

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: P1445016

Luminaire Tested: XAS180-SFPM (5000K-108W-T4)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445016
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (5000K-108W-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 4
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 18100.4 lumens
Efficiency: 63.2%
Efficacy: 168.1 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): 107.7
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

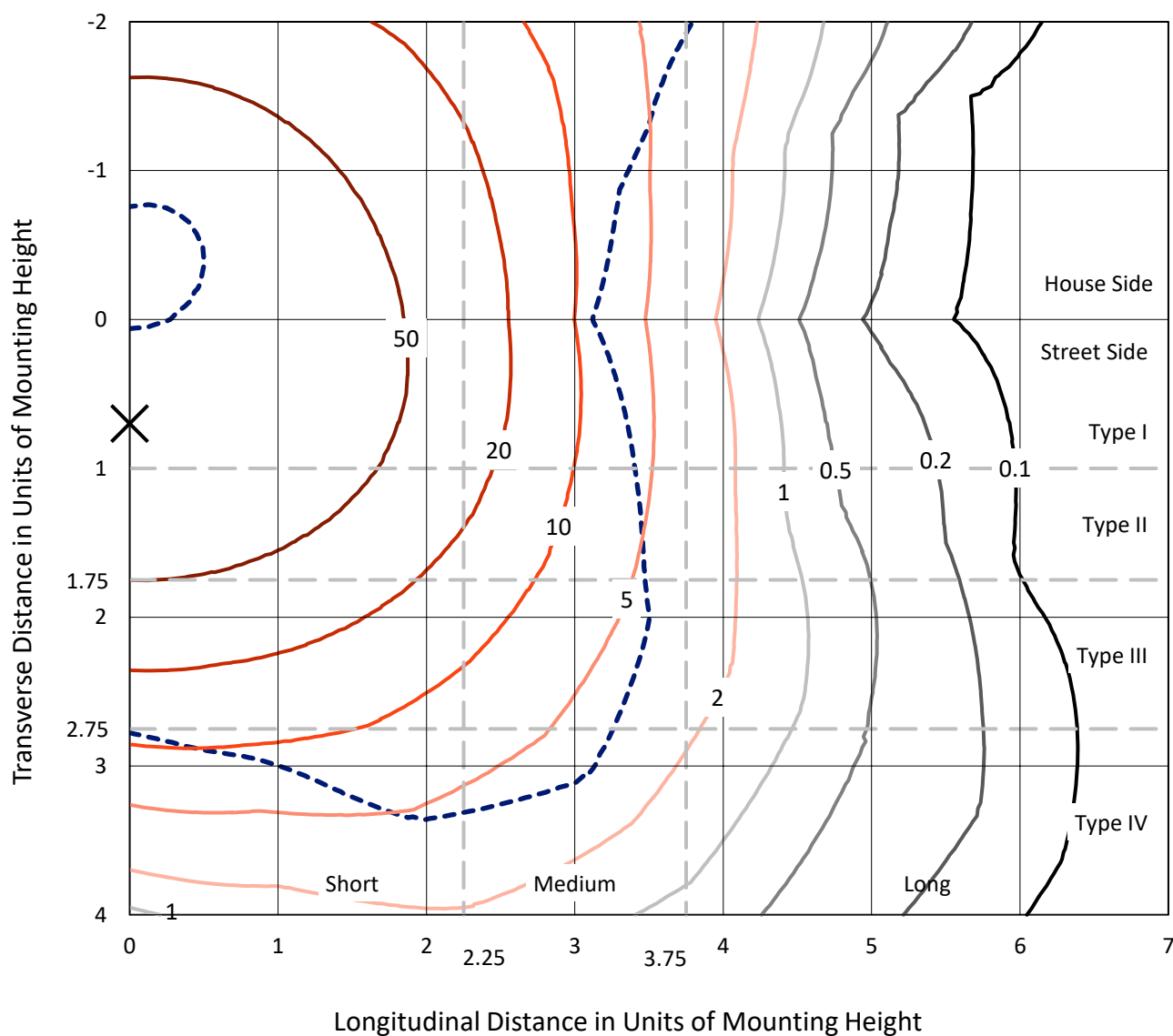
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

