

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: P1444969

Luminaire Tested: XAS180-SFPM (3000K-108W-T4-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444969
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 (3000K-108W-T4-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24748 (1 lamp)
Luminaire Lumens: 14742.9 lumens
Efficiency: 59.6%
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

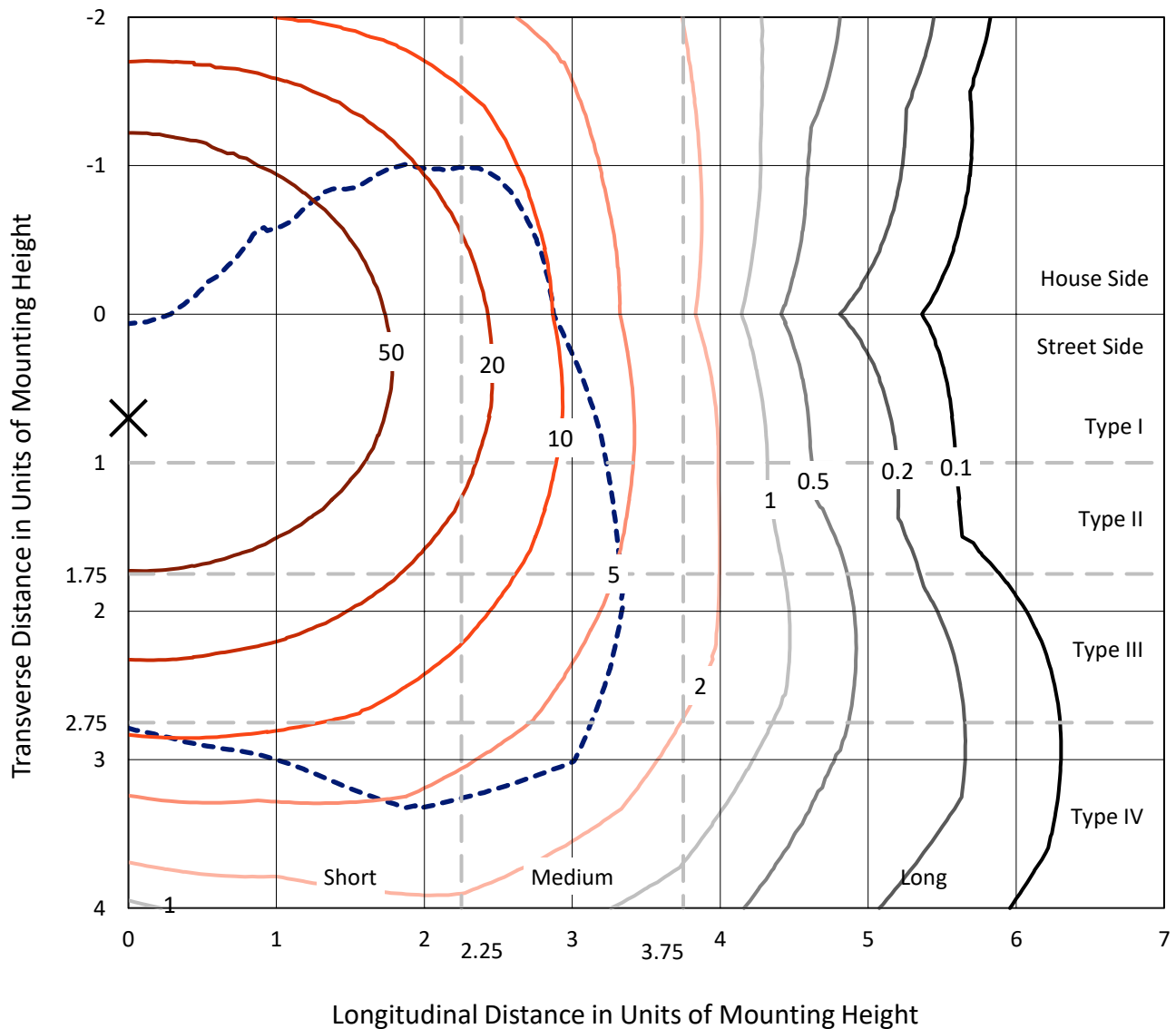
Input Watts (W): 107.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

