

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: P1444986

Luminaire Tested: XAS180-SFPM (3000K-72W-T4)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444986
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-72W-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 4
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 11765.4 lumens
Efficiency: 41.1%
Efficacy: 163.9 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): 71.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

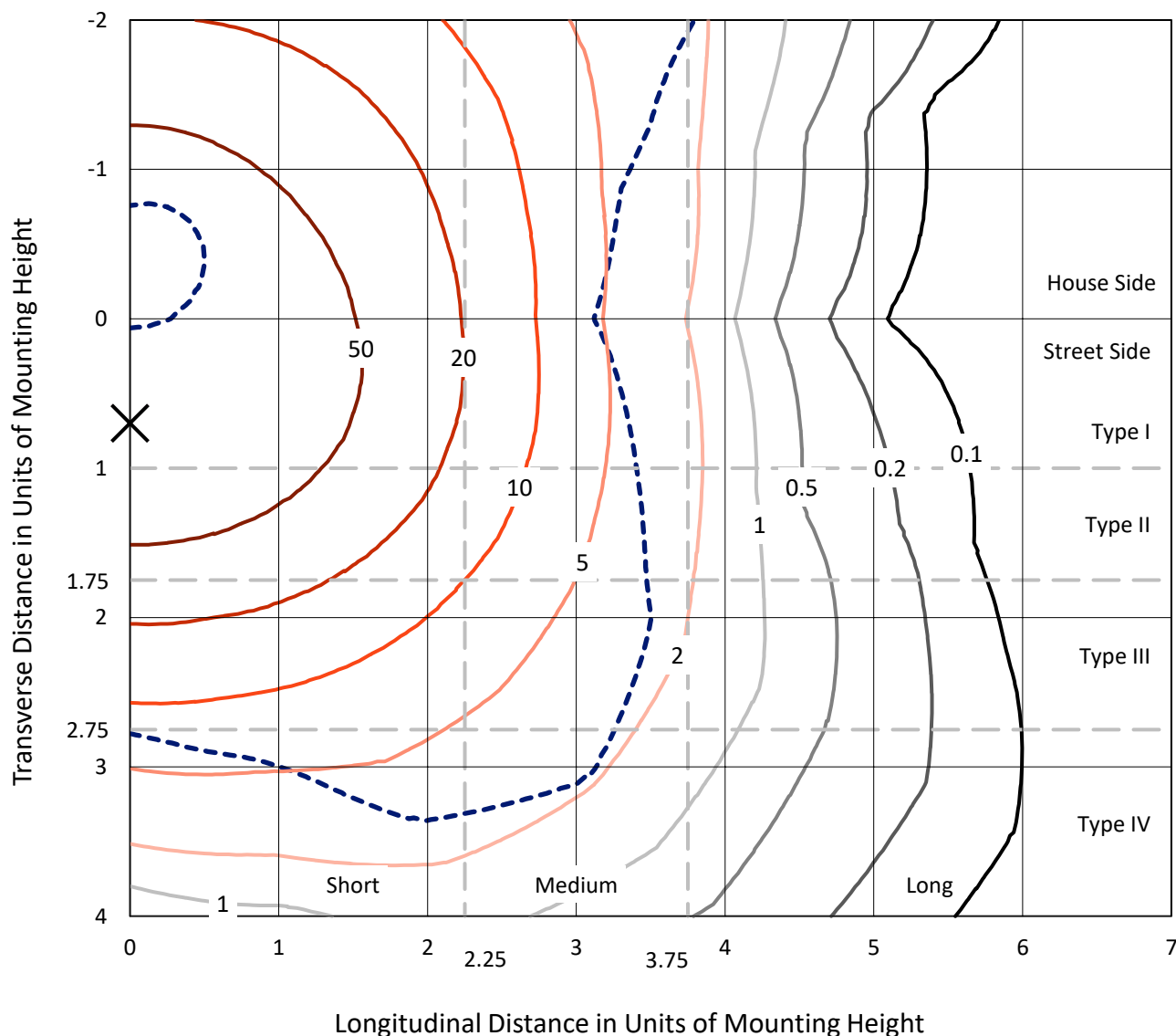
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

