

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: P1436751

Luminaire Tested: XAS180-SFPM (5000K-108W-T5)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436751
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: XAS180-SFPM (5000K-108W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 5
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

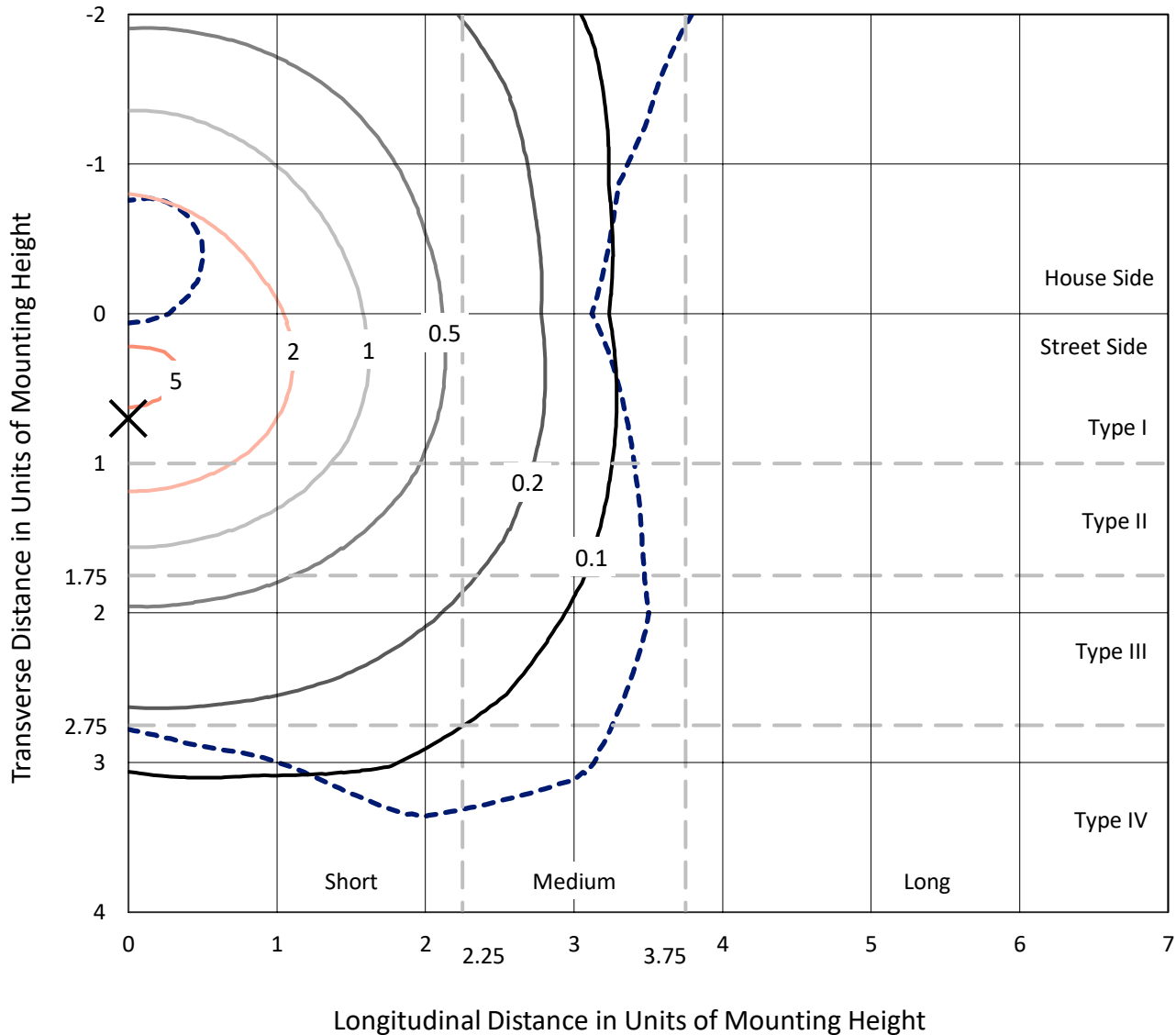
Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 17742.7 lumens
Efficiency: 62.0%
Efficacy: 161.6 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 109.8
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

