

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: P323697

Luminaire Tested: **GAN-SA3D-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16082 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

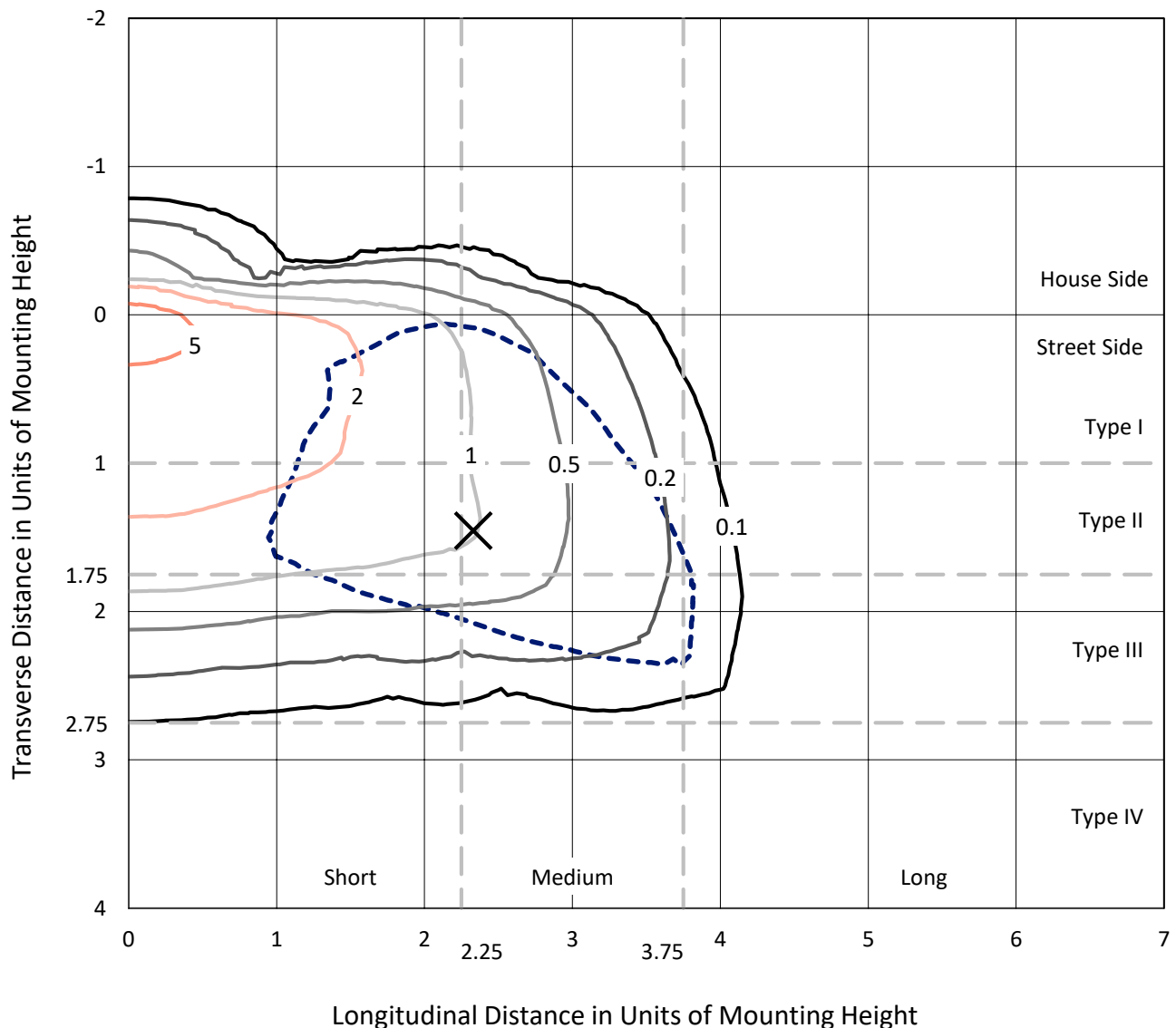
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323697
 CATALOG NUMBER: GAN-SA3D-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

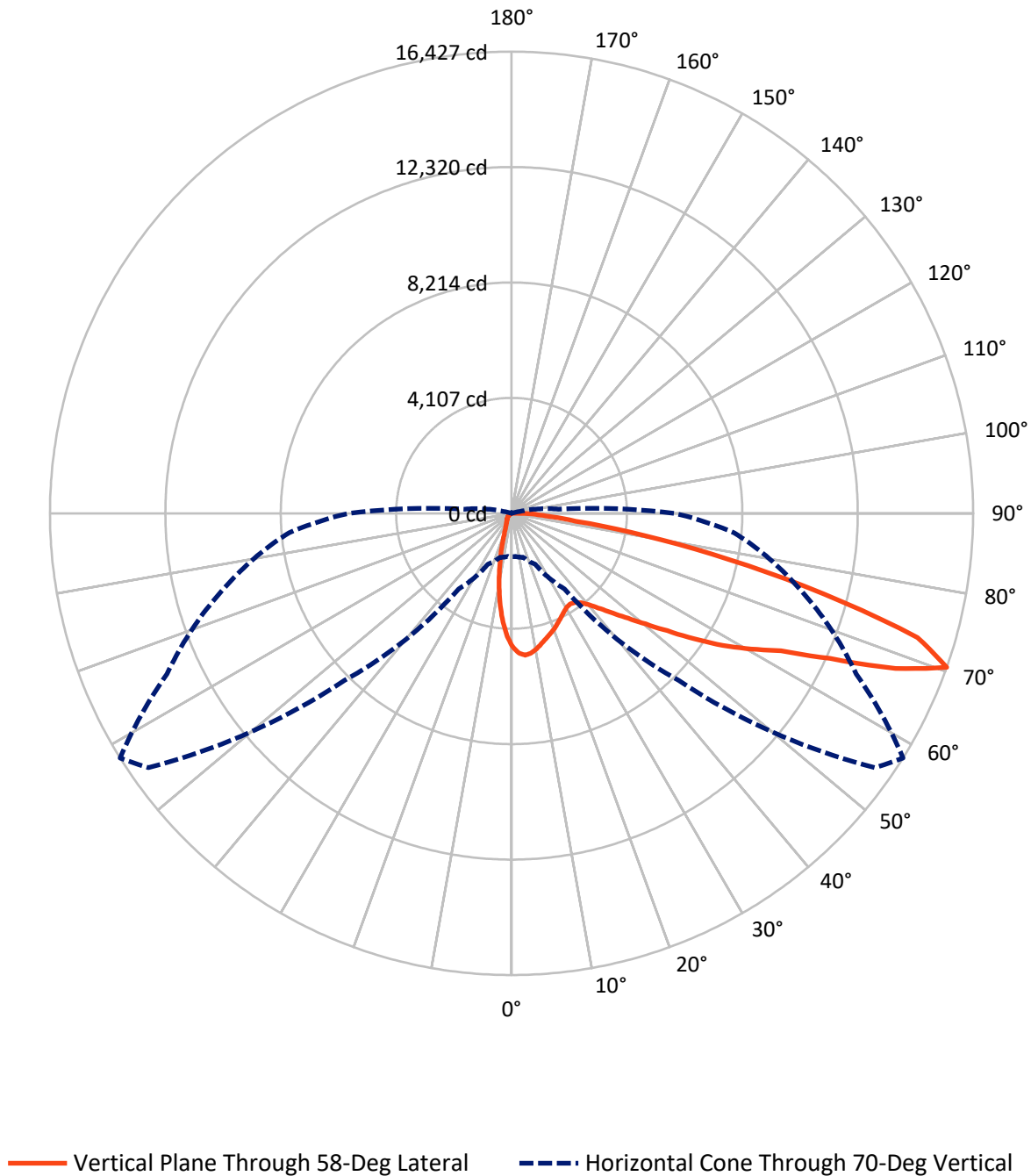
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P323697
CATALOG NUMBER: GAN-SA3D-830-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323697

CATALOG NUMBER: GAN-SA3D-830-U-SL3-HSS

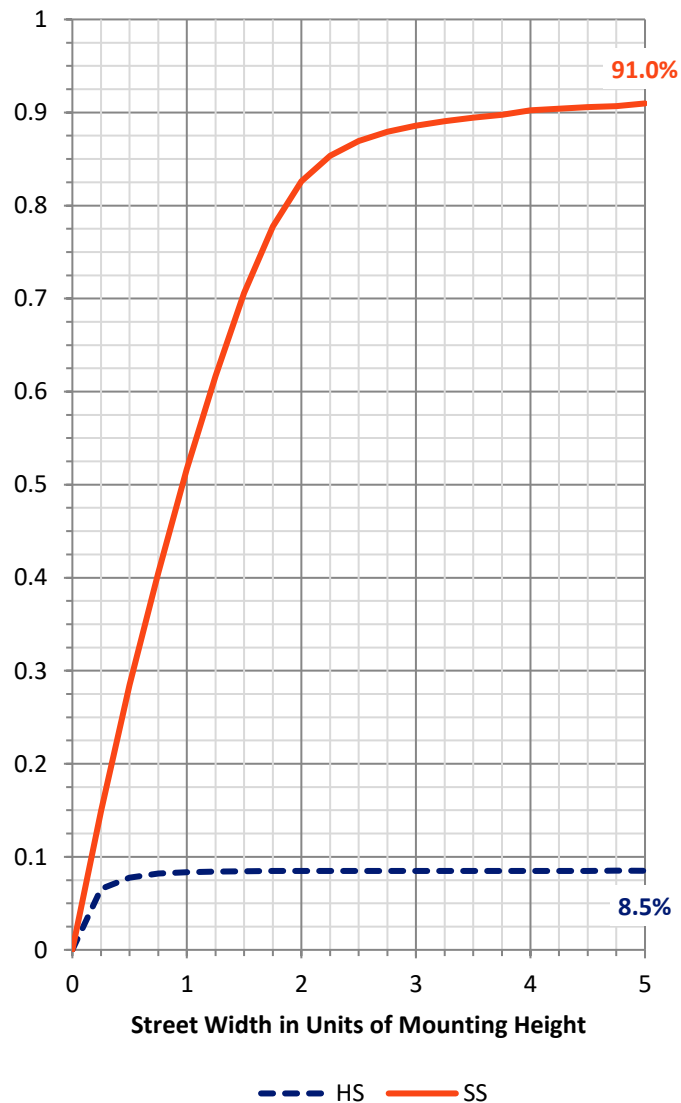
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1376.3	0.0	1376.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	14705.7	0.0	14705.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	16082.0	0.0	16082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	2.4
10°-20°	815.3	5.1
20°-30°	1071.9	6.7
30°-40°	1419.6	8.8
40°-50°	2121.8	13.2
50°-60°	3399.0	21.1
60°-70°	4284.4	26.6
70°-80°	2311.0	14.4
80°-90°	270.5	1.7
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°	16082.0	100.0