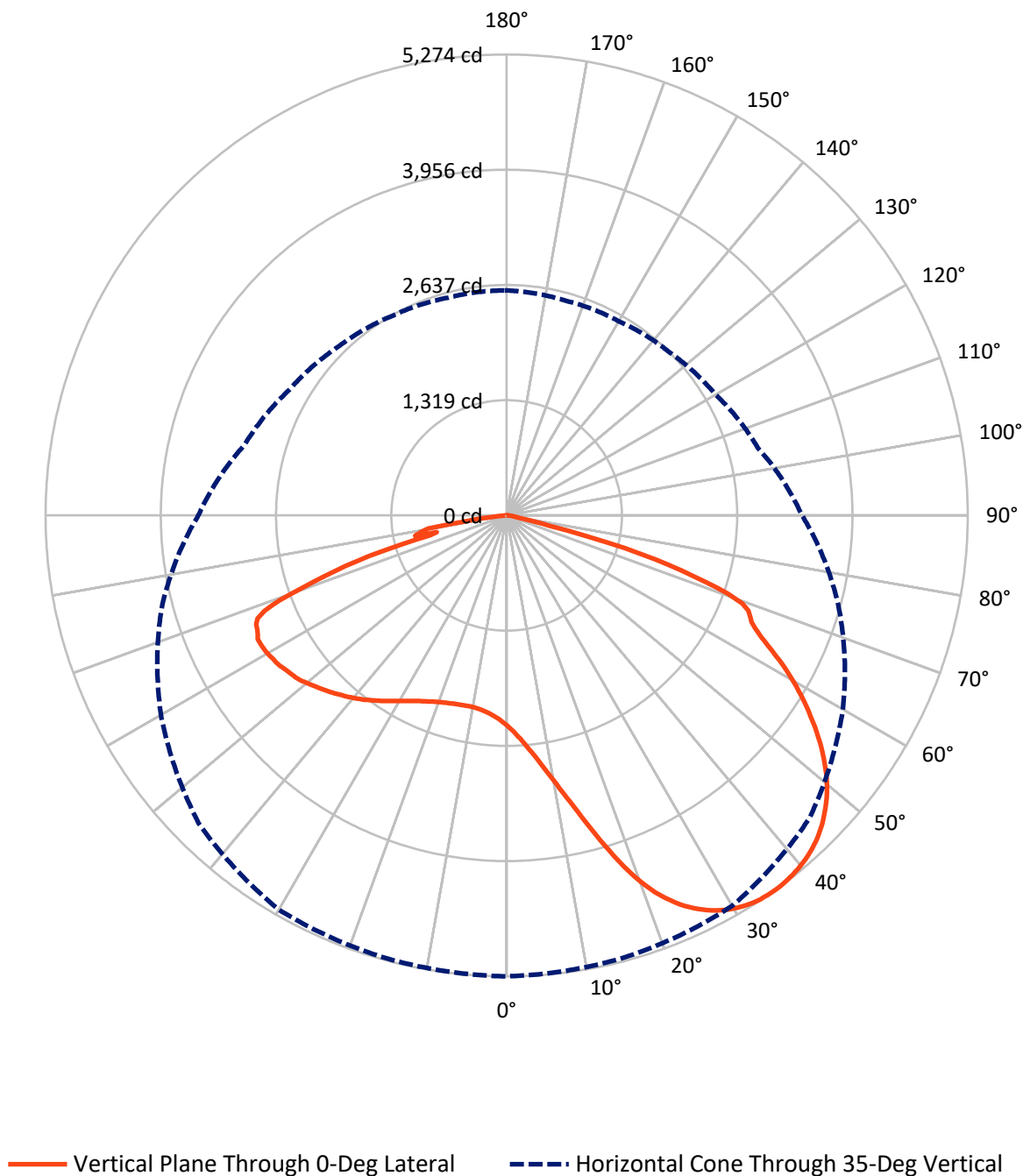


Based on 3 foot mounting height. Maximum calculated value = 417.8 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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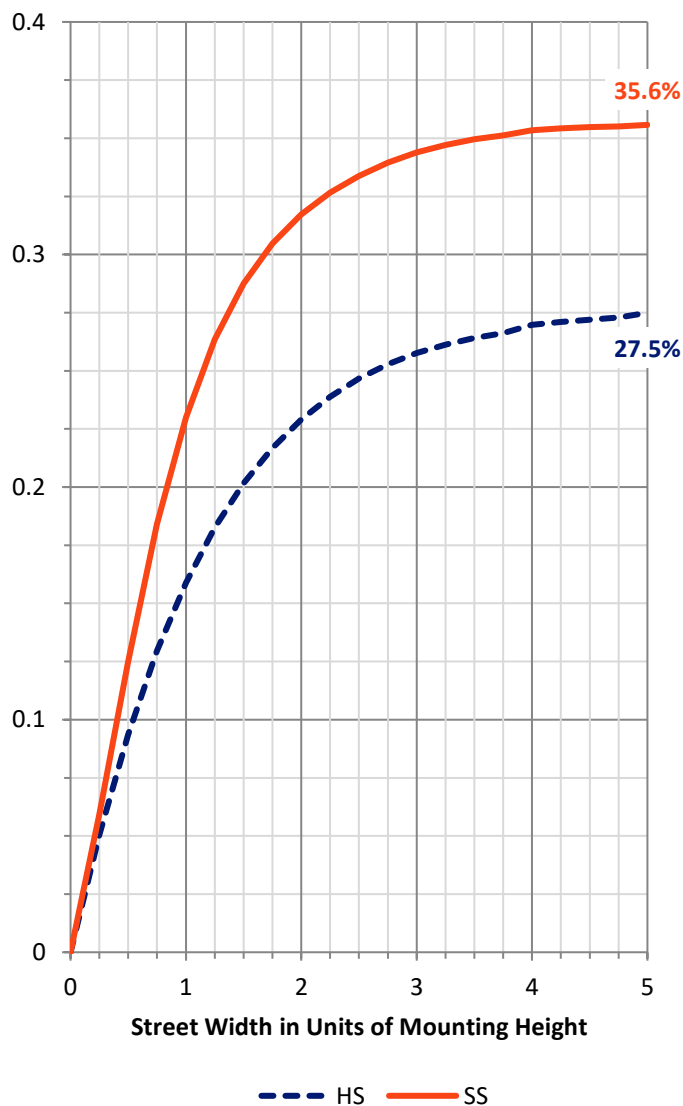
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7924.1	0.0	7924.1
	% Lamp	27.7	0.0	27.7
Street Side	Lumens	10176.3	0.0	10176.3
	% Lamp	35.5	0.0	35.5
Total	Lumens	18100.4	0.0	18100.4
	% Lamp	63.2	0.0	63.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	239.8	1.3	0.8
10°-20°	813.8	4.5	2.8
20°-30°	1562.2	8.6	5.5
30°-40°	2353.2	13.0	8.2
40°-50°	3077.5	17.0	10.7
50°-60°	3619.2	20.0	12.6
60°-70°	3776.0	20.9	13.2
70°-80°	2417.5	13.4	8.4
80°-90°	241.3	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°	18100.4	100.0	63.2
0°-180°	18100.4	100.0	63.2