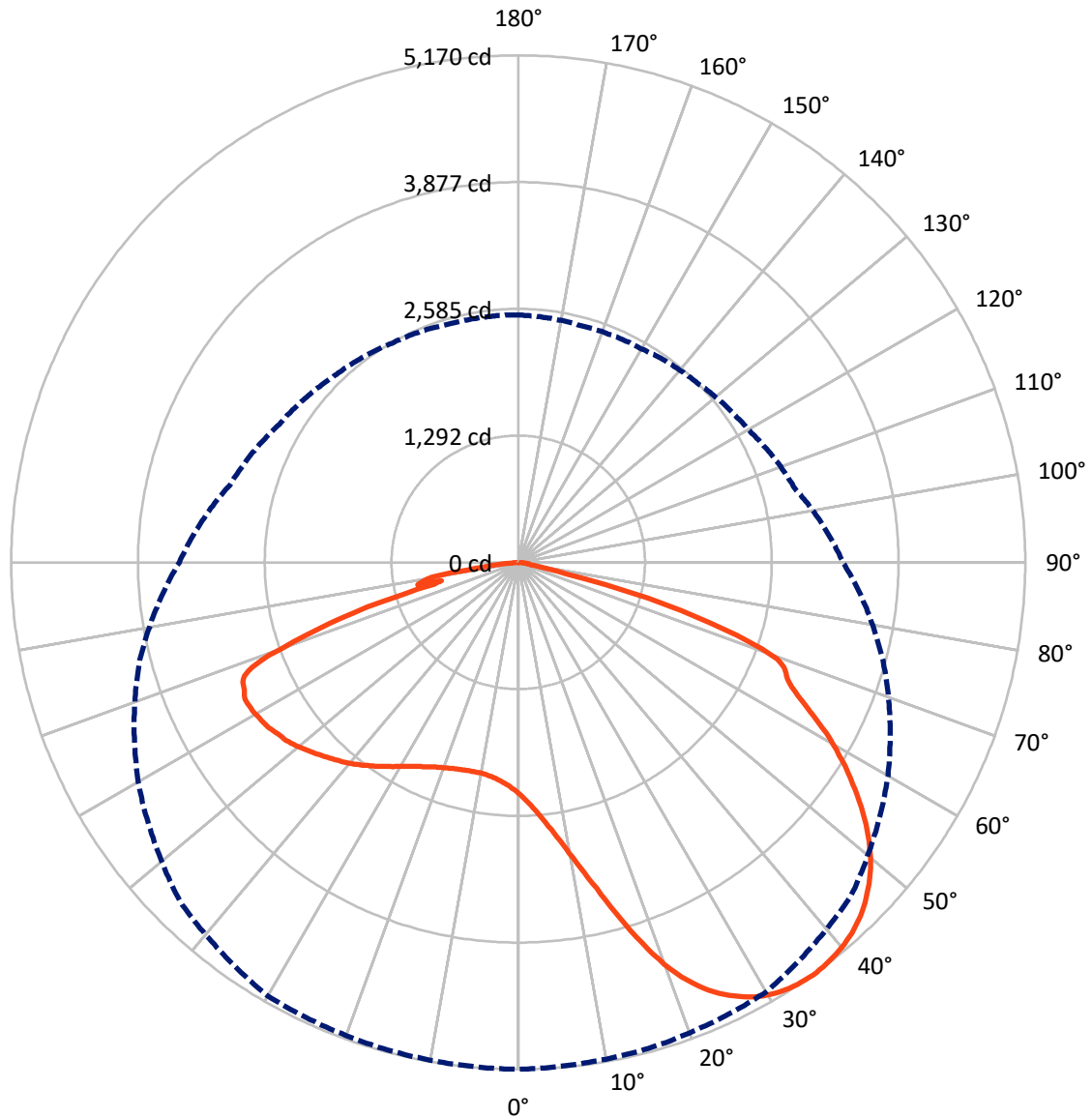
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 35-Deg Vertical

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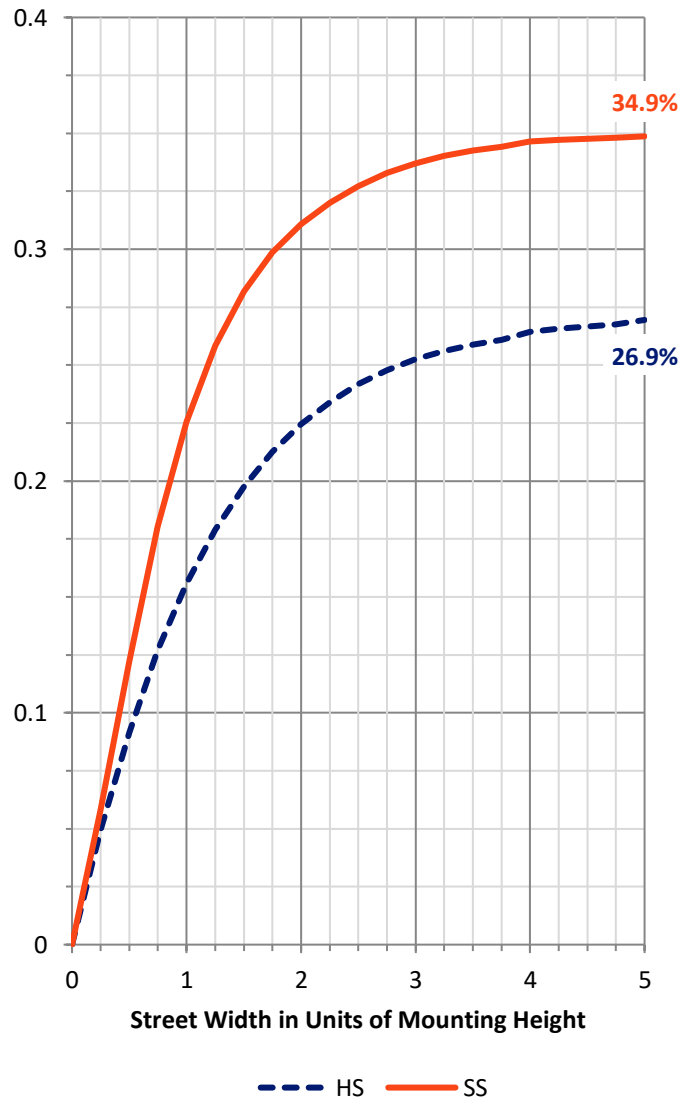
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7767.5	0.0	7767.5
	% Lamp	27.1	0.0	27.1
Street Side	Lumens	9975.2	0.0	9975.2
	% Lamp	34.8	0.0	34.8
Total	Lumens	17742.7	0.0	17742.7
	% Lamp	62.0	0.0	62.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	235.1	1.3	0.8
10°-20°	797.7	4.5	2.8
20°-30°	1531.3	8.6	5.3
30°-40°	2306.7	13.0	8.1
40°-50°	3016.6	17.0	10.5
50°-60°	3547.6	20.0	12.4
60°-70°	3701.4	20.9	12.9
70°-80°	2369.7	13.4	8.3
80°-90°	236.5	1.3	0.8
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°	17742.7	100.0	62.0
0°-180°	17742.7	100.0	62.0

