3	351.8	350.6	352.4	353.0
20°	3148.8	2474.3	1134.9	510.7	380.3	351.2	334.8	326.9	323.9	325.1	325.7
22.5°	3093.6	2314.1	916.5	422.8	348.2	326.3	308.8	296.6	291.8	292.4	292.4
25°	3007.4	2124.3	717.0	365.8	322.1	299.7	279.0	265.1	262.0	261.4	262.7
27.5°	2897.0	1914.4	570.8	322.1	291.2	269.9	249.3	237.8	235.4	236.0	236.6
30°	2788.5	1696.6	450.1	285.1	256.6	236.6	220.8	215.3	215.3	217.2	217.8
32.5°	2689.0	1487.3	356.1	252.9	225.6	207.5	198.4	197.7	200.8	202.0	202.6
35°	2603.5	1293.8	294.8	228.1	201.4	185.6	182.6	185.0	188.6	191.1	191.7
37.5°	2542.8	1121.0	257.8	207.5	182.6	169.8	169.2	174.1	178.9	184.4	185.6
40°	2517.3	974.8	232.3	189.3	167.4	157.7	155.9	162.6	171.7	179.5	180.8
42.5°	2496.1	855.3	210.5	171.7	155.3	141.3	140.7	149.2	160.1	168.0	169.8
45°	2477.9	759.4	190.5	152.9	139.5	121.3	123.1	134.1	142.5	151.0	152.9
47.5°	2440.3	680.6	168.6	132.8	115.3	103.7	107.4	117.1	123.7	136.5	138.3
50°	2373.0	616.3	146.2	108.6	94.0	89.8	95.2	101.9	110.4	121.3	122.5
52.5°	2327.5	567.8	126.8	91.0	77.6	78.9	84.3	86.7	91.6	95.8	94.6
55°	2301.4	541.1	111.0	78.9	66.1	69.8	71.0	67.9	65.5	61.3	59.4
57.5°	2298.3	516.8	98.9	68.5	58.2	60.1	55.8	45.5	37.0	32.1	30.9
60°	2293.5	487.1	89.2	57.6	51.6	49.1	40.0	24.9	17.6	16.4	16.4
62.5°	2240.7	441.0	81.9	48.5	43.7	37.0	23.1	11.5	9.7	10.3	10.3
65°	2072.7	376.7	74.6	39.4	34.6	26.7	11.5	6.7	3.6	4.2	4.2
67.5°	1762.1	300.3	66.7	30.3	26.1	17.0	6.7	3.0	0.0	0.0	0.0
70°	1179.8	186.2	56.4	21.2	17.0	10.3	4.9	0.6	0.0	0.0	0.0
72.5°	452.5	100.7	45.5	12.7	10.9	7.3	3.0	0.0	0.0	0.0	0.0
75°	101.9	66.1	31.5	9.1	7.9	4.9	1.2	0.0	0.0	0.0	0.0
77.5°	38.8	47.9	18.2	6.1	5.5	3.0	0.0	0.0	0.0	0.0	0.0
80°	18.8	28.5	8.5	3.6	3.0	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.7	10.9	3.6	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	5.5	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.8	0.6	0.6	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)