Coefficient of Utilization



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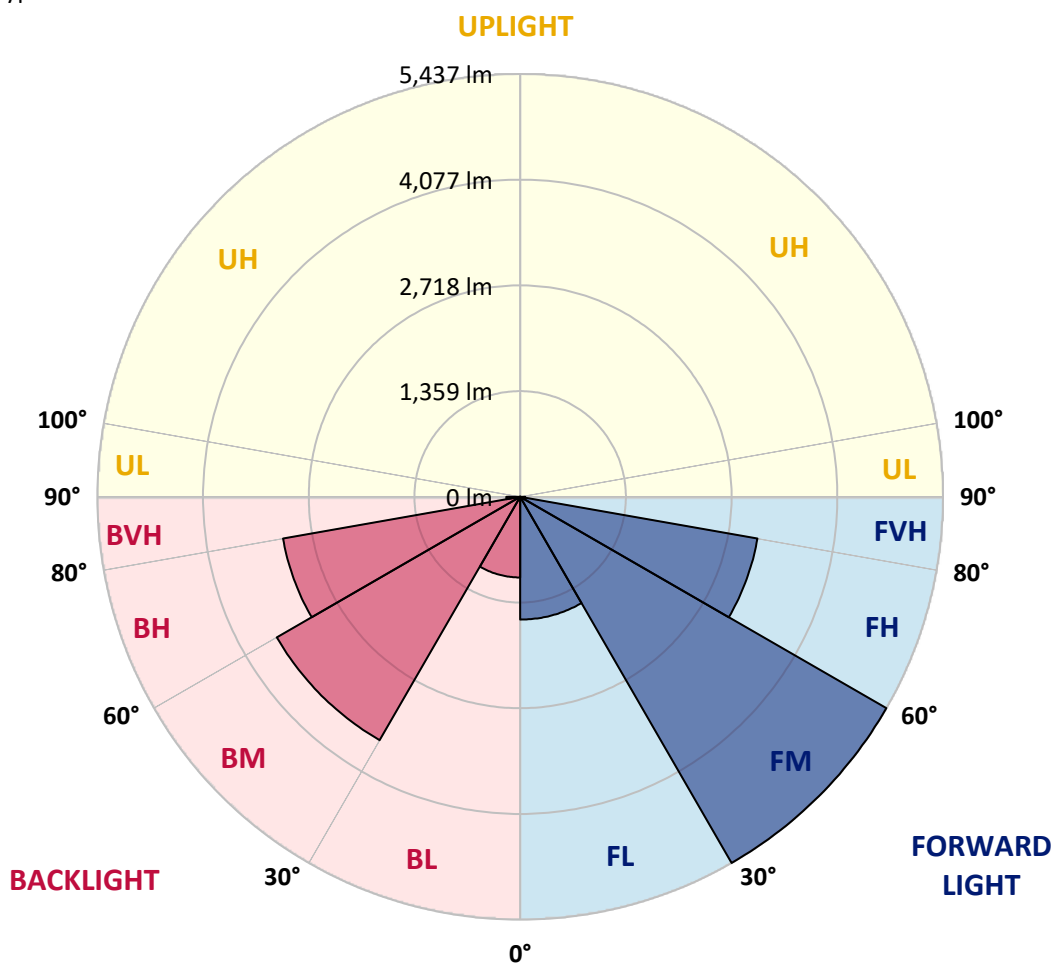
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.5	5.5			
FM	(30°-60°)	5436.6	19.0			
FH	(60°-80°)	3097.7	10.8			G2/5000
FVH	(80°-90°)	63.6	0.2			G1/100
BL	(0°-30°)	1037.3	3.6	B3/2500		
BM	(30°-60°)	3613.3	12.6	B3/5000		
BH	(60°-80°)	3095.9	10.8	B4/5000		G4/5000
BVH	(80°-90°)	177.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10527.6	36.8			