Coefficient of Utilization



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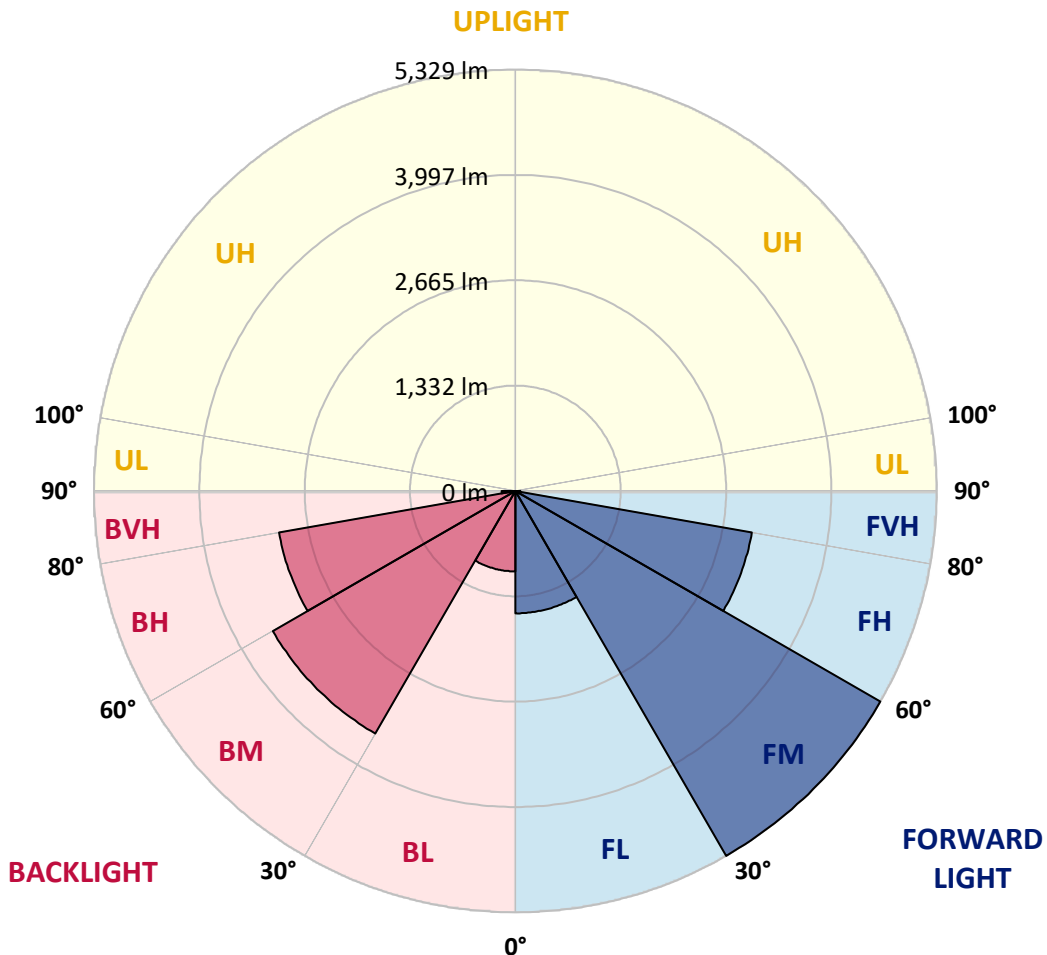
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.3	5.4			
FM (30°-60°)	5329.1	18.6			
FH (60°-80°)	3036.4	10.6			G2/5000
FVH (80°-90°)	62.3	0.2			G1/100
BL (0°-30°)	1016.8	3.6	B3/2500		
BM (30°-60°)	3541.9	12.4	B3/5000		
BH (60°-80°)	3034.7	10.6	B4/5000		G4/5000
BVH (80°-90°)	174.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	10885.3	38.0			

