

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: P1445021

Luminaire Tested: XAS180-SFPM (5000K-144W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445021
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-144W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 80% (144W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 19720.9 lumens
Efficiency: 80.8%
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 146.1
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

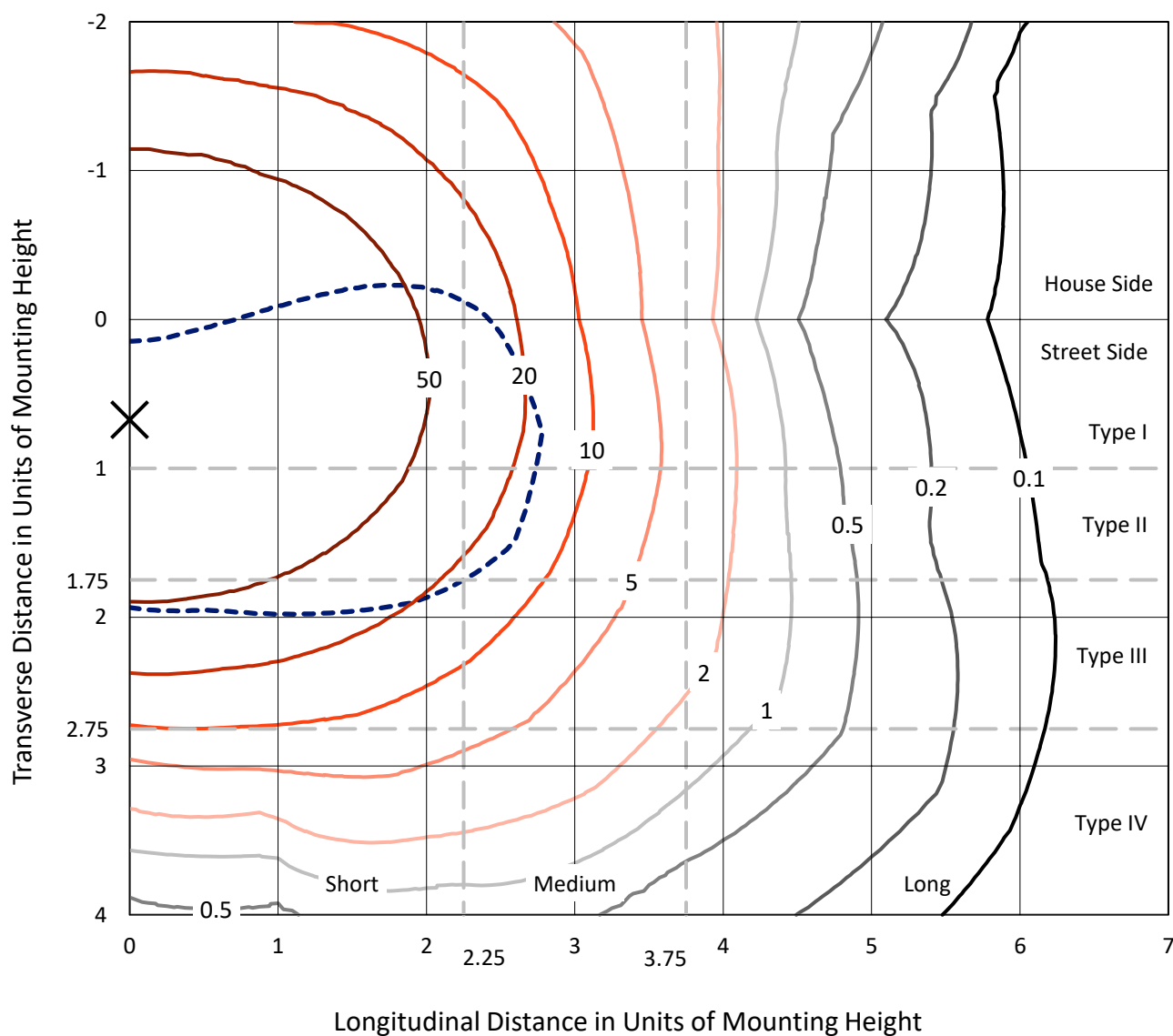
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

