

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: P1444967

Luminaire Tested: XAS180-SFPM (3000K-108W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444967
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-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 14539.8 lumens
Efficiency: 59.6%
Efficacy: 132.3 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

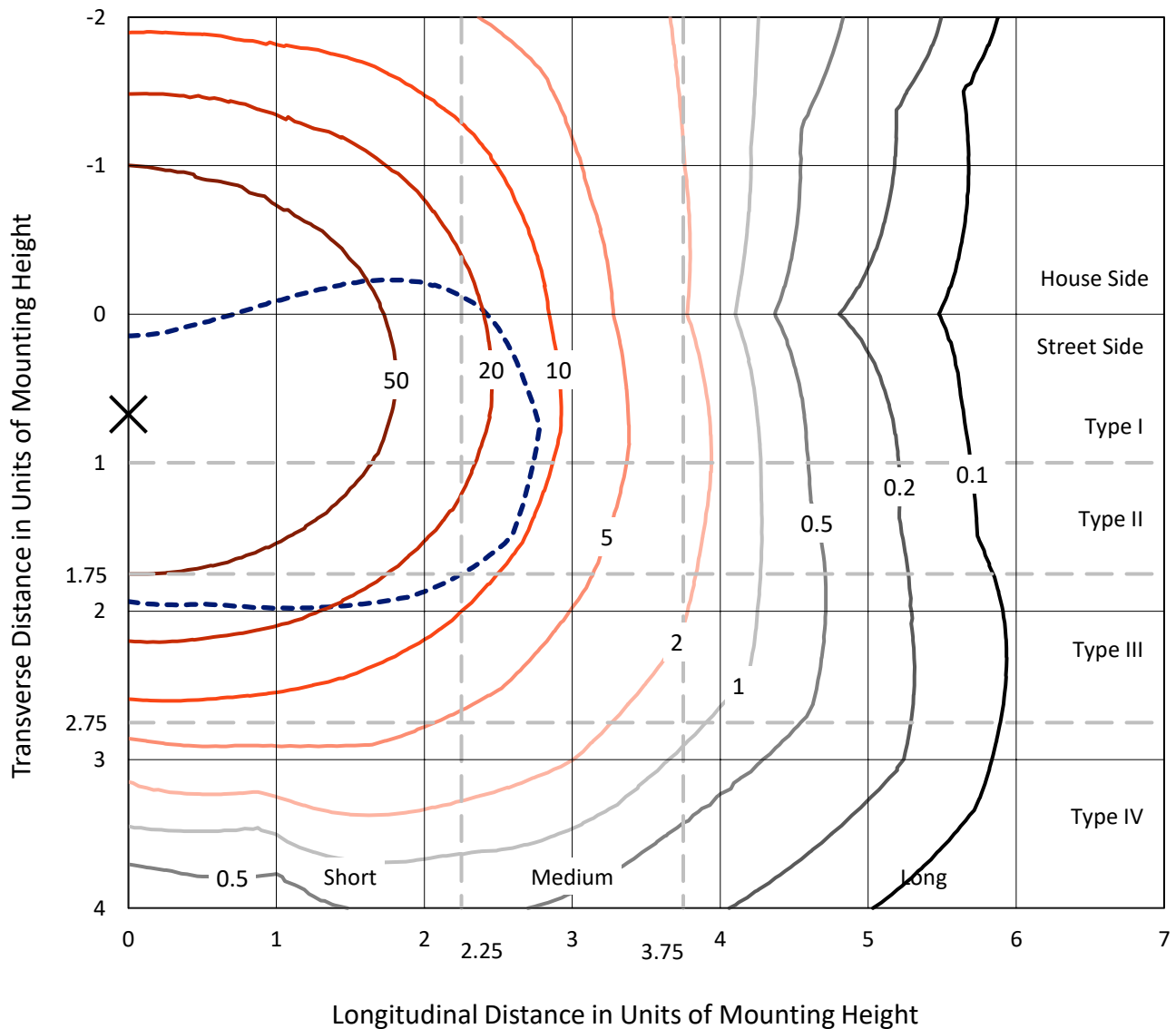
Input Watts (W): 109.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