BUG Rating: B4-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7
1°	2409.9	2409.2	2406.0	2400.2	2392.2	2383.7	2365.4	2355.8	2348.1	2341.5	2337.3
2°	2456.4	2454.3	2446.1	2432.1	2413.8	2394.5	2366.1	2347.9	2331.9	2318.7	2310.3
3°	2508.9	2504.7	2490.0	2467.6	2440.0	2409.3	2370.3	2342.6	2318.7	2299.8	2286.4
4°	2567.3	2560.1	2539.1	2507.6	2468.7	2426.2	2375.9	2339.5	2308.3	2284.2	2267.0
5°	2633.0	2623.1	2594.4	2551.3	2500.9	2446.1	2383.6	2337.9	2300.2	2271.0	2250.4
6°	2705.4	2691.5	2655.8	2600.5	2535.8	2467.5	2392.7	2338.6	2294.4	2260.7	2236.5
7°	2784.3	2767.1	2722.6	2655.3	2573.9	2491.6	2405.2	2341.7	2290.5	2252.7	2226.1
8°	2870.6	2848.9	2795.3	2712.9	2615.2	2519.2	2419.9	2347.4	2289.3	2246.1	2217.4
9°	2963.8	2940.0	2873.5	2775.4	2661.7	2548.0	2436.3	2354.0	2290.3	2242.3	2210.9
10°	3064.5	3033.7	2957.7	2843.6	2711.8	2579.6	2455.0	2363.5	2293.1	2241.5	2206.4
11°	3174.0	3139.3	3048.5	2917.0	2764.1	2613.7	2475.1	2374.9	2297.5	2242.5	2204.6
12°	3292.0	3249.2	3144.7	2992.8	2818.1	2651.1	2497.1	2387.1	2303.8	2244.8	2205.9
13°	3417.2	3369.6	3249.3	3074.3	2876.4	2690.6	2520.3	2400.7	2311.2	2249.2	2208.6
14°	3555.6	3499.9	3361.0	3161.3	2938.3	2730.1	2543.7	2414.3	2319.3	2254.9	2211.9
15°	3702.9	3639.7	3478.8	3252.8	3002.0	2771.3	2568.9	2428.9	2328.9	2261.6	2216.8
16°	3854.9	3781.9	3601.8	3351.0	3070.5	2815.1	2596.0	2445.6	2339.1	2269.3	2223.1
17°	4006.4	3925.9	3724.3	3451.8	3142.0	2860.6	2624.1	2462.4	2350.9	2277.3	2230.3
18°	4155.7	4066.7	3847.4	3553.3	3216.7	2907.1	2653.5	2481.5	2363.6	2287.4	2237.2
19°	4296.1	4201.8	3968.6	3651.7	3293.9	2955.6	2684.1	2501.3	2376.5	2297.9	2245.7
20°	4425.3	4329.4	4083.6	3749.9	3372.5	3006.3	2716.4	2522.4	2390.5	2309.0	2255.4
21°	4541.8	4447.7	4195.2	3845.2	3450.1	3058.9	2749.1	2544.4	2405.1	2319.8	2266.0
22°	4642.2	4548.9	4299.7	3938.0	3528.4	3112.9	2783.4	2567.3	2421.9	2332.3	2277.7
23°	4733.2	4646.3	4396.8	4026.8	3605.8	3169.4	2819.0	2590.7	2440.2	2345.8	2290.8
24°	4813.2	4730.4	4486.9	4110.3	3681.7	3227.4	2855.2	2615.5	2458.9	2361.0	2304.8
25°	4881.9	4805.4	4570.4	4192.1	3756.0	3286.2	2893.4	2641.0	2478.2	2377.5	2319.0
26°	4941.2	4871.8	4648.5	4268.5	3827.5	3344.5	2932.3	2667.5	2498.3	2394.3	2334.8
27°	4994.5	4928.3	4717.6	4341.9	3897.1	3404.0	2971.3	2694.2	2518.7	2412.1	2351.1
28°	5039.4	4976.4	4780.0	4412.3	3962.9	3462.9	3011.7	2720.3	2540.3	2431.6	2368.4
29°	5076.7	5018.4	4837.0	4479.1	4025.3	3521.6	3053.0	2747.6	2561.3	2452.6	2386.6
30°	5106.1	5052.0	4888.0	4543.6	4087.1	3578.4	3095.7	2775.4	2584.2	2473.4	2405.4
31°	5130.2	5078.9	4932.6	4603.0	4144.5	3634.9	3138.3	2802.6	2607.8	2494.6	2425.0
32°	5147.7	5100.9	4972.0	4658.4	4199.4	3690.4	3181.5	2831.2	2631.3	2516.7	2446.1
33°	5161.0	5116.9	5006.5	4711.1	4252.4	3744.3	3224.4	2860.8	2656.0	2538.5	2468.0
34°	5167.0	5126.4	5033.9	4758.2	4302.9	3796.9	3267.8	2889.0	2681.0	2561.2	2490.4
35°	5169.8	5130.9	5057.1	4801.8	4352.7	3847.7	3310.9	2917.7	2706.5	2584.7	2514.2
36°	5168.2	5132.2	5075.5	4842.0	4398.4	3897.0	3354.0	2946.5	2732.5	2608.5	2539.0
37°	5161.1	5128.1	5088.5	4878.5	4443.0	3944.5	3396.0	2976.2	2758.9	2633.4	2564.5
38°	5150.5	5120.8	5097.2	4911.3	4485.7	3991.1	3439.5	3006.6	2785.2	2659.5	2590.4
39°	5137.3	5111.8	5100.3	4939.0	4526.9	4036.8	3482.9	3037.0	2812.2	2685.5	2616.0
40°	5119.9	5098.8	5100.1	4964.2	4565.7	4081.0	3527.1	3069.2	2839.9	2712.3	2642.0
41°	5096.0	5081.1	5094.6	4985.4	4601.7	4123.5	3569.0	3103.1	2868.4	2739.3	2668.5
42°	5069.8	5059.2	5085.3	5003.7	4637.5	4165.4	3609.7	3137.1	2897.2	2767.6	2695.5
43°	5037.6	5035.1	5072.6	5017.2	4669.9	4206.9	3649.8	3170.1	2926.0	2797.2	2722.8
44°	5000.0	5007.4	5055.3	5025.0	4700.6	4246.5	3686.4	3204.7	2955.6	2826.5	2751.2