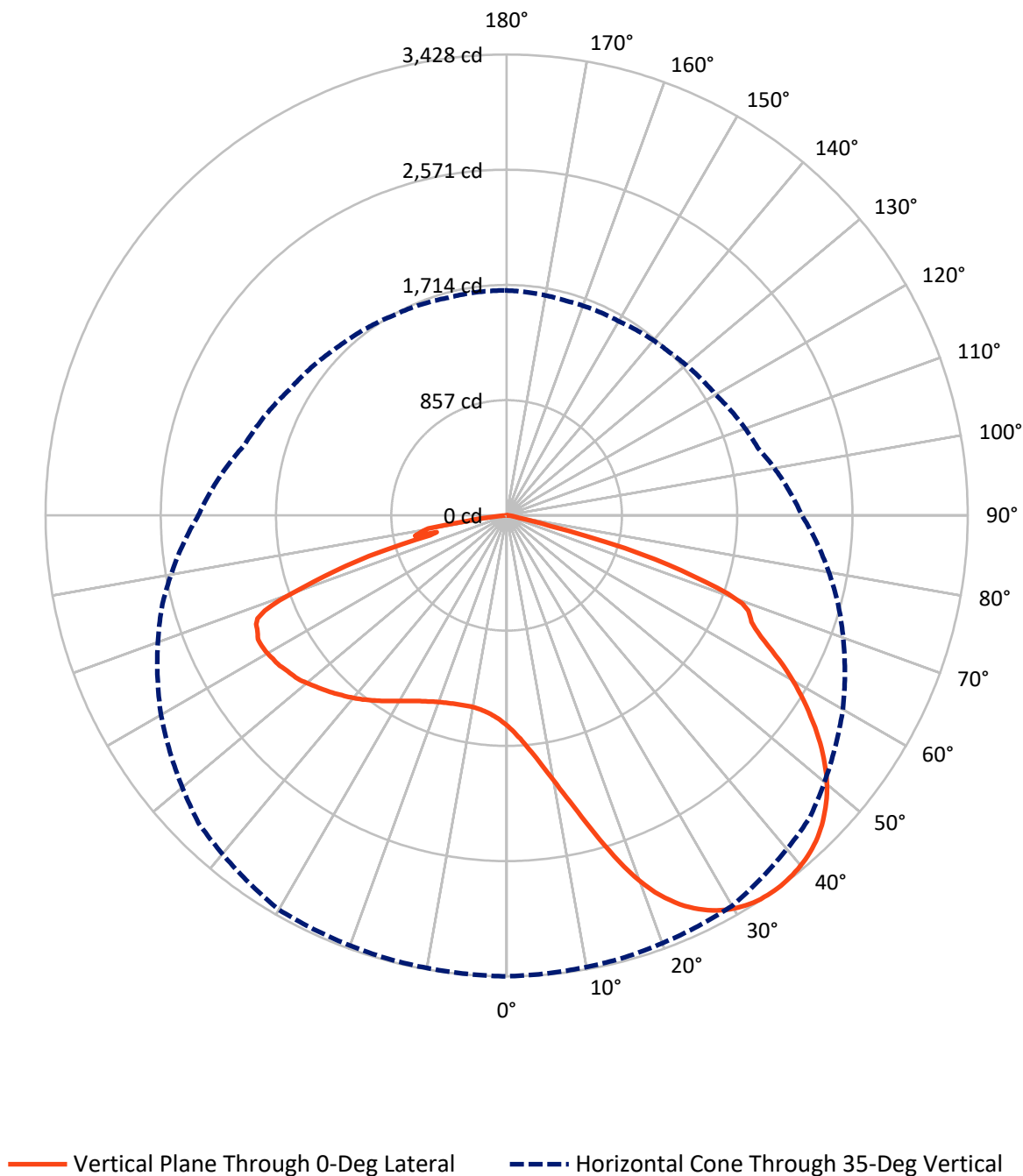


Based on 3 foot mounting height. Maximum calculated value = 271.6 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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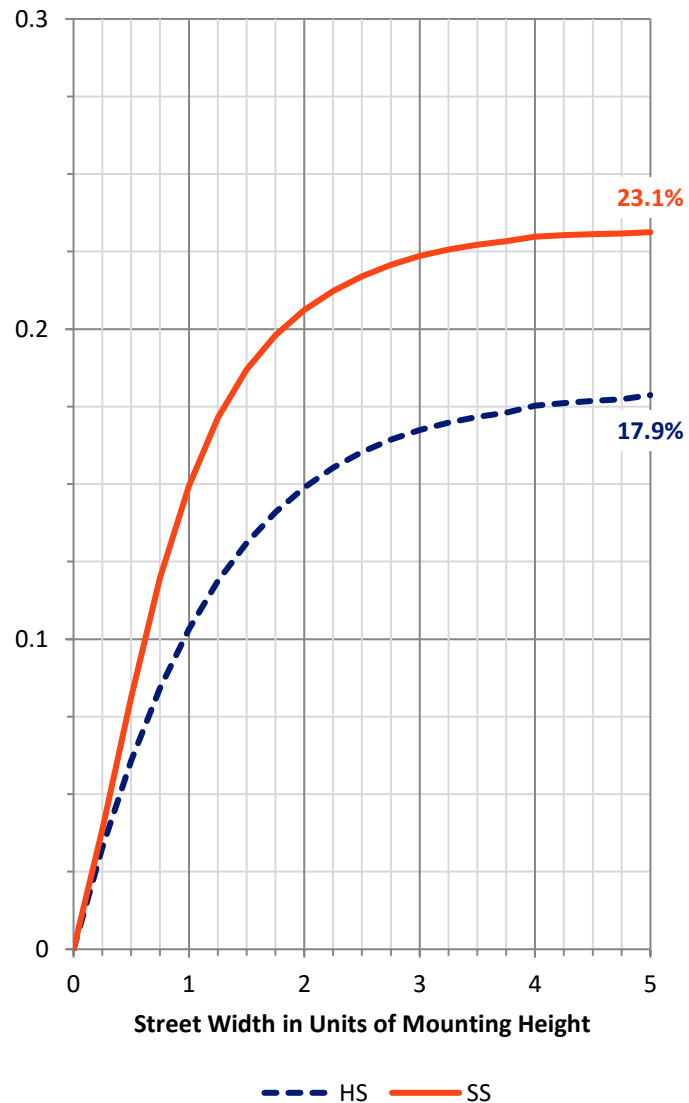
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5150.7	0.0	5150.7
	% Lamp	18.0	0.0	18.0
Street Side	Lumens	6614.7	0.0	6614.7
	% Lamp	23.1	0.0	23.1
Total	Lumens	11765.4	0.0	11765.4
	% Lamp	41.1	0.0	41.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	155.9	1.3	0.5
10°-20°	529.0	4.5	1.8
20°-30°	1015.4	8.6	3.5
30°-40°	1529.6	13.0	5.3
40°-50°	2000.4	17.0	7.0
50°-60°	2352.5	20.0	8.2
60°-70°	2454.4	20.9	8.6
70°-80°	1571.4	13.4	5.5
80°-90°	156.8	1.3	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°	11765.4	100.0	41.1
0°-180°	11765.4	100.0	41.1

