

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: P1436768

Luminaire Tested: XAS180-SFPM (5000K-72W-T4-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436768
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/25/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (5000K-72W-T4-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

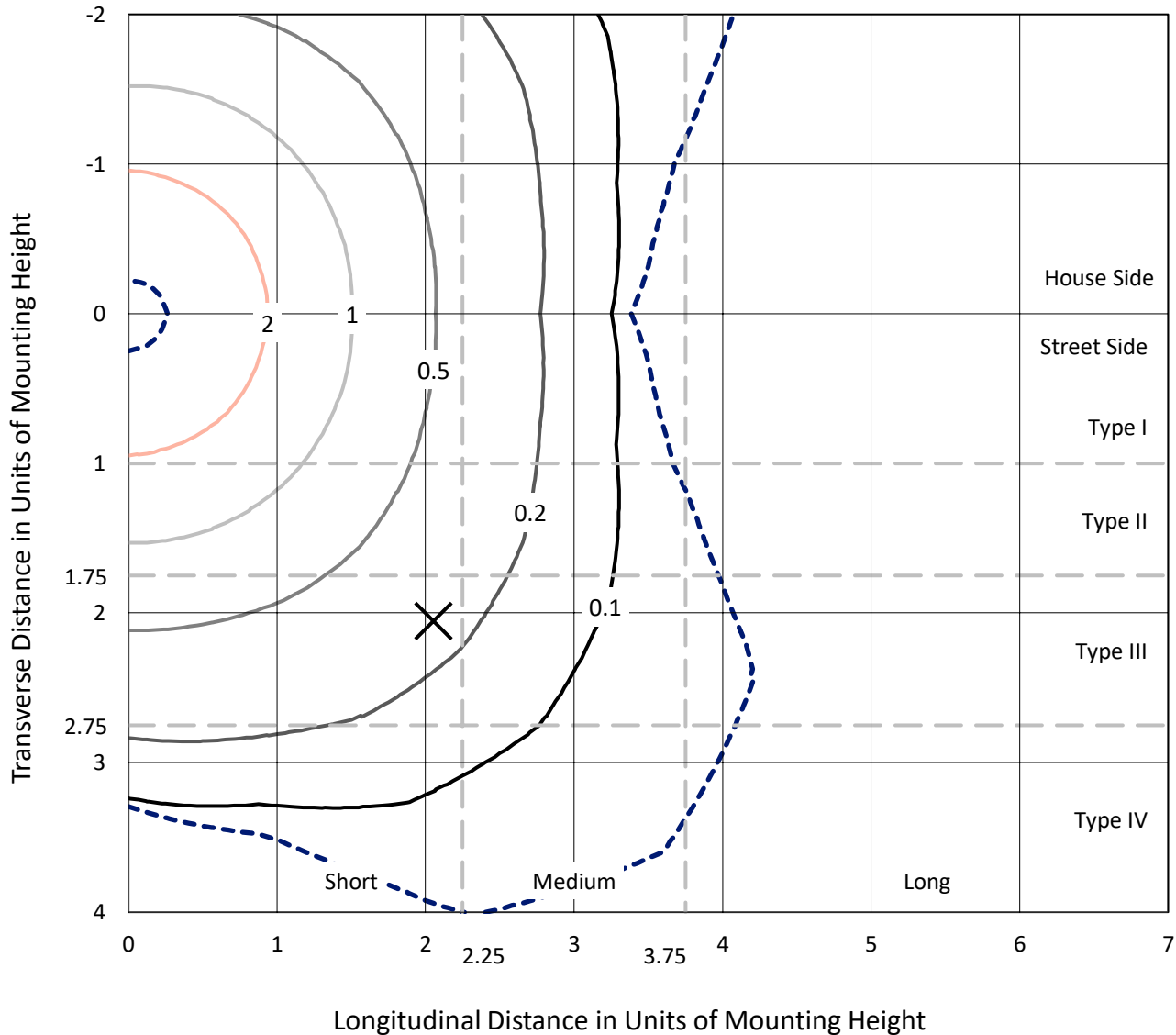
Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 10775.6 lumens
Efficiency: 38.4%
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