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CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4956.5	4973.0	5031.7	5030.8	4730.6	4286.1	3724.1	3241.1	2987.2	2856.5	2779.8
46°	4905.3	4936.5	5007.5	5031.8	4759.0	4325.4	3760.7	3278.8	3019.8	2887.3	2809.2
47°	4850.2	4891.8	4977.9	5028.4	4786.5	4365.1	3796.2	3316.8	3052.9	2918.3	2839.8
48°	4791.4	4843.1	4943.6	5019.1	4811.0	4401.3	3829.5	3355.3	3087.4	2949.9	2870.7
49°	4724.4	4787.8	4906.2	5008.2	4832.5	4436.4	3861.4	3394.1	3122.9	2983.3	2902.5
50°	4652.0	4725.6	4860.8	4990.3	4851.5	4471.0	3892.2	3432.6	3158.6	3017.1	2935.8
51°	4570.6	4657.6	4811.2	4968.8	4867.9	4502.6	3923.3	3471.6	3196.1	3053.3	2969.2
52°	4484.0	4580.5	4754.4	4940.4	4880.9	4531.6	3952.3	3512.2	3234.5	3090.9	3005.4
53°	4391.9	4498.3	4694.0	4906.6	4890.5	4558.1	3979.7	3550.6	3273.5	3128.2	3039.9
54°	4296.5	4407.6	4626.6	4869.2	4894.1	4581.4	4005.8	3588.1	3314.9	3166.9	3076.9
55°	4195.9	4311.0	4552.0	4825.0	4892.1	4600.3	4028.6	3621.9	3356.5	3207.8	3114.9
56°	4088.8	4212.6	4470.8	4774.9	4885.7	4614.6	4049.3	3654.5	3398.3	3249.7	3153.8
57°	3984.8	4109.5	4388.3	4720.7	4870.8	4623.7	4067.7	3684.4	3440.4	3293.9	3193.9
58°	3874.7	4004.8	4299.7	4660.6	4848.4	4625.3	4080.1	3711.5	3482.7	3339.9	3231.6
59°	3765.9	3898.1	4211.0	4593.7	4818.5	4618.8	4087.4	3735.8	3525.0	3388.3	3268.7
60°	3649.0	3790.7	4117.4	4521.7	4780.5	4604.5	4091.0	3756.5	3567.4	3437.3	3305.5
61°	3527.8	3677.7	4024.0	4447.2	4733.7	4583.3	4087.0	3773.2	3609.9	3487.0	3342.6
62°	3401.0	3562.5	3931.4	4366.8	4680.9	4550.9	4075.4	3784.9	3650.8	3536.3	3378.9
63°	3276.1	3446.6	3839.8	4282.8	4622.1	4506.4	4054.2	3791.6	3691.0	3584.7	3414.1
64°	3158.5	3334.0	3748.9	4197.6	4552.7	4450.2	4022.7	3793.1	3730.5	3633.2	3447.7
65°	3063.5	3231.2	3660.4	4110.3	4477.8	4383.4	3983.4	3786.7	3768.2	3682.2	3479.5
66°	2993.8	3146.6	3575.3	4023.5	4393.2	4303.2	3929.7	3771.1	3801.0	3736.4	3508.3
67°	2954.2	3084.7	3498.3	3938.0	4297.0	4213.0	3860.6	3745.0	3828.6	3787.4	3535.1
68°	2913.1	3042.4	3431.1	3853.4	4190.5	4107.1	3739.6	3699.7	3849.1	3835.5	3534.1
69°	2819.2	3001.3	3376.6	3769.3	4071.7	3967.8	3545.5	3609.9	3856.7	3878.6	3519.6
70°	2633.9	2925.7	3333.4	3684.3	3947.2	3773.0	3276.7	3460.4	3851.8	3913.8	3522.0
71°	2353.0	2776.2	3294.5	3603.7	3798.6	3520.1	2949.2	3244.3	3815.3	3936.1	3501.7
72°	2049.7	2532.5	3248.1	3520.2	3616.9	3220.2	2639.4	2994.1	3726.6	3927.2	3460.3
73°	1736.5	2217.3	3174.4	3430.7	3405.6	2913.8	2379.0	2745.9	3586.6	3879.3	3403.8
74°	1375.3	1877.6	3031.0	3323.2	3168.5	2615.5	2068.5	2510.4	3406.6	3790.5	3292.4
75°	922.4	1511.3	2778.3	3167.2	2899.2	2287.2	1573.1	2234.4	3204.3	3652.1	3125.5
76°	502.0	1072.4	2437.7	2940.0	2618.4	1838.7	1077.6	1729.8	3004.5	3427.6	2899.3
77°	328.3	598.6	2072.2	2615.2	2312.0	1246.2	586.3	1225.1	2778.7	3098.7	2631.6
78°	156.1	440.9	1632.8	2166.8	1923.7	683.1	284.6	723.4	2443.5	2651.2	2302.7
79°	124.3	286.0	1076.8	1641.7	1424.0	506.9	177.3	352.5	1852.1	2162.5	1932.9
80°	107.2	131.1	569.4	1083.0	872.3	341.8	153.4	196.3	1260.7	1726.2	1589.1
81°	92.2	110.7	363.7	567.0	622.7	176.6	129.4	164.3	671.4	1364.8	1441.5
82°	78.7	94.2	162.2	365.1	383.4	149.1	105.5	132.3	322.4	1005.8	1218.9
83°	66.3	78.9	130.2	165.7	144.1	122.7	88.9	100.4	212.1	753.3	996.2
84°	55.0	64.9	105.4	129.8	115.6	95.0	73.1	81.1	170.2	530.2	771.2
85°	43.8	53.2	80.6	107.1	89.1	72.9	58.0	64.6	139.4	342.0	476.9
86°	32.5	41.5	60.4	85.9	65.5	57.4	43.8	50.2	108.6	245.7	336.9
87°	22.2	29.9	43.8	62.6	48.3	42.0	30.5	37.3	79.3	149.4	197.0
88°	12.8	19.5	27.1	50.3	31.2	26.5	21.2	28.4	52.4	55.2	58.6
89°	5.4	8.5	11.3	38.2	14.1	13.3	11.8	19.6	35.6	37.4	39.7