0°-180°	16082.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323697

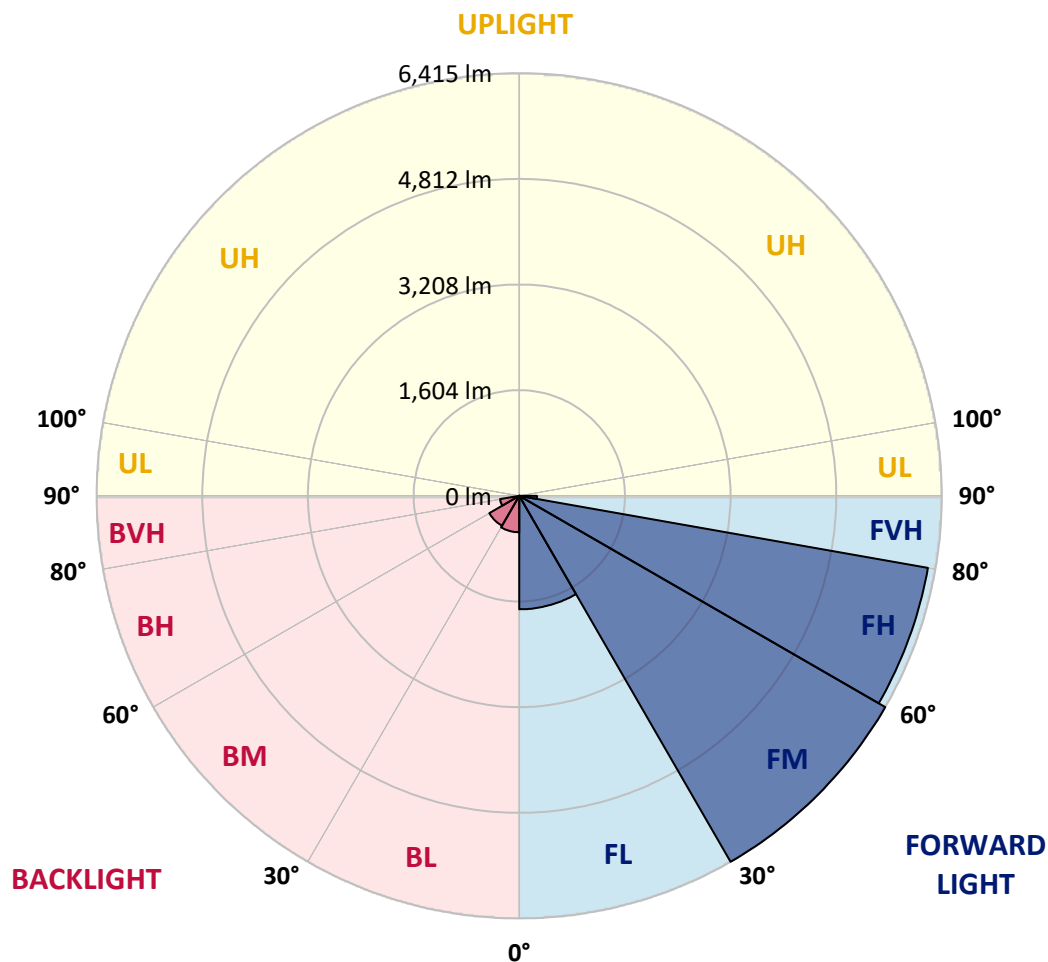
CATALOG NUMBER: GAN-SA3D-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1722.7	10.7			
FM	(30°-60°)	6415.4	39.9			
FH	(60°-80°)	6299.5	39.2			G3/7500
FVH	(80°-90°)	268.2	1.7			G3/500
BL	(0°-30°)	552.9	3.4	B2/1000		
BM	(30°-60°)	525.0	3.3	B1/1000		
BH	(60°-80°)	296.0	1.8	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P323697

CATALOG NUMBER: GAN-SA3D-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5
2.5°	5144.4	5131.7	5127.0	5119.0	5088.2	5058.2	4998.6	4981.9	4944.5	4855.5	4761.2
5°	5148.4	5147.8	5161.8	5158.5	5147.8	5133.7	5090.9	5068.9	5005.3	4878.3	4705.7
7.5°	4900.3	4913.0	4944.5	4969.9	4999.3	5037.4	5042.8	5021.4	4969.2	4832.1	4603.4
10°	4567.3	4587.4	4631.5	4681.7	4758.6	4834.8	4903.0	4900.3	4882.3	4747.2	4480.4
12.5°	4233.6	4257.0	4307.9	4382.1	4491.1	4615.5	4737.2	4753.9	4784.0	4671.0	4366.7
15°	3941.4	3961.5	4011.6	4102.6	4237.6	4404.8	4583.4	4614.1	4691.7	4611.5	4271.7
17.5°	3693.3	3706.0	3742.8	3843.8	4000.2	4202.9	4434.9	4495.1	4610.8	4564.6	4189.5
20°	3520.1	3522.1	3546.2	3617.1	3773.6	4000.2	4281.1	4367.4	4525.2	4524.5	4104.6