Coefficient of Utilization



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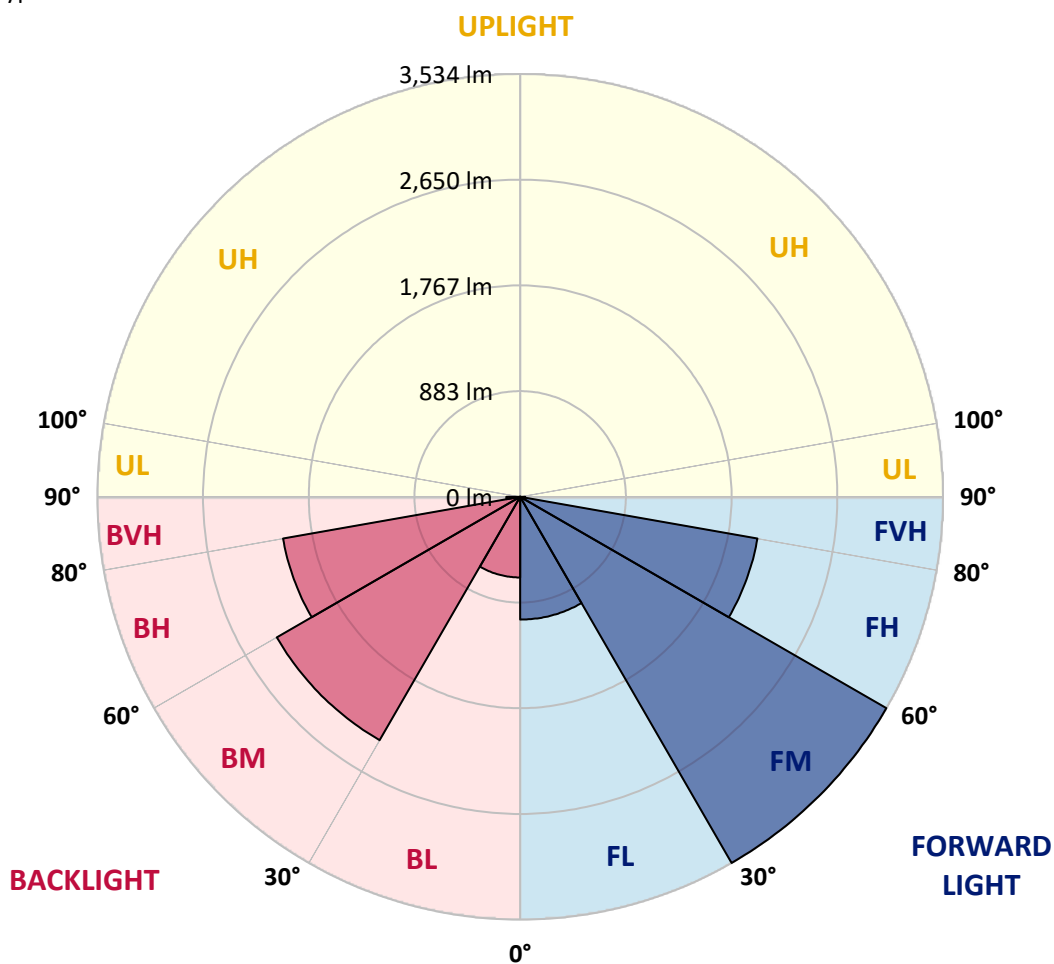
CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1026.0	3.6			
FM	(30°-60°)	3533.8	12.3			
FH	(60°-80°)	2013.5	7.0			G2/5000
FVH	(80°-90°)	41.3	0.1			G1/100
BL	(0°-30°)	674.2	2.4	B2/1000		
BM	(30°-60°)	2348.6	8.2	B2/2500		
BH	(60°-80°)	2012.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	115.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		16862.6	58.9			