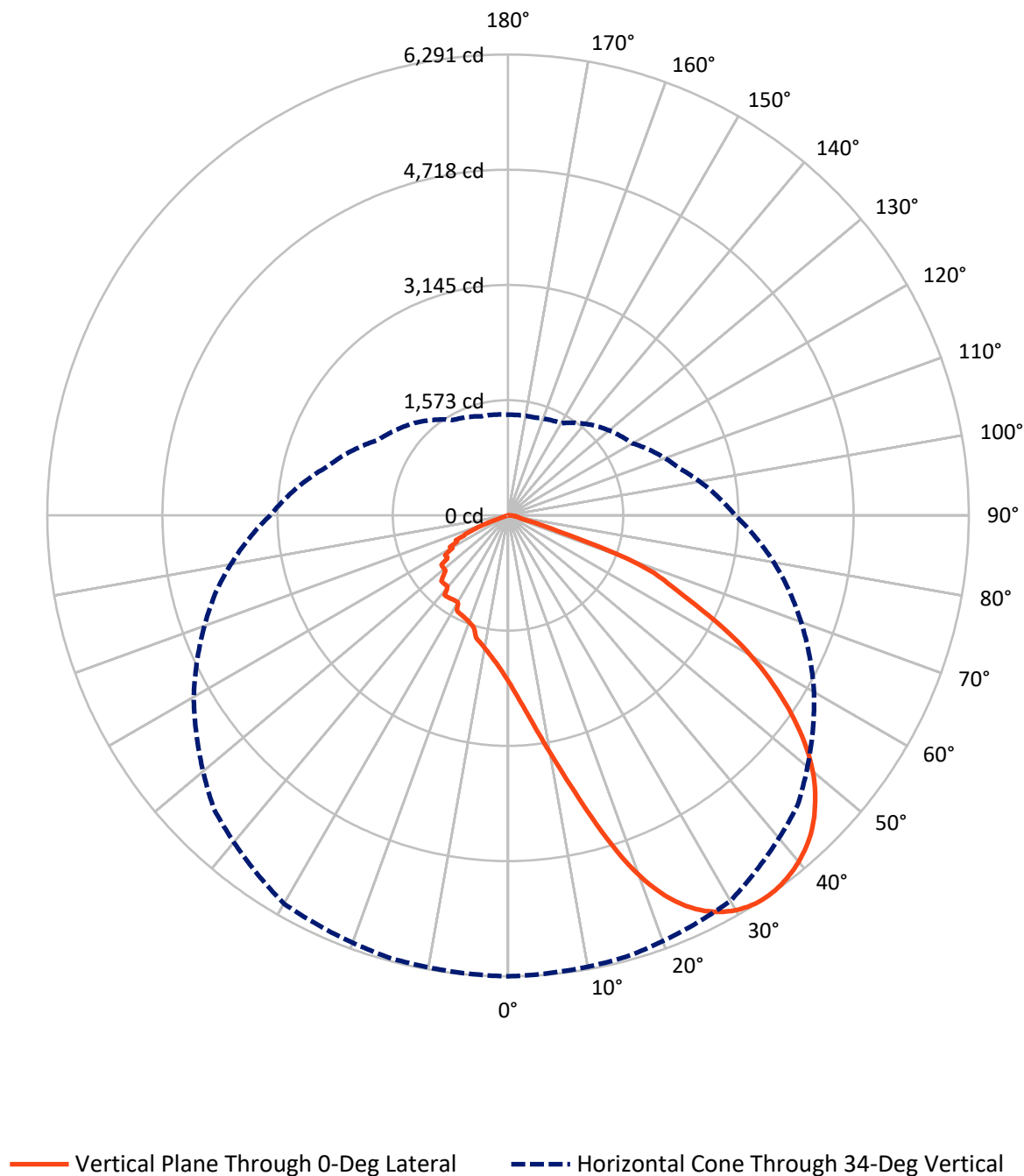


Based on 3 foot mounting height. Maximum calculated value = 492.8 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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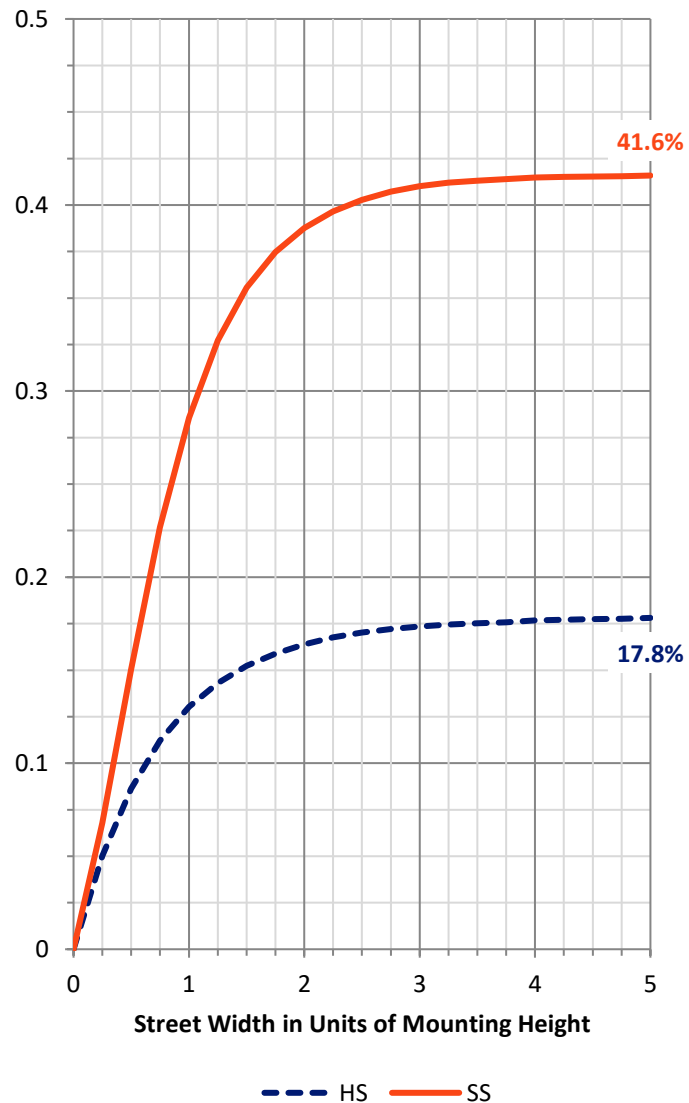
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4372.8	0.0	4372.8
	% Lamp	17.9	0.0	17.9
Street Side	Lumens	10167.0	0.0	10167.0
	% Lamp	41.7	0.0	41.7
Total	Lumens	14539.8	0.0	14539.8
	% Lamp	59.6	0.0	59.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	228.4	1.6	0.9
10°-20°	793.3	5.5	3.3
20°-30°	1539.1	10.6	6.3
30°-40°	2262.7	15.6	9.3
40°-50°	2807.7	19.3	11.5
50°-60°	2991.6	20.6	12.3
60°-70°	2600.8	17.9	10.7
70°-80°	1203.2	8.3	4.9
80°-90°	113.0	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°	14539.8	100.0	59.6
0°-180°	14539.8	100.0	59.6

