

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1436774

Luminaire Tested: XAS300-SFPM (3000K-120W-T4-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436774
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/25/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS300-SFPM (3000K-120W-T4-HSS)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (120W)
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 45535 (1 lamp)
Luminaire Lumens: 16859.5 lumens
Efficiency: 37.0%
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

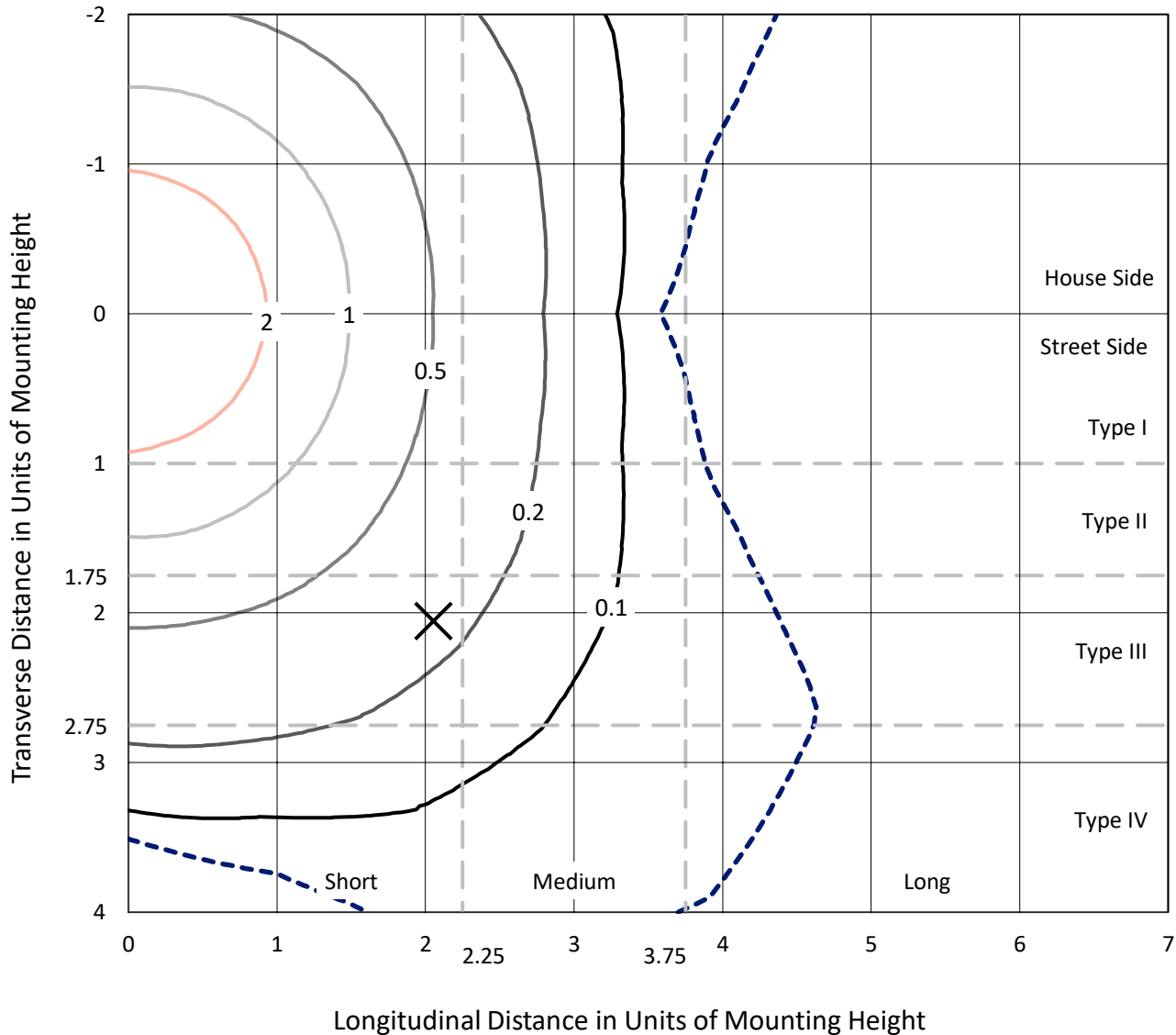
Input Watts (W): 123.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