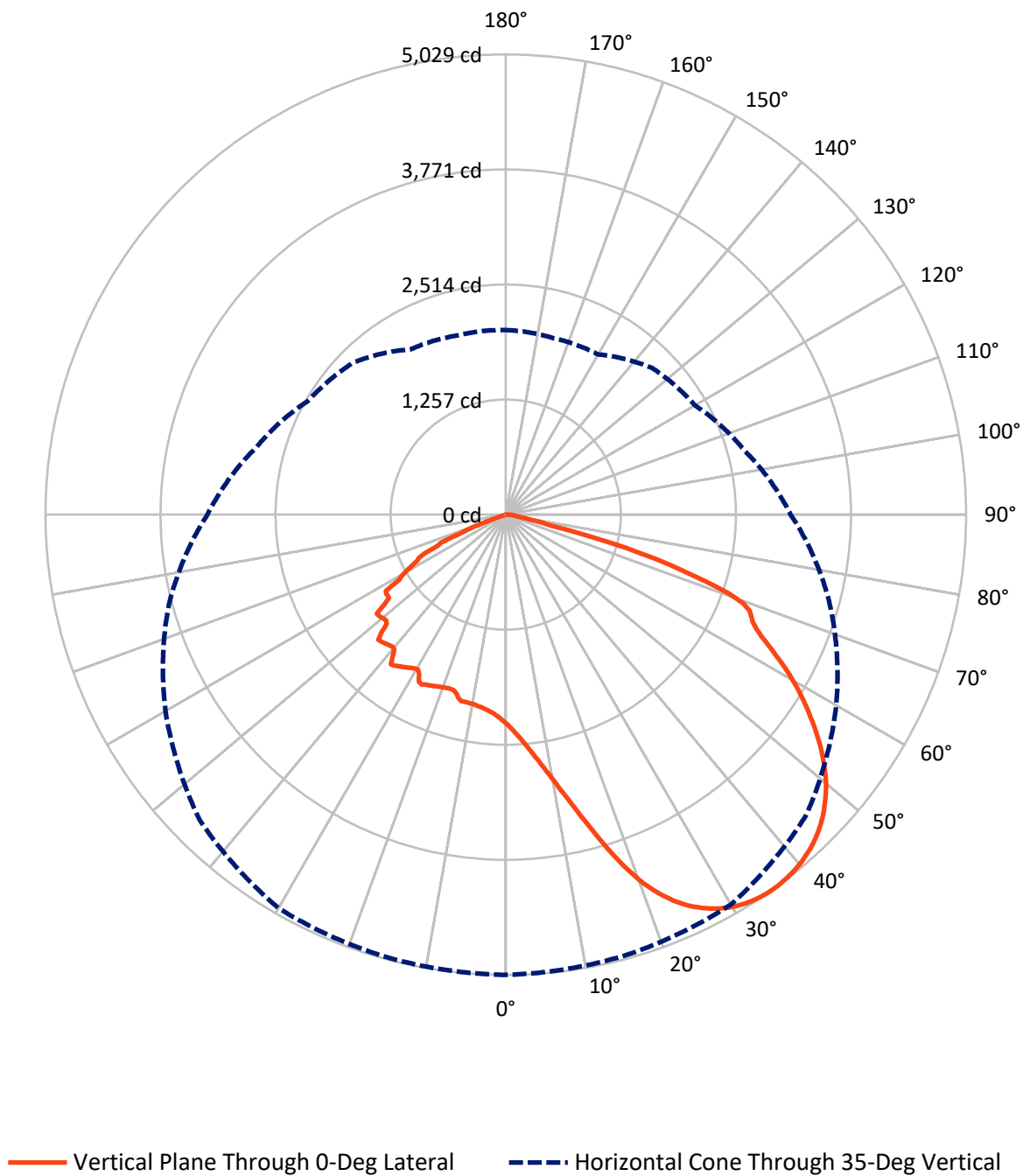


Based on 3 foot mounting height. Maximum calculated value = 397.8 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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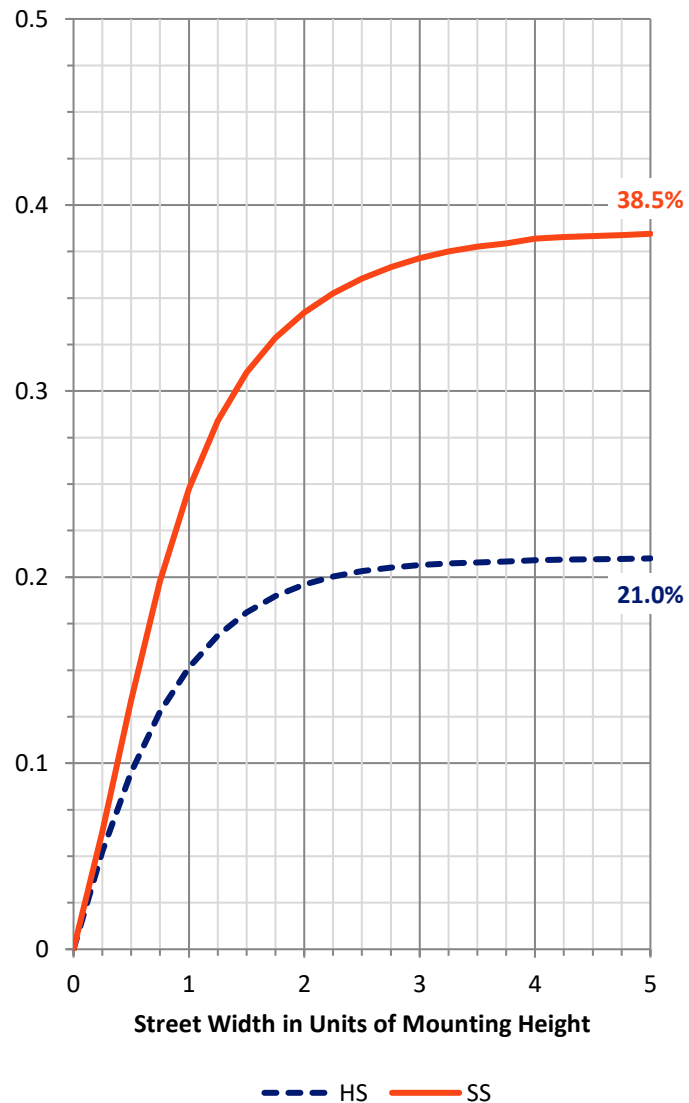
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5222.9	0.0	5222.9
	% Lamp	21.1	0.0	21.1
Street Side	Lumens	9520.0	0.0	9520.0
	% Lamp	38.5	0.0	38.5
Total	Lumens	14742.9	0.0	14742.9
	% Lamp	59.6	0.0	59.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	227.6	1.5	0.9
10°-20°	769.0	5.2	3.1
20°-30°	1454.1	9.9	5.9
30°-40°	2137.8	14.5	8.6
40°-50°	2700.4	18.3	10.9
50°-60°	2990.2	20.3	12.1
60°-70°	2813.4	19.1	11.4
70°-80°	1533.3	10.4	6.2
80°-90°	117.0	0.8	0.5
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°	14742.9	100.0	59.6
0°-180°	14742.9	100.0	59.6