Coefficient of Utilization



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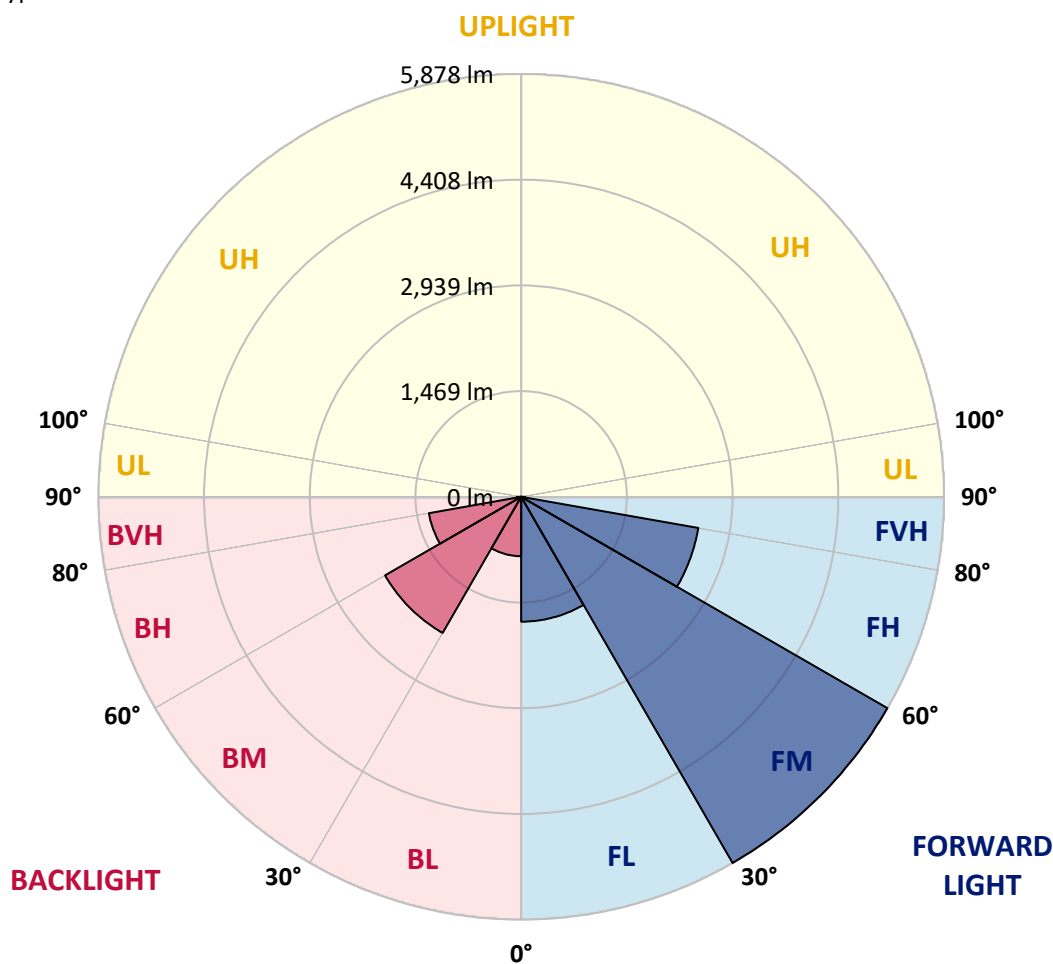
CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.3	7.1			
FM	(30°-60°)	5877.8	24.1			
FH	(60°-80°)	2500.9	10.2			G2/5000
FVH	(80°-90°)	53.0	0.2			G1/100
BL	(0°-30°)	825.5	3.4	B2/1000		
BM	(30°-60°)	2184.2	8.9	B2/2500		
BH	(60°-80°)	1303.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	60.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		9867.2	40.4			