REPORT NUMBER: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7
1°	2335.3	2334.9	2336.9	2343.1	2349.2	2357.9	2367.2	2369.3	2378.5	2388.4	2396.2
2°	2305.6	2304.5	2308.9	2317.7	2329.8	2344.5	2362.9	2374.1	2394.3	2413.8	2430.7
3°	2279.8	2278.2	2283.8	2295.6	2312.8	2334.9	2361.1	2382.0	2411.7	2442.4	2469.7
4°	2258.2	2256.3	2263.1	2277.6	2299.6	2327.6	2361.5	2391.7	2432.2	2474.0	2512.4
5°	2240.0	2237.2	2245.3	2262.8	2288.4	2322.9	2363.9	2403.5	2456.0	2509.5	2558.2
6°	2224.7	2221.5	2230.8	2250.3	2280.7	2320.3	2368.4	2417.9	2481.2	2547.7	2610.7
7°	2211.5	2208.6	2218.2	2240.4	2274.5	2320.1	2376.0	2435.0	2510.0	2590.7	2667.7
8°	2201.9	2198.4	2209.3	2233.5	2270.8	2321.8	2385.2	2453.3	2540.6	2637.3	2729.2
9°	2193.8	2190.3	2202.1	2229.0	2269.4	2325.4	2395.8	2473.5	2574.3	2687.0	2794.8
10°	2188.6	2184.7	2197.7	2226.6	2270.0	2330.2	2407.8	2495.9	2610.0	2739.8	2865.9
11°	2186.2	2181.8	2195.9	2227.0	2273.7	2337.2	2422.5	2520.9	2650.1	2796.5	2943.1
12°	2185.3	2181.2	2196.1	2229.7	2278.9	2346.7	2438.9	2547.1	2691.1	2857.1	3023.2
13°	2187.3	2182.1	2197.7	2233.7	2285.7	2357.2	2456.7	2575.2	2734.4	2921.0	3110.7
14°	2189.4	2185.0	2201.7	2239.5	2294.8	2369.2	2475.0	2604.0	2779.6	2988.1	3202.7
15°	2193.5	2188.5	2206.8	2246.5	2305.3	2383.2	2494.4	2634.0	2826.4	3059.2	3301.8
16°	2198.2	2193.3	2212.2	2253.7	2315.9	2398.2	2515.1	2666.1	2875.6	3134.7	3405.4
17°	2203.7	2198.8	2219.0	2262.6	2328.1	2414.3	2537.2	2699.4	2927.3	3213.1	3511.1
18°	2210.5	2205.4	2227.2	2271.6	2341.0	2430.3	2559.5	2733.3	2979.4	3295.1	3619.0
19°	2217.9	2213.4	2235.5	2282.1	2353.9	2448.3	2583.3	2768.3	3033.7	3378.8	3725.5
20°	2227.7	2222.6	2245.7	2293.9	2367.7	2466.2	2608.1	2804.7	3091.9	3463.0	3827.3
21°	2238.1	2233.7	2256.9	2306.6	2381.6	2485.1	2634.6	2842.6	3149.4	3550.8	3926.5
22°	2249.7	2245.1	2269.7	2320.6	2397.0	2505.2	2661.5	2881.7	3211.7	3635.2	4021.6
23°	2262.6	2258.7	2283.6	2335.4	2413.7	2526.2	2688.4	2922.0	3276.2	3718.9	4112.1
24°	2276.3	2273.9	2298.8	2351.7	2431.0	2547.0	2716.1	2963.4	3339.8	3798.6	4196.3
25°	2291.4	2289.4	2315.2	2368.7	2450.0	2569.2	2745.2	3004.4	3404.6	3876.7	4276.7
26°	2307.9	2306.9	2332.7	2386.1	2469.6	2591.3	2774.0	3047.4	3470.1	3949.2	4354.4
27°	2324.5	2325.7	2351.1	2404.4	2489.8	2613.2	2803.4	3090.9	3535.9	4019.3	4426.3
28°	2342.3	2346.8	2370.1	2424.1	2510.9	2637.0	2833.0	3136.5	3600.9	4086.8	4496.1
29°	2361.5	2368.8	2390.3	2444.1	2532.8	2660.6	2863.2	3180.7	3663.7	4150.5	4562.7
30°	2382.1	2392.6	2412.1	2464.5	2553.8	2685.2	2893.1	3225.9	3726.4	4210.9	4624.8
31°	2403.8	2416.8	2434.9	2485.6	2576.7	2709.8	2922.8	3271.2	3786.2	4267.6	4683.2
32°	2426.4	2442.8	2457.8	2508.7	2600.3	2735.5	2953.3	3317.1	3843.5	4321.7	4738.1
33°	2450.0	2469.0	2481.2	2531.4	2623.9	2761.0	2983.5	3363.4	3899.7	4375.3	4790.6
34°	2473.3	2495.5	2504.7	2555.2	2648.7	2787.1	3013.9	3409.4	3951.6	4425.3	4839.3
35°	2496.8	2522.6	2528.2	2579.9	2673.3	2814.1	3044.5	3456.0	4003.5	4475.0	4882.8
36°	2521.1	2550.3	2551.7	2605.2	2698.3	2841.1	3077.1	3503.4	4053.7	4519.9	4923.2
37°	2543.5	2577.3	2575.9	2630.4	2724.0	2869.2	3109.7	3548.9	4101.3	4564.1	4959.5
38°	2568.2	2605.7	2601.2	2657.5	2750.3	2896.5	3143.4	3595.4	4148.7	4605.9	4993.4
39°	2593.0	2633.2	2626.5	2684.1	2777.1	2926.0	3177.3	3639.9	4192.6	4645.6	5022.0
40°	2618.4	2659.8	2652.9	2711.4	2805.0	2954.4	3211.7	3683.4	4235.0	4683.4	5047.0
41°	2645.0	2685.2	2679.4	2739.2	2833.6	2983.8	3246.4	3726.6	4275.6	4718.9	5065.7
42°	2671.3	2710.8	2706.8	2766.4	2863.6	3014.8	3281.8	3767.5	4316.9	4754.2	5080.4
43°	2697.9	2735.4	2735.2	2796.5	2892.9	3046.6	3319.4	3807.6	4357.2	4785.6	5092.8
44°	2726.1	2761.3	2764.3	2826.0	2923.5	3080.3	3357.2	3847.2	4396.8	4814.3	5099.1