BUG Rating: B4-U0-G4

Type IV Short



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CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4
1°	2458.5	2457.8	2454.5	2448.6	2440.5	2431.8	2413.1	2403.3	2395.4	2388.7	2384.4
2°	2506.0	2503.7	2495.4	2481.2	2462.5	2442.8	2413.8	2395.2	2378.9	2365.5	2356.9
3°	2559.5	2555.2	2540.2	2517.4	2489.2	2457.9	2418.1	2389.9	2365.5	2346.2	2332.5
4°	2619.1	2611.7	2590.3	2558.2	2518.5	2475.2	2423.8	2386.7	2354.8	2330.3	2312.7
5°	2686.1	2676.0	2646.8	2602.8	2551.3	2495.5	2431.7	2385.1	2346.6	2316.8	2295.7
6°	2760.0	2745.8	2709.4	2652.9	2586.9	2517.2	2441.0	2385.8	2340.6	2306.3	2281.6
7°	2840.4	2822.9	2777.5	2708.8	2625.8	2541.9	2453.7	2388.9	2336.7	2298.1	2271.0
8°	2928.5	2906.4	2851.7	2767.6	2667.9	2570.0	2468.7	2394.7	2335.4	2291.4	2262.2
9°	3023.5	2999.2	2931.4	2831.4	2715.4	2599.3	2485.4	2401.5	2336.5	2287.5	2255.5
10°	3126.3	3094.8	3017.3	2900.9	2766.4	2631.6	2504.5	2411.1	2339.3	2286.7	2250.9
11°	3238.0	3202.6	3110.0	2975.8	2819.9	2666.4	2525.0	2422.8	2343.8	2287.7	2249.1
12°	3358.4	3314.7	3208.1	3053.2	2874.9	2704.5	2547.5	2435.3	2350.2	2290.1	2250.4
13°	3486.1	3437.6	3314.9	3136.3	2934.4	2744.8	2571.1	2449.1	2357.8	2294.6	2253.2
14°	3627.3	3570.5	3428.8	3225.0	2997.6	2785.2	2595.0	2463.0	2366.0	2300.3	2256.5
15°	3777.6	3713.1	3549.0	3318.3	3062.5	2827.1	2620.7	2477.9	2375.9	2307.2	2261.5
16°	3932.6	3858.2	3674.4	3418.6	3132.5	2871.9	2648.3	2495.0	2386.3	2315.0	2268.0
17°	4087.2	4005.1	3799.4	3521.4	3205.4	2918.3	2677.0	2512.0	2398.3	2323.2	2275.3
18°	4239.5	4148.7	3924.9	3624.9	3281.5	2965.7	2707.0	2531.5	2411.3	2333.5	2282.3
19°	4382.7	4286.5	4048.7	3725.3	3360.3	3015.2	2738.2	2551.7	2424.5	2344.2	2291.0
20°	4514.6	4416.7	4165.9	3825.5	3440.5	3066.9	2771.1	2573.3	2438.7	2355.6	2300.9
21°	4633.4	4537.4	4279.8	3922.7	3519.7	3120.6	2804.5	2595.7	2453.6	2366.5	2311.7
22°	4735.8	4640.6	4386.4	4017.4	3599.6	3175.6	2839.5	2619.1	2470.7	2379.4	2323.7
23°	4828.7	4740.0	4485.4	4108.0	3678.5	3233.3	2875.8	2643.0	2489.4	2393.1	2337.0
24°	4910.2	4825.8	4577.4	4193.2	3755.9	3292.5	2912.7	2668.2	2508.5	2408.7	2351.2
25°	4980.4	4902.3	4662.5	4276.6	3831.7	3352.5	2951.8	2694.2	2528.1	2425.4	2365.8
26°	5040.8	4970.1	4742.3	4354.6	3904.7	3411.9	2991.4	2721.2	2548.7	2442.5	2381.8
27°	5095.2	5027.7	4812.7	4429.4	3975.7	3472.6	3031.2	2748.6	2569.5	2460.7	2398.5
28°	5141.0	5076.7	4876.4	4501.2	4042.8	3532.7	3072.5	2775.1	2591.5	2480.6	2416.2
29°	5179.1	5119.6	4934.5	4569.4	4106.5	3592.6	3114.6	2803.0	2612.9	2502.0	2434.7
30°	5209.0	5153.9	4986.6	4635.2	4169.6	3650.6	3158.1	2831.4	2636.3	2523.3	2453.9
31°	5233.6	5181.4	5032.1	4695.8	4228.0	3708.2	3201.6	2859.1	2660.4	2544.9	2473.9
32°	5251.5	5203.8	5072.3	4752.3	4284.1	3764.8	3245.6	2888.3	2684.3	2567.4	2495.5
33°	5265.1	5220.0	5107.4	4806.0	4338.2	3819.8	3289.4	2918.5	2709.5	2589.7	2517.8
34°	5271.2	5229.7	5135.5	4854.2	4389.6	3873.5	3333.6	2947.2	2735.0	2612.9	2540.6
35°	5274.0	5234.3	5159.1	4898.7	4440.5	3925.3	3377.7	2976.5	2761.1	2636.8	2564.9
36°	5272.5	5235.7	5177.8	4939.6	4487.1	3975.6	3421.6	3005.9	2787.6	2661.1	2590.2
37°	5265.2	5231.6	5191.1	4976.9	4532.6	4024.0	3464.5	3036.2	2814.6	2686.5	2616.2
38°	5254.3	5224.1	5199.9	5010.3	4576.2	4071.6	3508.8	3067.3	2841.4	2713.1	2642.6
39°	5240.9	5214.9	5203.1	5038.6	4618.1	4118.1	3553.2	3098.2	2868.9	2739.6	2668.8
40°	5223.1	5201.6	5203.0	5064.3	4657.7	4163.3	3598.2	3131.1	2897.1	2767.0	2695.3
41°	5198.8	5183.6	5197.3	5085.9	4694.5	4206.7	3641.0	3165.7	2926.3	2794.6	2722.3
42°	5172.0	5161.2	5187.8	5104.6	4731.1	4249.3	3682.5	3200.4	2955.6	2823.4	2749.9
43°	5139.2	5136.7	5174.9	5118.3	4764.1	4291.7	3723.4	3234.1	2985.0	2853.6	2777.7
44°	5100.9	5108.3	5157.2	5126.3	4795.4	4332.2	3760.7	3269.3	3015.2	2883.5	2806.7