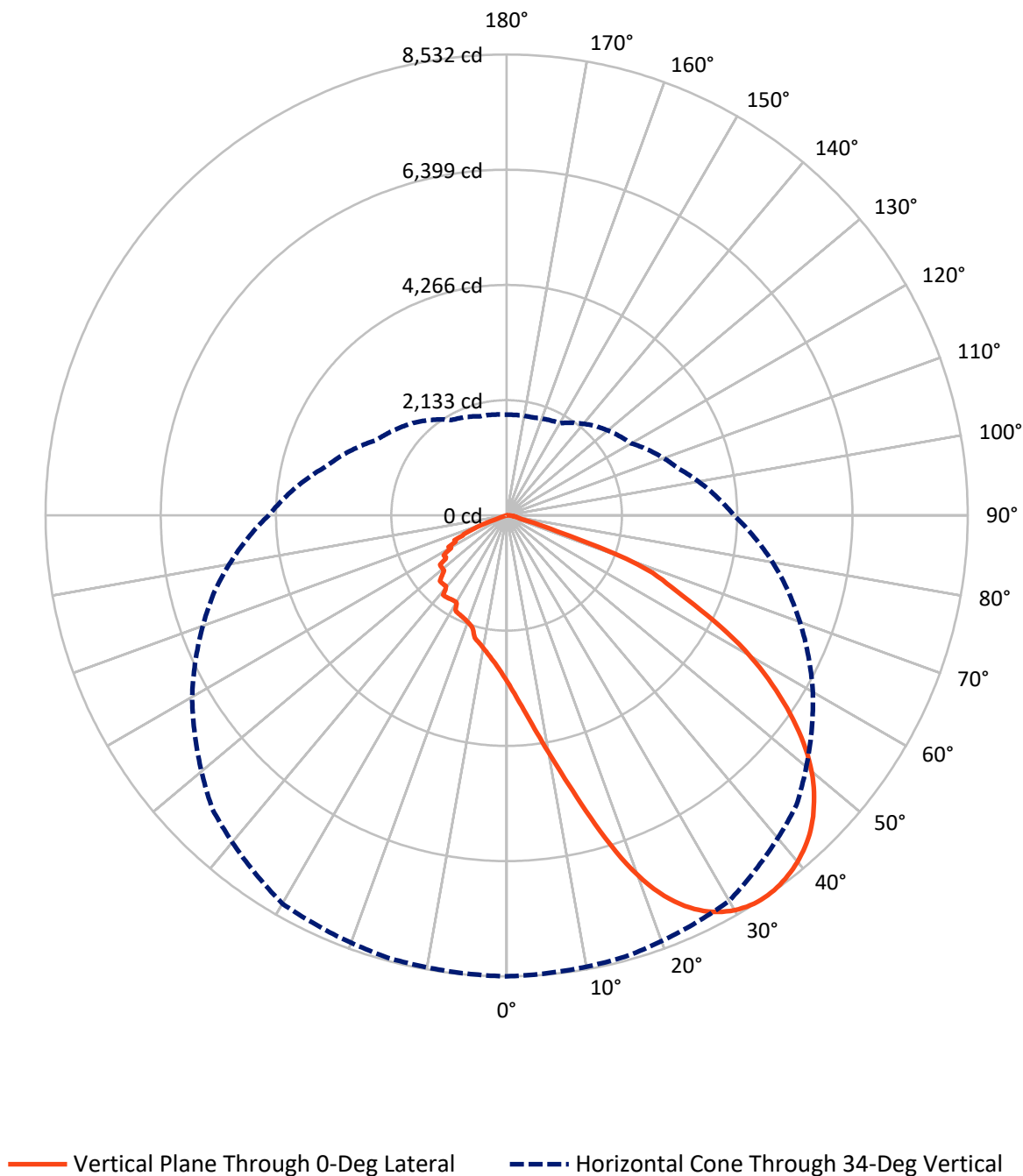


Based on 3 foot mounting height. Maximum calculated value = 668.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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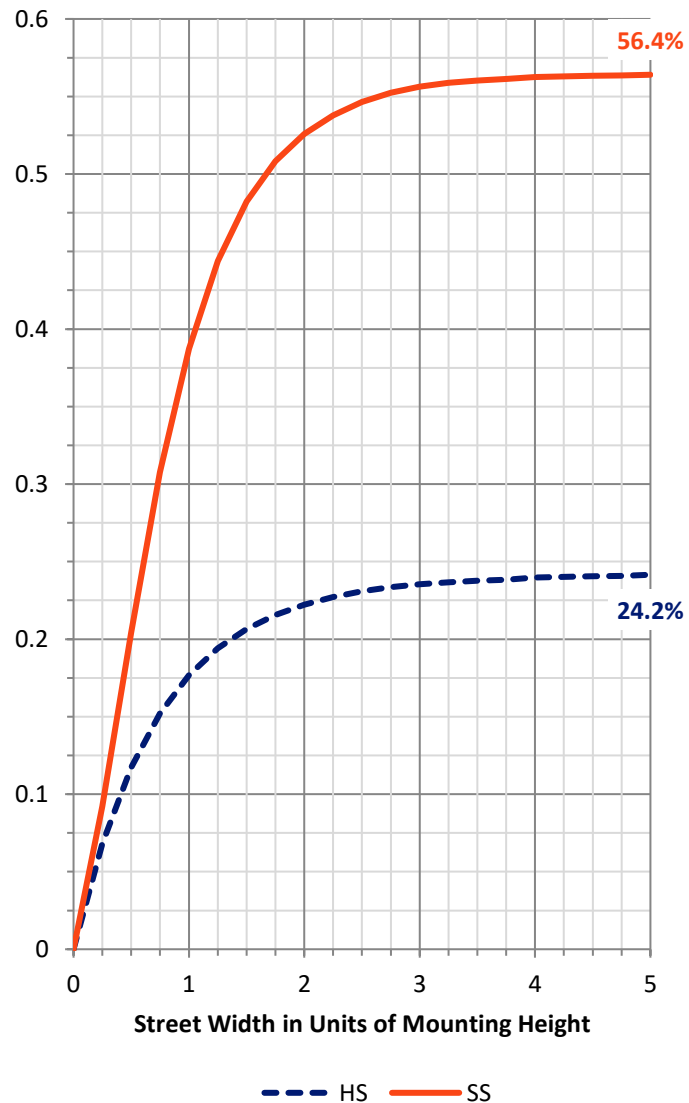
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5931.0	0.0	5931.0
	% Lamp	24.3	0.0	24.3
Street Side	Lumens	13789.9	0.0	13789.9
	% Lamp	56.5	0.0	56.5
Total	Lumens	19720.9	0.0	19720.9
	% Lamp	80.8	0.0	80.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	309.7	1.6	1.3
10°-20°	1075.9	5.5	4.4
20°-30°	2087.6	10.6	8.6
30°-40°	3069.0	15.6	12.6
40°-50°	3808.2	19.3	15.6
50°-60°	4057.7	20.6	16.6
60°-70°	3527.6	17.9	14.5
70°-80°	1631.9	8.3	6.7
80°-90°	153.3	0.8	0.6
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°	19720.9	100.0	80.8
0°-180°	19720.9	100.0	80.8