REPORT NUMBER: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2755.1	2787.0	2793.6	2856.7	2955.4	3112.5	3395.5	3886.0	4434.4	4842.1	5102.2
46°	2784.6	2811.0	2823.6	2886.8	2987.1	3147.1	3433.4	3921.7	4470.6	4866.9	5099.6
47°	2815.6	2834.7	2855.3	2917.5	3020.3	3180.7	3472.0	3954.4	4505.5	4890.0	5092.9
48°	2847.2	2859.9	2887.8	2949.2	3053.7	3216.1	3510.5	3987.1	4537.5	4909.1	5082.5
49°	2880.0	2886.0	2920.2	2980.4	3087.6	3252.1	3547.6	4017.8	4567.8	4926.0	5067.1
50°	2913.4	2911.1	2954.2	3013.0	3123.1	3289.9	3584.9	4047.0	4594.0	4941.2	5048.1
51°	2949.1	2937.4	2988.4	3046.3	3157.9	3326.8	3621.4	4073.3	4618.6	4951.2	5023.3
52°	2983.8	2962.8	3022.6	3081.1	3196.1	3363.9	3657.1	4097.5	4638.5	4957.6	4992.1
53°	3015.9	2982.9	3053.7	3115.8	3234.0	3402.0	3689.5	4119.4	4653.6	4958.7	4956.4
54°	3043.6	2997.2	3082.7	3152.2	3274.2	3439.5	3720.4	4136.1	4665.4	4957.5	4916.4
55°	3068.7	3012.3	3107.9	3189.2	3314.2	3477.5	3748.7	4150.1	4671.4	4948.4	4872.7
56°	3094.8	3030.9	3132.5	3227.4	3357.4	3516.2	3772.9	4160.9	4670.9	4934.1	4822.0
57°	3119.5	3050.5	3157.7	3264.9	3399.6	3555.2	3795.6	4166.6	4662.9	4911.5	4765.8
58°	3143.8	3064.7	3181.7	3305.5	3444.1	3592.6	3813.8	4169.1	4648.0	4882.7	4703.1
59°	3163.6	3075.2	3201.3	3343.2	3490.7	3628.3	3828.3	4167.1	4625.8	4846.4	4635.4
60°	3180.6	3087.8	3218.4	3381.4	3538.3	3663.6	3840.8	4159.0	4596.6	4802.5	4561.5
61°	3198.0	3099.8	3236.0	3417.3	3586.9	3699.3	3848.8	4141.6	4560.7	4750.0	4483.0
62°	3215.1	3107.6	3252.9	3455.0	3633.1	3735.6	3851.4	4115.8	4515.4	4689.4	4400.5
63°	3228.4	3113.7	3267.9	3490.9	3677.6	3768.8	3849.3	4082.6	4458.6	4620.3	4314.8
64°	3239.8	3116.3	3281.1	3524.9	3722.3	3799.7	3842.6	4039.9	4393.5	4545.9	4228.2
65°	3240.8	3092.7	3282.1	3556.6	3767.2	3827.2	3825.8	3984.2	4316.0	4461.2	4137.5
66°	3210.2	3072.5	3248.8	3582.8	3811.4	3848.6	3801.0	3914.3	4226.8	4366.8	4045.6
67°	3192.8	3062.2	3230.8	3603.1	3850.8	3865.8	3761.1	3811.8	4126.4	4264.0	3956.1
68°	3185.6	3023.9	3218.2	3595.0	3888.0	3874.9	3686.7	3637.7	3996.7	4152.4	3865.1
69°	3139.9	2914.9	3168.3	3574.8	3918.9	3868.4	3552.4	3382.2	3811.1	4025.5	3774.8
70°	3049.8	2717.0	3079.3	3572.4	3942.5	3840.9	3341.4	3052.9	3563.9	3879.7	3684.1
71°	2906.6	2425.0	2936.9	3547.1	3946.6	3771.7	3075.9	2713.9	3255.2	3703.3	3587.1
72°	2677.1	2153.2	2709.2	3505.1	3919.0	3648.0	2796.4	2415.0	2926.9	3489.2	3485.9
73°	2393.7	1895.2	2417.0	3440.0	3846.7	3469.5	2531.0	2120.6	2609.9	3241.3	3369.8
74°	2115.7	1607.2	2148.7	3323.3	3728.9	3268.2	2259.2	1747.4	2287.7	2959.6	3233.7
75°	1823.4	1223.9	1863.6	3143.7	3551.2	3046.0	1893.1	1214.9	1899.4	2650.0	3041.2
76°	1471.8	884.1	1509.5	2906.7	3277.1	2809.1	1361.4	687.9	1368.9	2326.1	2776.6
77°	1132.7	805.3	1196.4	2634.2	2905.2	2523.2	833.4	504.0	800.7	1970.1	2411.7
78°	1065.7	1050.3	1161.7	2296.8	2449.0	2075.6	411.3	329.9	592.4	1529.4	1928.3
79°	1313.3	999.0	1398.6	1906.3	2000.7	1443.1	218.9	155.9	393.4	1012.9	1392.6
80°	1534.8	947.7	1195.3	1521.5	1624.0	815.2	181.9	132.9	194.4	572.1	856.9
81°	1197.9	891.6	992.1	1380.8	1247.2	391.5	144.9	113.8	161.3	371.7	618.9
82°	860.9	511.8	785.6	1141.5	870.5	231.6	108.0	96.4	137.2	172.6	387.4
83°	490.6	363.9	445.0	902.2	602.3	179.0	89.8	80.4	112.1	131.4	156.0
84°	276.7	215.9	268.8	662.0	365.0	146.9	73.2	65.1	87.4	105.1	123.5
85°	183.6	69.9	216.0	371.2	266.2	114.8	58.3	51.7	66.8	79.6	101.8
86°	91.1	47.4	163.1	297.2	167.4	82.9	44.7	38.3	51.8	57.8	81.3
87°	63.3	24.8	110.3	223.2	69.8	58.5	32.8	25.0	37.0	41.5	57.0
88°	35.4	2.3	57.5	149.2	47.4	39.8	22.6	14.1	22.1	25.2	33.3
89°	7.8	1.5	5.2	75.1	24.9	21.1	12.4	5.3	9.6	10.1	9.7