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CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5056.4	5073.2	5133.1	5132.2	4826.0	4372.6	3799.2	3306.5	3047.5	2914.1	2835.8
46°	5004.2	5036.1	5108.5	5133.2	4855.0	4412.6	3836.5	3344.9	3080.7	2945.5	2865.8
47°	4948.1	4990.5	5078.3	5129.8	4883.1	4453.1	3872.8	3383.7	3114.5	2977.1	2897.1
48°	4888.0	4940.8	5043.3	5120.3	4908.0	4490.0	3906.7	3422.9	3149.7	3009.4	2928.6
49°	4819.6	4884.4	5005.1	5109.2	4929.9	4525.9	3939.3	3462.6	3185.9	3043.5	2961.0
50°	4745.9	4820.9	4958.9	5090.9	4949.3	4561.1	3970.7	3501.8	3222.3	3077.9	2995.0
51°	4662.7	4751.5	4908.2	5069.0	4966.0	4593.4	4002.4	3541.6	3260.6	3114.9	3029.0
52°	4574.4	4672.8	4850.3	5040.0	4979.3	4623.0	4032.0	3583.0	3299.8	3153.2	3066.0
53°	4480.4	4589.0	4788.7	5005.5	4989.1	4650.0	4059.9	3622.2	3339.5	3191.3	3101.2
54°	4383.1	4496.5	4719.9	4967.3	4992.8	4673.8	4086.6	3660.5	3381.7	3230.8	3139.0
55°	4280.5	4397.9	4643.8	4922.3	4990.8	4693.1	4109.9	3694.9	3424.2	3272.5	3177.7
56°	4171.3	4297.6	4561.0	4871.2	4984.2	4707.7	4131.0	3728.2	3466.9	3315.2	3217.4
57°	4065.2	4192.4	4476.8	4815.9	4969.0	4717.0	4149.8	3758.7	3509.8	3360.3	3258.3
58°	3952.8	4085.5	4386.4	4754.6	4946.2	4718.5	4162.4	3786.3	3552.9	3407.2	3296.7
59°	3841.9	3976.7	4295.9	4686.3	4915.7	4712.0	4169.9	3811.1	3596.1	3456.6	3334.7
60°	3722.6	3867.1	4200.5	4612.9	4876.9	4697.3	4173.5	3832.2	3639.3	3506.6	3372.1
61°	3598.9	3751.8	4105.2	4536.8	4829.2	4675.7	4169.4	3849.2	3682.7	3557.3	3410.0
62°	3469.6	3634.3	4010.7	4454.8	4775.3	4642.7	4157.6	3861.3	3724.4	3607.6	3447.0
63°	3342.1	3516.0	3917.2	4369.2	4715.3	4597.3	4135.9	3868.0	3765.5	3657.0	3482.9
64°	3222.2	3401.2	3824.5	4282.2	4644.5	4539.9	4103.9	3869.5	3805.7	3706.4	3517.2
65°	3125.3	3296.4	3734.2	4193.2	4568.1	4471.8	4063.7	3863.1	3844.2	3756.5	3549.6
66°	3054.1	3210.0	3647.4	4104.6	4481.8	4390.0	4008.9	3847.1	3877.6	3811.7	3579.1
67°	3013.8	3146.9	3568.8	4017.4	4383.6	4298.0	3938.5	3820.5	3905.8	3863.7	3606.4
68°	2971.9	3103.8	3500.3	3931.1	4274.9	4189.9	3815.0	3774.3	3926.7	3912.8	3605.3
69°	2876.0	3061.8	3444.7	3845.3	4153.8	4047.8	3617.0	3682.6	3934.5	3956.9	3590.6
70°	2687.0	2984.7	3400.7	3758.6	4026.8	3849.1	3342.8	3530.1	3929.4	3992.7	3593.1
71°	2400.4	2832.1	3360.9	3676.3	3875.2	3591.1	3008.7	3309.7	3892.2	4015.5	3572.3
72°	2091.0	2583.6	3313.6	3591.2	3689.8	3285.1	2692.7	3054.4	3801.8	4006.4	3530.1
73°	1771.5	2262.0	3238.4	3499.9	3474.3	2972.6	2427.0	2801.2	3658.9	3957.6	3472.4
74°	1403.0	1915.5	3092.1	3390.2	3232.4	2668.3	2110.2	2561.0	3475.3	3867.0	3358.8
75°	941.0	1541.8	2834.3	3231.1	2957.7	2333.3	1604.8	2279.5	3269.0	3725.8	3188.5
76°	512.2	1094.1	2486.9	2999.3	2671.2	1875.8	1099.4	1764.7	3065.1	3496.8	2957.8
77°	334.9	610.6	2114.0	2667.9	2358.6	1271.3	598.1	1249.8	2834.7	3161.2	2684.6
78°	159.2	449.8	1665.7	2210.5	1962.5	696.9	290.3	738.0	2492.8	2704.6	2349.2
79°	126.8	291.7	1098.5	1674.9	1452.7	517.2	180.9	359.7	1889.4	2206.1	1971.9
80°	109.4	133.7	580.9	1104.9	889.8	348.7	156.5	200.2	1286.1	1761.0	1621.1
81°	94.0	112.9	371.1	578.4	635.3	180.2	132.0	167.6	685.0	1392.3	1470.6
82°	80.3	96.1	165.4	372.5	391.2	152.1	107.7	135.0	328.9	1026.1	1243.5
83°	67.6	80.5	132.8	169.0	147.1	125.1	90.7	102.4	216.4	768.5	1016.3
84°	56.1	66.2	107.5	132.4	118.0	96.9	74.6	82.8	173.6	540.9	786.8
85°	44.6	54.3	82.2	109.2	90.8	74.4	59.1	65.9	142.2	348.9	486.5
86°	33.2	42.4	61.6	87.6	66.8	58.6	44.7	51.2	110.8	250.6	343.7
87°	22.6	30.5	44.6	63.8	49.3	42.8	31.1	38.0	80.9	152.4	201.0
88°	13.1	19.9	27.7	51.3	31.8	27.1	21.6	29.0	53.5	56.3	59.8
89°	5.6	8.6	11.5	38.9	14.4	13.6	12.1	20.0	36.4	38.2	40.5

