

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: P323060

Luminaire Tested: **GAN-SA6D-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26729 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

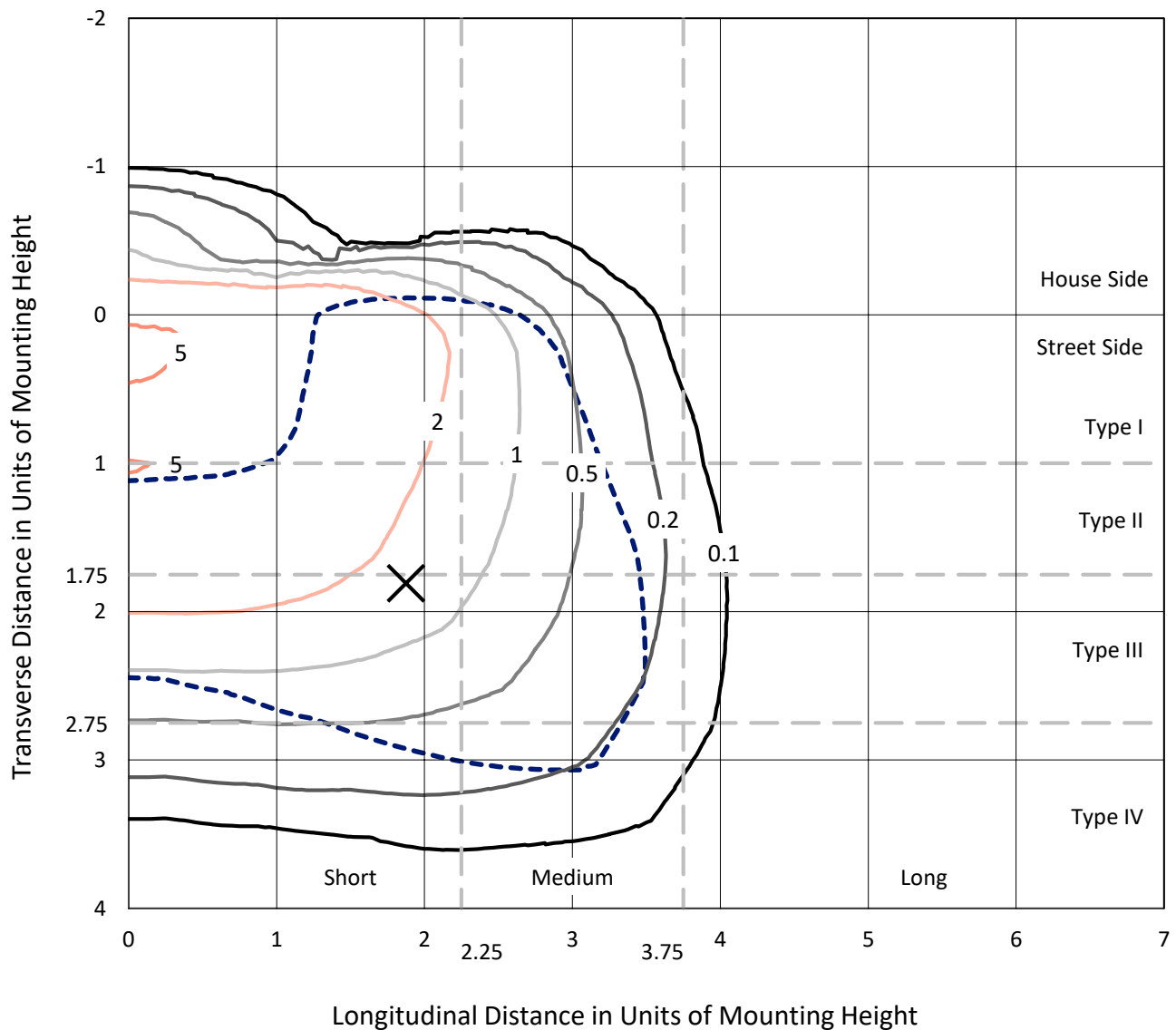
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323060
CATALOG NUMBER: GAN-SA6D-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