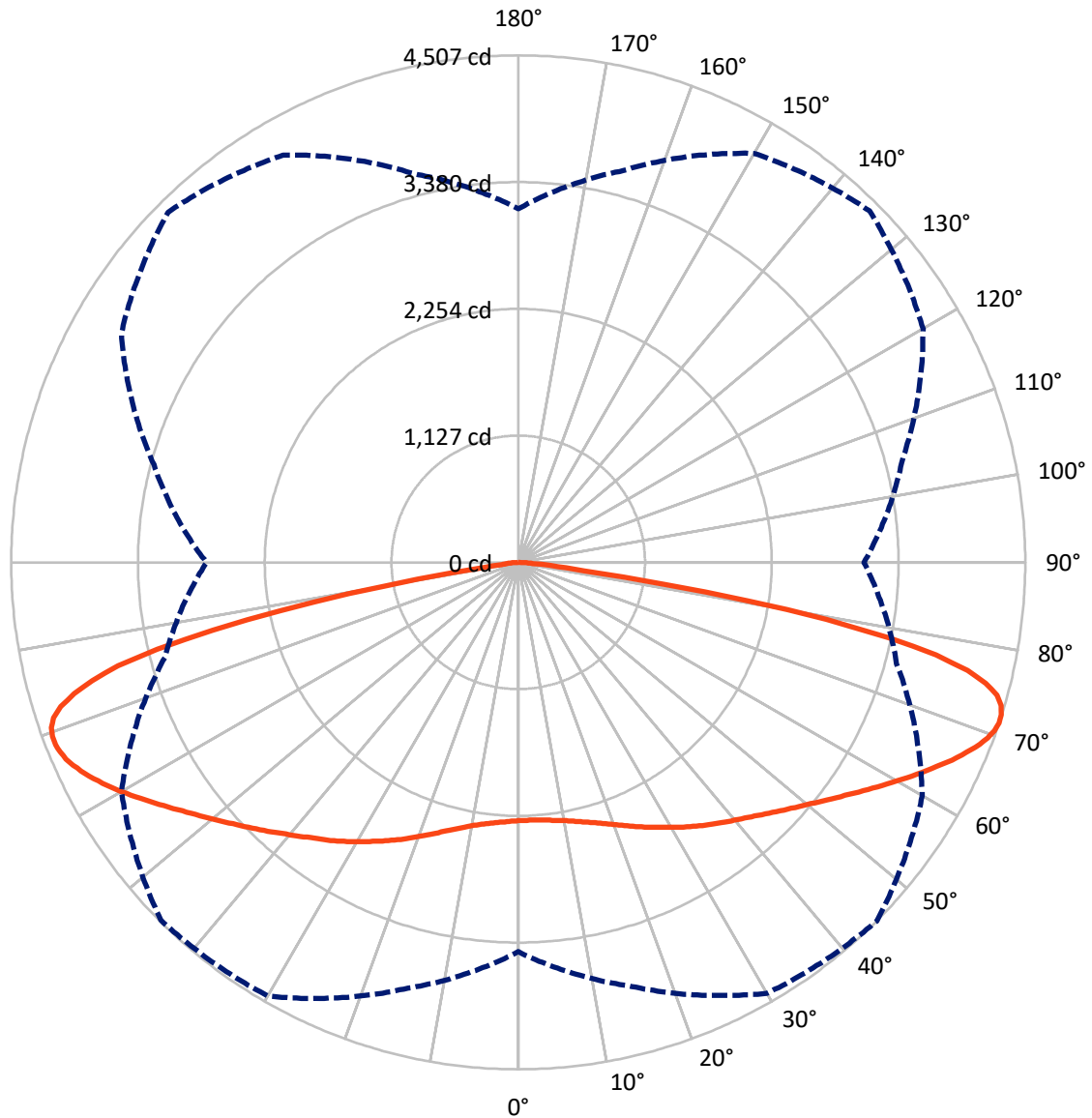


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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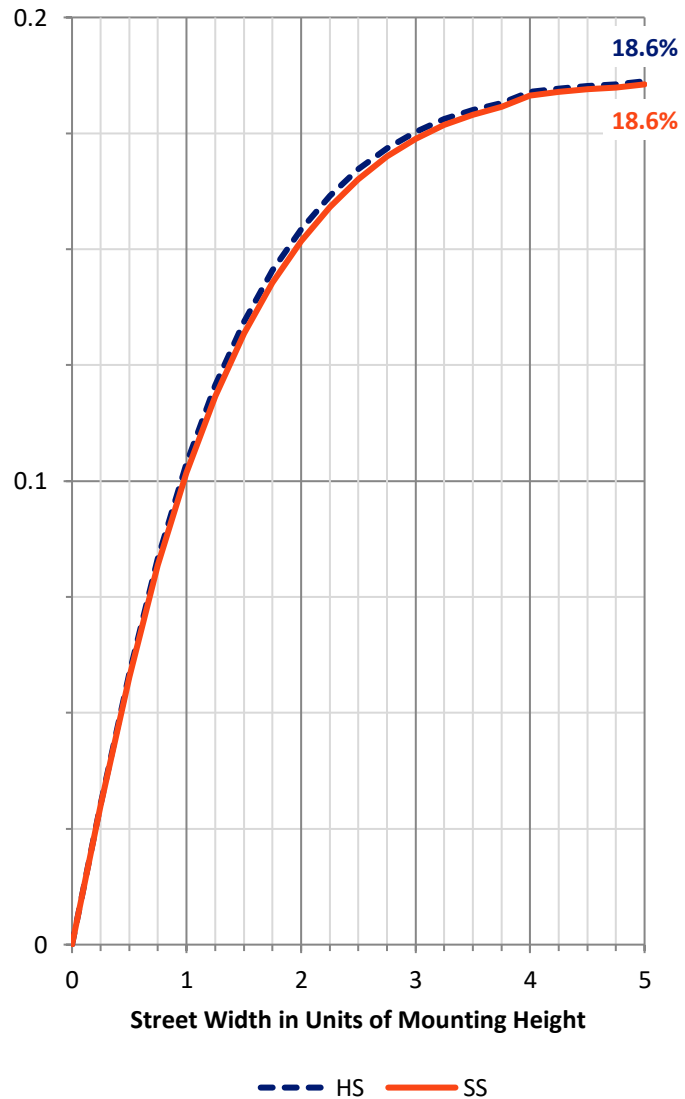
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8431.6	0.0	8431.6
	% Lamp	18.5	0.0	18.5
Street Side	Lumens	8427.9	0.0	8427.9
	% Lamp	18.5	0.0	18.5
Total	Lumens	16859.5	0.0	16859.5
	% Lamp	37.0	0.0	37.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	221.7	1.3	0.5
10°-20°	692.0	4.1	1.5
20°-30°	1233.2	7.3	2.7
30°-40°	1845.5	10.9	4.1
40°-50°	2526.2	15.0	5.5
50°-60°	3294.1	19.5	7.2
60°-70°	3971.3	23.6	8.7
70°-80°	2902.4	17.2	6.4
80°-90°	173.2	1.0	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	16859.5	100.0	37.0
0°-180°	16859.5	100.0	37.0