REPORT NUMBER: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4
1°	2382.3	2382.0	2384.0	2390.3	2396.6	2405.5	2415.0	2417.1	2426.4	2436.5	2444.6
2°	2352.1	2350.9	2355.5	2364.4	2376.8	2391.8	2410.5	2421.9	2442.6	2462.5	2479.7
3°	2325.8	2324.1	2329.9	2341.9	2359.5	2382.0	2408.7	2430.0	2460.4	2491.7	2519.5
4°	2303.8	2301.8	2308.7	2323.5	2345.9	2374.6	2409.2	2439.9	2481.2	2523.9	2563.1
5°	2285.2	2282.3	2290.6	2308.4	2334.5	2369.8	2411.6	2452.0	2505.5	2560.1	2609.8
6°	2269.6	2266.3	2275.8	2295.7	2326.7	2367.1	2416.1	2466.6	2531.2	2599.1	2663.4
7°	2256.1	2253.1	2263.0	2285.5	2320.3	2366.9	2423.9	2484.1	2560.6	2642.9	2721.5
8°	2246.3	2242.7	2253.8	2278.5	2316.6	2368.6	2433.3	2502.7	2591.9	2690.4	2784.2
9°	2238.1	2234.5	2246.5	2273.9	2315.1	2372.3	2444.1	2523.4	2626.2	2741.2	2851.2
10°	2232.8	2228.8	2242.1	2271.5	2315.8	2377.2	2456.4	2546.2	2662.6	2795.0	2923.7
11°	2230.3	2225.8	2240.2	2272.0	2319.5	2384.4	2471.4	2571.8	2703.5	2852.9	3002.5
12°	2229.4	2225.2	2240.4	2274.6	2324.9	2394.0	2488.1	2598.5	2745.3	2914.7	3084.2
13°	2231.4	2226.1	2242.0	2278.7	2331.8	2404.7	2506.2	2627.2	2789.5	2979.9	3173.4
14°	2233.5	2229.0	2246.1	2284.7	2341.1	2417.0	2524.9	2656.6	2835.6	3048.4	3267.3
15°	2237.7	2232.6	2251.3	2291.8	2351.8	2431.3	2544.6	2687.1	2883.3	3120.9	3368.4
16°	2242.6	2237.5	2256.8	2299.1	2362.6	2446.5	2565.8	2719.9	2933.6	3197.9	3474.1
17°	2248.2	2243.1	2263.7	2308.2	2375.0	2463.0	2588.3	2753.8	2986.3	3277.9	3581.9
18°	2255.1	2249.8	2272.1	2317.4	2388.2	2479.3	2611.1	2788.4	3039.5	3361.6	3691.9
19°	2262.7	2258.0	2280.6	2328.2	2401.4	2497.7	2635.4	2824.1	3094.8	3446.9	3800.6
20°	2272.6	2267.4	2291.0	2340.1	2415.5	2515.9	2660.7	2861.2	3154.2	3532.8	3904.5
21°	2283.3	2278.8	2302.4	2353.1	2429.6	2535.2	2687.7	2899.9	3212.9	3622.4	4005.7
22°	2295.1	2290.4	2315.5	2367.4	2445.4	2555.7	2715.2	2939.8	3276.5	3708.5	4102.7
23°	2308.2	2304.3	2329.6	2382.5	2462.4	2577.1	2742.6	2981.0	3342.2	3793.9	4195.0
24°	2322.2	2319.8	2345.2	2399.1	2480.0	2598.4	2770.9	3023.1	3407.2	3875.2	4281.0
25°	2337.6	2335.6	2361.9	2416.5	2499.4	2621.0	2800.5	3065.0	3473.2	3954.8	4362.9
26°	2354.5	2353.5	2379.8	2434.3	2519.4	2643.6	2829.9	3108.8	3540.1	4028.9	4442.2
27°	2371.4	2372.5	2398.5	2452.9	2540.0	2665.9	2860.0	3153.2	3607.2	4100.4	4515.5
28°	2389.5	2394.2	2417.9	2473.0	2561.5	2690.1	2890.1	3199.7	3673.5	4169.2	4586.8
29°	2409.1	2416.6	2438.5	2493.4	2583.8	2714.3	2921.0	3244.9	3737.6	4234.2	4654.7
30°	2430.1	2440.9	2460.7	2514.2	2605.3	2739.3	2951.4	3291.0	3801.6	4295.8	4718.1
31°	2452.3	2465.5	2484.0	2535.7	2628.6	2764.4	2981.7	3337.2	3862.5	4353.7	4777.6
32°	2475.3	2492.0	2507.3	2559.3	2652.8	2790.7	3012.9	3384.0	3921.0	4408.8	4833.6
33°	2499.4	2518.8	2531.2	2582.4	2676.8	2816.7	3043.6	3431.2	3978.4	4463.6	4887.2
34°	2523.2	2545.8	2555.2	2606.7	2702.1	2843.3	3074.7	3478.2	4031.3	4514.6	4936.9
35°	2547.2	2573.5	2579.2	2631.9	2727.2	2870.9	3105.8	3525.7	4084.3	4565.3	4981.2
36°	2572.0	2601.7	2603.2	2657.8	2752.7	2898.4	3139.1	3574.1	4135.5	4611.0	5022.5
37°	2594.8	2629.2	2627.9	2683.4	2778.9	2927.0	3172.4	3620.5	4184.0	4656.1	5059.5
38°	2620.0	2658.2	2653.7	2711.1	2805.7	2954.9	3206.8	3667.9	4232.3	4698.8	5094.1
39°	2645.2	2686.3	2679.4	2738.2	2833.1	2985.0	3241.3	3713.3	4277.1	4739.3	5123.3
40°	2671.2	2713.5	2706.4	2766.1	2861.6	3014.0	3276.4	3757.7	4320.3	4777.8	5148.8
41°	2698.3	2739.4	2733.4	2794.5	2890.7	3043.9	3311.8	3801.7	4361.8	4814.0	5167.9
42°	2725.2	2765.4	2761.4	2822.2	2921.3	3075.6	3348.0	3843.4	4403.9	4850.1	5182.8
43°	2752.3	2790.6	2790.3	2852.9	2951.3	3108.0	3386.4	3884.4	4445.0	4882.1	5195.5
44°	2781.1	2817.0	2820.1	2883.0	2982.4	3142.4	3424.9	3924.8	4485.5	4911.4	5201.9