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°	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9
1°	2356.2	2354.9	2349.2	2338.4	2324.1	2307.4	2277.1	2261.5	2247.3	2236.1	2227.9
2°	2433.6	2430.3	2415.1	2391.8	2360.9	2326.1	2278.2	2245.8	2217.1	2194.3	2176.5
3°	2517.7	2509.3	2485.5	2448.3	2401.8	2348.9	2281.9	2233.6	2190.8	2155.8	2130.0
4°	2610.1	2597.7	2564.0	2511.3	2445.2	2373.2	2287.4	2223.2	2166.9	2120.9	2088.2
5°	2711.0	2695.1	2648.0	2579.3	2492.3	2400.2	2294.8	2214.2	2145.4	2090.1	2051.2
6°	2821.8	2798.9	2740.9	2653.3	2545.1	2429.8	2303.8	2207.7	2125.6	2062.6	2017.2
7°	2939.0	2911.2	2839.8	2732.4	2600.4	2462.6	2316.4	2204.3	2109.5	2037.4	1985.0
8°	3067.2	3034.9	2947.6	2817.0	2660.2	2497.8	2331.3	2203.1	2095.7	2014.4	1956.3
9°	3206.8	3168.1	3062.2	2908.4	2723.8	2535.7	2347.7	2203.0	2084.8	1993.4	1929.2
10°	3352.7	3306.1	3185.1	3003.4	2791.4	2576.9	2366.7	2205.2	2074.5	1975.5	1903.8
11°	3511.2	3457.7	3315.8	3106.0	2863.0	2620.6	2387.4	2209.0	2066.2	1959.1	1880.9
12°	3683.1	3620.2	3453.8	3216.2	2937.7	2666.6	2409.6	2214.3	2060.0	1944.1	1860.3
13°	3866.1	3792.3	3603.4	3331.0	3017.5	2715.5	2433.1	2220.5	2054.6	1930.2	1841.3
14°	4065.0	3982.8	3763.9	3452.8	3100.8	2765.8	2456.4	2226.9	2049.9	1917.7	1823.5
15°	4277.8	4182.1	3933.9	3582.5	3188.2	2817.6	2482.3	2234.5	2046.1	1906.1	1805.6
16°	4497.4	4389.1	4110.2	3720.4	3279.6	2871.4	2509.6	2243.6	2043.3	1895.2	1789.5
17°	4713.4	4594.5	4283.3	3862.0	3376.3	2927.3	2537.8	2253.1	2041.3	1885.1	1773.2
18°	4928.7	4796.1	4457.2	4001.6	3478.0	2985.4	2566.4	2261.4	2039.9	1875.9	1748.1
19°	5128.7	4990.4	4628.6	4139.2	3582.6	3045.5	2586.4	2263.4	2035.7	1867.5	1689.6
20°	5311.8	5170.1	4795.2	4276.7	3687.0	3102.6	2611.4	2269.1	2026.3	1859.2	1648.1
21°	5476.0	5334.5	4951.8	4409.2	3793.1	3154.5	2636.7	2281.9	2019.3	1849.9	1637.0
22°	5618.9	5482.0	5099.2	4537.1	3896.6	3215.9	2669.9	2295.2	2020.5	1816.9	1627.0
23°	5745.3	5615.7	5233.8	4660.5	3999.3	3275.4	2705.0	2307.3	2021.8	1774.8	1618.4
24°	5855.8	5733.0	5361.0	4775.9	4089.7	3344.3	2737.8	2314.5	2019.1	1741.2	1612.0
25°	5951.5	5835.9	5475.8	4887.2	4176.6	3416.2	2765.4	2324.5	2016.3	1735.7	1605.8
26°	6032.2	5924.7	5580.5	4989.4	4262.4	3486.7	2794.6	2334.4	2014.5	1729.1	1600.8
27°	6100.1	6001.9	5677.3	5089.8	4345.1	3555.7	2827.2	2350.0	2018.5	1720.3	1595.5
28°	6156.1	6065.6	5761.4	5184.0	4422.2	3617.0	2860.7	2365.5	2024.4	1713.9	1590.6
29°	6202.6	6117.4	5835.1	5270.3	4497.8	3674.9	2900.1	2381.1	2029.5	1713.8	1586.7
30°	6237.8	6160.3	5900.4	5352.3	4574.6	3735.4	2939.6	2397.9	2022.7	1715.2	1582.9
31°	6265.2	6193.1	5956.6	5426.8	4645.6	3796.4	2980.7	2415.0	1992.6	1717.3	1575.7
32°	6281.8	6216.9	6003.0	5488.5	4712.4	3854.7	3021.4	2430.1	1986.2	1719.4	1566.0
33°	6290.2	6231.2	6043.0	5543.2	4773.0	3915.8	3062.4	2434.6	1962.4	1721.3	1504.9
34°	6290.8	6237.2	6073.9	5592.5	4826.0	3975.5	3102.0	2439.4	1965.0	1721.4	1452.3
35°	6283.6	6236.6	6097.2	5639.4	4873.2	4032.4	3131.2	2451.4	1968.9	1720.1	1449.2
36°	6269.9	6229.4	6110.9	5680.6	4917.5	4086.9	3155.3	2465.4	1974.0	1719.4	1450.3
37°	6249.1	6215.7	6117.4	5715.0	4960.7	4139.0	3182.9	2480.0	1982.8	1721.7	1451.3
38°	6222.9	6195.5	6118.0	5741.4	5003.0	4190.8	3217.1	2496.7	1988.3	1722.3	1450.3
39°	6190.7	6171.0	6111.5	5763.3	5040.5	4237.8	3247.8	2514.6	1989.6	1640.1	1449.4
40°	6153.8	6140.7	6096.6	5780.5	5076.6	4277.0	3280.8	2527.7	1998.3	1602.4	1453.0
41°	6109.7	6103.7	6076.9	5793.9	5107.9	4304.8	3312.5	2539.6	2011.3	1607.9	1456.5
42°	6059.0	6062.6	6050.1	5805.4	5141.2	4331.8	3345.0	2550.0	2024.5	1615.6	1460.5
43°	6001.3	6014.4	6016.7	5809.0	5172.5	4359.6	3375.6	2555.8	2038.4	1624.3	1462.0
44°	5936.1	5960.7	5978.0	5805.0	5200.6	4390.0	3401.1	2573.4	2053.4	1633.7	1415.0