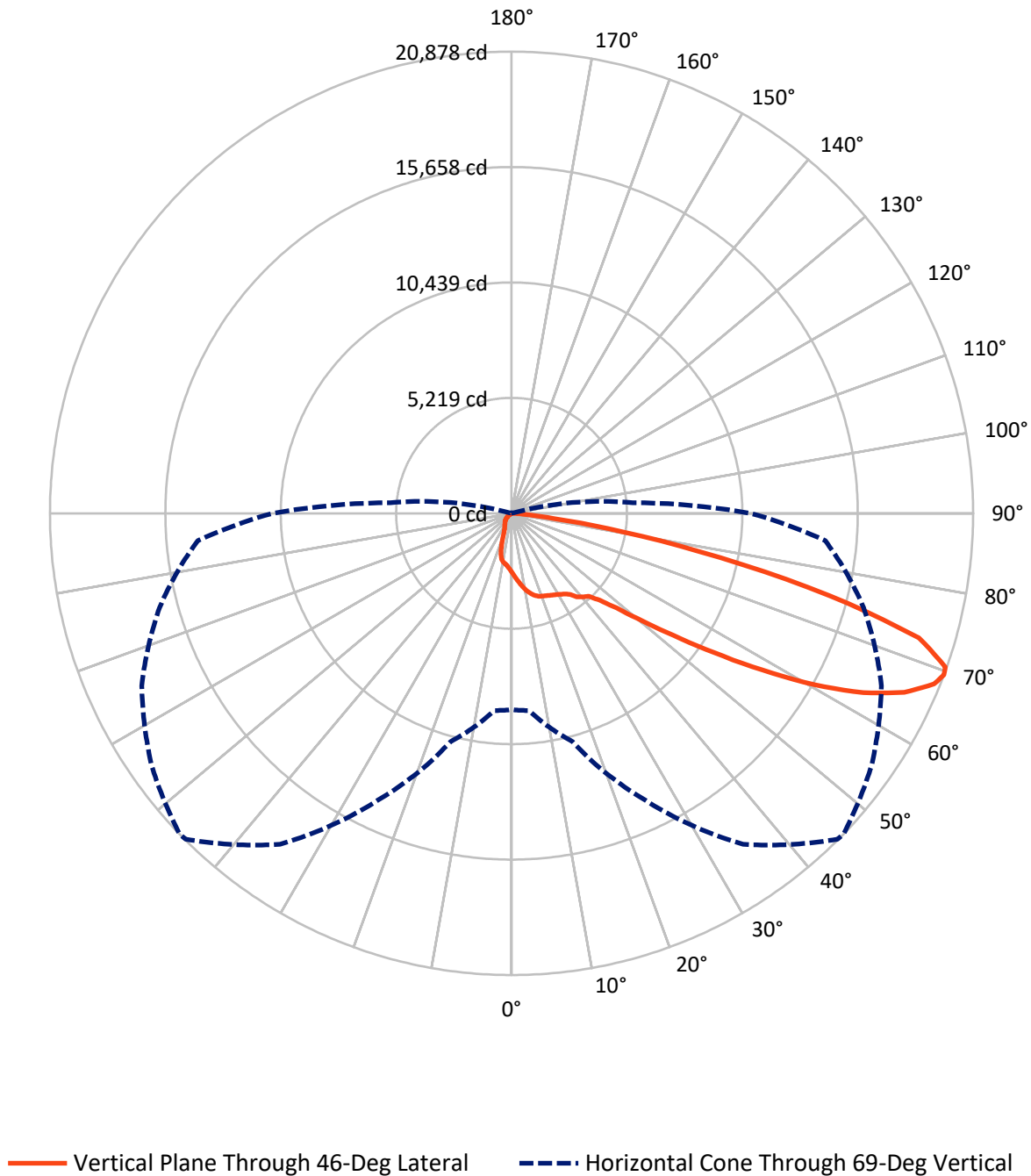
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - N/A

REPORT NUMBER: P323060
CATALOG NUMBER: GAN-SA6D-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323060