Coefficient of Utilization



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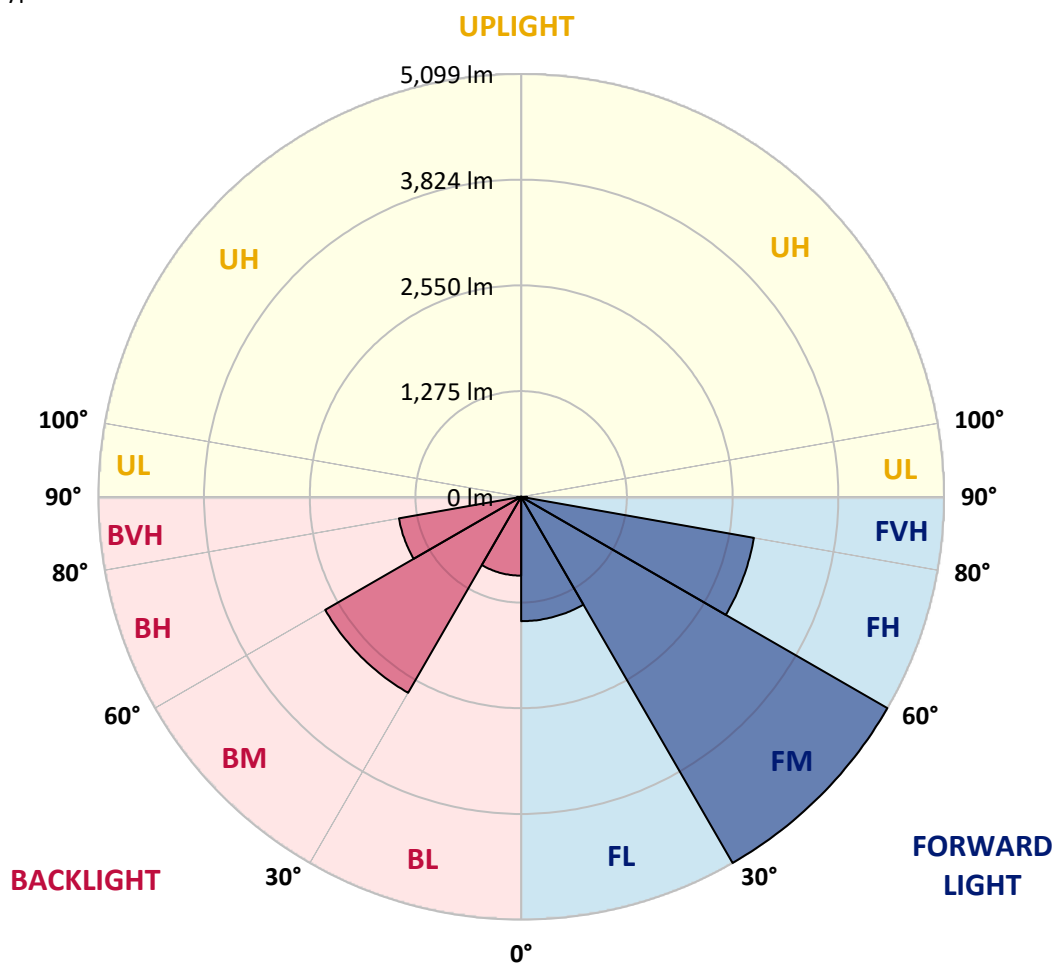
CATALOG NUMBER: XAS180-SFPM (3000K-108W-T4-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1500.0	6.1			
FM	(30°-60°)	5099.2	20.6			
FH	(60°-80°)	2850.1	11.5			G2/5000
FVH	(80°-90°)	70.7	0.3			G1/100
BL	(0°-30°)	950.7	3.8	B2/1000		
BM	(30°-60°)	2729.3	11.0	B3/5000		
BH	(60°-80°)	1496.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	46.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10005.1	40.4			