BUG Rating: B3-U0-G3

Type IV Short



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CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3
1°	1598.0	1597.6	1595.4	1591.6	1586.3	1580.7	1568.6	1562.1	1557.0	1552.6	1549.9
2°	1628.9	1627.4	1622.0	1612.8	1600.6	1587.8	1569.0	1556.9	1546.3	1537.6	1532.0
3°	1663.7	1660.9	1651.2	1636.3	1618.0	1597.6	1571.8	1553.4	1537.6	1525.0	1516.2
4°	1702.4	1697.6	1683.7	1662.8	1637.0	1608.9	1575.5	1551.4	1530.7	1514.7	1503.3
5°	1746.0	1739.4	1720.4	1691.8	1658.3	1622.1	1580.6	1550.3	1525.3	1505.9	1492.2
6°	1794.0	1784.8	1761.1	1724.4	1681.5	1636.2	1586.6	1550.8	1521.4	1499.1	1483.1
7°	1846.3	1834.9	1805.4	1760.8	1706.8	1652.2	1594.9	1552.8	1518.9	1493.8	1476.2
8°	1903.5	1889.1	1853.6	1799.0	1734.2	1670.5	1604.7	1556.6	1518.0	1489.4	1470.4
9°	1965.3	1949.5	1905.4	1840.4	1765.0	1689.6	1615.5	1561.0	1518.7	1486.9	1466.1
10°	2032.1	2011.7	1961.3	1885.6	1798.2	1710.5	1627.9	1567.2	1520.5	1486.4	1463.1
11°	2104.7	2081.7	2021.5	1934.3	1832.9	1733.2	1641.3	1574.8	1523.5	1487.0	1461.9
12°	2183.0	2154.6	2085.3	1984.6	1868.7	1758.0	1655.9	1582.9	1527.7	1488.6	1462.8
13°	2266.0	2234.4	2154.7	2038.6	1907.4	1784.1	1671.2	1591.9	1532.5	1491.5	1464.6
14°	2357.7	2320.8	2228.7	2096.3	1948.5	1810.4	1686.8	1600.9	1537.9	1495.2	1466.7
15°	2455.5	2413.5	2306.9	2156.9	1990.7	1837.7	1703.5	1610.6	1544.3	1499.7	1470.0
16°	2556.2	2507.8	2388.4	2222.1	2036.1	1866.8	1721.4	1621.7	1551.1	1504.8	1474.2
17°	2656.7	2603.3	2469.6	2288.9	2083.5	1896.9	1740.1	1632.8	1558.9	1510.1	1479.0
18°	2755.7	2696.7	2551.2	2356.2	2133.0	1927.7	1759.6	1645.5	1567.4	1516.8	1483.5
19°	2848.8	2786.3	2631.6	2421.5	2184.2	1959.9	1779.8	1658.6	1575.9	1523.8	1489.2
20°	2934.5	2870.9	2707.9	2486.6	2236.3	1993.5	1801.2	1672.6	1585.2	1531.2	1495.6
21°	3011.7	2949.3	2781.9	2549.8	2287.8	2028.4	1822.9	1687.2	1594.9	1538.3	1502.6
22°	3078.3	3016.4	2851.1	2611.3	2339.7	2064.2	1845.7	1702.4	1606.0	1546.6	1510.4
23°	3138.7	3081.0	2915.5	2670.2	2391.1	2101.7	1869.3	1717.9	1618.1	1555.5	1519.0
24°	3191.7	3136.8	2975.3	2725.6	2441.4	2140.1	1893.3	1734.3	1630.5	1565.6	1528.3
25°	3237.3	3186.5	3030.7	2779.8	2490.6	2179.1	1918.7	1751.3	1643.3	1576.5	1537.8
26°	3276.5	3230.6	3082.5	2830.5	2538.1	2217.8	1944.4	1768.8	1656.7	1587.7	1548.2
27°	3311.9	3268.0	3128.3	2879.1	2584.2	2257.2	1970.3	1786.6	1670.2	1599.5	1559.1
28°	3341.7	3299.9	3169.7	2925.8	2627.8	2296.3	1997.1	1803.8	1684.5	1612.4	1570.5
29°	3366.4	3327.8	3207.5	2970.1	2669.2	2335.2	2024.5	1822.0	1698.4	1626.3	1582.6
30°	3385.9	3350.0	3241.3	3012.9	2710.2	2372.9	2052.8	1840.4	1713.6	1640.1	1595.0
31°	3401.9	3367.9	3270.9	3052.3	2748.2	2410.3	2081.1	1858.4	1729.2	1654.2	1608.0
32°	3413.5	3382.5	3297.0	3089.0	2784.7	2447.1	2109.7	1877.4	1744.8	1668.8	1622.1
33°	3422.3	3393.1	3319.9	3124.0	2819.8	2482.9	2138.2	1897.0	1761.2	1683.3	1636.6
34°	3426.3	3399.3	3338.1	3155.2	2853.3	2517.8	2166.9	1915.7	1777.8	1698.4	1651.4
35°	3428.2	3402.3	3353.4	3184.2	2886.3	2551.5	2195.5	1934.8	1794.7	1713.9	1667.2
36°	3427.1	3403.2	3365.6	3210.8	2916.7	2584.1	2224.0	1953.8	1812.0	1729.7	1683.7
37°	3422.4	3400.5	3374.2	3235.0	2946.2	2615.6	2252.0	1973.6	1829.5	1746.3	1700.6
38°	3415.3	3395.7	3380.0	3256.7	2974.5	2646.5	2280.8	1993.7	1846.9	1763.5	1717.7
39°	3406.6	3389.7	3382.0	3275.1	3001.8	2676.8	2309.6	2013.8	1864.8	1780.8	1734.7
40°	3395.1	3381.1	3382.0	3291.8	3027.5	2706.2	2338.9	2035.2	1883.1	1798.5	1751.9
41°	3379.2	3369.3	3378.3	3305.9	3051.5	2734.4	2366.7	2057.7	1902.1	1816.5	1769.5
42°	3361.8	3354.8	3372.1	3318.0	3075.2	2762.1	2393.6	2080.3	1921.2	1835.2	1787.4
43°	3340.5	3338.8	3363.7	3326.9	3096.7	2789.6	2420.2	2102.2	1940.2	1854.8	1805.5
44°	3315.6	3320.4	3352.2	3332.1	3117.0	2815.9	2444.5	2125.1	1959.9	1874.3	1824.3