22.5°	3434.5	3427.8	3432.5	3473.3	3588.3	3807.0	4127.3	4229.6	4448.3	4490.4	4018.3
25°	3418.5	3413.1	3399.7	3405.1	3474.6	3637.8	3972.2	4090.5	4380.7	4469.7	3943.4
27.5°	3468.6	3474.0	3451.2	3427.2	3432.5	3528.1	3834.4	3971.5	4325.9	4469.7	3890.6
30°	3569.6	3572.3	3555.6	3524.1	3482.0	3497.4	3738.8	3875.9	4298.5	4500.4	3857.1
32.5°	3681.3	3696.0	3694.0	3668.6	3608.4	3546.2	3716.0	3841.1	4296.5	4568.7	3853.8
35°	3819.7	3836.4	3864.5	3859.2	3796.3	3694.0	3793.6	3891.9	4335.9	4681.0	3889.9
37.5°	3966.8	3992.2	4052.4	4081.2	4040.4	3924.7	3967.5	4037.7	4441.6	4862.9	3981.5
40°	4109.2	4138.0	4247.7	4360.7	4329.9	4210.9	4231.0	4287.1	4629.5	5124.4	4155.4
42.5°	4249.0	4291.8	4453.0	4638.9	4675.7	4580.7	4591.4	4636.2	4908.4	5484.1	4439.6
45°	4416.2	4464.3	4703.1	4932.4	5030.7	4989.3	5034.8	5064.2	5272.8	5959.6	4822.8
47.5°	4661.6	4717.1	5010.0	5271.5	5444.0	5470.8	5562.4	5581.8	5733.6	6513.3	5322.3
50°	5140.4	5155.8	5420.6	5658.0	5906.8	6067.2	6171.6	6186.3	6291.3	7118.5	5946.2
52.5°	5742.9	5752.9	5902.7	6061.9	6344.8	6672.4	6916.5	6937.2	6959.3	7708.3	6562.1
55°	6341.4	6340.1	6439.1	6532.7	6856.3	7332.5	7862.1	7874.8	7716.3	8268.0	7032.9
57.5°	6715.2	6751.3	6901.8	7022.2	7474.2	8084.8	8819.7	8866.5	8511.4	8682.6	7498.3