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6
1°	2335.8	2334.9	2332.2	2326.3	2317.3	2307.9	2288.9	2280.0	2272.9	2266.1	2261.6
2°	2383.2	2380.5	2372.6	2358.6	2339.8	2319.4	2289.9	2271.6	2255.5	2242.6	2233.3
3°	2434.9	2431.1	2416.6	2393.8	2365.5	2334.5	2294.4	2266.1	2241.8	2222.7	2208.4
4°	2493.0	2486.0	2464.7	2433.5	2394.5	2352.5	2300.2	2263.1	2231.0	2205.7	2187.7
5°	2558.8	2548.5	2520.2	2477.1	2426.4	2371.8	2307.9	2261.3	2222.6	2191.9	2171.5
6°	2629.7	2616.5	2580.6	2526.4	2461.4	2393.2	2317.2	2261.5	2215.9	2181.8	2158.0
7°	2706.7	2690.0	2647.1	2580.8	2499.8	2417.9	2329.0	2264.3	2211.4	2174.0	2147.5
8°	2790.6	2770.4	2717.4	2638.0	2541.3	2444.5	2344.1	2269.6	2210.2	2167.8	2139.1
9°	2881.5	2856.6	2793.9	2699.5	2587.5	2473.5	2360.6	2276.0	2210.9	2163.8	2132.2
10°	2980.1	2950.6	2876.7	2766.0	2636.1	2504.7	2378.2	2284.2	2213.9	2162.8	2127.0
11°	3086.7	3052.1	2964.9	2836.8	2687.4	2539.5	2398.2	2294.5	2217.9	2163.5	2124.4
12°	3201.0	3160.4	3059.0	2911.5	2741.3	2575.2	2419.6	2305.9	2224.0	2165.4	2123.9
13°	3324.0	3276.9	3159.5	2992.8	2798.5	2613.8	2442.0	2318.4	2230.8	2168.7	2125.0
14°	3456.5	3404.2	3268.8	3077.0	2858.3	2653.3	2464.8	2331.0	2237.8	2173.1	2126.1
15°	3598.5	3536.2	3384.5	3167.9	2921.0	2692.5	2488.8	2345.3	2246.7	2178.2	2129.0
16°	3744.8	3677.4	3502.9	3262.1	2987.8	2735.1	2514.9	2360.0	2256.5	2183.4	2132.0
17°	3893.7	3816.9	3622.3	3359.3	3057.2	2779.0	2541.5	2376.1	2266.9	2189.7	2120.6
18°	4036.7	3951.8	3740.5	3456.7	3130.5	2824.7	2568.0	2389.2	2278.0	2197.4	2083.5
19°	4173.7	4082.8	3858.3	3553.1	3205.1	2870.6	2586.2	2398.8	2283.9	2205.5	2057.3
20°	4299.8	4206.8	3970.8	3648.2	3279.6	2914.3	2609.4	2410.7	2287.6	2211.5	2042.5
21°	4411.1	4318.1	4078.8	3741.1	3356.2	2954.5	2635.2	2431.1	2293.7	2183.1	2048.6
22°	4508.2	4421.7	4179.6	3830.6	3431.5	3000.6	2667.6	2450.9	2307.8	2159.8	2055.9
23°	4597.9	4513.3	4274.0	3915.5	3506.3	3048.5	2700.3	2468.5	2321.1	2146.1	2064.6
24°	4675.7	4595.5	4362.7	3997.7	3571.1	3101.8	2730.5	2483.0	2330.1	2136.8	2074.8
25°	4743.8	4668.9	4443.6	4076.0	3632.9	3158.5	2757.7	2500.6	2339.9	2146.5	2085.1
26°	4801.7	4732.4	4517.6	4151.0	3696.3	3214.0	2787.0	2519.9	2351.2	2151.7	2097.2
27°	4852.7	4788.5	4585.4	4224.0	3757.0	3267.6	2818.5	2543.4	2368.0	2157.9	2108.8
28°	4896.0	4836.0	4648.1	4292.1	3815.9	3314.3	2853.0	2567.8	2377.8	2166.9	2120.1
29°	4932.6	4876.7	4703.1	4355.6	3873.7	3362.3	2891.0	2591.8	2364.9	2182.6	2132.6
30°	4962.9	4910.4	4753.8	4418.0	3932.0	3411.0	2929.8	2616.7	2365.7	2198.3	2142.7
31°	4986.9	4938.4	4797.4	4474.7	3987.0	3459.1	2969.5	2641.1	2358.8	2214.8	2145.9
32°	5004.0	4958.9	4834.3	4521.8	4039.2	3508.5	3009.5	2659.6	2364.3	2230.6	2082.6
33°	5017.0	4974.3	4868.1	4566.2	4086.6	3558.8	3049.0	2669.5	2359.6	2243.5	2030.0
34°	5025.4	4984.4	4895.0	4605.6	4128.9	3608.2	3085.7	2681.3	2372.6	2254.4	2009.5
35°	5028.5	4989.4	4918.7	4642.4	4168.6	3657.0	3112.0	2700.6	2386.4	2264.4	2020.9
36°	5027.1	4991.6	4935.8	4677.6	4207.7	3703.0	3135.6	2721.1	2402.9	2275.9	2032.5
37°	5020.7	4988.2	4949.2	4709.4	4245.1	3747.8	3164.2	2742.4	2419.1	2273.3	2041.6
38°	5010.9	4982.4	4957.7	4737.0	4281.2	3791.8	3199.0	2766.0	2430.5	2210.9	2049.3
39°	4998.1	4972.6	4962.6	4761.3	4316.1	3833.1	3231.9	2786.3	2441.0	2161.7	2061.0
40°	4981.2	4960.7	4960.9	4782.1	4349.7	3866.0	3265.2	2804.8	2459.2	2148.8	2076.1
41°	4958.9	4944.0	4957.1	4801.5	4382.2	3893.3	3298.5	2822.0	2481.8	2165.0	2091.0
42°	4933.9	4924.4	4947.7	4818.6	4414.0	3918.2	3331.9	2835.1	2503.9	2182.4	2103.8
43°	4902.5	4901.3	4935.1	4831.6	4445.8	3947.3	3360.0	2848.7	2526.4	2200.6	2059.3
44°	4865.7	4873.7	4918.8	4839.0	4475.8	3977.7	3385.8	2874.0	2549.8	2217.5	1987.8