Coefficient of Utilization



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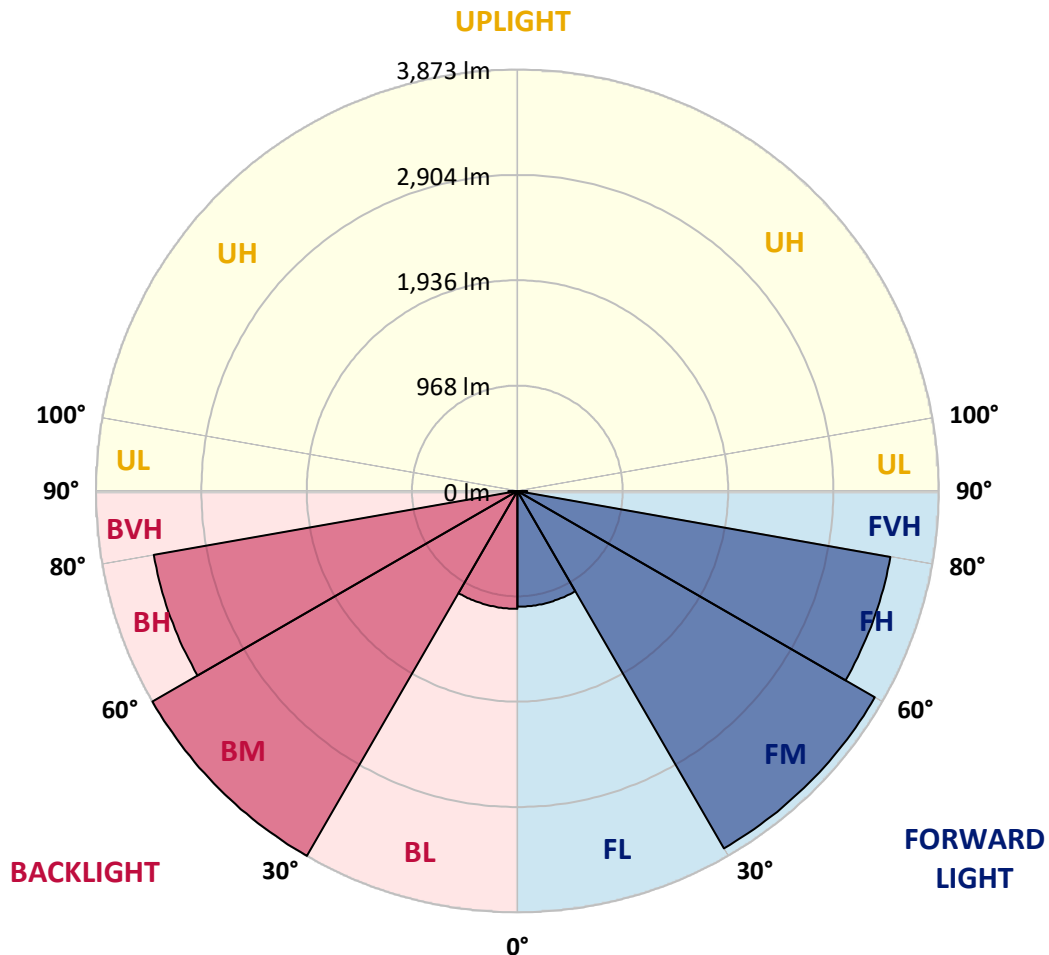
CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.8	2.3			
FM (30°-60°)	3793.0	8.3			
FH (60°-80°)	3481.0	7.6			G2/5000
FVH (80°-90°)	90.1	0.2			G1/100
BL (0°-30°)	1083.2	2.4	B3/2500		
BM (30°-60°)	3872.7	8.5	B3/5000		
BH (60°-80°)	3392.7	7.5	B4/5000		G2/5000
BVH (80°-90°)	83.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	28675.5	63.0			