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CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3286.7	3297.6	3336.5	3336.0	3136.9	2842.2	2469.5	2149.2	1980.9	1894.2	1843.3
46°	3252.7	3273.5	3320.6	3336.6	3155.8	2868.2	2493.8	2174.2	2002.5	1914.6	1862.8
47°	3216.3	3243.8	3300.9	3334.4	3174.0	2894.5	2517.3	2199.4	2024.4	1935.1	1883.1
48°	3177.2	3211.5	3278.2	3328.2	3190.2	2918.5	2539.4	2224.9	2047.3	1956.1	1903.6
49°	3132.8	3174.9	3253.3	3321.0	3204.5	2941.8	2560.6	2250.7	2070.8	1978.3	1924.7
50°	3084.8	3133.6	3223.3	3309.1	3217.1	2964.7	2581.0	2276.2	2094.5	2000.6	1946.8
51°	3030.8	3088.5	3190.4	3294.9	3227.9	2985.7	2601.6	2302.1	2119.4	2024.7	1968.9
52°	2973.4	3037.4	3152.7	3276.1	3236.6	3005.0	2620.8	2329.0	2144.9	2049.6	1992.9
53°	2912.3	2982.9	3112.6	3253.6	3243.0	3022.5	2639.0	2354.4	2170.7	2074.3	2015.8
54°	2849.1	2922.7	3068.0	3228.8	3245.4	3038.0	2656.3	2379.3	2198.1	2100.0	2040.3
55°	2782.4	2858.7	3018.5	3199.5	3244.0	3050.5	2671.4	2401.7	2225.7	2127.1	2065.5
56°	2711.3	2793.4	2964.7	3166.3	3239.8	3060.0	2685.2	2423.4	2253.5	2154.9	2091.3
57°	2642.4	2725.1	2909.9	3130.4	3229.9	3066.0	2697.4	2443.2	2281.4	2184.2	2117.9
58°	2569.3	2655.6	2851.2	3090.5	3215.0	3067.1	2705.6	2461.1	2309.4	2214.7	2142.9
59°	2497.2	2584.9	2792.3	3046.1	3195.2	3062.8	2710.4	2477.2	2337.5	2246.8	2167.5
60°	2419.7	2513.7	2730.3	2998.4	3170.0	3053.3	2712.8	2491.0	2365.6	2279.3	2191.9
61°	2339.3	2438.7	2668.4	2949.0	3139.0	3039.2	2710.1	2502.0	2393.8	2312.3	2216.5
62°	2255.2	2362.3	2607.0	2895.7	3104.0	3017.8	2702.5	2509.8	2420.9	2345.0	2240.6
63°	2172.4	2285.4	2546.2	2840.0	3064.9	2988.2	2688.4	2514.2	2447.6	2377.1	2263.9
64°	2094.4	2210.8	2485.9	2783.5	3018.9	2951.0	2667.5	2515.2	2473.7	2409.2	2286.2
65°	2031.5	2142.7	2427.2	2725.6	2969.3	2906.7	2641.4	2511.0	2498.7	2441.7	2307.3
66°	1985.2	2086.5	2370.8	2668.0	2913.2	2853.5	2605.8	2500.6	2520.5	2477.6	2326.4
67°	1959.0	2045.5	2319.8	2611.3	2849.4	2793.7	2560.0	2483.4	2538.8	2511.4	2344.2
68°	1931.7	2017.5	2275.2	2555.3	2778.7	2723.5	2479.8	2453.3	2552.4	2543.3	2343.5
69°	1869.4	1990.2	2239.0	2499.4	2700.0	2631.1	2351.1	2393.7	2557.4	2572.0	2333.9
70°	1746.5	1940.1	2210.4	2443.1	2617.4	2501.9	2172.8	2294.6	2554.1	2595.3	2335.5
71°	1560.3	1840.9	2184.6	2389.6	2518.9	2334.2	1955.6	2151.3	2530.0	2610.1	2322.0
72°	1359.2	1679.3	2153.9	2334.3	2398.4	2135.3	1750.2	1985.4	2471.2	2604.2	2294.6
73°	1151.5	1470.3	2105.0	2275.0	2258.3	1932.2	1577.6	1820.8	2378.3	2572.4	2257.1
74°	912.0	1245.1	2009.9	2203.6	2101.0	1734.4	1371.7	1664.7	2258.9	2513.5	2183.2
75°	611.6	1002.2	1842.3	2100.2	1922.5	1516.6	1043.1	1481.7	2124.8	2421.8	2072.6
76°	332.9	711.1	1616.5	1949.6	1736.3	1219.3	714.6	1147.1	1992.3	2272.9	1922.6
77°	217.7	396.9	1374.1	1734.2	1533.1	826.4	388.8	812.4	1842.6	2054.8	1745.0
78°	103.5	292.4	1082.7	1436.8	1275.6	453.0	188.7	479.7	1620.3	1758.0	1527.0
79°	82.4	189.6	714.0	1088.7	944.2	336.2	117.6	233.8	1228.1	1434.0	1281.7
80°	71.1	86.9	377.6	718.2	578.4	226.7	101.7	130.1	836.0	1144.6	1053.7
81°	61.1	73.4	241.2	376.0	412.9	117.1	85.8	108.9	445.2	905.0	955.9
82°	52.2	62.5	107.5	242.1	254.3	98.9	70.0	87.7	213.8	667.0	808.3
83°	44.0	52.3	86.3	109.9	95.6	81.3	58.9	66.6	140.6	499.5	660.6
84°	36.5	43.0	69.9	86.1	76.7	63.0	48.5	53.8	112.9	351.6	511.4
85°	29.0	35.3	53.5	71.0	59.1	48.4	38.4	42.9	92.4	226.8	316.2
86°	21.6	27.5	40.1	56.9	43.4	38.1	29.0	33.3	72.0	162.9	223.4
87°	14.7	19.8	29.0	41.5	32.0	27.8	20.2	24.7	52.6	99.1	130.6
88°	8.5	12.9	18.0	33.3	20.7	17.6	14.0	18.8	34.8	36.6	38.9
89°	3.6	5.6	7.5	25.3	9.4	8.8	7.9	13.0	23.6	24.8	26.3