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4824.4	4842.5	4897.2	4841.2	4503.1	4009.8	3408.2	2904.5	2567.9	2228.6	1958.2
46°	4776.2	4806.1	4872.8	4838.1	4530.5	4041.2	3425.0	2935.5	2573.7	2236.0	1969.0
47°	4722.1	4763.3	4845.6	4830.0	4556.5	4071.8	3439.9	2964.0	2574.1	2248.2	1978.1
48°	4665.4	4715.5	4812.7	4817.5	4578.6	4100.1	3453.7	2979.8	2532.6	2262.8	1985.5
49°	4601.7	4661.6	4774.1	4802.5	4595.8	4130.1	3476.3	2990.0	2498.2	2217.5	1995.8
50°	4530.6	4601.4	4730.2	4782.5	4606.7	4155.8	3503.4	2996.5	2486.0	2147.3	2006.9
51°	4453.5	4534.6	4677.9	4757.9	4612.8	4177.3	3530.3	2992.5	2476.9	2117.1	1968.1
52°	4368.3	4461.5	4621.0	4727.2	4615.5	4195.5	3555.9	3013.0	2494.3	2133.3	1861.5
53°	4280.2	4380.8	4558.3	4691.8	4612.5	4211.8	3580.3	3024.9	2505.1	2150.2	1827.7
54°	4186.6	4293.0	4488.7	4653.1	4608.2	4219.8	3602.3	3031.8	2516.8	2162.3	1843.3
55°	4088.9	4201.3	4412.7	4607.6	4597.3	4220.2	3617.2	3046.1	2536.1	2173.5	1860.8
56°	3988.9	4105.4	4335.1	4556.8	4584.4	4217.6	3624.2	3054.6	2557.4	2176.8	1877.9
57°	3888.1	4007.7	4251.6	4503.4	4566.8	4207.4	3623.1	3058.8	2568.3	2101.8	1892.2
58°	3784.3	3905.1	4165.4	4444.5	4543.0	4200.5	3616.4	3066.7	2576.8	2033.7	1796.3
59°	3678.0	3805.1	4077.0	4380.7	4512.6	4192.4	3613.0	3066.6	2534.2	2031.5	1721.4
60°	3565.4	3701.0	3985.7	4313.4	4472.8	4178.1	3606.3	3053.4	2481.1	2055.6	1726.1
61°	3449.8	3593.1	3892.3	4241.4	4425.4	4157.1	3592.1	3036.4	2465.6	2081.9	1732.0
62°	3329.0	3483.2	3801.6	4164.7	4370.2	4127.1	3574.5	3027.6	2472.8	2107.4	1662.2
63°	3211.3	3372.0	3712.5	4086.0	4309.6	4085.8	3544.3	3004.0	2479.3	2056.2	1563.7
64°	3098.6	3264.8	3627.0	4004.5	4238.3	4031.8	3503.4	2976.1	2478.0	1992.0	1543.6
65°	3008.9	3166.3	3542.6	3919.6	4160.6	3967.2	3453.3	2934.7	2451.2	1991.2	1524.8
66°	2941.8	3087.5	3461.7	3834.9	4073.9	3887.0	3393.4	2879.9	2365.5	2003.6	1393.1
67°	2904.0	3028.6	3389.3	3749.0	3975.9	3795.9	3324.5	2809.0	2330.1	1921.6	1371.8
68°	2861.9	2988.7	3324.9	3662.7	3863.2	3691.7	3207.5	2733.2	2343.7	1876.3	1285.2
69°	2767.6	2945.5	3271.7	3578.1	3741.8	3550.1	3016.4	2644.8	2350.2	1870.1	1198.6
70°	2585.5	2867.6	3228.9	3493.2	3619.4	3360.6	2749.1	2515.9	2344.9	1779.3	1111.5
71°	2305.1	2717.5	3188.6	3408.5	3472.4	3121.6	2453.4	2339.8	2269.0	1750.6	972.2
72°	2018.0	2475.1	3139.5	3319.1	3302.6	2849.1	2186.2	2132.5	2175.8	1684.0	871.1
73°	1711.7	2168.1	3061.0	3230.6	3106.9	2569.4	1942.2	1929.5	2072.0	1631.0	776.8
74°	1364.1	1838.4	2912.8	3124.3	2886.1	2300.5	1656.7	1749.7	1951.3	1537.5	656.4
75°	927.9	1480.7	2658.6	2975.2	2637.9	1992.9	1261.2	1553.3	1796.7	1443.5	585.9
76°	514.4	1050.6	2330.3	2757.2	2377.9	1576.4	865.7	1246.8	1658.3	1279.5	524.2
77°	397.6	600.4	1979.0	2445.0	2089.3	1040.6	470.5	938.0	1521.6	1115.5	462.0
78°	283.4	457.5	1554.3	2016.9	1731.2	579.0	226.6	541.3	1258.5	950.9	397.4
79°	169.2	315.6	1019.8	1515.9	1262.3	383.7	170.4	392.6	995.4	750.4	329.6
80°	149.8	173.8	555.6	997.6	778.0	195.9	114.5	243.9	731.2	571.5	278.7
81°	133.9	150.7	421.4	521.1	566.3	162.3	97.1	95.7	393.6	420.3	250.6
82°	119.5	133.2	291.6	345.5	358.3	138.6	82.4	76.2	289.2	335.6	247.4
83°	106.1	117.4	161.9	180.9	150.2	113.6	68.7	60.4	184.8	266.0	203.4
84°	93.4	102.4	135.0	148.0	121.8	88.5	56.0	48.0	83.3	204.6	156.4
85°	81.3	88.8	109.8	125.5	96.6	69.3	43.8	37.8	71.4	143.1	109.5
86°	69.5	76.3	89.5	104.6	74.4	55.8	32.7	29.0	56.3	82.1	62.8
87°	58.0	64.3	72.0	81.5	57.3	42.4	22.6	21.3	41.6	46.5	39.1
88°	50.1	54.0	55.9	56.4	41.7	29.0	15.9	15.1	28.9	31.9	26.9
89°	42.3	43.8	43.1	40.1	26.1	17.6	9.2	8.9	16.2	17.3	14.6