60°	6596.2	6613.6	6947.3	7392.6	8243.9	9154.0	9788.6	9800.7	9109.2	9096.5	8086.8
62.5°	5619.9	5629.2	6153.5	7071.7	8633.8	10540.9	10957.6	10761.6	9796.7	9670.9	8790.9
65°	3851.8	3912.6	4350.7	5485.5	7917.6	11410.9	12767.1	12442.8	10844.5	10498.8	9427.5
67.5°	2268.3	2255.6	2472.2	3308.1	5815.1	10833.2	15056.1	14733.8	12273.6	11053.2	9241.0
70°	1549.4	1540.7	1623.6	2002.8	3282.7	8403.7	15776.3	16427.0	13535.4	10680.0	7953.0
72.5°	1106.1	1110.7	1233.1	1556.1	2061.0	4896.3	13566.9	15106.9	13140.2	9310.5	6045.2
75°	751.0	763.7	938.9	1276.6	1806.9	2491.0	9627.5	11483.8	10700.1	6766.7	3474.6
77.5°	403.9	417.9	624.6	1028.5	1633.7	1730.6	6193.0	7903.5	6721.2	3042.0	1007.1
80°	168.5	176.5	292.2	747.6	1411.7	1520.0	3643.8	4792.7	2864.1	599.8	224.7
82.5°	72.9	76.9	121.7	446.0	1055.2	1283.3	1929.2	2305.7	868.0	131.7	113.0
85°	14.0	14.7	50.2	236.1	673.4	724.2	1250.5	1225.8	389.9	56.8	82.3
87.5°	0.0	0.0	12.0	74.2	197.9	394.5	763.0	753.6	132.4	27.4	30.8
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: P323697

CATALOG NUMBER: GAN-SA3D-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5
2.5°	4713.1	4667.0	4570.0	4450.3	4358.7	4257.7	4177.5	4075.8	4031.7	4033.7	4009.6