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1444986
CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3	1571.3
1°	1548.5	1548.3	1549.6	1553.7	1557.8	1563.6	1569.7	1571.1	1577.2	1583.8	1589.0
2°	1528.9	1528.1	1531.1	1536.9	1544.9	1554.7	1566.9	1574.3	1587.7	1600.6	1611.8
3°	1511.8	1510.7	1514.4	1522.2	1533.7	1548.3	1565.7	1579.5	1599.3	1619.6	1637.7
4°	1497.5	1496.2	1500.7	1510.3	1524.9	1543.5	1566.0	1586.0	1612.8	1640.6	1666.0
5°	1485.4	1483.5	1488.9	1500.5	1517.5	1540.4	1567.5	1593.8	1628.6	1664.1	1696.4
6°	1475.2	1473.1	1479.3	1492.2	1512.4	1538.6	1570.5	1603.3	1645.3	1689.4	1731.2
7°	1466.5	1464.5	1470.9	1485.6	1508.2	1538.5	1575.5	1614.7	1664.4	1717.9	1769.0
8°	1460.1	1457.8	1465.0	1481.1	1505.8	1539.6	1581.7	1626.8	1684.7	1748.8	1809.7
9°	1454.8	1452.4	1460.2	1478.1	1504.9	1542.0	1588.7	1640.2	1707.0	1781.8	1853.3
10°	1451.3	1448.7	1457.3	1476.5	1505.3	1545.2	1596.7	1655.1	1730.7	1816.8	1900.4
11°	1449.7	1446.8	1456.2	1476.8	1507.7	1549.9	1606.4	1671.7	1757.3	1854.4	1951.6
12°	1449.1	1446.4	1456.3	1478.5	1511.2	1556.1	1617.3	1689.0	1784.5	1894.6	2004.7
13°	1450.4	1446.9	1457.3	1481.2	1515.7	1563.1	1629.0	1707.7	1813.2	1936.9	2062.7
14°	1451.8	1448.9	1460.0	1485.0	1521.7	1571.1	1641.2	1726.8	1843.2	1981.5	2123.7
15°	1454.5	1451.2	1463.3	1489.7	1528.7	1580.3	1654.0	1746.6	1874.2	2028.6	2189.5
16°	1457.7	1454.4	1467.0	1494.5	1535.7	1590.3	1667.8	1768.0	1906.8	2078.6	2258.2
17°	1461.3	1458.0	1471.4	1500.3	1543.8	1601.0	1682.4	1790.0	1941.1	2130.6	2328.3
18°	1465.8	1462.4	1476.9	1506.3	1552.4	1611.6	1697.2	1812.5	1975.7	2185.0	2399.8
19°	1470.7	1467.7	1482.4	1513.3	1560.9	1623.5	1713.0	1835.7	2011.7	2240.5	2470.4
20°	1477.2	1473.8	1489.2	1521.1	1570.1	1635.3	1729.5	1859.8	2050.2	2296.3	2537.9
21°	1484.1	1481.2	1496.6	1529.5	1579.2	1647.9	1747.0	1885.0	2088.4	2354.6	2603.7
22°	1491.8	1488.7	1505.1	1538.8	1589.5	1661.2	1764.9	1910.9	2129.7	2410.5	2666.7
23°	1500.3	1497.8	1514.3	1548.7	1600.6	1675.2	1782.7	1937.6	2172.5	2466.1	2726.7
24°	1509.5	1507.9	1524.4	1559.4	1612.0	1689.0	1801.1	1965.1	2214.7	2518.9	2782.6
25°	1519.4	1518.1	1535.2	1570.7	1624.6	1703.6	1820.4	1992.3	2257.6	2570.7	2835.9
26°	1530.4	1529.8	1546.9	1582.3	1637.6	1718.3	1839.5	2020.7	2301.1	2618.8	2887.4
27°	1541.4	1542.2	1559.0	1594.4	1651.0	1732.8	1859.0	2049.6	2344.7	2665.3	2935.1
28°	1553.2	1556.2	1571.6	1607.5	1665.0	1748.6	1878.6	2079.8	2387.8	2710.0	2981.4
29°	1565.9	1570.8	1585.0	1620.7	1679.5	1764.3	1898.6	2109.2	2429.5	2752.3	3025.6
30°	1579.6	1586.6	1599.5	1634.3	1693.5	1780.6	1918.5	2139.1	2471.0	2792.3	3066.8
31°	1594.0	1602.6	1614.6	1648.2	1708.6	1796.9	1938.1	2169.2	2510.7	2829.9	3105.5
32°	1608.9	1619.8	1629.8	1663.5	1724.3	1813.9	1958.4	2199.6	2548.7	2865.7	3141.9
33°	1624.6	1637.2	1645.3	1678.6	1739.9	1830.9	1978.4	2230.3	2585.9	2901.3	3176.7
34°	1640.1	1654.8	1660.9	1694.3	1756.4	1848.1	1998.5	2260.8	2620.3	2934.5	3209.0
35°	1655.7	1672.8	1676.5	1710.7	1772.7	1866.1	2018.8	2291.7	2654.8	2967.5	3237.8
36°	1671.8	1691.1	1692.1	1727.6	1789.2	1884.0	2040.4	2323.2	2688.1	2997.2	3264.6
37°	1686.6	1709.0	1708.1	1744.2	1806.3	1902.6	2062.1	2353.3	2719.6	3026.5	3288.7
38°	1703.0	1727.8	1724.9	1762.2	1823.7	1920.7	2084.4	2384.2	2751.0	3054.2	3311.2
39°	1719.4	1746.1	1741.7	1779.9	1841.5	1940.3	2106.9	2413.7	2780.1	3080.6	3330.2
40°	1736.3	1763.8	1759.2	1798.0	1860.1	1959.1	2129.7	2442.5	2808.2	3105.6	3346.7
41°	1753.9	1780.6	1776.7	1816.4	1879.0	1978.6	2152.7	2471.1	2835.2	3129.1	3359.1
42°	1771.4	1797.5	1794.9	1834.4	1898.9	1999.1	2176.2	2498.2	2862.6	3152.6	3368.8
43°	1789.0	1813.9	1813.7	1854.4	1918.3	2020.2	2201.2	2524.9	2889.3	3173.4	3377.1
44°	1807.7	1831.0	1833.1	1874.0	1938.6	2042.6	2226.2	2551.1	2915.6	3192.4	3381.3