Coefficient of Utilization



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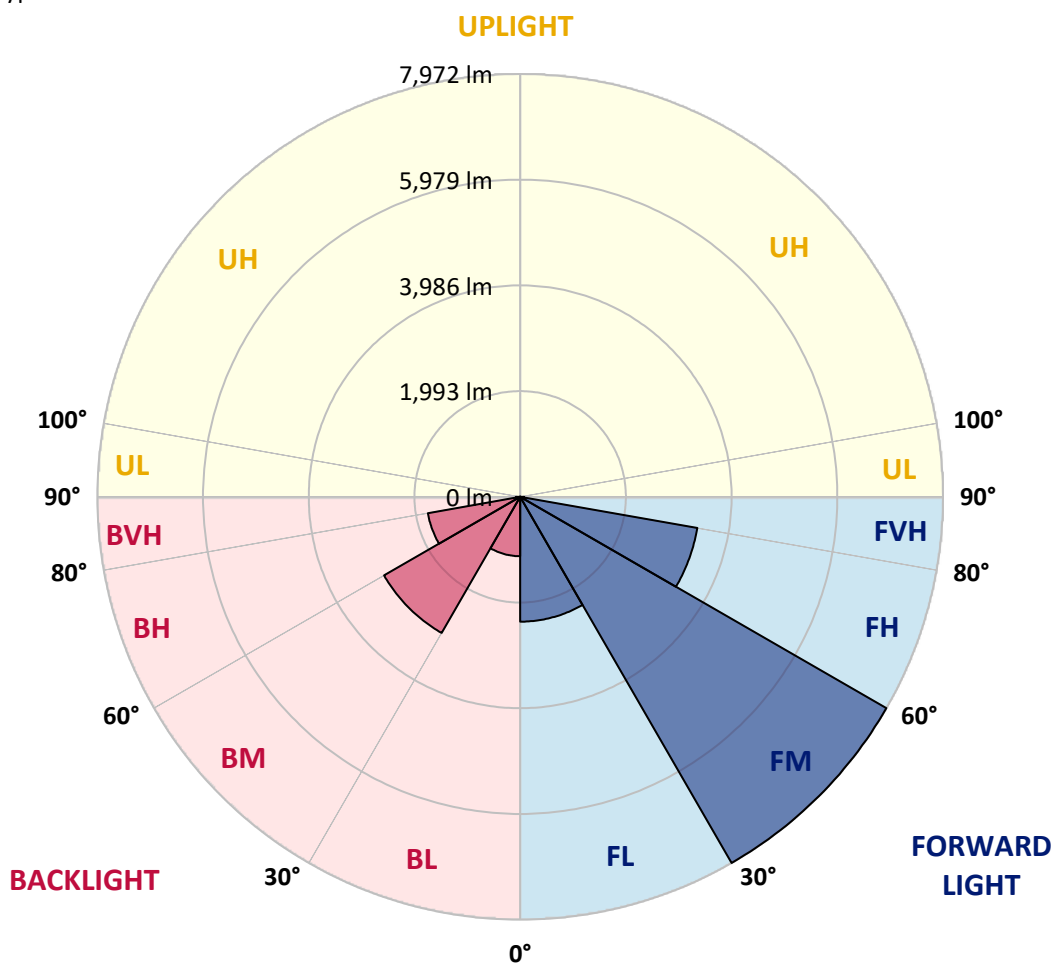
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2353.6	9.6			
FM	(30°-60°)	7972.3	32.7			
FH	(60°-80°)	3392.0	13.9			G2/5000
FVH	(80°-90°)	71.9	0.3			G1/100
BL	(0°-30°)	1119.6	4.6	B3/2500		
BM	(30°-60°)	2962.6	12.1	B3/5000		
BH	(60°-80°)	1767.4	7.2	B3/2500		G3/2500
BVH	(80°-90°)	81.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4686.1	19.2			