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8
1°	2294.5	2293.8	2294.0	2294.3	2294.7	2295.5	2293.7	2293.7	2294.1	2294.7	2295.0
2°	2294.3	2293.8	2293.8	2294.3	2295.0	2295.7	2294.1	2294.5	2295.3	2296.4	2297.1
3°	2295.7	2294.5	2294.9	2295.0	2296.5	2297.8	2296.1	2297.0	2298.1	2299.5	2300.4
4°	2297.2	2296.4	2296.8	2298.0	2299.4	2300.8	2299.4	2300.4	2302.3	2303.7	2304.6
5°	2299.4	2298.8	2299.8	2301.2	2303.8	2306.0	2304.8	2305.9	2307.2	2309.0	2310.8
6°	2303.2	2302.0	2303.8	2306.2	2309.7	2312.2	2311.3	2312.2	2313.4	2315.0	2317.4
7°	2307.5	2307.0	2308.6	2312.5	2316.2	2318.4	2317.9	2319.4	2320.3	2322.1	2325.1
8°	2312.7	2312.2	2315.2	2319.4	2323.2	2326.5	2326.0	2327.5	2329.3	2331.1	2334.8
9°	2319.3	2318.3	2322.3	2326.7	2332.0	2335.5	2335.2	2336.6	2339.3	2341.7	2345.3
10°	2327.2	2326.6	2330.7	2335.8	2342.3	2346.0	2345.4	2346.6	2350.0	2354.2	2357.5
11°	2337.1	2335.6	2340.6	2346.6	2353.1	2356.6	2356.5	2357.6	2361.6	2367.2	2370.9
12°	2347.9	2346.3	2351.2	2358.0	2364.7	2368.9	2369.5	2370.7	2375.6	2382.1	2386.0
13°	2360.0	2357.9	2362.6	2370.8	2377.6	2382.4	2383.7	2385.8	2390.8	2397.8	2402.5
14°	2373.6	2371.5	2375.1	2384.3	2391.9	2398.8	2400.3	2401.9	2407.7	2414.6	2420.7
15°	2389.1	2386.0	2389.5	2398.7	2407.8	2415.5	2418.0	2420.3	2426.0	2433.0	2439.5
16°	2405.1	2401.7	2405.7	2414.3	2425.1	2433.7	2437.4	2440.5	2445.3	2452.4	2459.2
17°	2422.1	2417.5	2422.8	2431.0	2443.1	2453.8	2458.3	2460.8	2466.2	2473.1	2479.8
18°	2439.3	2434.9	2439.8	2450.1	2462.1	2475.1	2480.5	2483.2	2488.0	2495.2	2501.8
19°	2457.2	2452.8	2458.9	2470.9	2482.2	2496.8	2504.0	2506.0	2510.6	2518.0	2524.1
20°	2476.0	2471.8	2478.5	2491.6	2503.6	2519.1	2528.1	2530.3	2534.0	2541.4	2546.7
21°	2495.0	2491.5	2498.9	2513.4	2525.5	2543.3	2552.5	2556.1	2558.3	2566.4	2570.1
22°	2514.3	2511.4	2520.3	2535.4	2548.6	2567.9	2577.3	2582.8	2584.1	2591.2	2593.0
23°	2534.8	2532.8	2542.2	2558.8	2573.5	2593.2	2601.8	2608.6	2610.6	2616.4	2617.3
24°	2556.0	2555.2	2564.5	2582.2	2598.2	2616.9	2625.0	2634.3	2637.3	2641.7	2640.9
25°	2578.9	2578.4	2588.0	2606.7	2623.2	2641.0	2647.8	2659.7	2663.7	2667.5	2665.7
26°	2602.0	2603.2	2611.6	2631.3	2647.5	2666.1	2671.5	2685.2	2690.7	2693.4	2690.8
27°	2627.2	2628.7	2636.5	2656.3	2671.9	2691.8	2696.3	2711.9	2717.6	2718.8	2715.8
28°	2653.5	2655.2	2661.8	2681.2	2696.6	2717.9	2722.9	2737.7	2744.2	2745.2	2741.3
29°	2680.7	2681.6	2687.9	2706.9	2721.6	2744.2	2750.6	2765.1	2772.3	2770.8	2767.4
30°	2710.2	2709.2	2714.2	2732.7	2747.7	2771.5	2780.5	2793.7	2800.0	2797.4	2794.2
31°	2740.7	2736.7	2741.5	2760.3	2773.6	2799.5	2810.5	2822.8	2829.5	2825.3	2821.6
32°	2771.6	2764.2	2768.1	2787.4	2800.6	2825.9	2839.6	2851.0	2858.1	2853.9	2850.8
33°	2804.7	2791.7	2794.9	2813.6	2828.1	2852.5	2869.1	2878.7	2886.1	2883.0	2878.1
34°	2839.5	2819.6	2822.2	2840.7	2854.7	2879.3	2899.2	2906.2	2912.8	2909.9	2907.0
35°	2874.5	2848.3	2851.1	2869.4	2880.8	2906.4	2929.8	2933.9	2938.9	2938.4	2936.8
36°	2909.6	2876.1	2878.8	2896.6	2907.2	2932.9	2960.9	2961.1	2966.2	2967.7	2966.6
37°	2946.0	2902.4	2906.8	2922.8	2933.9	2957.2	2992.6	2988.2	2994.7	2997.2	2997.8
38°	2983.0	2927.9	2933.6	2950.9	2960.9	2982.2	3025.0	3014.3	3022.9	3027.5	3028.5
39°	3020.1	2954.0	2960.5	2978.2	2987.8	3008.9	3059.8	3041.5	3050.9	3058.1	3058.8
40°	3058.4	2981.7	2987.5	3006.2	3015.4	3036.8	3097.3	3070.7	3080.5	3090.4	3090.6
41°	3098.2	3011.8	3016.5	3035.4	3044.9	3067.1	3133.8	3101.1	3111.4	3122.3	3121.9
42°	3136.7	3045.8	3047.1	3066.6	3075.7	3098.9	3168.3	3134.1	3142.8	3155.8	3155.1
43°	3172.3	3082.4	3079.2	3099.9	3109.8	3131.3	3203.5	3167.2	3177.0	3190.6	3189.5
44°	3205.7	3120.9	3113.4	3134.5	3145.2	3166.2	3238.8	3200.8	3212.2	3227.2	3225.4