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1826.9	1848.1	1852.4	1894.3	1959.8	2063.9	2251.6	2576.9	2940.5	3210.8	3383.3
46°	1846.5	1864.0	1872.3	1914.3	1980.8	2086.9	2276.7	2600.5	2964.5	3227.3	3381.6
47°	1867.1	1879.7	1893.4	1934.6	2002.8	2109.2	2302.3	2622.2	2987.7	3242.6	3377.2
48°	1888.0	1896.4	1915.0	1955.6	2024.9	2132.6	2327.9	2643.9	3008.9	3255.3	3370.2
49°	1909.8	1913.8	1936.4	1976.3	2047.4	2156.5	2352.5	2664.3	3028.9	3266.5	3360.1
50°	1931.9	1930.4	1958.9	1998.0	2071.0	2181.6	2377.2	2683.6	3046.4	3276.6	3347.5
51°	1955.6	1947.8	1981.6	2020.0	2094.0	2206.0	2401.4	2701.0	3062.6	3283.2	3331.0
52°	1978.6	1964.6	2004.3	2043.1	2119.4	2230.6	2425.1	2717.1	3075.9	3287.4	3310.3
53°	1999.9	1978.0	2025.0	2066.1	2144.5	2255.9	2446.5	2731.6	3085.9	3288.2	3286.7
54°	2018.3	1987.5	2044.2	2090.2	2171.2	2280.8	2467.1	2742.7	3093.7	3287.4	3260.1
55°	2034.9	1997.5	2060.9	2114.8	2197.7	2306.0	2485.8	2752.0	3097.7	3281.4	3231.1
56°	2052.2	2009.8	2077.2	2140.1	2226.3	2331.6	2501.8	2759.1	3097.3	3271.9	3197.6
57°	2068.6	2022.8	2093.9	2165.0	2254.3	2357.5	2516.9	2762.9	3092.0	3256.9	3160.3
58°	2084.7	2032.2	2109.8	2191.9	2283.8	2382.3	2529.0	2764.6	3082.1	3237.8	3118.7
59°	2097.8	2039.2	2122.8	2216.9	2314.8	2405.9	2538.6	2763.2	3067.4	3213.7	3073.8
60°	2109.1	2047.6	2134.1	2242.3	2346.3	2429.4	2546.9	2757.9	3048.0	3184.6	3024.8
61°	2120.6	2055.5	2145.8	2266.1	2378.5	2453.0	2552.2	2746.4	3024.2	3149.8	2972.8
62°	2132.0	2060.7	2157.1	2291.1	2409.2	2477.1	2553.9	2729.2	2994.2	3109.6	2918.0
63°	2140.8	2064.7	2167.0	2314.9	2438.7	2499.1	2552.5	2707.2	2956.6	3063.8	2861.2
64°	2148.3	2066.4	2175.8	2337.4	2468.3	2519.6	2548.1	2678.9	2913.4	3014.4	2803.8
65°	2149.0	2050.8	2176.4	2358.4	2498.1	2537.9	2537.0	2642.0	2862.0	2958.2	2743.6
66°	2128.7	2037.4	2154.3	2375.8	2527.4	2552.0	2520.5	2595.6	2802.9	2895.7	2682.7
67°	2117.2	2030.6	2142.4	2389.3	2553.5	2563.4	2494.1	2527.7	2736.3	2827.5	2623.3
68°	2112.4	2005.2	2134.0	2383.9	2578.2	2569.5	2444.7	2412.2	2650.3	2753.5	2563.0
69°	2082.1	1932.9	2101.0	2370.5	2598.6	2565.2	2355.6	2242.8	2527.2	2669.3	2503.1
70°	2022.4	1801.7	2041.9	2368.9	2614.3	2546.9	2215.7	2024.4	2363.2	2572.7	2443.0
71°	1927.4	1608.0	1947.5	2352.1	2617.0	2501.0	2039.7	1799.6	2158.6	2455.7	2378.6
72°	1775.2	1427.8	1796.5	2324.3	2598.7	2419.1	1854.3	1601.4	1940.9	2313.7	2311.5
73°	1587.3	1256.7	1602.7	2281.1	2550.8	2300.7	1678.3	1406.2	1730.6	2149.4	2234.5
74°	1403.0	1065.7	1424.8	2203.7	2472.6	2167.2	1498.1	1158.7	1517.0	1962.5	2144.3
75°	1209.1	811.6	1235.7	2084.6	2354.9	2019.8	1255.4	805.6	1259.5	1757.3	2016.7
76°	976.0	586.2	1001.0	1927.5	2173.1	1862.7	902.8	456.2	907.7	1542.5	1841.2
77°	751.1	534.0	793.4	1746.7	1926.5	1673.2	552.6	334.2	530.9	1306.4	1599.2
78°	706.7	696.5	770.3	1523.1	1623.9	1376.3	272.7	218.8	392.8	1014.2	1278.7
79°	870.8	662.4	927.4	1264.1	1326.7	956.9	145.2	103.4	260.9	671.6	923.5
80°	1017.7	628.4	792.6	1008.9	1076.9	540.6	120.6	88.1	128.9	379.4	568.2
81°	794.3	591.2	657.8	915.6	827.0	259.6	96.1	75.5	107.0	246.5	410.4
82°	570.9	339.4	520.9	757.0	577.2	153.6	71.6	63.9	91.0	114.5	256.9
83°	325.3	241.3	295.1	598.3	399.4	118.7	59.5	53.3	74.3	87.1	103.4
84°	183.5	143.2	178.2	439.0	242.0	97.4	48.5	43.2	58.0	69.7	81.9
85°	121.8	46.4	143.2	246.2	176.5	76.1	38.6	34.3	44.3	52.8	67.5
86°	60.4	31.4	108.2	197.1	111.0	55.0	29.7	25.4	34.3	38.3	53.9
87°	42.0	16.4	73.1	148.0	46.3	38.8	21.7	16.6	24.5	27.5	37.8
88°	23.5	1.5	38.1	98.9	31.4	26.4	15.0	9.4	14.7	16.7	22.1
89°	5.2	1.0	3.4	49.8	16.5	14.0	8.2	3.5	6.3	6.7	6.4