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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: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444969
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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: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6	2294.6
1°	2259.2	2259.4	2262.0	2266.9	2274.0	2281.1	2291.2	2292.8	2302.9	2313.1	2322.0
2°	2228.2	2227.9	2231.9	2241.0	2252.7	2268.4	2286.4	2297.7	2318.4	2338.2	2356.4
3°	2201.1	2200.0	2205.2	2216.7	2234.7	2256.7	2283.6	2305.1	2335.5	2366.9	2394.6
4°	2177.9	2176.8	2183.2	2197.5	2219.7	2248.8	2283.5	2314.2	2356.2	2398.7	2437.0
5°	2160.6	2158.7	2165.4	2182.3	2207.6	2242.6	2285.2	2326.0	2379.1	2433.4	2483.3
6°	2145.5	2142.7	2151.0	2170.5	2198.9	2238.2	2289.0	2340.0	2404.6	2471.6	2533.2
7°	2132.6	2129.5	2138.6	2160.3	2193.5	2237.5	2295.4	2356.6	2432.6	2513.5	2590.1
8°	2122.8	2119.1	2128.7	2153.3	2189.9	2238.9	2303.8	2374.2	2463.0	2559.7	2650.3
9°	2113.9	2110.5	2121.1	2148.2	2188.3	2242.0	2313.1	2393.2	2495.9	2608.4	2715.3
10°	2107.6	2103.2	2115.3	2145.5	2188.5	2246.3	2323.9	2415.0	2531.0	2660.3	2784.5
11°	2102.7	2098.1	2111.8	2144.3	2191.0	2253.3	2337.1	2439.5	2570.3	2715.4	2858.3
12°	2099.7	2095.1	2109.5	2145.1	2195.5	2261.5	2352.4	2464.2	2609.7	2774.3	2936.9
13°	2099.4	2093.9	2109.3	2147.0	2201.7	2271.6	2368.3	2490.9	2652.1	2836.5	3021.8
14°	2099.5	2093.2	2110.7	2151.0	2209.3	2282.6	2385.5	2518.5	2695.1	2901.5	3111.1
15°	2097.2	2067.6	2108.7	2155.5	2217.3	2295.3	2403.4	2548.5	2740.7	2971.6	3206.5
16°	2052.7	2025.4	2067.9	2160.4	2225.8	2309.2	2422.6	2578.0	2788.4	3042.7	3306.9
17°	2019.8	2000.5	2036.1	2152.2	2235.3	2323.5	2443.6	2609.5	2837.3	3119.1	3410.0
18°	2002.4	1996.1	2019.2	2116.0	2246.5	2338.4	2462.0	2640.9	2888.7	3198.8	3513.8
19°	2005.0	1999.1	2021.6	2092.6	2256.6	2349.4	2474.9	2667.3	2941.3	3279.4	3617.3
20°	2009.5	2003.4	2026.6	2080.6	2265.7	2356.9	2490.4	2693.6	2995.4	3361.6	3717.3
21°	2015.4	2010.2	2033.3	2085.9	2247.0	2366.4	2512.4	2723.6	3044.5	3445.7	3814.2
22°	2023.9	2017.9	2042.1	2095.1	2219.9	2383.8	2537.0	2758.4	3094.5	3527.0	3905.7
23°	2032.7	2027.9	2053.0	2105.3	2207.3	2401.9	2562.1	2796.3	3149.9	3608.0	3993.2
24°	2042.3	2037.7	2064.2	2117.1	2203.6	2417.1	2582.3	2834.2	3208.2	3685.0	4076.1
25°	2052.4	2046.9	2075.0	2129.6	2213.7	2428.7	2601.5	2868.7	3269.7	3753.2	4153.4
26°	2063.0	2058.0	2086.6	2144.2	2223.1	2440.9	2622.3	2901.2	3332.3	3815.5	4227.6
27°	2073.5	2069.3	2097.9	2157.6	2230.5	2456.0	2645.2	2936.0	3394.2	3877.5	4299.1
28°	2084.4	2057.8	2109.5	2171.3	2240.0	2468.7	2672.0	2973.6	3452.2	3937.1	4367.4
29°	2051.4	1984.7	2083.9	2184.9	2255.4	2464.7	2699.4	3013.3	3503.4	3994.8	4432.1
30°	1982.5	1945.4	2013.9	2196.2	2272.7	2461.6	2726.7	3055.1	3557.1	4052.7	4492.5
31°	1949.0	1950.3	1979.8	2200.7	2290.3	2461.4	2753.8	3098.4	3609.7	4107.3	4550.2
32°	1955.7	1965.6	1985.2	2149.8	2308.6	2462.2	2775.4	3141.5	3659.7	4159.4	4602.5
33°	1969.4	1981.6	1998.9	2097.9	2325.1	2461.7	2789.3	3183.8	3711.4	4209.7	4648.4
34°	1983.0	1998.2	2013.0	2075.1	2338.4	2474.8	2803.3	3225.9	3760.9	4253.5	4687.8
35°	1996.9	2016.4	2027.2	2084.0	2351.5	2489.4	2824.8	3259.7	3811.0	4292.1	4725.2
36°	2012.2	2033.1	2042.4	2098.2	2361.8	2505.8	2847.9	3287.6	3858.0	4330.3	4760.8
37°	2025.6	2048.8	2057.4	2108.7	2367.9	2524.1	2871.4	3319.1	3903.3	4366.8	4794.0
38°	2038.8	2061.4	2071.6	2117.7	2307.4	2538.3	2898.2	3354.7	3947.0	4403.7	4821.9
39°	2048.3	1986.0	2083.0	2127.4	2260.1	2550.7	2924.4	3389.9	3988.5	4438.5	4846.0
40°	1970.6	1913.7	2014.1	2142.7	2246.0	2568.7	2946.6	3424.7	4023.9	4471.2	4866.7
41°	1900.5	1898.4	1940.4	2159.1	2260.0	2592.6	2966.1	3459.9	4051.2	4503.7	4884.8
42°	1884.3	1909.2	1920.0	2174.0	2277.7	2617.6	2980.0	3494.7	4075.8	4536.2	4898.6
43°	1897.1	1921.1	1933.0	2144.9	2296.6	2642.4	2995.2	3527.2	4102.2	4566.8	4909.8
44°	1911.1	1932.3	1947.9	2068.3	2314.9	2667.9	3024.2	3556.8	4129.4	4594.7	4916.5