5°	4607.4	4512.5	4297.8	4027.0	3818.4	3603.0	3417.8	3233.2	3124.2	3088.8	3055.4
7.5°	4456.3	4305.9	3963.5	3546.2	3193.1	2848.1	2547.8	2283.7	2116.5	2034.9	2004.8
10°	4285.8	4074.5	3579.0	3029.3	2525.1	2058.3	1669.1	1330.7	1195.7	1104.0	1080.6
12.5°	4136.0	3849.8	3203.1	2499.0	1900.5	1337.4	966.3	755.6	664.0	627.9	621.9
15°	3994.9	3639.8	2841.4	2018.8	1316.0	823.2	614.5	543.0	521.6	515.6	515.6
17.5°	3861.8	3439.9	2487.6	1546.1	870.7	577.1	508.9	492.8	486.2	485.5	486.2
20°	3722.7	3239.9	2139.9	1132.8	607.9	488.8	470.1	461.4	459.4	459.4	459.4
22.5°	3589.7	3040.0	1801.5	809.1	487.5	446.0	436.7	430.7	428.6	428.0	426.6
25°	3461.9	2850.1	1471.2	571.8	428.0	408.6	400.6	392.5	386.5	383.2	381.2
27.5°	3356.9	2680.9	1163.6	458.7	386.5	369.8	359.8	347.7	333.0	326.3	323.7
30°	3273.4	2526.4	896.7	387.2	347.7	331.0	315.6	294.9	273.5	262.1	261.5
32.5°	3207.8	2374.6	680.8	342.4	313.0	292.2	270.2	244.1	219.3	206.6	206.0
35°	3175.7	2240.9	520.3	309.6	282.2	256.1	228.7	199.9	175.9	163.8	162.5
37.5°	3197.1	2127.8	405.9	282.2	256.1	226.0	193.9	163.8	142.4	131.7	131.1
40°	3275.4	2055.6	329.7	258.8	234.1	197.3	162.5	134.4	116.4	107.7	107.0