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CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3238.6	3158.8	3149.3	3170.6	3180.8	3202.8	3274.3	3235.6	3247.7	3264.8	3262.7
46°	3269.5	3199.1	3187.6	3208.9	3219.0	3240.7	3307.5	3273.3	3285.5	3303.5	3301.8
47°	3298.6	3241.8	3228.9	3247.3	3257.7	3280.4	3338.6	3312.7	3324.1	3343.8	3341.3
48°	3327.5	3286.9	3271.1	3287.8	3296.5	3319.8	3369.4	3352.9	3363.9	3385.4	3383.4
49°	3358.0	3334.0	3314.6	3330.0	3338.0	3360.1	3398.6	3392.4	3403.1	3426.7	3426.6
50°	3390.1	3383.8	3360.0	3373.0	3382.0	3402.4	3426.6	3433.3	3444.4	3469.6	3471.4
51°	3424.1	3434.5	3407.8	3418.0	3424.3	3444.1	3453.4	3473.9	3485.7	3513.5	3517.3
52°	3457.9	3486.6	3456.9	3465.4	3470.4	3487.0	3477.9	3515.4	3528.4	3558.7	3564.4
53°	3496.4	3540.5	3507.4	3516.8	3515.8	3527.1	3501.5	3554.3	3571.4	3605.5	3613.4
54°	3537.4	3593.3	3561.0	3568.6	3562.2	3564.7	3526.2	3591.8	3616.7	3653.0	3662.8
55°	3579.0	3645.2	3616.6	3623.0	3608.5	3601.1	3550.3	3627.4	3660.1	3703.3	3712.9
56°	3620.5	3695.9	3673.3	3679.5	3656.0	3638.4	3575.0	3662.1	3703.3	3754.4	3762.5
57°	3661.4	3744.0	3731.1	3736.2	3702.9	3674.6	3599.3	3695.0	3747.7	3808.8	3811.4
58°	3699.5	3789.9	3787.7	3796.6	3750.3	3706.6	3623.3	3725.1	3790.7	3864.0	3857.0
59°	3739.6	3830.3	3846.6	3857.0	3797.0	3734.8	3644.2	3753.3	3832.9	3920.6	3898.4
60°	3777.3	3869.5	3904.7	3919.5	3842.9	3759.6	3661.7	3778.1	3874.4	3978.4	3937.7
61°	3809.6	3903.2	3966.2	3982.8	3886.6	3779.2	3675.2	3797.7	3916.9	4037.3	3979.5
62°	3837.0	3932.5	4026.5	4045.4	3931.4	3792.5	3684.5	3814.0	3959.1	4094.7	4023.2
63°	3865.1	3960.6	4086.9	4108.4	3975.8	3802.9	3691.0	3827.7	3999.9	4150.9	4063.9
64°	3900.3	3987.7	4145.4	4172.0	4016.2	3808.4	3693.8	3836.2	4039.9	4206.5	4102.1
65°	3938.8	4019.5	4205.0	4236.8	4056.5	3812.2	3694.0	3842.5	4078.7	4256.8	4137.6
66°	3962.1	4053.6	4261.3	4298.3	4093.9	3813.6	3683.8	3843.6	4113.5	4304.2	4173.5
67°	3966.2	4080.2	4309.4	4355.3	4123.5	3806.2	3663.5	3834.4	4143.2	4344.2	4204.3
68°	3963.6	4088.7	4354.6	4410.1	4152.4	3779.6	3613.4	3812.5	4167.6	4378.6	4227.6
69°	3920.3	4076.1	4396.4	4455.7	4168.0	3730.7	3504.0	3765.5	4183.1	4403.1	4232.0
70°	3767.0	4030.2	4423.1	4489.7	4165.7	3632.8	3330.4	3678.0	4181.7	4418.6	4222.0
71°	3462.0	3903.2	4423.1	4507.1	4147.2	3481.7	3072.8	3535.5	4154.6	4417.9	4197.6
72°	3063.4	3662.5	4384.9	4502.3	4103.9	3279.5	2798.2	3327.1	4100.2	4398.6	4135.8
73°	2678.0	3328.0	4309.4	4476.4	4031.7	3039.8	2552.5	3070.3	4009.9	4343.1	4034.3
74°	2305.9	2954.5	4186.1	4414.2	3918.0	2803.0	2347.8	2804.2	3886.2	4244.6	3882.9
75°	1755.0	2539.8	3995.8	4290.9	3782.2	2568.9	2109.6	2555.3	3721.4	4093.2	3640.5
76°	1022.8	2000.3	3707.7	4106.1	3605.9	2272.4	1691.8	2292.2	3518.9	3886.6	3310.8
77°	402.4	1271.9	3320.9	3804.0	3370.3	1820.8	1191.0	1879.5	3265.9	3578.2	2915.0
78°	293.6	577.3	2839.1	3366.0	3023.6	1216.3	690.1	1331.8	2942.2	3137.4	2429.5
79°	195.0	410.1	2188.4	2784.9	2540.2	604.7	193.8	784.1	2482.8	2541.5	1780.2
80°	96.5	256.3	1355.6	2063.5	1880.7	430.3	109.9	241.2	1855.4	1851.3	1263.6
81°	85.6	102.5	641.9	1307.8	1099.1	265.7	97.0	120.3	1301.3	1301.6	747.0
82°	75.7	88.3	462.3	585.9	471.6	101.1	84.1	99.5	747.2	751.8	233.0
83°	66.0	75.6	285.3	429.8	340.1	82.1	71.3	85.8	197.5	202.6	126.0
84°	56.1	63.5	108.3	278.0	216.5	69.3	61.0	72.0	116.6	129.4	96.1
85°	45.8	51.8	81.8	126.1	92.9	56.9	50.7	59.5	91.5	107.8	66.4
86°	33.9	40.6	62.5	100.0	68.3	45.1	40.2	47.5	66.4	86.0	47.0
87°	23.0	30.1	47.4	74.5	52.4	34.5	29.3	36.7	50.3	64.1	32.9
88°	12.2	19.7	32.7	46.3	37.5	24.0	18.8	26.5	36.0	40.1	20.4
89°	5.0	9.3	17.5	24.3	20.5	13.5	13.2	18.4	24.8	27.6	14.4