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1
1°	3195.9	3194.0	3186.2	3171.7	3152.2	3129.6	3088.6	3067.3	3048.2	3032.9	3021.7
2°	3300.7	3296.4	3275.7	3244.1	3202.2	3155.0	3090.0	3046.1	3007.1	2976.2	2952.0
3°	3414.8	3403.4	3371.2	3320.7	3257.7	3185.8	3095.0	3029.6	2971.4	2924.1	2889.1
4°	3540.2	3523.4	3477.6	3406.2	3316.6	3218.9	3102.5	3015.4	2939.1	2876.7	2832.3
5°	3677.0	3655.5	3591.5	3498.4	3380.4	3255.5	3112.6	3003.2	2909.9	2834.8	2782.1
6°	3827.3	3796.3	3717.6	3598.7	3452.1	3295.6	3124.8	2994.4	2883.0	2797.6	2735.9
7°	3986.3	3948.6	3851.8	3706.0	3527.0	3340.1	3141.8	2989.8	2861.2	2763.4	2692.3
8°	4160.2	4116.4	3997.9	3820.8	3608.1	3387.8	3162.1	2988.2	2842.4	2732.2	2653.5
9°	4349.5	4297.0	4153.4	3944.8	3694.4	3439.2	3184.3	2988.0	2827.7	2703.8	2616.7
10°	4547.4	4484.1	4320.1	4073.7	3786.0	3495.1	3210.0	2991.0	2813.8	2679.5	2582.2
11°	4762.3	4689.8	4497.3	4212.8	3883.1	3554.4	3238.1	2996.2	2802.5	2657.2	2551.1
12°	4995.6	4910.3	4684.5	4362.2	3984.5	3616.7	3268.2	3003.4	2794.0	2636.9	2523.2
13°	5243.7	5143.6	4887.4	4517.9	4092.7	3683.1	3300.1	3011.8	2786.8	2618.0	2497.4
14°	5513.5	5402.1	5105.1	4683.2	4205.7	3751.4	3331.8	3020.4	2780.3	2601.0	2473.3
15°	5802.2	5672.3	5335.8	4859.1	4324.3	3821.7	3366.8	3030.7	2775.2	2585.3	2449.0
16°	6100.0	5953.1	5574.8	5046.1	4448.3	3894.5	3403.9	3043.1	2771.4	2570.6	2427.1
17°	6392.9	6231.7	5809.6	5238.2	4579.4	3970.4	3442.1	3055.9	2768.7	2556.9	2405.0
18°	6685.0	6505.2	6045.5	5427.5	4717.3	4049.2	3480.9	3067.2	2766.7	2544.3	2371.1
19°	6956.2	6768.6	6278.0	5614.2	4859.2	4130.7	3508.0	3070.0	2761.1	2533.0	2291.7
20°	7204.6	7012.3	6503.9	5800.6	5000.8	4208.1	3541.9	3077.7	2748.4	2521.7	2235.4
21°	7427.3	7235.4	6716.3	5980.4	5144.7	4278.6	3576.3	3095.0	2738.9	2509.1	2220.4
22°	7621.2	7435.5	6916.3	6153.8	5285.1	4361.9	3621.3	3113.0	2740.5	2464.4	2206.7
23°	7792.6	7616.8	7098.8	6321.2	5424.4	4442.6	3668.9	3129.4	2742.3	2407.3	2195.2
24°	7942.4	7775.9	7271.4	6477.8	5547.0	4536.0	3713.4	3139.2	2738.5	2361.6	2186.4
25°	8072.2	7915.5	7427.1	6628.7	5664.8	4633.5	3750.9	3152.9	2734.7	2354.2	2177.9
26°	8181.8	8035.9	7569.0	6767.4	5781.3	4729.1	3790.4	3166.3	2732.4	2345.2	2171.2
27°	8273.9	8140.5	7700.3	6903.5	5893.4	4822.8	3834.6	3187.4	2737.8	2333.2	2164.0
28°	8349.8	8227.0	7814.4	7031.2	5998.0	4905.9	3880.1	3208.5	2745.8	2324.7	2157.3
29°	8412.8	8297.3	7914.3	7148.3	6100.5	4984.4	3933.6	3229.6	2752.7	2324.4	2152.1
30°	8460.5	8355.5	8002.9	7259.5	6204.7	5066.4	3987.0	3252.3	2743.5	2326.4	2147.0
31°	8497.7	8399.9	8079.2	7360.6	6301.1	5149.2	4042.8	3275.6	2702.6	2329.3	2137.1
32°	8520.3	8432.2	8142.2	7444.2	6391.6	5228.3	4098.0	3296.0	2693.9	2332.0	2124.1
33°	8531.6	8451.6	8196.3	7518.4	6473.8	5311.1	4153.7	3302.1	2661.7	2334.7	2041.2
34°	8532.4	8459.7	8238.3	7585.3	6545.6	5392.1	4207.4	3308.7	2665.3	2334.9	1969.8
35°	8522.7	8458.9	8269.8	7649.0	6609.7	5469.2	4247.0	3325.0	2670.5	2333.0	1965.6
36°	8504.1	8449.2	8288.4	7704.9	6669.8	5543.2	4279.7	3343.9	2677.4	2332.0	1967.1
37°	8475.9	8430.6	8297.3	7751.5	6728.4	5613.9	4317.0	3363.8	2689.3	2335.3	1968.5
38°	8440.3	8403.1	8298.1	7787.3	6785.8	5684.2	4363.4	3386.4	2696.8	2336.1	1967.1
39°	8396.7	8370.0	8289.2	7817.0	6836.6	5747.9	4405.1	3410.7	2698.6	2224.6	1965.9
40°	8346.6	8328.8	8269.0	7840.3	6885.6	5801.0	4449.9	3428.5	2710.3	2173.4	1970.8
41°	8286.8	8278.7	8242.3	7858.5	6928.1	5838.7	4492.9	3444.6	2728.0	2180.9	1975.5
42°	8218.1	8223.0	8206.0	7874.1	6973.2	5875.4	4537.0	3458.6	2745.9	2191.3	1981.0
43°	8139.7	8157.5	8160.7	7878.9	7015.7	5913.1	4578.4	3466.5	2764.8	2203.1	1983.0
44°	8051.4	8084.8	8108.2	7873.6	7053.8	5954.3	4613.1	3490.5	2785.1	2215.8	1919.2