42.5°	3441.9	2028.9	281.5	239.4	212.7	170.5	135.1	111.0	94.3	88.3	86.9
45°	3720.1	2068.3	248.8	220.7	190.6	145.1	111.7	90.9	76.2	71.6	70.9
47.5°	4090.5	2172.0	225.4	202.6	170.5	122.4	93.0	73.6	62.2	57.5	56.8
50°	4568.0	2336.5	206.0	184.6	151.8	103.7	76.9	58.2	48.1	44.8	44.8
52.5°	5087.6	2532.4	188.6	167.8	133.1	86.3	62.2	44.8	38.1	34.1	34.1
55°	5516.9	2703.6	169.9	155.1	110.3	71.6	47.5	34.1	28.1	26.1	26.1
57.5°	5945.5	2886.2	148.5	133.1	88.3	58.2	36.1	25.4	20.7	19.4	19.4
60°	6501.2	3109.5	127.7	108.3	69.5	44.1	26.7	18.1	15.4	14.7	14.7
62.5°	7112.4	3240.6	109.0	86.9	54.2	32.8	19.4	12.0	11.4	11.4	10.7
65°	7486.3	3055.4	91.6	69.5	42.1	24.7	12.7	8.7	10.0	9.4	8.0
67.5°	7009.5	2392.0	74.9	54.2	32.8	18.7	8.0	6.0	10.7	8.7	6.7
70°	5803.8	1674.5	58.2	38.1	26.1	16.0	5.3	4.0	11.4	8.7	5.3
72.5°	4343.3	1120.8	46.1	25.4	19.4	14.0	4.7	2.0	10.0	7.4	4.7
75°	2373.3	451.4	36.8	16.0	12.0	10.0	3.3	1.3	6.7	5.3	3.3
77.5°	624.6	119.0	26.7	10.7	6.7	4.0	2.0	0.7	3.3	2.7	1.3
80°	159.2	46.1	17.4	7.4	4.7	2.0	0.0	0.0	0.7	0.0	0.0
82.5°	84.9	19.4	10.7	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.2	12.7	6.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	4.0	2.0	0.0	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)