REPORT NUMBER: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2810.6	2843.2	2849.9	2914.3	3015.0	3175.3	3464.0	3964.4	4523.8	4939.7	5205.1
46°	2840.7	2867.7	2880.5	2945.1	3047.3	3210.6	3502.6	4000.7	4560.8	4965.0	5202.4
47°	2872.4	2891.8	2912.9	2976.4	3081.2	3244.9	3542.0	4034.2	4596.4	4988.6	5195.6
48°	2904.6	2917.6	2946.1	3008.7	3115.3	3280.9	3581.3	4067.5	4629.0	5008.1	5185.0
49°	2938.1	2944.2	2979.1	3040.5	3149.8	3317.6	3619.2	4098.9	4659.9	5025.3	5169.3
50°	2972.1	2969.8	3013.7	3073.8	3186.1	3356.2	3657.2	4128.6	4686.7	5040.9	5149.9
51°	3008.6	2996.6	3048.6	3107.7	3221.5	3393.9	3694.5	4155.4	4711.7	5051.0	5124.6
52°	3043.9	3022.5	3083.6	3143.2	3260.6	3431.7	3730.8	4180.2	4732.1	5057.6	5092.8
53°	3076.7	3043.1	3115.3	3178.6	3299.2	3470.6	3763.9	4202.4	4747.4	5058.7	5056.4
54°	3105.0	3057.6	3144.9	3215.7	3340.2	3508.8	3795.4	4219.5	4759.4	5057.5	5015.6
55°	3130.6	3073.1	3170.5	3253.5	3381.0	3547.7	3824.3	4233.8	4765.6	5048.2	4970.9
56°	3157.2	3092.0	3195.7	3292.5	3425.1	3587.1	3848.9	4244.8	4765.1	5033.6	4919.3
57°	3182.4	3112.0	3221.4	3330.7	3468.1	3626.9	3872.1	4250.6	4756.9	5010.5	4861.9
58°	3207.2	3126.5	3245.9	3372.1	3513.5	3665.0	3890.7	4253.1	4741.7	4981.2	4798.0
59°	3227.4	3137.2	3265.9	3410.7	3561.1	3701.4	3905.5	4251.1	4719.0	4944.1	4728.9
60°	3244.7	3150.1	3283.3	3449.6	3609.7	3737.5	3918.2	4242.8	4689.3	4899.4	4653.5
61°	3262.5	3162.3	3301.3	3486.2	3659.2	3773.9	3926.4	4225.1	4652.7	4845.8	4573.4
62°	3280.0	3170.3	3318.5	3524.7	3706.4	3810.9	3929.0	4198.8	4606.4	4783.9	4489.2
63°	3293.5	3176.5	3333.8	3561.3	3751.8	3844.8	3926.9	4164.9	4548.5	4713.5	4401.8
64°	3305.1	3179.1	3347.3	3596.0	3797.3	3876.3	3920.1	4121.4	4482.1	4637.5	4313.5
65°	3306.1	3155.0	3348.3	3628.3	3843.2	3904.4	3903.0	4064.5	4403.0	4551.1	4221.0
66°	3274.9	3134.4	3314.3	3655.1	3888.3	3926.2	3877.6	3993.2	4312.1	4454.9	4127.2
67°	3257.1	3124.0	3296.0	3675.8	3928.4	3943.7	3837.0	3888.7	4209.6	4349.9	4035.8
68°	3249.9	3084.8	3283.1	3667.5	3966.4	3953.1	3761.0	3711.0	4077.3	4236.1	3943.0
69°	3203.2	2973.7	3232.2	3646.9	3997.9	3946.4	3624.0	3450.4	3887.9	4106.6	3850.9
70°	3111.3	2771.8	3141.4	3644.5	4022.0	3918.4	3408.8	3114.4	3635.7	3957.9	3758.4
71°	2965.2	2473.9	2996.1	3618.6	4026.2	3847.7	3138.0	2768.7	3320.9	3778.0	3659.4
72°	2731.1	2196.6	2763.8	3575.8	3998.0	3721.6	2852.7	2463.7	2986.0	3559.5	3556.2
73°	2442.0	1933.4	2465.7	3509.4	3924.3	3539.4	2582.0	2163.3	2662.5	3306.7	3437.7
74°	2158.4	1639.6	2192.0	3390.3	3804.0	3334.1	2304.8	1782.7	2333.9	3019.3	3298.9
75°	1860.2	1248.6	1901.1	3207.1	3622.8	3107.4	1931.3	1239.4	1937.7	2703.5	3102.6
76°	1501.5	901.9	1539.9	2965.3	3343.2	2865.7	1388.9	701.8	1396.5	2373.1	2832.6
77°	1155.6	821.6	1220.6	2687.3	2963.8	2574.1	850.2	514.1	816.8	2009.8	2460.3
78°	1087.2	1071.5	1185.1	2343.1	2498.4	2117.4	419.6	336.6	604.3	1560.3	1967.1
79°	1339.8	1019.1	1426.8	1944.8	2041.1	1472.2	223.3	159.1	401.3	1033.3	1420.7
80°	1565.7	966.8	1219.4	1552.1	1656.7	831.7	185.6	135.6	198.4	583.6	874.2
81°	1222.0	909.6	1012.1	1408.6	1272.4	399.4	147.9	116.1	164.5	379.2	631.4
82°	878.3	522.1	801.5	1164.6	888.1	236.3	110.2	98.3	139.9	176.1	395.2
83°	500.5	371.2	454.0	920.4	614.4	182.7	91.6	82.1	114.3	134.0	159.1
84°	282.3	220.3	274.2	675.3	372.3	149.9	74.7	66.4	89.2	107.3	126.0
85°	187.3	71.4	220.3	378.7	271.5	117.1	59.5	52.7	68.1	81.2	103.9
86°	93.0	48.3	166.4	303.2	170.7	84.5	45.6	39.1	52.8	59.0	82.9
87°	64.6	25.3	112.5	227.7	71.2	59.7	33.4	25.5	37.7	42.3	58.1
88°	36.2	2.3	58.6	152.2	48.3	40.6	23.0	14.4	22.6	25.8	34.0
89°	8.0	1.5	5.3	76.6	25.4	21.6	12.6	5.4	9.7	10.3	9.9