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CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8
1°	2295.8	2296.7	2297.3	2297.7	2297.9	2298.3	2298.4	2296.1	2296.0	2295.8	2295.0
2°	2297.9	2299.8	2300.6	2301.6	2301.5	2302.1	2301.8	2300.1	2299.2	2298.1	2296.7
3°	2302.0	2303.9	2305.5	2306.2	2306.6	2306.8	2306.5	2304.7	2303.0	2301.4	2299.2
4°	2306.9	2309.1	2310.8	2312.0	2312.7	2313.0	2312.1	2309.2	2307.7	2305.8	2302.9
5°	2312.4	2314.9	2317.0	2318.8	2319.5	2319.5	2318.2	2315.2	2312.5	2310.4	2307.2
6°	2318.8	2322.0	2324.2	2326.1	2327.1	2327.0	2325.7	2322.2	2319.4	2315.9	2311.7
7°	2327.1	2330.3	2332.6	2334.9	2335.9	2335.7	2334.0	2330.7	2326.9	2323.0	2317.6
8°	2336.8	2339.7	2342.4	2345.3	2345.8	2345.7	2344.0	2339.8	2335.8	2331.7	2324.8
9°	2348.2	2350.7	2353.7	2356.6	2357.4	2356.3	2354.0	2349.8	2346.0	2341.6	2333.5
10°	2359.9	2362.7	2365.6	2369.3	2370.0	2368.5	2366.2	2362.4	2357.7	2351.9	2343.4
11°	2374.0	2377.2	2380.0	2383.3	2384.7	2383.4	2380.6	2377.1	2372.0	2364.4	2355.0
12°	2389.6	2393.0	2395.8	2398.8	2401.1	2400.2	2397.1	2394.3	2388.3	2379.4	2367.4
13°	2406.7	2410.2	2412.7	2416.2	2418.9	2418.4	2415.1	2412.1	2405.8	2396.2	2381.8
14°	2424.4	2428.0	2431.0	2434.8	2438.3	2438.5	2434.1	2430.6	2424.0	2413.6	2397.7
15°	2443.4	2447.6	2450.0	2455.3	2459.3	2458.8	2454.6	2451.1	2443.7	2431.8	2415.7
16°	2464.2	2468.1	2471.2	2476.8	2482.8	2481.5	2476.5	2474.0	2465.0	2451.6	2434.7
17°	2485.4	2489.5	2492.8	2499.6	2506.4	2504.3	2499.6	2497.3	2488.2	2473.3	2454.5
18°	2506.9	2510.6	2514.6	2522.9	2530.6	2528.2	2524.1	2521.8	2511.4	2495.3	2475.1
19°	2529.5	2532.6	2537.0	2546.8	2555.3	2552.6	2548.9	2546.8	2535.5	2519.0	2496.5
20°	2552.2	2554.3	2560.4	2570.6	2580.9	2578.4	2575.0	2572.5	2560.8	2542.6	2518.7
21°	2575.1	2576.8	2584.9	2596.2	2608.4	2604.9	2602.2	2599.3	2587.9	2566.8	2542.1
22°	2597.9	2599.7	2608.9	2620.9	2635.0	2632.3	2630.3	2624.9	2614.3	2591.2	2565.8
23°	2621.6	2622.9	2633.7	2647.6	2662.1	2659.4	2658.2	2650.3	2641.1	2617.8	2590.8
24°	2645.8	2647.5	2659.3	2673.1	2688.6	2688.1	2685.7	2675.1	2667.4	2644.6	2615.6
25°	2670.9	2673.1	2685.8	2700.2	2715.2	2716.7	2712.6	2700.7	2694.2	2670.5	2640.7
26°	2696.5	2700.2	2713.2	2727.9	2742.0	2745.8	2741.3	2726.6	2721.0	2696.0	2664.8
27°	2722.9	2727.6	2741.5	2755.0	2768.1	2774.5	2769.4	2753.1	2748.6	2722.2	2689.7
28°	2750.6	2757.2	2770.1	2782.0	2795.9	2804.1	2798.5	2782.2	2776.3	2748.5	2716.4
29°	2778.9	2787.7	2799.9	2808.9	2823.8	2833.4	2828.0	2813.6	2804.6	2775.1	2743.0
30°	2807.5	2818.8	2829.5	2836.6	2852.4	2862.2	2858.4	2845.3	2833.7	2801.4	2770.0
31°	2836.0	2851.3	2859.0	2865.4	2881.6	2890.3	2888.6	2877.1	2862.2	2828.8	2797.4
32°	2864.9	2884.6	2889.0	2894.0	2910.3	2918.8	2916.8	2906.0	2889.4	2855.6	2826.5
33°	2893.5	2919.0	2918.7	2922.4	2938.9	2945.7	2945.1	2935.1	2915.4	2883.3	2855.4
34°	2923.6	2952.7	2947.6	2951.7	2967.2	2971.9	2971.6	2964.3	2941.6	2910.1	2884.1
35°	2952.9	2988.1	2976.7	2981.2	2995.3	2997.8	2998.1	2994.0	2965.7	2937.1	2912.5
36°	2983.1	3024.0	3006.3	3010.5	3023.0	3024.4	3022.6	3023.7	2988.3	2963.0	2940.2
37°	3012.6	3059.2	3034.9	3040.6	3050.6	3051.7	3047.2	3056.4	3013.2	2989.7	2968.5
38°	3040.9	3095.1	3062.3	3070.0	3080.0	3079.3	3073.3	3091.2	3039.3	3016.1	2997.6
39°	3069.2	3132.5	3090.9	3099.0	3111.9	3108.1	3099.5	3127.4	3066.0	3045.2	3026.1
40°	3100.0	3171.1	3121.8	3130.1	3144.2	3137.4	3128.5	3165.0	3094.9	3075.3	3054.8
41°	3132.7	3208.4	3156.1	3161.9	3177.2	3168.7	3157.9	3204.9	3127.5	3107.0	3085.9
42°	3166.0	3245.4	3191.1	3195.4	3212.3	3201.0	3191.6	3244.8	3162.8	3138.9	3119.9
43°	3199.6	3281.9	3227.3	3230.8	3248.4	3234.2	3229.9	3283.2	3201.5	3173.0	3154.8
44°	3236.6	3317.0	3264.8	3267.1	3285.3	3269.2	3268.9	3317.5	3240.5	3208.0	3191.6