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7951.5	8001.3	8045.6	7857.0	7087.6	5993.9	4640.5	3523.7	2806.2	2226.8	1832.4
46°	7837.1	7907.0	7976.4	7831.2	7119.2	6033.1	4665.4	3557.8	2815.1	2226.6	1834.6
47°	7716.5	7799.0	7898.4	7794.2	7146.4	6070.4	4681.2	3593.2	2814.1	2232.3	1840.0
48°	7589.6	7683.0	7811.1	7747.5	7166.7	6101.2	4692.8	3630.1	2823.7	2245.5	1842.6
49°	7445.6	7549.7	7712.7	7694.3	7178.4	6131.7	4717.2	3661.6	2774.8	2253.7	1840.2
50°	7285.7	7406.6	7600.7	7630.8	7178.9	6159.9	4751.0	3668.3	2731.3	2182.3	1840.5
51°	7112.8	7246.5	7473.9	7554.5	7165.5	6177.9	4784.8	3644.5	2691.1	2094.9	1843.4
52°	6926.6	7072.6	7335.6	7466.5	7146.9	6187.5	4815.3	3666.5	2711.2	2101.7	1760.8
53°	6728.4	6883.7	7182.0	7369.4	7117.0	6191.7	4842.2	3673.7	2729.2	2114.8	1671.6
54°	6515.3	6678.3	7017.3	7258.0	7077.6	6190.9	4866.1	3669.7	2738.9	2132.4	1680.1
55°	6298.1	6466.8	6838.9	7134.8	7025.3	6173.9	4885.6	3691.7	2754.3	2142.1	1692.1
56°	6063.2	6244.7	6645.9	7001.0	6966.5	6144.2	4889.7	3705.9	2779.1	2149.1	1705.7
57°	5829.4	6012.1	6447.5	6852.8	6898.7	6106.1	4884.9	3705.9	2799.1	2146.1	1718.8
58°	5586.3	5773.4	6239.3	6692.5	6818.1	6070.9	4865.5	3718.6	2808.0	2031.1	1725.7
59°	5332.6	5531.0	6020.4	6525.3	6723.6	6033.9	4847.2	3730.7	2826.8	2003.7	1589.2
60°	5061.5	5277.6	5796.1	6342.8	6612.0	5988.2	4829.9	3721.6	2750.3	2031.2	1600.6
61°	4771.9	5010.0	5561.2	6152.7	6485.0	5932.0	4799.3	3689.5	2706.9	2063.9	1605.2
62°	4469.3	4731.7	5324.1	5950.9	6350.4	5860.3	4765.1	3679.7	2724.6	2098.8	1558.7
63°	4152.0	4440.7	5083.6	5739.7	6199.2	5772.1	4717.8	3653.3	2737.9	2125.3	1512.4
64°	3845.0	4153.7	4843.0	5524.2	6030.4	5667.8	4652.5	3611.2	2747.9	2026.2	1502.3
65°	3566.6	3867.6	4593.4	5302.1	5849.0	5544.4	4572.8	3562.5	2734.7	2036.8	1519.2
66°	3321.8	3608.6	4349.8	5076.6	5655.3	5400.6	4468.1	3490.1	2659.8	2062.7	1430.3
67°	3120.7	3372.5	4107.8	4852.7	5448.0	5233.4	4357.8	3413.8	2577.3	2046.0	1409.6
68°	2904.7	3165.4	3872.1	4622.9	5214.3	5046.3	4192.6	3301.6	2597.3	1995.4	1445.4
69°	2587.7	2947.2	3650.5	4399.0	4967.4	4821.9	3942.5	3168.1	2609.3	2009.2	1322.3
70°	2122.7	2659.0	3443.8	4172.6	4714.2	4543.8	3580.6	2988.3	2614.6	1955.3	1316.3
71°	1511.2	2256.5	3236.7	3947.5	4427.5	4214.0	3165.4	2753.6	2561.3	1959.9	1139.3
72°	961.8	1708.7	3003.6	3713.8	4109.1	3826.6	2809.6	2492.3	2464.3	1948.7	1098.6
73°	740.2	1131.1	2724.2	3473.3	3753.4	3406.3	2471.4	2263.6	2367.5	1919.8	1019.1
74°	525.5	687.6	2346.7	3202.1	3376.0	2979.4	2000.0	2094.6	2262.2	1936.1	923.6
75°	310.9	506.6	1823.1	2855.0	2964.9	2519.6	1528.6	1772.0	2142.2	1895.9	889.5
76°	274.2	331.1	1272.5	2426.6	2541.2	1947.1	1056.9	1449.4	2036.4	1844.1	867.0
77°	245.3	284.4	830.1	1896.0	2101.2	1281.2	577.3	1125.9	1948.6	1667.8	818.2
78°	221.7	251.0	649.0	1265.5	1631.2	737.0	301.1	649.8	1694.1	1491.4	738.0
79°	200.8	224.2	476.0	690.1	1134.6	511.3	246.3	475.9	1439.7	1313.3	626.7
80°	181.9	201.0	303.0	476.3	709.2	287.4	191.5	302.1	1181.2	1071.5	536.8
81°	164.4	180.1	256.3	271.6	465.6	242.6	137.4	131.2	655.9	801.7	485.1
82°	148.1	160.9	222.3	232.3	226.5	207.2	115.9	101.8	480.7	638.7	483.2
83°	132.4	142.7	192.4	202.8	175.8	168.2	96.6	78.6	305.5	506.0	396.9
84°	117.4	125.8	162.8	176.2	142.9	127.6	78.4	61.6	131.0	361.3	295.3
85°	103.0	110.0	131.5	150.9	113.8	97.4	60.6	47.5	115.0	267.3	208.6
86°	88.6	95.0	107.3	126.3	88.7	75.4	44.5	36.0	92.1	173.4	122.4
87°	76.3	80.8	86.8	99.5	69.3	56.8	34.1	27.9	68.3	80.6	75.1
88°	64.1	68.8	71.1	76.5	50.1	38.3	23.8	19.9	51.8	54.8	51.2
89°	51.8	56.8	55.5	53.5	30.9	22.4	13.5	11.8	35.3	29.1	27.2