CATALOG NUMBER: GAN-SA6D-830-U-T4W-HSS

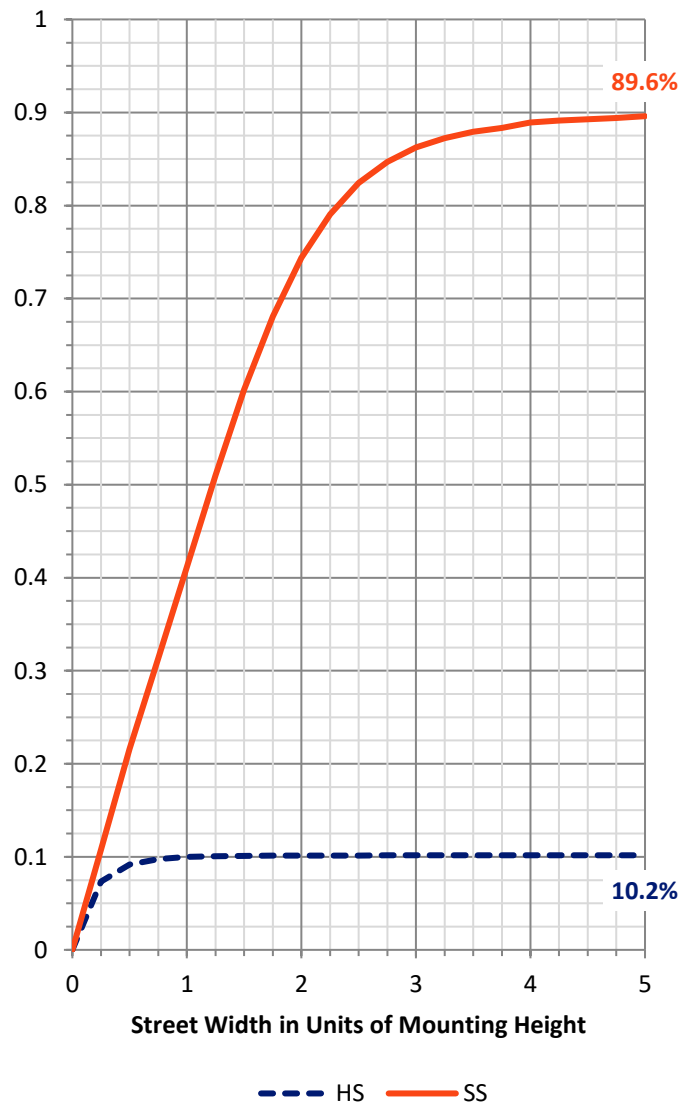
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.1	0.0	2743.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23985.9	0.0	23985.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	26729.0	0.0	26729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.0
10°-20°	808.7	3.0
20°-30°	1271.8	4.8
30°-40°	1823.8	6.8
40°-50°	3152.2	11.8
50°-60°	6227.5	23.3
60°-70°	8703.5	32.6
70°-80°	4204.7	15.7
80°-90°	270.3	1.0
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°	26729.0	100.0
0°-180°	26729.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323060