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CATALOG NUMBER: XAS180-SFPM (3000K-108W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1925.4	1943.6	1962.2	2032.2	2327.9	2688.3	3056.6	3583.1	4158.5	4620.7	4916.5
46°	1940.1	1950.3	1977.1	2040.2	2336.6	2696.1	3089.2	3600.3	4189.0	4643.9	4910.5
47°	1954.0	1871.7	1989.1	2048.9	2348.0	2701.3	3121.1	3614.5	4217.4	4665.8	4898.6
48°	1879.4	1764.1	1926.5	2056.4	2363.2	2679.5	3145.9	3626.7	4244.0	4684.7	4884.5
49°	1774.3	1743.3	1819.4	2066.4	2334.6	2643.4	3152.8	3647.6	4267.8	4697.5	4866.1
50°	1755.9	1751.9	1793.7	2076.4	2261.5	2617.8	3157.8	3672.8	4289.2	4703.2	4843.6
51°	1770.4	1761.6	1808.1	2049.3	2220.5	2606.4	3153.5	3695.2	4304.5	4701.9	4817.5
52°	1785.7	1771.2	1821.6	1941.4	2233.1	2619.5	3154.5	3716.4	4316.1	4696.9	4784.9
53°	1799.3	1775.5	1834.6	1899.7	2250.6	2630.1	3167.1	3734.2	4322.5	4686.6	4748.9
54°	1806.1	1647.7	1842.1	1914.3	2262.1	2639.9	3170.4	3748.7	4319.7	4675.5	4706.7
55°	1690.3	1568.9	1726.9	1931.4	2272.8	2652.7	3172.6	3755.8	4310.1	4658.9	4661.8
56°	1604.5	1563.4	1640.0	1949.1	2276.4	2672.3	3172.9	3751.9	4293.9	4640.3	4612.5
57°	1598.8	1566.1	1630.8	1961.8	2220.8	2680.0	3168.8	3739.1	4272.4	4616.5	4557.2
58°	1601.3	1553.0	1632.7	1870.8	2141.2	2683.8	3167.1	3722.6	4249.8	4583.2	4498.2
59°	1571.3	1368.8	1608.0	1789.4	2133.2	2654.1	3162.4	3706.1	4226.9	4545.7	4434.2
60°	1409.1	1318.4	1444.4	1789.8	2156.4	2588.5	3140.3	3686.7	4198.1	4502.1	4364.0
61°	1377.8	1240.9	1408.9	1795.0	2181.3	2556.7	3113.9	3662.0	4163.1	4450.1	4289.2
62°	1373.6	1163.5	1400.2	1735.4	2203.4	2555.9	3098.7	3631.1	4120.5	4389.3	4211.4
63°	1293.7	1086.9	1318.0	1626.5	2158.2	2555.2	3071.5	3590.0	4068.2	4318.2	4129.9
64°	1213.7	1064.9	1235.9	1604.9	2081.0	2548.1	3035.7	3536.3	4005.0	4241.4	4047.5
65°	1133.6	972.9	1153.2	1591.5	2069.7	2518.8	2985.4	3469.8	3927.0	4157.3	3958.5
66°	1008.4	813.6	1030.9	1450.2	2070.3	2433.6	2922.5	3390.5	3834.3	4066.1	3864.9
67°	881.1	775.7	899.2	1419.6	1984.9	2377.9	2847.4	3294.6	3733.2	3961.3	3771.7
68°	792.6	541.7	813.3	1363.9	1937.0	2380.1	2744.9	3129.1	3604.0	3845.4	3679.4
69°	645.8	447.3	663.5	1244.8	1918.9	2375.3	2621.4	2884.8	3425.1	3717.8	3590.2
70°	517.2	308.2	532.0	1125.5	1821.6	2356.4	2450.4	2564.8	3200.2	3577.1	3495.1
71°	355.6	169.1	355.3	1006.7	1778.2	2260.7	2235.8	2269.0	2918.2	3410.5	3395.5
72°	196.5	31.0	183.7	904.9	1703.5	2137.4	2007.2	1997.9	2619.0	3221.7	3295.7
73°	165.5	0.4	149.0	798.4	1627.3	2010.2	1785.6	1727.8	2326.0	2993.7	3184.0
74°	134.4	0.3	114.6	656.6	1514.6	1870.4	1579.8	1406.6	2035.8	2734.6	3053.4
75°	103.5	0.3	99.4	576.2	1388.7	1706.5	1269.3	985.4	1689.8	2447.5	2871.3
76°	78.7	0.3	79.2	512.2	1210.8	1543.3	958.7	570.9	1222.9	2144.5	2626.9
77°	55.4	0.3	62.7	451.5	1032.9	1307.9	648.1	366.8	728.4	1822.2	2285.9
78°	41.4	0.4	50.8	391.3	855.1	1072.5	333.6	167.6	545.1	1427.5	1843.7
79°	40.8	0.4	50.5	325.3	684.0	835.4	217.8	127.9	364.4	965.3	1336.6
80°	54.7	0.5	60.9	281.7	531.3	477.7	103.4	108.5	183.8	564.1	831.6
81°	66.9	0.6	62.9	261.7	399.2	346.5	82.9	92.3	156.3	374.4	609.5
82°	59.1	0.7	39.3	243.9	309.7	215.2	68.2	77.6	133.5	187.6	392.8
83°	36.9	0.7	27.9	184.9	232.5	84.7	55.6	64.5	110.1	143.3	176.2
84°	27.0	0.8	16.6	126.0	155.3	70.6	44.7	52.9	87.2	118.0	146.5
85°	17.2	0.9	5.5	67.6	78.9	55.7	35.6	41.2	68.0	92.7	124.4
86°	7.6	1.0	4.9	34.3	43.9	41.4	27.4	29.5	54.6	71.9	103.6
87°	5.6	1.1	4.9	24.2	25.0	29.8	20.2	19.8	41.4	55.4	80.5
88°	4.1	1.2	4.3	14.1	17.5	20.8	14.2	11.6	28.1	40.3	55.9
89°	3.1	1.3	2.7	4.0	9.9	11.8	8.3	4.9	17.1	25.2	39.9