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CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-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: P1445021
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1	3099.1
1°	3016.6	3016.8	3021.2	3032.4	3047.2	3066.4	3087.2	3093.6	3118.3	3141.4	3161.6
2°	2940.2	2938.1	2947.1	2966.1	2994.3	3029.3	3071.2	3100.6	3149.4	3196.6	3238.4
3°	2870.8	2866.1	2877.7	2904.6	2945.5	2997.3	3058.3	3111.4	3183.9	3254.4	3317.9
4°	2807.9	2803.0	2815.9	2848.9	2900.9	2968.9	3049.1	3124.4	3221.6	3317.2	3406.3
5°	2752.4	2745.4	2759.9	2799.5	2860.7	2943.9	3042.9	3140.4	3263.4	3386.9	3501.3
6°	2699.7	2691.1	2708.6	2754.2	2826.0	2921.3	3038.9	3159.2	3309.1	3462.9	3604.9
7°	2651.6	2641.1	2660.4	2711.8	2793.5	2903.0	3038.4	3182.5	3357.9	3542.7	3715.8
8°	2607.2	2594.6	2616.0	2673.7	2764.4	2886.6	3040.2	3205.9	3410.6	3627.7	3834.9
9°	2564.9	2550.4	2574.4	2638.1	2738.6	2873.1	3043.7	3232.8	3468.2	3719.0	3963.0
10°	2525.5	2509.9	2536.3	2605.6	2714.1	2861.4	3049.0	3262.6	3527.6	3815.4	4096.8
11°	2489.3	2471.7	2500.8	2576.3	2693.7	2851.9	3056.9	3296.4	3593.2	3918.4	4240.9
12°	2456.1	2437.3	2466.8	2548.5	2675.1	2844.5	3067.6	3331.4	3659.3	4027.6	4393.6
13°	2425.8	2404.4	2436.6	2523.1	2658.5	2839.6	3080.1	3368.9	3730.3	4142.0	4557.3
14°	2396.6	2372.8	2407.6	2499.5	2644.3	2836.4	3093.9	3407.2	3803.7	4261.0	4730.7
15°	2368.0	2341.8	2379.1	2476.9	2631.4	2835.7	3108.4	3448.3	3880.6	4390.8	4916.8
16°	2335.0	2272.6	2347.5	2455.4	2618.8	2835.9	3123.5	3491.2	3960.5	4524.0	5112.6
17°	2245.3	2195.2	2262.2	2434.2	2607.3	2836.5	3141.7	3534.2	4044.0	4666.7	5310.0
18°	2182.2	2154.7	2197.4	2401.2	2597.5	2838.3	3159.9	3579.1	4130.5	4814.2	5510.0
19°	2159.0	2131.2	2172.9	2328.3	2587.5	2838.6	3167.2	3617.6	4219.6	4964.0	5711.7
20°	2139.2	2109.9	2152.9	2273.8	2577.8	2829.6	3179.7	3653.2	4313.0	5116.0	5907.3
21°	2121.7	2092.3	2135.1	2253.4	2566.5	2823.6	3198.1	3693.5	4397.9	5269.9	6095.1
22°	2107.6	2076.2	2121.1	2241.2	2522.5	2827.9	3221.7	3742.8	4484.0	5424.0	6272.8
23°	2095.4	2062.7	2109.8	2230.6	2469.7	2833.9	3245.2	3796.0	4582.2	5571.6	6437.6
24°	2084.0	2050.3	2099.2	2222.3	2431.2	2839.9	3265.8	3850.6	4680.1	5717.1	6595.0
25°	2073.9	2038.3	2089.2	2215.4	2420.7	2838.3	3280.2	3902.2	4786.1	5843.0	6742.0
26°	2063.6	2028.6	2080.6	2210.0	2416.3	2838.1	3299.0	3945.9	4892.5	5958.4	6881.9
27°	2055.1	2020.4	2072.7	2205.3	2406.4	2839.7	3316.7	3994.9	4999.9	6072.9	7013.6
28°	2048.2	2013.4	2066.4	2200.6	2399.1	2849.4	3342.5	4046.0	5100.5	6182.4	7139.0
29°	2041.1	1983.5	2059.5	2196.9	2398.4	2858.7	3369.1	4102.9	5189.1	6280.5	7253.4
30°	1985.6	1875.5	2012.8	2193.9	2402.2	2851.4	3396.0	4162.4	5278.3	6380.5	7361.9
31°	1892.0	1854.8	1917.6	2185.0	2406.9	2828.6	3422.3	4222.1	5367.3	6476.3	7463.0
32°	1876.6	1855.3	1900.6	2174.7	2412.9	2806.5	3447.7	4282.8	5450.8	6566.9	7554.6
33°	1875.3	1857.8	1899.8	2112.7	2418.9	2784.9	3458.9	4342.7	5532.9	6648.0	7631.0
34°	1876.1	1862.4	1900.6	2038.1	2424.8	2785.8	3470.3	4403.5	5615.6	6720.3	7696.5
35°	1877.7	1868.6	1903.1	2027.9	2425.8	2792.4	3489.4	4455.0	5694.6	6782.5	7754.0
36°	1880.6	1874.0	1906.8	2030.7	2426.3	2800.7	3510.9	4494.8	5768.4	6840.4	7808.5
37°	1881.7	1878.6	1909.2	2034.5	2426.9	2811.3	3534.7	4537.4	5838.4	6897.2	7855.8
38°	1882.0	1882.8	1910.8	2034.0	2427.3	2823.5	3561.4	4584.9	5905.3	6952.5	7895.1
39°	1881.4	1883.0	1912.2	2033.2	2336.2	2828.7	3590.2	4630.9	5968.3	7001.5	7923.4
40°	1877.6	1779.6	1909.9	2037.4	2282.7	2837.6	3617.4	4679.4	6023.3	7046.7	7947.3
41°	1771.4	1726.4	1816.9	2044.0	2283.7	2857.3	3636.1	4725.8	6063.2	7089.3	7961.8
42°	1712.9	1727.2	1748.2	2050.8	2293.8	2878.0	3650.5	4770.6	6096.1	7132.5	7970.1
43°	1711.8	1730.2	1747.4	2055.6	2305.6	2899.9	3659.8	4816.9	6130.2	7169.2	7970.5
44°	1713.3	1732.3	1750.4	2012.1	2319.1	2922.6	3687.8	4860.7	6162.3	7202.9	7963.3