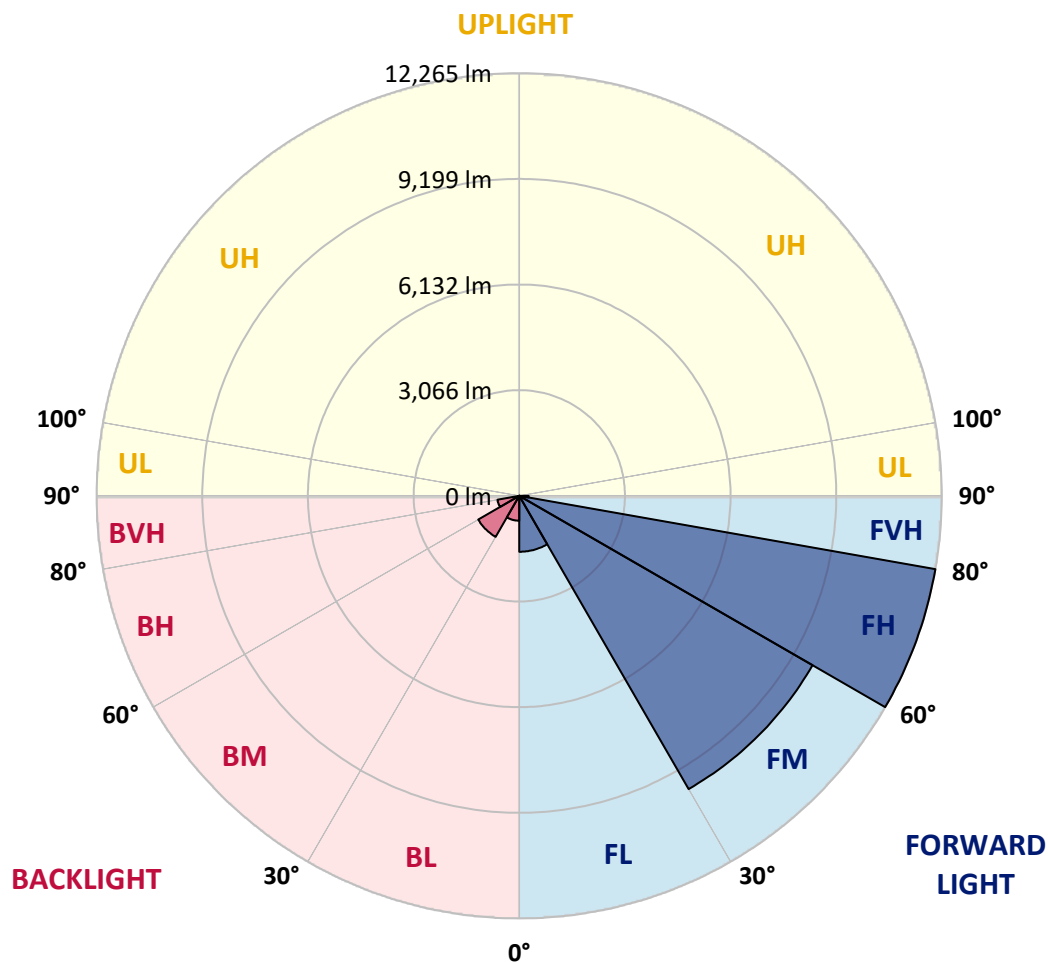
CATALOG NUMBER: GAN-SA6D-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.1	6.1			
FM	(30°-60°)	9828.8	36.8			
FH	(60°-80°)	12265.0	45.9			G5
FVH	(80°-90°)	268.0	1.0			G3/500
BL	(0°-30°)	723.0	2.7	B2/1000		
BM	(30°-60°)	1374.6	5.1	B2/2500		
BH	(60°-80°)	643.2	2.4	B2/1000		G2/1000
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-G5