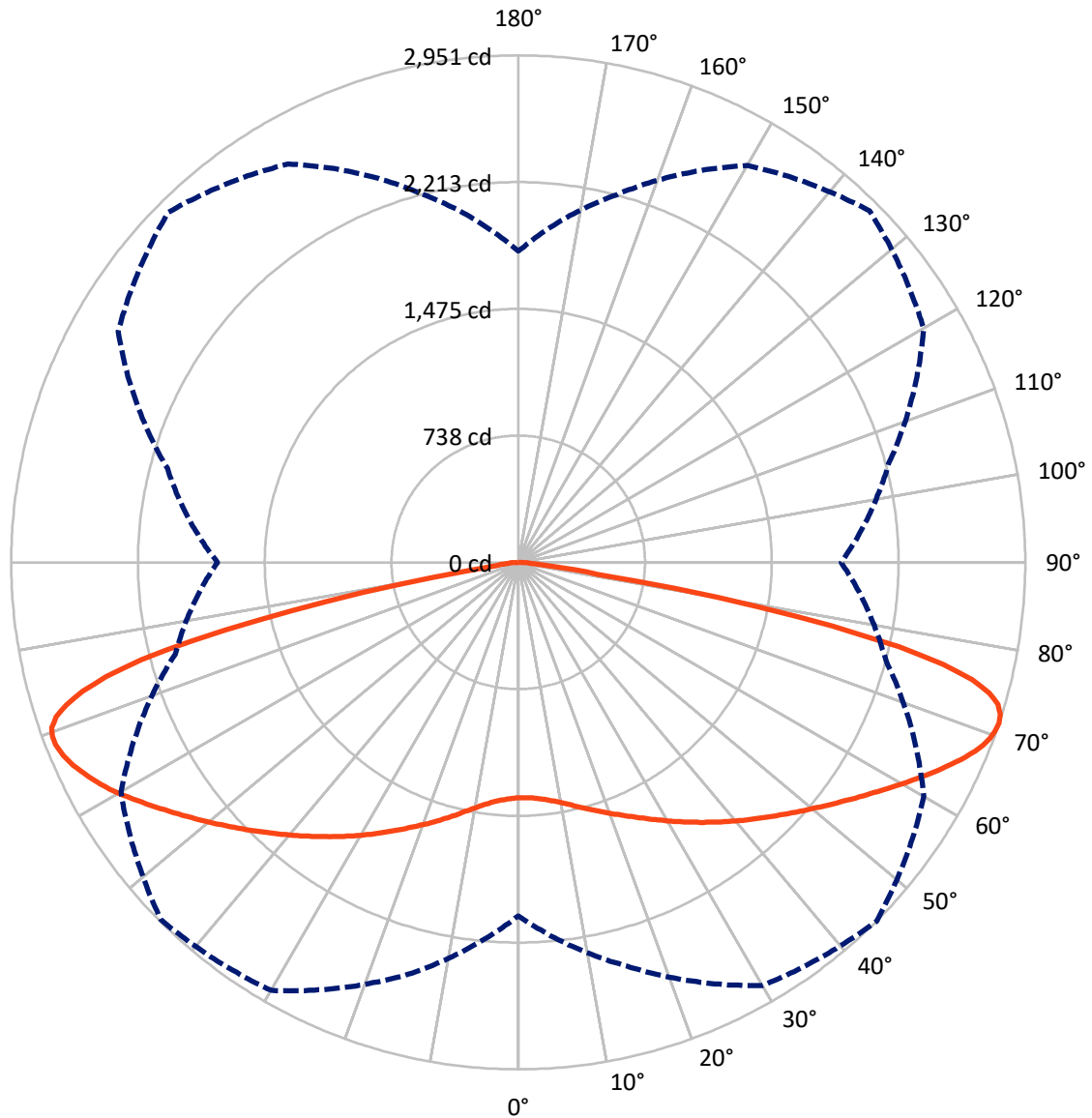
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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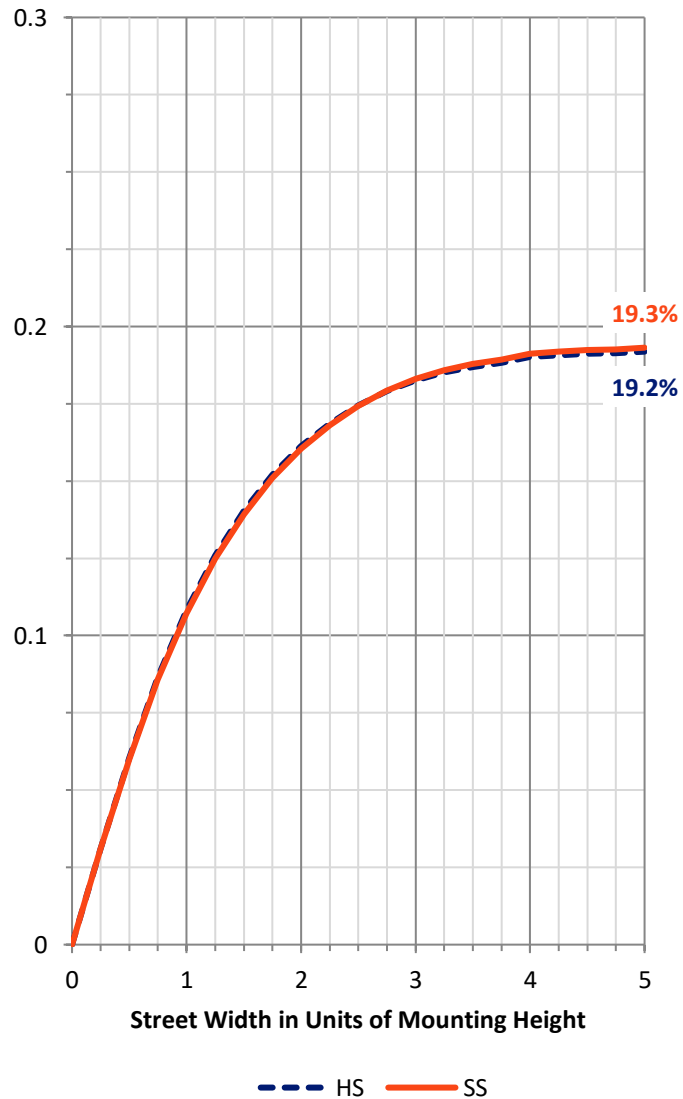
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5362.1	0.0	5362.1
	% Lamp	19.1	0.0	19.1
Street Side	Lumens	5413.5	0.0	5413.5
	% Lamp	19.3	0.0	19.3
Total	Lumens	10775.6	0.0	10775.6
	% Lamp	38.4	0.0	38.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	133.8	1.2	0.5
10°-20°	428.1	4.0	1.5
20°-30°	778.4	7.2	2.8
30°-40°	1192.3	11.1	4.2
40°-50°	1661.8	15.4	5.9
50°-60°	2175.0	20.2	7.8
60°-70°	2599.4	24.1	9.3
70°-80°	1722.2	16.0	6.1
80°-90°	84.7	0.8	0.3
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°	10775.6	100.0	38.4
0°-180°	10775.6	100.0	38.4