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3274.9	3351.8	3303.9	3304.7	3323.6	3306.7	3309.1	3349.0	3279.5	3246.8	3230.1
46°	3317.0	3387.3	3345.7	3344.4	3360.8	3346.4	3347.1	3380.7	3318.5	3287.7	3270.3
47°	3360.7	3422.1	3390.8	3385.7	3400.5	3388.2	3388.2	3411.4	3359.0	3330.3	3311.3
48°	3408.1	3453.2	3436.1	3427.2	3440.0	3431.5	3430.6	3439.2	3400.6	3372.4	3353.6
49°	3455.6	3485.1	3483.1	3469.3	3482.0	3475.1	3473.7	3464.5	3443.5	3414.3	3397.2
50°	3502.7	3517.9	3530.4	3514.4	3525.5	3519.5	3517.4	3489.5	3486.6	3456.4	3442.8
51°	3550.0	3552.3	3577.5	3559.2	3570.0	3561.6	3559.0	3514.5	3529.7	3500.1	3490.7
52°	3597.9	3585.5	3625.3	3607.7	3617.5	3604.9	3600.3	3540.1	3568.7	3544.6	3539.5
53°	3646.3	3617.3	3673.1	3655.8	3665.6	3648.6	3638.3	3564.7	3606.6	3588.9	3590.6
54°	3692.6	3648.3	3717.7	3705.9	3715.5	3693.3	3673.6	3589.7	3643.5	3634.1	3644.1
55°	3735.1	3679.5	3758.5	3756.2	3767.0	3736.2	3705.5	3613.0	3677.2	3676.1	3699.0
56°	3770.3	3708.5	3793.6	3806.2	3819.9	3779.2	3734.4	3635.2	3707.4	3720.3	3755.9
57°	3799.9	3737.0	3825.9	3857.7	3876.2	3820.7	3761.8	3656.1	3732.9	3764.8	3813.6
58°	3826.6	3764.0	3854.0	3902.9	3931.7	3861.4	3785.5	3675.6	3755.9	3805.5	3871.0
59°	3851.4	3789.6	3879.5	3943.6	3988.0	3901.4	3806.2	3689.4	3775.9	3846.6	3928.8
60°	3874.0	3812.2	3900.6	3985.4	4046.9	3938.8	3822.1	3699.3	3791.8	3890.6	3988.8
61°	3891.8	3832.5	3916.9	4030.2	4102.8	3975.4	3834.4	3710.0	3803.3	3932.9	4050.2
62°	3904.7	3853.3	3931.0	4073.6	4158.0	4013.9	3841.8	3717.4	3813.3	3973.2	4112.1
63°	3919.5	3872.5	3945.8	4112.1	4209.8	4052.8	3847.3	3718.5	3820.7	4013.9	4173.9
64°	3933.2	3891.8	3962.8	4145.0	4260.9	4088.4	3849.2	3714.8	3824.0	4052.1	4233.9
65°	3945.8	3895.5	3974.0	4175.4	4307.2	4122.4	3845.1	3700.6	3819.9	4086.5	4289.0
66°	3950.6	3869.5	3970.3	4207.6	4348.7	4152.8	3831.8	3668.4	3807.7	4116.9	4340.9
67°	3938.8	3838.1	3952.8	4232.0	4383.8	4170.9	3800.3	3614.0	3774.8	4142.4	4390.5
68°	3916.9	3785.9	3928.0	4249.4	4407.5	4172.8	3754.8	3511.7	3720.7	4157.2	4436.0
69°	3868.8	3663.8	3872.5	4247.2	4420.9	4158.7	3678.9	3325.9	3628.4	4151.3	4469.4
70°	3772.5	3454.7	3761.8	4226.1	4421.2	4128.0	3551.4	3059.3	3471.4	4123.2	4490.8
71°	3605.4	3142.2	3575.0	4180.2	4403.4	4073.2	3352.5	2769.9	3248.5	4073.2	4495.3
72°	3336.9	2757.7	3285.5	4099.5	4357.5	3998.4	3095.7	2537.9	2988.7	3998.4	4476.8
73°	2973.4	2354.0	2928.3	3984.0	4263.9	3886.2	2836.9	2343.4	2745.9	3874.0	4422.0
74°	2562.5	1948.9	2525.5	3800.7	4115.8	3738.1	2597.5	2096.0	2506.3	3716.3	4317.6
75°	2127.2	1441.1	2068.8	3518.7	3930.6	3552.3	2322.4	1646.0	2218.8	3522.7	4157.2
76°	1634.0	911.5	1563.0	3162.5	3675.9	3312.7	1912.8	1041.8	1778.3	3279.3	3919.5
77°	1162.8	382.6	1115.0	2734.9	3300.8	2986.0	1349.1	471.2	1198.9	2964.2	3551.5
78°	691.6	158.6	667.0	2200.0	2779.7	2540.1	785.4	343.8	595.0	2536.9	2999.3
79°	228.3	101.5	220.0	1530.3	2150.3	1952.3	224.3	220.2	421.1	1936.9	2309.7
80°	119.3	86.6	119.1	980.4	1528.0	1377.1	120.6	96.7	261.9	1186.5	1564.8
81°	99.9	71.7	99.2	430.6	905.8	801.9	102.1	83.6	102.7	528.2	809.7
82°	80.4	61.0	79.3	176.6	296.9	236.1	89.2	73.2	85.0	377.3	279.0
83°	61.0	51.2	59.7	137.7	149.9	129.8	76.3	62.8	72.8	237.5	204.7
84°	49.4	42.4	48.2	98.8	121.7	105.9	63.4	52.2	60.4	97.6	131.2
85°	38.0	32.4	36.5	60.3	99.0	82.0	51.5	41.2	48.4	72.9	109.8
86°	27.4	21.9	25.9	43.2	76.2	58.1	40.3	30.8	37.4	56.1	86.7
87°	19.4	15.2	18.3	28.9	53.6	43.0	30.0	20.5	26.8	41.5	59.4
88°	11.4	8.5	10.8	20.1	36.6	29.4	20.7	10.2	16.3	33.5	30.1
89°	3.5	1.9	3.3	11.3	19.6	20.4	11.4	3.2	5.7	25.5	22.9