Type IV Short





REPORT NUMBER: P323060

CATALOG NUMBER: GAN-SA6D-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1
2.5°	2975.2	2971.4	2953.9	2946.3	2903.7	2878.7	2868.6	2837.3	2792.2	2747.1	2696.9
5°	3313.5	3312.3	3279.7	3248.4	3168.2	3093.0	3079.2	3006.5	2905.0	2809.7	2714.5
7.5°	3659.4	3643.1	3610.5	3550.4	3433.8	3313.5	3302.3	3199.5	3055.4	2917.5	2780.9
10°	3952.7	3942.7	3900.0	3808.6	3672.0	3535.4	3521.6	3395.0	3232.1	3062.9	2888.7
12.5°	4180.8	4173.2	4116.9	4002.8	3857.4	3715.8	3697.0	3584.2	3410.0	3220.8	3015.3
15°	4319.9	4316.1	4247.2	4125.6	3982.8	3859.9	3843.6	3744.6	3583.0	3385.0	3153.1
17.5°	4352.5	4353.7	4282.3	4159.5	4041.7	3953.9	3941.4	3866.2	3730.9	3534.1	3291.0
20°	4279.8	4294.8	4230.9	4124.4	4051.7	4005.3	3995.3	3950.2	3836.1	3650.6	3401.3
22.5°	4177.0	4184.5	4140.7	4069.2	4039.2	4047.9	4042.9	4017.8	3921.3	3750.9	3510.3
25°	4114.3	4114.3	4088.0	4027.9	4047.9	4101.8	4103.1	4098.1	4021.6	3873.7	3643.1
27.5°	4111.8	4104.3	4074.2	4029.1	4084.3	4167.0	4172.0	4205.8	4158.2	4022.9	3808.6
30°	4212.1	4203.3	4139.4	4080.5	4150.7	4239.7	4252.2	4326.1	4302.3	4184.5	3992.8
32.5°	4446.4	4415.1	4273.5	4177.0	4229.6	4336.2	4352.5	4470.3	4507.9	4383.8	4170.7
35°	4767.3	4668.3	4464.0	4360.0	4365.0	4476.5	4491.6	4664.5	4776.0	4566.8	4308.6
37.5°	5209.7	5160.8	4828.7	4550.5	4573.0	4742.2	4786.1	4974.1	4942.7	4667.0	4465.2
40°	6179.7	6103.2	5749.8	5084.3	4772.3	4957.8	4971.6	5071.8	5074.3	4893.9	4791.1
42.5°	7500.6	7469.2	7097.0	6053.1	5164.5	5101.9	5127.0	5296.1	5485.4	5372.6	5367.6
45°	8963.1	8946.8	8552.0	7338.9	5957.8	5574.4	5605.7	5832.5	6194.7	6219.8	6378.9
47.5°	10139.9	10132.3	9905.5	8773.8	7172.2	6375.2	6385.2	6625.8	7262.4	7577.0	7831.4
50°	11212.6	11249.0	11069.8	10326.6	8826.5	7629.6	7605.8	7766.2	8788.9	9304.0	9619.8
52.5°	12704.0	12755.3	12252.8	11775.3	10562.2	9186.2	9167.4	9335.3	10623.6	11009.6	11066.0
55°	14021.1	13933.4	13536.1	13398.2	12678.9	11108.6	11103.6	11251.5	12398.2	12562.3	12666.4
57.5°	14602.6	14568.8	14760.5	15076.3	14895.9	13380.7	13369.4	13256.6	13986.0	14003.6	14323.1
60°	14969.8	15011.2	15598.9	16572.7	17022.6	15825.7	15753.1	15065.0	15502.4	15463.6	15805.7
62.5°	14694.1	14775.5	15833.3	17456.2	18614.2	17960.0	17857.2	16721.8	16798.3	16664.2	16982.5
65°	13230.3	13356.9	15090.1	17289.5	19403.7	19628.0	19524.0	18184.3	17827.2	17606.6	17429.9
67.5°	10742.7	10817.9	12627.5	15839.5	19047.8	20623.1	20601.8	19466.4	18604.2	17447.4	16076.4
69°	8877.9	8951.8	10693.8	14313.1	18264.5	20836.2	20877.5	19877.4	18456.3	16479.9	14244.2
70°	7519.4	7598.3	9221.2	13004.7	17355.9	20737.1	20811.1	19838.6	18032.7	15359.5	12636.3
72.5°	3943.9	4011.6	5677.1	8959.3	14148.9	19041.5	19265.9	18161.8	15285.6	11155.0	7471.7
75°	1239.4	1278.3	2217.0	4683.3	9687.4	14805.6	14857.0	14246.7	10854.2	6135.8	3111.8
77.5°	472.5	461.2	738.2	1725.7	4897.6	9322.8	9637.3	8902.9	5695.9	2169.3	718.1
80°	254.4	255.7	383.5	714.3	2095.4	4791.1	5056.8	4314.9	2024.0	676.7	165.4
82.5°	110.3	115.3	215.6	378.5	962.5	1767.0	1899.9	1581.6	773.2	454.9	61.4
85°	23.8	26.3	104.0	205.5	392.3	496.3	520.1	512.6	492.5	353.4	23.8
87.5°	0.0	0.0	46.4	73.9	99.0	112.8	99.0	129.1	272.0	238.1	12.5
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: P323060