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5862.5	5899.2	5931.9	5792.8	5225.6	4419.2	3421.3	2597.9	2069.0	1641.8	1351.0
46°	5778.1	5829.6	5880.8	5773.8	5248.9	4448.1	3439.7	2623.1	2075.5	1641.6	1352.6
47°	5689.2	5750.0	5823.3	5746.5	5268.9	4475.6	3451.3	2649.2	2074.8	1645.8	1356.6
48°	5595.6	5664.5	5759.0	5712.1	5283.9	4498.3	3459.9	2676.4	2081.9	1655.6	1358.5
49°	5489.5	5566.3	5686.4	5672.8	5292.5	4520.8	3477.9	2699.6	2045.8	1661.6	1356.7
50°	5371.6	5460.7	5603.9	5626.0	5292.9	4541.6	3502.8	2704.6	2013.8	1609.0	1357.0
51°	5244.1	5342.7	5510.3	5569.8	5283.0	4554.9	3527.7	2687.0	1984.1	1544.5	1359.1
52°	5106.8	5214.5	5408.4	5504.9	5269.2	4561.9	3550.2	2703.2	1998.9	1549.5	1298.2
53°	4960.7	5075.2	5295.2	5433.3	5247.2	4565.0	3570.1	2708.5	2012.2	1559.2	1232.4
54°	4803.6	4923.8	5173.7	5351.2	5218.2	4564.4	3587.7	2705.6	2019.4	1572.2	1238.7
55°	4643.4	4767.8	5042.2	5260.3	5179.6	4551.9	3602.1	2721.8	2030.7	1579.3	1247.6
56°	4470.3	4604.1	4899.9	5161.7	5136.3	4530.0	3605.1	2732.3	2049.0	1584.5	1257.6
57°	4297.9	4432.6	4753.6	5052.5	5086.3	4501.9	3601.5	2732.3	2063.7	1582.3	1267.3
58°	4118.7	4256.6	4600.1	4934.2	5026.8	4475.9	3587.2	2741.7	2070.3	1497.5	1272.3
59°	3931.6	4077.9	4438.8	4811.0	4957.2	4448.6	3573.7	2750.5	2084.1	1477.3	1171.7
60°	3731.8	3891.0	4273.3	4676.4	4874.9	4415.0	3561.0	2743.9	2027.7	1497.6	1180.1
61°	3518.2	3693.7	4100.1	4536.3	4781.3	4373.5	3538.4	2720.2	1995.7	1521.6	1183.5
62°	3295.1	3488.6	3925.4	4387.5	4682.0	4320.7	3513.2	2713.0	2008.8	1547.4	1149.2
63°	3061.2	3274.1	3748.0	4231.8	4570.5	4255.6	3478.3	2693.5	2018.6	1566.9	1115.1
64°	2834.8	3062.5	3570.7	4072.9	4446.1	4178.8	3430.2	2662.5	2026.0	1493.9	1107.6
65°	2629.6	2851.5	3386.7	3909.1	4312.3	4087.8	3371.4	2626.6	2016.2	1501.7	1120.1
66°	2449.1	2660.5	3207.0	3742.9	4169.5	3981.8	3294.3	2573.2	1961.0	1520.8	1054.5
67°	2300.8	2486.5	3028.6	3577.8	4016.7	3858.5	3212.9	2516.9	1900.2	1508.5	1039.3
68°	2141.6	2333.8	2854.8	3408.3	3844.4	3720.6	3091.1	2434.2	1914.9	1471.2	1065.7
69°	1907.8	2172.9	2691.5	3243.3	3662.4	3555.1	2906.7	2335.8	1923.8	1481.3	974.9
70°	1565.0	1960.4	2539.1	3076.3	3475.7	3350.0	2639.9	2203.2	1927.7	1441.6	970.5
71°	1114.2	1663.7	2386.3	2910.4	3264.3	3106.9	2333.8	2030.1	1888.4	1445.0	840.0
72°	709.1	1259.8	2214.5	2738.1	3029.6	2821.3	2071.4	1837.6	1816.9	1436.8	810.0
73°	545.7	833.9	2008.5	2560.8	2767.3	2511.4	1822.1	1668.9	1745.5	1415.4	751.4
74°	387.5	507.0	1730.1	2360.8	2489.0	2196.6	1474.6	1544.3	1667.9	1427.5	681.0
75°	229.2	373.5	1344.1	2104.9	2186.0	1857.7	1127.0	1306.5	1579.4	1397.8	655.8
76°	202.2	244.1	938.2	1789.1	1873.6	1435.6	779.3	1068.6	1501.4	1359.6	639.2
77°	180.8	209.7	612.0	1397.9	1549.2	944.6	425.6	830.1	1436.7	1229.6	603.2
78°	163.4	185.1	478.5	933.0	1202.6	543.4	222.0	479.1	1249.0	1099.6	544.1
79°	148.1	165.3	351.0	508.8	836.5	376.9	181.6	350.9	1061.4	968.3	462.0
80°	134.1	148.2	223.4	351.2	522.9	211.9	141.2	222.8	870.9	790.0	395.8
81°	121.2	132.8	188.9	200.3	343.3	178.8	101.3	96.7	483.5	591.1	357.7
82°	109.2	118.6	163.9	171.3	167.0	152.8	85.4	75.1	354.4	470.9	356.3
83°	97.7	105.2	141.8	149.5	129.6	124.0	71.2	58.0	225.3	373.0	292.6
84°	86.6	92.8	120.0	129.9	105.3	94.1	57.8	45.4	96.6	266.4	217.7
85°	75.9	81.1	97.0	111.2	83.9	71.8	44.7	35.0	84.8	197.1	153.8
86°	65.4	70.0	79.1	93.1	65.4	55.6	32.8	26.6	67.9	127.9	90.3
87°	56.3	59.5	64.0	73.4	51.1	41.9	25.2	20.6	50.3	59.4	55.4
88°	47.2	50.7	52.4	56.4	36.9	28.2	17.6	14.6	38.2	40.4	37.7
89°	38.2	41.9	40.9	39.4	22.8	16.5	9.9	8.7	26.0	21.4	20.1