REPORT NUMBER: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2369.7	2369.7	2369.7
1°	2403.1	2407.8	2409.9
2°	2445.1	2454.6	2456.4
3°	2490.9	2504.7	2508.9
4°	2542.1	2562.5	2567.3
5°	2599.5	2626.0	2633.0
6°	2663.0	2695.9	2705.4
7°	2730.9	2773.1	2784.3
8°	2804.4	2855.7	2870.6
9°	2885.7	2944.3	2963.8
10°	2971.8	3042.3	3064.5
11°	3065.7	3150.4	3174.0
12°	3167.5	3263.0	3292.0
13°	3276.7	3385.6	3417.2
14°	3392.4	3517.7	3555.6
15°	3513.2	3654.5	3702.9
16°	3637.2	3797.3	3854.9
17°	3765.5	3942.9	4006.4
18°	3891.4	4087.4	4155.7
19°	4013.8	4224.2	4296.1
20°	4132.1	4354.3	4425.3
21°	4242.6	4472.1	4541.8
22°	4346.3	4577.4	4642.2
23°	4445.2	4671.1	4733.2
24°	4536.8	4755.2	4813.2
25°	4623.0	4827.8	4881.9
26°	4700.3	4892.4	4941.2
27°	4772.2	4947.1	4994.5
28°	4835.8	4994.8	5039.4
29°	4893.4	5034.9	5076.7
30°	4942.5	5069.3	5106.1
31°	4987.4	5095.4	5130.2
32°	5025.4	5117.6	5147.7
33°	5057.9	5133.0	5161.0
34°	5084.3	5143.1	5167.0
35°	5106.6	5147.2	5169.8
36°	5123.6	5146.9	5168.2
37°	5134.4	5143.5	5161.1
38°	5141.5	5135.6	5150.5
39°	5143.7	5125.1	5137.3
40°	5142.2	5110.8	5119.9
41°	5135.7	5093.5	5096.0
42°	5125.4	5072.8	5069.8
43°	5111.0	5049.7	5037.6
44°	5091.8	5021.1	5000.0

REPORT NUMBER: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5070.2	4989.1	4956.5
46°	5043.7	4951.4	4905.3
47°	5013.9	4908.3	4850.2
48°	4980.0	4860.8	4791.4
49°	4941.7	4805.8	4724.4
50°	4898.2	4747.0	4652.0
51°	4848.2	4681.1	4570.6
52°	4792.1	4605.7	4484.0
53°	4729.3	4525.2	4391.9
54°	4663.6	4439.0	4296.5
55°	4592.1	4344.5	4195.9
56°	4513.3	4246.8	4088.8
57°	4429.9	4145.5	3984.8
58°	4341.1	4038.9	3874.7
59°	4251.4	3932.5	3765.9
60°	4160.6	3823.2	3649.0
61°	4066.6	3710.7	3527.8
62°	3975.0	3596.7	3401.0
63°	3884.3	3481.8	3276.1
64°	3796.6	3375.4	3158.5
65°	3712.4	3274.3	3063.5
66°	3632.9	3191.7	2993.8
67°	3557.1	3130.8	2954.2
68°	3488.9	3089.1	2913.1
69°	3429.7	3045.8	2819.2
70°	3384.5	2973.5	2633.9
71°	3338.0	2834.5	2353.0
72°	3278.7	2589.8	2049.7
73°	3187.5	2269.3	1736.5
74°	3021.5	1914.0	1375.3
75°	2759.9	1540.5	922.4
76°	2418.1	1114.6	502.0
77°	2035.8	640.4	328.3
78°	1557.4	472.8	156.1
79°	998.7	305.3	124.3
80°	532.8	137.9	107.2
81°	349.3	114.2	92.2
82°	168.2	96.9	78.7
83°	129.9	81.4	66.3
84°	104.3	67.2	55.0
85°	79.2	55.0	43.8
86°	58.9	42.8	32.5
87°	42.1	30.6	22.2
88°	25.3	19.4	12.8
89°	9.9	8.2	5.4



REPORT NUMBER: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

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: P1436751
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)