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2294.8	2294.8	2294.8
1°	2294.5	2293.8	2294.5
2°	2295.4	2294.3	2294.3
3°	2297.0	2295.8	2295.7
4°	2299.8	2298.1	2297.2
5°	2303.6	2300.8	2299.4
6°	2307.9	2304.5	2303.2
7°	2313.3	2309.3	2307.5
8°	2319.3	2314.7	2312.7
9°	2326.6	2321.5	2319.3
10°	2335.0	2329.9	2327.2
11°	2345.6	2339.2	2337.1
12°	2357.3	2350.6	2347.9
13°	2369.6	2362.4	2360.0
14°	2383.3	2375.9	2373.6
15°	2399.0	2391.4	2389.1
16°	2416.7	2408.1	2405.1
17°	2435.3	2425.5	2422.1
18°	2454.6	2443.3	2439.3
19°	2475.3	2462.3	2457.2
20°	2496.7	2481.8	2476.0
21°	2518.8	2502.2	2495.0
22°	2541.4	2523.3	2514.3
23°	2564.5	2546.1	2534.8
24°	2587.9	2569.7	2556.0
25°	2612.0	2594.6	2578.9
26°	2636.6	2620.1	2602.0
27°	2661.8	2646.0	2627.2
28°	2687.7	2672.2	2653.5
29°	2713.7	2698.9	2680.7
30°	2740.2	2726.2	2710.2
31°	2767.3	2754.1	2740.7
32°	2795.0	2780.6	2771.6
33°	2823.3	2808.8	2804.7
34°	2851.6	2837.6	2839.5
35°	2880.9	2866.3	2874.5
36°	2910.5	2893.8	2909.6
37°	2938.3	2920.5	2946.0
38°	2967.5	2946.5	2983.0
39°	2996.4	2972.7	3020.1
40°	3025.2	3000.8	3058.4
41°	3054.9	3032.8	3098.2
42°	3086.8	3067.2	3136.7
43°	3120.4	3103.7	3172.3
44°	3157.4	3142.2	3205.7



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3195.9	3182.1	3238.6
46°	3238.1	3223.0	3269.5
47°	3281.2	3267.7	3298.6
48°	3324.3	3313.2	3327.5
49°	3370.1	3361.4	3358.0
50°	3415.8	3411.8	3390.1
51°	3465.1	3463.3	3424.1
52°	3515.6	3517.2	3457.9
53°	3566.6	3569.2	3496.4
54°	3621.4	3623.0	3537.4
55°	3676.2	3675.0	3579.0
56°	3732.2	3726.3	3620.5
57°	3788.8	3775.5	3661.4
58°	3847.0	3819.6	3699.5
59°	3906.2	3859.2	3739.6
60°	3967.3	3897.3	3777.3
61°	4026.9	3935.8	3809.6
62°	4086.5	3973.2	3837.0
63°	4146.9	4003.2	3865.1
64°	4205.7	4026.2	3900.3
65°	4265.0	4054.3	3938.8
66°	4322.0	4092.8	3962.1
67°	4372.3	4118.4	3966.2
68°	4407.9	4121.3	3963.6
69°	4443.4	4100.6	3920.3
70°	4464.2	4050.6	3767.0
71°	4452.3	3927.3	3462.0
72°	4392.3	3682.5	3063.4
73°	4307.9	3337.5	2678.0
74°	4177.6	2952.2	2305.9
75°	3934.7	2521.3	1755.0
76°	3602.0	1975.1	1022.8
77°	3201.2	1273.2	402.4
78°	2687.8	598.9	293.6
79°	1964.8	424.6	195.0
80°	1088.5	266.0	96.5
81°	483.7	107.4	85.6
82°	348.4	88.4	75.7
83°	223.4	75.6	66.0
84°	98.3	63.3	56.1
85°	75.0	50.7	45.8
86°	58.3	39.1	33.9
87°	42.9	28.5	23.0
88°	34.5	18.0	12.2
89°	26.2	7.5	5.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0



REPORT NUMBER: P1436774

CATALOG NUMBER: XAS300-SFPM (3000K-120W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)