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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: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444967
CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9
1°	2224.1	2224.2	2227.4	2235.7	2246.6	2260.8	2276.1	2280.8	2299.1	2316.1	2331.0
2°	2167.8	2166.2	2172.8	2186.9	2207.6	2233.5	2264.3	2286.0	2322.0	2356.8	2387.6
3°	2116.6	2113.1	2121.6	2141.5	2171.7	2209.9	2254.8	2294.0	2347.4	2399.4	2446.3
4°	2070.2	2066.6	2076.1	2100.4	2138.7	2188.9	2248.1	2303.5	2375.2	2445.7	2511.4
5°	2029.3	2024.1	2034.8	2064.0	2109.1	2170.5	2243.5	2315.3	2406.0	2497.1	2581.4
6°	1990.4	1984.1	1997.0	2030.6	2083.6	2153.8	2240.5	2329.2	2439.7	2553.1	2657.9
7°	1955.0	1947.2	1961.5	1999.3	2059.6	2140.3	2240.1	2346.4	2475.7	2611.9	2739.6
8°	1922.2	1912.9	1928.8	1971.3	2038.1	2128.3	2241.5	2363.6	2514.6	2674.6	2827.4
9°	1891.0	1880.3	1898.1	1945.0	2019.1	2118.3	2244.1	2383.5	2557.0	2742.0	2921.8
10°	1862.0	1850.5	1870.0	1921.1	2001.1	2109.7	2247.9	2405.4	2600.8	2813.0	3020.5
11°	1835.3	1822.3	1843.8	1899.4	1986.0	2102.6	2253.8	2430.3	2649.2	2888.9	3126.7
12°	1810.8	1797.0	1818.7	1879.0	1972.3	2097.2	2261.6	2456.1	2697.9	2969.5	3239.3
13°	1788.5	1772.7	1796.4	1860.2	1960.1	2093.6	2270.9	2483.8	2750.3	3053.8	3360.0
14°	1767.0	1749.4	1775.1	1842.9	1949.6	2091.2	2281.1	2512.1	2804.4	3141.6	3487.9
15°	1745.9	1726.6	1754.1	1826.2	1940.1	2090.7	2291.8	2542.3	2861.1	3237.2	3625.1
16°	1721.6	1675.6	1730.8	1810.3	1930.8	2090.8	2302.9	2574.0	2920.0	3335.4	3769.4
17°	1655.4	1618.4	1667.9	1794.7	1922.3	2091.3	2316.3	2605.7	2981.6	3440.7	3914.9
18°	1608.9	1588.6	1620.1	1770.4	1915.1	2092.6	2329.7	2638.8	3045.3	3549.4	4062.4
19°	1591.8	1571.3	1602.1	1716.6	1907.7	2092.8	2335.1	2667.2	3111.0	3659.9	4211.1
20°	1577.2	1555.6	1587.3	1676.4	1900.6	2086.2	2344.3	2693.4	3179.9	3771.9	4355.4
21°	1564.3	1542.6	1574.2	1661.4	1892.2	2081.8	2357.9	2723.1	3242.5	3885.4	4493.8
22°	1553.9	1530.8	1563.8	1652.4	1859.8	2085.0	2375.3	2759.5	3306.0	3999.0	4624.8
23°	1544.9	1520.8	1555.5	1644.6	1820.9	2089.4	2392.6	2798.7	3378.4	4107.8	4746.3
24°	1536.5	1511.6	1547.7	1638.5	1792.5	2093.8	2407.8	2839.0	3450.6	4215.1	4862.4
25°	1529.0	1502.8	1540.3	1633.4	1784.7	2092.6	2418.4	2877.0	3528.7	4307.9	4970.7
26°	1521.5	1495.6	1534.0	1629.4	1781.5	2092.5	2432.3	2909.2	3607.1	4393.0	5073.9
27°	1515.2	1489.6	1528.2	1625.9	1774.2	2093.6	2445.3	2945.3	3686.4	4477.4	5171.0
28°	1510.1	1484.4	1523.5	1622.4	1768.8	2100.8	2464.4	2983.0	3760.5	4558.2	5263.5
29°	1504.8	1462.4	1518.4	1619.7	1768.3	2107.6	2484.0	3025.0	3825.8	4630.5	5347.8
30°	1464.0	1382.8	1484.0	1617.6	1771.1	2102.3	2503.8	3068.8	3891.6	4704.2	5427.8
31°	1394.9	1367.5	1413.8	1610.9	1774.5	2085.5	2523.2	3112.9	3957.2	4774.9	5502.3
32°	1383.6	1367.9	1401.2	1603.4	1779.0	2069.2	2541.9	3157.6	4018.8	4841.6	5569.8
33°	1382.6	1369.7	1400.7	1557.6	1783.4	2053.3	2550.2	3201.8	4079.3	4901.4	5626.2
34°	1383.2	1373.1	1401.3	1502.6	1787.7	2053.9	2558.6	3246.6	4140.3	4954.7	5674.4
35°	1384.4	1377.7	1403.1	1495.1	1788.5	2058.8	2572.7	3284.5	4198.5	5000.6	5716.9
36°	1386.5	1381.6	1405.8	1497.2	1788.9	2064.9	2588.5	3313.9	4252.9	5043.3	5757.0
37°	1387.3	1385.0	1407.6	1500.0	1789.3	2072.7	2606.1	3345.3	4304.5	5085.2	5791.9
38°	1387.5	1388.1	1408.8	1499.7	1789.6	2081.7	2625.7	3380.3	4353.9	5126.0	5820.9
39°	1387.1	1388.3	1409.8	1499.1	1722.4	2085.5	2647.0	3414.2	4400.3	5162.1	5841.7
40°	1384.3	1312.1	1408.2	1502.2	1683.0	2092.1	2667.0	3450.0	4440.8	5195.4	5859.4
41°	1306.1	1272.9	1339.5	1507.0	1683.7	2106.6	2680.8	3484.2	4470.3	5226.8	5870.1
42°	1262.9	1273.5	1288.9	1512.0	1691.2	2121.9	2691.5	3517.2	4494.5	5258.6	5876.2
43°	1262.1	1275.6	1288.4	1515.6	1699.9	2138.0	2698.3	3551.4	4519.6	5285.7	5876.5
44°	1263.2	1277.2	1290.6	1483.5	1709.8	2154.8	2718.9	3583.7	4543.4	5310.5	5871.2