REPORT NUMBER: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2417.4	2417.4	2417.4
1°	2451.6	2456.4	2458.5
2°	2494.4	2504.1	2506.0
3°	2541.1	2555.2	2559.5
4°	2593.3	2614.2	2619.1
5°	2651.9	2678.9	2686.1
6°	2716.7	2750.3	2760.0
7°	2786.0	2829.0	2840.4
8°	2861.0	2913.3	2928.5
9°	2943.9	3003.7	3023.5
10°	3031.7	3103.7	3126.3
11°	3127.5	3213.9	3238.0
12°	3231.4	3328.8	3358.4
13°	3342.8	3453.8	3486.1
14°	3460.8	3588.6	3627.3
15°	3584.0	3728.2	3777.6
16°	3710.5	3873.8	3932.6
17°	3841.4	4022.4	4087.2
18°	3969.9	4169.9	4239.5
19°	4094.8	4309.4	4382.7
20°	4215.4	4442.1	4514.6
21°	4328.2	4562.2	4633.4
22°	4434.0	4669.7	4735.8
23°	4534.9	4765.3	4828.7
24°	4628.3	4851.1	4910.2
25°	4716.3	4925.2	4980.4
26°	4795.0	4991.0	5040.8
27°	4868.4	5046.9	5095.2
28°	4933.3	5095.5	5141.0
29°	4992.1	5136.5	5179.1
30°	5042.1	5171.6	5209.0
31°	5088.0	5198.1	5233.6
32°	5126.7	5220.8	5251.5
33°	5159.9	5236.5	5265.1
34°	5186.9	5246.9	5271.2
35°	5209.6	5251.0	5274.0
36°	5226.9	5250.7	5272.5
37°	5237.9	5247.2	5265.2
38°	5245.1	5239.1	5254.3
39°	5247.4	5228.4	5240.9
40°	5245.8	5213.9	5223.1
41°	5239.3	5196.2	5198.8
42°	5228.8	5175.1	5172.0
43°	5214.1	5151.6	5139.2
44°	5194.5	5122.4	5100.9

REPORT NUMBER: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5172.4	5089.7	5056.4
46°	5145.4	5051.2	5004.2
47°	5115.0	5007.2	4948.1
48°	5080.4	4958.9	4888.0
49°	5041.4	4902.7	4819.6
50°	4996.9	4842.7	4745.9
51°	4946.0	4775.4	4662.7
52°	4888.7	4698.6	4574.4
53°	4824.7	4616.5	4480.4
54°	4757.6	4528.5	4383.1
55°	4684.7	4432.1	4280.5
56°	4604.4	4332.4	4171.3
57°	4519.3	4229.0	4065.2
58°	4428.6	4120.4	3952.8
59°	4337.1	4011.8	3841.9
60°	4244.5	3900.3	3722.6
61°	4148.6	3785.5	3598.9
62°	4055.1	3669.2	3469.6
63°	3962.6	3552.0	3342.1
64°	3873.1	3443.5	3222.2
65°	3787.3	3340.3	3125.3
66°	3706.1	3256.1	3054.1
67°	3628.8	3194.0	3013.8
68°	3559.3	3151.4	2971.9
69°	3498.9	3107.2	2876.0
70°	3452.8	3033.4	2687.0
71°	3405.3	2891.7	2400.4
72°	3344.8	2642.0	2091.0
73°	3251.8	2315.1	1771.5
74°	3082.4	1952.6	1403.0
75°	2815.5	1571.5	941.0
76°	2466.8	1137.1	512.2
77°	2076.8	653.3	334.9
78°	1588.8	482.3	159.2
79°	1018.9	311.5	126.8
80°	543.5	140.6	109.4
81°	356.4	116.5	94.0
82°	171.6	98.9	80.3
83°	132.5	83.1	67.6
84°	106.4	68.6	56.1
85°	80.8	56.1	44.6
86°	60.1	43.7	33.2
87°	42.9	31.2	22.6
88°	25.9	19.8	13.1
89°	10.1	8.4	5.6

REPORT NUMBER: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1445016

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)