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1444986
CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1571.3	1571.3	1571.3
1°	1593.5	1596.7	1598.0
2°	1621.4	1627.7	1628.9
3°	1651.7	1660.9	1663.7
4°	1685.7	1699.2	1702.4
5°	1723.7	1741.3	1746.0
6°	1765.9	1787.7	1794.0
7°	1810.9	1838.8	1846.3
8°	1859.6	1893.6	1903.5
9°	1913.5	1952.4	1965.3
10°	1970.6	2017.4	2032.1
11°	2032.9	2089.0	2104.7
12°	2100.4	2163.8	2183.0
13°	2172.8	2245.0	2266.0
14°	2249.5	2332.6	2357.7
15°	2329.6	2423.4	2455.5
16°	2411.9	2518.0	2556.2
17°	2496.9	2614.6	2656.7
18°	2580.4	2710.4	2755.7
19°	2661.6	2801.1	2848.8
20°	2740.0	2887.4	2934.5
21°	2813.3	2965.5	3011.7
22°	2882.1	3035.3	3078.3
23°	2947.7	3097.4	3138.7
24°	3008.4	3153.3	3191.7
25°	3065.6	3201.4	3237.3
26°	3116.8	3244.2	3276.5
27°	3164.5	3280.5	3311.9
28°	3206.7	3312.1	3341.7
29°	3244.9	3338.7	3366.4
30°	3277.4	3361.5	3385.9
31°	3307.2	3378.8	3401.9
32°	3332.4	3393.5	3413.5
33°	3354.0	3403.7	3422.3
34°	3371.5	3410.5	3426.3
35°	3386.3	3413.2	3428.2
36°	3397.5	3413.0	3427.1
37°	3404.7	3410.7	3422.4
38°	3409.4	3405.5	3415.3
39°	3410.8	3398.5	3406.6
40°	3409.8	3389.0	3395.1
41°	3405.5	3377.6	3379.2
42°	3398.7	3363.8	3361.8
43°	3389.2	3348.5	3340.5
44°	3376.5	3329.6	3315.6

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3362.1	3308.4	3286.7
46°	3344.6	3283.3	3252.7
47°	3324.8	3254.7	3216.3
48°	3302.3	3223.3	3177.2
49°	3276.9	3186.7	3132.8
50°	3248.0	3147.8	3084.8
51°	3214.9	3104.1	3030.8
52°	3177.7	3054.1	2973.4
53°	3136.1	3000.7	2912.3
54°	3092.5	2943.5	2849.1
55°	3045.1	2880.9	2782.4
56°	2992.9	2816.1	2711.3
57°	2937.5	2748.9	2642.4
58°	2878.6	2678.3	2569.3
59°	2819.1	2607.7	2497.2
60°	2759.0	2535.2	2419.7
61°	2696.6	2460.6	2339.3
62°	2635.8	2385.0	2255.2
63°	2575.7	2308.8	2172.4
64°	2517.6	2238.3	2094.4
65°	2461.8	2171.2	2031.5
66°	2409.0	2116.5	1985.2
67°	2358.7	2076.1	1959.0
68°	2313.6	2048.4	1931.7
69°	2274.3	2019.7	1869.4
70°	2244.3	1971.8	1746.5
71°	2213.4	1879.6	1560.3
72°	2174.2	1717.3	1359.2
73°	2113.7	1504.8	1151.5
74°	2003.6	1269.2	912.0
75°	1830.1	1021.5	611.6
76°	1603.4	739.1	332.9
77°	1350.0	424.7	217.7
78°	1032.7	313.5	103.5
79°	662.3	202.5	82.4
80°	353.3	91.4	71.1
81°	231.6	75.7	61.1
82°	111.5	64.3	52.2
83°	86.1	54.0	44.0
84°	69.1	44.6	36.5
85°	52.5	36.5	29.0
86°	39.1	28.4	21.6
87°	27.9	20.3	14.7
88°	16.8	12.9	8.5
89°	6.6	5.4	3.6

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

REPORT NUMBER: P1444986

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)