REPORT NUMBER: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1264.7	1277.2	1293.1	1411.5	1719.4	2170.8	2744.9	3607.8	4568.4	5330.5	5856.2
46°	1266.1	1275.3	1295.1	1407.9	1721.7	2179.3	2771.9	3626.0	4593.5	5348.2	5831.4
47°	1266.9	1229.4	1296.7	1412.4	1724.2	2180.5	2799.1	3637.3	4614.7	5361.8	5797.2
48°	1224.9	1183.6	1296.6	1414.9	1735.6	2189.0	2825.9	3643.5	4633.8	5369.4	5758.1
49°	1183.0	1138.5	1220.7	1412.6	1742.2	2182.9	2851.9	3659.6	4647.6	5371.6	5711.4
50°	1141.2	1135.9	1165.9	1412.3	1706.8	2134.3	2868.1	3680.2	4657.9	5362.6	5660.2
51°	1145.5	1134.7	1169.7	1415.2	1629.3	2105.2	2855.3	3698.4	4663.3	5342.2	5601.2
52°	1151.6	1134.8	1175.5	1369.1	1630.1	2115.3	2847.1	3715.0	4662.4	5316.1	5533.6
53°	1158.2	1134.5	1181.7	1291.7	1642.3	2130.5	2857.5	3727.8	4653.7	5282.8	5457.8
54°	1163.4	1129.3	1153.8	1298.3	1657.7	2138.0	2853.4	3736.3	4639.3	5242.9	5370.9
55°	1165.8	1022.4	1126.0	1308.3	1666.8	2143.0	2851.3	3741.9	4612.9	5196.7	5278.8
56°	1064.8	1005.7	1098.2	1320.1	1674.4	2162.6	2854.9	3735.9	4573.4	5145.8	5176.9
57°	1046.1	1010.3	1075.4	1332.1	1673.2	2177.1	2848.8	3717.9	4530.4	5089.6	5069.4
58°	1050.8	1015.5	1080.3	1340.8	1601.0	2181.7	2849.0	3690.9	4486.2	5021.3	4952.5
59°	1057.6	970.7	1086.4	1242.8	1576.8	2190.9	2850.4	3664.7	4443.6	4946.8	4828.1
60°	980.8	882.0	1017.7	1244.3	1598.9	2144.1	2833.7	3635.8	4394.8	4860.6	4692.4
61°	935.0	891.8	968.6	1251.2	1623.3	2091.5	2798.3	3599.4	4335.6	4764.0	4547.5
62°	946.3	901.0	981.1	1264.5	1648.4	2092.9	2781.8	3556.7	4268.2	4657.9	4400.3
63°	958.0	788.8	991.5	1187.5	1668.5	2093.8	2760.0	3507.0	4191.0	4537.6	4244.7
64°	833.9	778.7	863.7	1177.6	1596.1	2094.2	2719.4	3440.4	4102.3	4411.5	4087.0
65°	841.8	788.2	867.5	1155.3	1597.7	2080.5	2677.5	3357.1	3999.5	4273.4	3921.2
66°	847.6	658.4	878.6	1133.0	1607.8	2029.8	2616.0	3263.9	3877.3	4129.0	3750.0
67°	701.9	637.1	728.5	1112.0	1596.8	1951.7	2546.3	3151.8	3745.0	3970.2	3580.4
68°	713.8	491.8	737.0	1136.1	1555.5	1956.6	2443.9	2984.2	3586.5	3796.2	3408.2
69°	570.8	443.6	593.0	1044.9	1553.0	1956.2	2311.3	2744.8	3397.6	3609.0	3242.6
70°	545.1	303.6	559.7	1034.6	1515.6	1951.6	2139.0	2428.8	3163.2	3401.5	3066.3
71°	361.0	163.6	362.2	901.5	1499.0	1905.2	1939.8	2129.8	2882.8	3170.2	2884.6
72°	223.9	25.0	211.9	871.2	1488.4	1819.6	1744.4	1864.5	2566.1	2913.3	2699.9
73°	184.9	0.3	168.6	790.5	1456.9	1731.8	1564.9	1585.5	2239.4	2631.2	2499.9
74°	166.9	0.2	155.4	703.1	1454.0	1644.4	1343.3	1269.5	1916.7	2327.4	2280.0
75°	137.0	0.2	133.1	661.3	1379.8	1550.6	1121.7	877.8	1569.8	1996.4	2007.6
76°	107.2	0.2	110.7	638.3	1265.9	1445.3	899.2	510.2	1143.9	1667.2	1683.3
77°	77.6	0.2	88.4	601.1	1152.0	1266.8	554.2	338.2	702.1	1353.5	1288.6
78°	57.8	0.3	71.2	541.5	1037.9	1088.3	289.0	168.5	531.3	1023.9	848.5
79°	57.0	0.3	71.2	458.3	898.2	905.8	194.0	131.7	366.0	683.3	628.1
80°	77.7	0.3	87.0	399.8	741.3	548.7	101.3	111.3	200.7	508.6	413.3
81°	95.8	0.3	91.4	372.8	560.7	396.2	80.2	94.9	171.8	335.6	198.5
82°	86.3	0.4	56.2	350.8	433.0	243.6	65.2	79.6	146.9	162.6	171.1
83°	53.6	0.4	39.6	292.1	308.4	93.1	52.6	65.7	119.8	127.2	150.2
84°	29.2	0.5	23.0	209.7	222.4	78.7	41.8	53.5	93.2	103.6	130.4
85°	21.8	0.6	6.6	127.3	136.4	62.5	32.8	41.2	71.1	82.1	111.4
86°	14.3	0.6	5.8	46.9	52.5	46.1	24.9	29.0	56.5	63.5	92.9
87°	7.0	0.7	5.8	32.5	26.9	33.0	18.9	19.1	41.9	49.7	72.5
88°	4.8	0.8	5.0	18.2	18.6	22.9	12.9	11.0	27.3	35.9	55.7
89°	3.4	0.9	2.8	4.1	10.3	12.8	6.8	7.7	15.8	22.2	39.0