REPORT NUMBER: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1715.4	1732.3	1753.9	1914.5	2332.0	2944.3	3723.1	4893.5	6196.3	7230.0	7943.0
46°	1717.2	1729.8	1756.7	1909.6	2335.3	2955.9	3759.6	4918.0	6230.4	7253.9	7909.3
47°	1718.4	1667.5	1758.8	1915.8	2338.6	2957.5	3796.5	4933.4	6259.0	7272.4	7862.9
48°	1661.4	1605.3	1758.6	1919.1	2354.0	2969.1	3832.9	4941.8	6285.1	7282.8	7809.9
49°	1604.5	1544.2	1655.7	1915.9	2363.1	2960.7	3868.1	4963.7	6303.7	7285.7	7746.6
50°	1547.9	1540.7	1581.4	1915.6	2315.0	2894.8	3890.1	4991.5	6317.6	7273.6	7677.2
51°	1553.7	1539.0	1586.5	1919.6	2209.9	2855.4	3872.7	5016.3	6325.1	7245.8	7597.1
52°	1562.0	1539.2	1594.3	1856.9	2211.0	2869.1	3861.6	5038.8	6323.8	7210.5	7505.5
53°	1570.9	1538.7	1602.7	1752.0	2227.5	2889.6	3875.7	5056.2	6312.0	7165.2	7402.6
54°	1578.0	1531.7	1565.0	1760.9	2248.4	2899.9	3870.1	5067.7	6292.5	7111.1	7284.7
55°	1581.2	1386.8	1527.2	1774.4	2260.7	2906.6	3867.3	5075.3	6256.6	7048.5	7159.8
56°	1444.2	1364.1	1489.5	1790.4	2271.0	2933.2	3872.2	5067.1	6203.1	6979.5	7021.6
57°	1418.9	1370.3	1458.7	1806.8	2269.4	2952.9	3864.0	5042.8	6144.7	6903.2	6875.9
58°	1425.2	1377.3	1465.3	1818.6	2171.5	2959.1	3864.2	5006.2	6084.8	6810.6	6717.3
59°	1434.5	1316.6	1473.5	1685.7	2138.7	2971.6	3866.1	4970.5	6027.1	6709.5	6548.5
60°	1330.4	1196.3	1380.4	1687.7	2168.7	2908.1	3843.5	4931.4	5960.9	6592.7	6364.5
61°	1268.2	1209.6	1313.8	1697.0	2201.7	2836.8	3795.5	4882.0	5880.5	6461.6	6167.9
62°	1283.5	1222.0	1330.8	1715.0	2235.8	2838.6	3773.0	4824.0	5789.1	6317.7	5968.3
63°	1299.4	1069.9	1344.7	1610.7	2263.0	2839.9	3743.4	4756.7	5684.4	6154.6	5757.3
64°	1131.0	1056.1	1171.5	1597.2	2164.9	2840.4	3688.4	4666.4	5564.1	5983.5	5543.3
65°	1141.8	1069.1	1176.7	1566.9	2167.0	2821.9	3631.5	4553.4	5424.7	5796.1	5318.5
66°	1149.7	893.0	1191.7	1536.7	2180.7	2753.1	3548.1	4426.9	5258.9	5600.4	5086.3
67°	952.0	864.1	988.1	1508.2	2165.7	2647.2	3453.7	4274.9	5079.5	5384.9	4856.3
68°	968.1	667.0	999.6	1540.9	2109.8	2653.9	3314.8	4047.6	4864.4	5148.9	4622.6
69°	774.1	601.7	804.3	1417.3	2106.4	2653.2	3134.9	3722.8	4608.3	4895.1	4398.1
70°	739.4	411.8	759.1	1403.2	2055.7	2647.1	2901.2	3294.3	4290.4	4613.6	4158.9
71°	489.6	221.9	491.2	1222.7	2033.2	2584.0	2631.1	2888.7	3910.0	4299.9	3912.5
72°	303.7	33.9	287.4	1181.7	2018.8	2468.0	2366.0	2528.9	3480.4	3951.4	3661.9
73°	250.8	0.4	228.6	1072.2	1976.0	2348.8	2122.5	2150.5	3037.4	3568.7	3390.7
74°	226.4	0.3	210.8	953.7	1972.1	2230.4	1822.0	1721.8	2599.7	3156.8	3092.4
75°	185.9	0.3	180.5	897.0	1871.5	2103.1	1521.5	1190.6	2129.1	2707.8	2722.9
76°	145.4	0.3	150.1	865.7	1717.0	1960.3	1219.7	692.0	1551.5	2261.3	2283.1
77°	105.3	0.3	119.8	815.3	1562.5	1718.2	751.6	458.7	952.2	1835.8	1747.8
78°	78.4	0.3	96.6	734.4	1407.7	1476.1	392.0	228.6	720.7	1388.7	1150.8
79°	77.3	0.4	96.6	621.6	1218.2	1228.6	263.2	178.6	496.5	926.9	851.9
80°	105.4	0.4	118.0	542.3	1005.4	744.2	137.4	151.0	272.3	689.8	560.5
81°	130.0	0.5	124.0	505.7	760.6	537.3	108.7	128.7	233.1	455.1	269.2
82°	117.1	0.5	76.2	475.8	587.3	330.4	88.4	108.0	199.2	220.5	232.1
83°	72.7	0.6	53.7	396.2	418.3	126.2	71.3	89.1	162.5	172.5	203.7
84°	39.6	0.7	31.3	284.4	301.6	106.8	56.7	72.5	126.5	140.6	176.9
85°	29.5	0.8	8.9	172.7	185.0	84.8	44.4	55.9	96.5	111.3	151.1
86°	19.4	0.9	7.9	63.6	71.1	62.5	33.8	39.3	76.6	86.1	126.0
87°	9.5	1.0	7.9	44.1	36.5	44.7	25.6	25.9	56.8	67.3	98.3
88°	6.5	1.1	6.8	24.7	25.3	31.0	17.4	15.0	37.0	48.7	75.6
89°	4.7	1.2	3.8	5.6	14.0	17.3	9.3	10.4	21.5	30.1	52.9