REPORT NUMBER: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444969
CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2294.6	2294.6	2294.6
1°	2328.7	2333.5	2335.8
2°	2370.3	2379.7	2383.2
3°	2416.0	2430.1	2434.9
4°	2467.3	2487.1	2493.0
5°	2523.0	2550.3	2558.8
6°	2584.6	2619.5	2629.7
7°	2652.4	2693.4	2706.7
8°	2725.5	2774.4	2790.6
9°	2804.4	2862.8	2881.5
10°	2887.0	2958.5	2980.1
11°	2979.4	3060.5	3086.7
12°	3077.4	3172.3	3201.0
13°	3182.9	3290.0	3324.0
14°	3295.7	3417.2	3456.5
15°	3414.0	3551.6	3598.5
16°	3534.3	3688.9	3744.8
17°	3656.6	3830.1	3893.7
18°	3779.6	3970.0	4036.7
19°	3898.6	4104.9	4173.7
20°	4013.6	4229.8	4299.8
21°	4121.4	4343.7	4411.1
22°	4221.9	4447.7	4508.2
23°	4318.3	4538.4	4597.9
24°	4407.8	4619.4	4675.7
25°	4490.6	4690.6	4743.8
26°	4566.1	4753.2	4801.7
27°	4637.2	4807.4	4852.7
28°	4698.6	4854.5	4896.0
29°	4754.8	4893.5	4932.6
30°	4803.5	4925.8	4962.9
31°	4847.5	4953.2	4986.9
32°	4885.4	4975.1	5004.0
33°	4917.8	4990.6	5017.0
34°	4943.6	5001.3	5025.4
35°	4964.7	5006.8	5028.5
36°	4981.2	5006.2	5027.1
37°	4993.7	5003.1	5020.7
38°	5001.2	4997.0	5010.9
39°	5003.8	4986.1	4998.1
40°	5002.2	4973.1	4981.2
41°	4997.2	4957.5	4958.9
42°	4987.6	4937.9	4933.9
43°	4973.5	4915.3	4902.5
44°	4956.4	4888.6	4865.7

REPORT NUMBER: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4934.9	4857.6	4824.4
46°	4910.7	4822.3	4776.2
47°	4882.0	4780.2	4722.1
48°	4850.9	4734.0	4665.4
49°	4813.8	4682.0	4601.7
50°	4770.0	4624.9	4530.6
51°	4720.0	4560.6	4453.5
52°	4661.8	4487.8	4368.3
53°	4598.9	4411.3	4280.2
54°	4530.1	4326.3	4186.6
55°	4458.8	4238.5	4088.9
56°	4381.1	4142.6	3988.9
57°	4299.7	4045.1	3888.1
58°	4213.3	3944.4	3784.3
59°	4123.7	3842.3	3678.0
60°	4033.3	3736.9	3565.4
61°	3942.9	3629.8	3449.8
62°	3852.3	3519.1	3329.0
63°	3765.0	3412.2	3211.3
64°	3682.9	3308.8	3098.6
65°	3603.2	3213.5	3008.9
66°	3525.9	3133.3	2941.8
67°	3452.5	3075.2	2904.0
68°	3384.8	3034.8	2861.9
69°	3324.7	2991.4	2767.6
70°	3277.3	2920.6	2585.5
71°	3229.0	2782.1	2305.1
72°	3169.3	2543.4	2018.0
73°	3081.3	2233.9	1711.7
74°	2920.4	1892.5	1364.1
75°	2664.0	1532.0	927.9
76°	2337.5	1121.1	514.4
77°	1967.2	668.7	397.6
78°	1524.1	501.9	283.4
79°	1001.8	340.1	169.2
80°	562.4	178.3	149.8
81°	423.4	155.4	133.9
82°	294.5	137.3	119.5
83°	165.6	120.9	106.1
84°	137.1	105.4	93.4
85°	111.2	91.2	81.3
86°	90.8	78.1	69.5
87°	72.8	65.8	58.0
88°	55.8	55.1	50.1
89°	43.1	44.4	42.3

REPORT NUMBER: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444969

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)