REPORT NUMBER: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444967
CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2284.9	2284.9	2284.9
1°	2343.4	2352.2	2356.2
2°	2411.0	2427.5	2433.6
3°	2483.9	2508.5	2517.7
4°	2564.7	2599.1	2610.1
5°	2650.2	2696.0	2711.0
6°	2745.1	2802.7	2821.8
7°	2846.3	2914.7	2939.0
8°	2954.0	3037.6	3067.2
9°	3070.7	3171.2	3206.8
10°	3194.5	3312.5	3352.7
11°	3330.5	3466.5	3511.2
12°	3473.5	3631.0	3683.1
13°	3628.7	3809.4	3866.1
14°	3791.5	3997.5	4065.0
15°	3966.2	4197.4	4277.8
16°	4141.8	4400.7	4497.4
17°	4322.1	4610.4	4713.4
18°	4502.6	4817.1	4928.7
19°	4676.3	5011.8	5128.7
20°	4842.8	5194.8	5311.8
21°	4999.9	5362.4	5476.0
22°	5145.2	5510.1	5618.9
23°	5283.7	5645.0	5745.3
24°	5412.8	5760.4	5855.8
25°	5529.8	5861.7	5951.5
26°	5635.8	5946.9	6032.2
27°	5731.5	6020.9	6100.1
28°	5816.1	6082.9	6156.1
29°	5889.6	6133.5	6202.6
30°	5953.8	6174.6	6237.8
31°	6008.4	6206.8	6265.2
32°	6053.1	6230.6	6281.8
33°	6088.8	6244.3	6290.2
34°	6118.0	6250.3	6290.8
35°	6138.9	6248.5	6283.6
36°	6151.4	6239.5	6269.9
37°	6156.1	6224.7	6249.1
38°	6154.4	6203.8	6222.9
39°	6144.8	6177.6	6190.7
40°	6128.7	6146.6	6153.8
41°	6107.3	6110.9	6109.7
42°	6079.3	6069.8	6059.0
43°	6044.2	6023.3	6001.3
44°	6002.5	5969.1	5936.1

REPORT NUMBER: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5956.8	5909.2	5862.5
46°	5905.3	5841.8	5778.1
47°	5846.7	5763.6	5689.2
48°	5783.1	5681.8	5595.6
49°	5710.3	5586.5	5489.5
50°	5629.4	5484.2	5371.6
51°	5537.1	5369.6	5244.1
52°	5434.5	5243.1	5106.8
53°	5320.4	5106.3	4960.7
54°	5198.6	4959.1	4803.6
55°	5069.7	4804.4	4643.4
56°	4928.1	4637.2	4470.3
57°	4781.6	4461.0	4297.9
58°	4627.5	4285.9	4118.7
59°	4466.3	4104.4	3931.6
60°	4297.6	3917.6	3731.8
61°	4125.0	3718.8	3518.2
62°	3949.6	3517.0	3295.1
63°	3775.1	3306.4	3061.2
64°	3602.6	3096.9	2834.8
65°	3426.9	2888.3	2629.6
66°	3249.8	2698.7	2449.1
67°	3073.3	2525.2	2300.8
68°	2899.2	2374.8	2141.6
69°	2733.7	2213.4	1907.8
70°	2578.3	2011.9	1565.0
71°	2418.0	1734.4	1114.2
72°	2240.3	1344.2	709.1
73°	2027.4	911.3	545.7
74°	1738.4	556.4	387.5
75°	1362.2	405.5	229.2
76°	969.6	255.4	202.2
77°	649.8	217.0	180.8
78°	507.3	191.0	163.4
79°	368.9	169.9	148.1
80°	230.5	151.8	134.1
81°	192.4	135.9	121.2
82°	165.8	121.5	109.2
83°	142.7	107.8	97.7
84°	120.6	95.3	86.6
85°	97.6	82.9	75.9
86°	79.5	71.6	65.4
87°	64.1	60.5	56.3
88°	52.5	51.3	47.2
89°	41.0	42.2	38.2

REPORT NUMBER: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1444967

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)