REPORT NUMBER: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-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: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-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: P1445021
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-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: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3099.1	3099.1	3099.1
1°	3178.4	3190.4	3195.9
2°	3270.1	3292.6	3300.7
3°	3369.0	3402.4	3414.8
4°	3478.6	3525.2	3540.2
5°	3594.5	3656.7	3677.0
6°	3723.3	3801.5	3827.3
7°	3860.5	3953.4	3986.3
8°	4006.6	4120.0	4160.2
9°	4165.0	4301.3	4349.5
10°	4332.9	4492.9	4547.4
11°	4517.3	4701.8	4762.3
12°	4711.2	4924.9	4995.6
13°	4921.7	5166.8	5243.7
14°	5142.6	5422.0	5513.5
15°	5379.5	5693.1	5802.2
16°	5617.7	5968.9	6100.0
17°	5862.2	6253.2	6392.9
18°	6107.1	6533.6	6685.0
19°	6342.6	6797.7	6956.2
20°	6568.5	7046.0	7204.6
21°	6781.5	7273.2	7427.3
22°	6978.6	7473.6	7621.2
23°	7166.4	7656.5	7792.6
24°	7341.6	7813.1	7942.4
25°	7500.3	7950.4	8072.2
26°	7644.0	8066.0	8181.8
27°	7773.8	8166.4	8273.9
28°	7888.6	8250.4	8349.8
29°	7988.2	8319.1	8412.8
30°	8075.4	8374.9	8460.5
31°	8149.4	8418.5	8497.7
32°	8210.0	8450.8	8520.3
33°	8258.5	8469.4	8531.6
34°	8298.1	8477.5	8532.4
35°	8326.4	8475.1	8522.7
36°	8343.3	8462.9	8504.1
37°	8349.8	8442.7	8475.9
38°	8347.4	8414.5	8440.3
39°	8334.5	8378.9	8396.7
40°	8312.6	8336.9	8346.6
41°	8283.6	8288.4	8286.8
42°	8245.6	8232.7	8218.1
43°	8197.9	8169.6	8139.7
44°	8141.4	8096.1	8051.4

REPORT NUMBER: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	8079.5	8014.8	7951.5
46°	8009.6	7923.5	7837.1
47°	7930.1	7817.4	7716.5
48°	7843.8	7706.4	7589.6
49°	7745.1	7577.1	7445.6
50°	7635.3	7438.4	7285.7
51°	7510.1	7283.0	7112.8
52°	7371.0	7111.5	6926.6
53°	7216.3	6925.9	6728.4
54°	7051.0	6726.1	6515.3
55°	6876.3	6516.4	6298.1
56°	6684.2	6289.7	6063.2
57°	6485.5	6050.7	5829.4
58°	6276.5	5813.2	5586.3
59°	6057.8	5567.0	5332.6
60°	5829.0	5313.6	5061.5
61°	5594.9	5044.0	4771.9
62°	5357.0	4770.2	4469.3
63°	5120.3	4484.5	4152.0
64°	4886.3	4200.4	3845.0
65°	4648.0	3917.5	3566.6
66°	4407.9	3660.3	3321.8
67°	4168.4	3425.0	3120.7
68°	3932.3	3221.0	2904.7
69°	3707.8	3002.1	2587.7
70°	3497.0	2728.8	2122.7
71°	3279.6	2352.5	1511.2
72°	3038.6	1823.2	961.8
73°	2749.8	1236.0	740.2
74°	2357.8	754.7	525.5
75°	1847.6	550.0	310.9
76°	1315.2	346.4	274.2
77°	881.4	294.3	245.3
78°	688.1	259.0	221.7
79°	500.4	230.4	200.8
80°	312.6	205.9	181.9
81°	261.0	184.3	164.4
82°	224.8	164.8	148.1
83°	193.6	146.3	132.4
84°	163.6	129.2	117.4
85°	132.4	112.5	103.0
86°	107.9	97.0	88.6
87°	87.0	82.1	76.3
88°	71.2	69.6	64.1
89°	55.7	57.2	51.8

REPORT NUMBER: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-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: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-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: P1445021

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)