CATALOG NUMBER: GAN-SA6D-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1	2678.1
2.5°	2680.7	2658.1	2619.2	2576.6	2546.6	2515.2	2490.2	2478.9	2466.4	2457.6	2468.9
5°	2675.6	2631.8	2556.6	2483.9	2431.3	2388.7	2353.6	2339.8	2326.0	2316.0	2314.7
7.5°	2719.5	2658.1	2542.8	2436.3	2354.8	2297.2	2249.5	2229.5	2213.2	2205.7	2199.4
10°	2803.5	2724.5	2570.4	2431.3	2326.0	2228.2	2125.5	2046.5	1995.1	1971.3	1962.6
12.5°	2912.5	2813.5	2623.0	2457.6	2304.7	2116.7	1898.6	1710.7	1589.1	1549.0	1525.2
15°	3040.3	2917.5	2691.9	2491.4	2227.0	1883.6	1513.9	1268.3	1155.5	1132.9	1107.9
17.5°	3163.1	3027.8	2774.6	2497.7	2056.5	1505.1	1109.1	942.4	898.6	913.6	917.4
20°	3270.9	3136.8	2856.1	2442.5	1747.0	1129.2	858.5	817.1	833.4	862.2	867.2
22.5°	3380.0	3242.1	2931.3	2297.2	1351.0	857.2	773.2	783.3	799.6	828.4	833.4
25°	3512.8	3369.9	3001.5	2030.2	1013.9	729.4	734.4	749.4	765.7	792.0	794.5
27.5°	3665.7	3531.6	3047.8	1683.1	751.9	670.5	686.8	709.3	725.6	750.7	755.7
30°	3868.7	3744.6	3062.9	1323.4	630.4	617.8	625.4	652.9	676.7	699.3	703.1
32.5°	4059.2	3955.2	3012.8	998.8	584.0	569.0	569.0	585.3	612.8	634.1	639.1
35°	4234.7	4167.0	2852.3	730.6	548.9	523.8	511.3	511.3	528.9	546.4	551.4
37.5°	4466.5	4464.0	2592.9	582.8	515.1	486.3	459.9	439.9	433.6	437.4	439.9
40°	4863.8	4867.5	2254.6	522.6	486.3	447.4	407.3	371.0	337.1	325.8	324.6
42.5°	5484.1	5427.7	1899.9	493.8	461.2	407.3	347.1	298.3	245.6	229.3	228.1
45°	6469.2	6134.5	1523.9	467.5	434.9	362.2	287.0	220.6	178.0	165.4	165.4
47.5°	7904.1	7063.2	1180.5	438.6	399.8	310.8	216.8	159.2	130.3	124.1	125.3
50°	9387.9	7973.0	904.8	402.3	357.2	256.9	160.4	115.3	99.0	99.0	100.3
52.5°	10703.8	8639.7	705.6	363.4	304.5	201.8	121.6	90.2	82.7	81.5	82.7
55°	11935.7	9069.6	540.1	318.3	241.9	150.4	92.7	73.9	68.9	66.4	65.2
57.5°	13123.8	9282.7	404.8	256.9	175.5	109.0	73.9	62.7	57.6	53.9	52.6
60°	13914.6	9109.7	278.2	189.2	121.6	79.0	61.4	53.9	47.6	43.9	42.6
62.5°	14360.7	8637.2	179.2	136.6	86.5	58.9	48.9	45.1	36.3	32.6	32.6
65°	14180.3	7857.7	125.3	97.8	62.7	43.9	36.3	36.3	26.3	21.3	20.1
67.5°	12566.1	6638.3	95.2	72.7	45.1	32.6	27.6	31.3	16.3	10.0	10.0
69°	10811.6	5501.7	81.5	60.2	37.6	26.3	23.8	28.8	11.3	7.5	6.3
70°	9396.7	4746.0	73.9	52.6	31.3	22.6	21.3	27.6	11.3	6.3	5.0
72.5°	5622.0	2646.8	56.4	37.6	20.1	17.5	17.5	31.3	11.3	6.3	5.0
75°	2272.1	932.4	41.4	26.3	15.0	15.0	21.3	40.1	10.0	5.0	3.8
77.5°	515.1	204.3	23.8	16.3	10.0	15.0	25.1	31.3	6.3	2.5	0.0
80°	125.3	50.1	15.0	10.0	6.3	11.3	18.8	17.5	1.3	0.0	0.0
82.5°	41.4	17.5	6.3	5.0	1.3	3.8	8.8	5.0	0.0	0.0	0.0
85°	17.5	10.0	2.5	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.3	3.8	0.0	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)