Coefficient of Utilization



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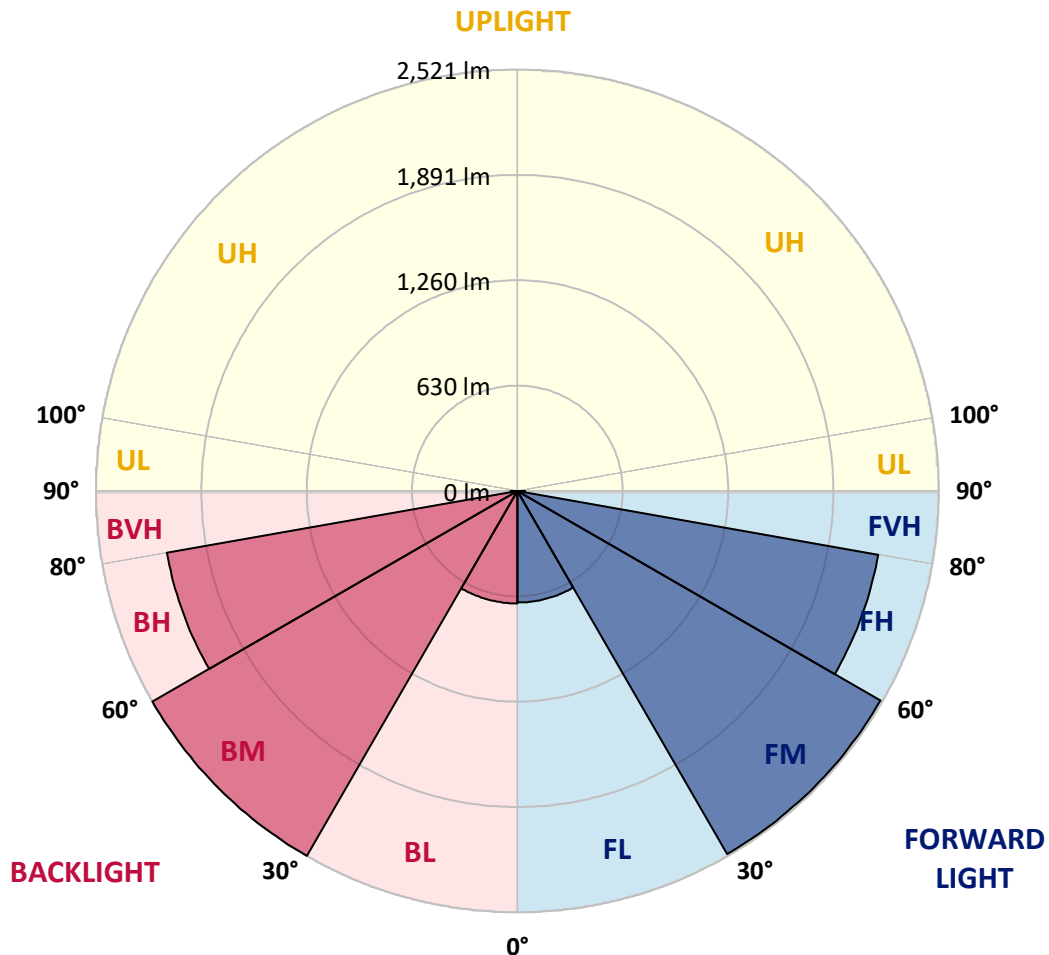
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.6	2.4			
FM (30°-60°)	2508.1	8.9			
FH (60°-80°)	2192.4	7.8			G2/5000
FVH (80°-90°)	45.4	0.2			G1/100
BL (0°-30°)	672.8	2.4	B2/1000		
BM (30°-60°)	2521.0	9.0	B3/5000		
BH (60°-80°)	2129.2	7.6	B3/2500		G2/5000
BVH (80°-90°)	39.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	17286.4	61.6			

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7
1°	1370.4	1370.1	1370.4	1370.1	1370.1	1370.0	1369.0	1369.1	1369.1	1369.6	1369.9
2°	1372.5	1372.0	1371.9	1371.5	1371.0	1370.5	1369.6	1369.6	1369.9	1370.6	1371.3
3°	1376.1	1375.3	1374.7	1373.8	1373.5	1372.8	1371.9	1371.8	1372.0	1372.9	1374.0
4°	1381.2	1380.1	1379.1	1378.2	1377.3	1376.4	1375.4	1375.3	1375.7	1376.8	1378.2
5°	1387.1	1385.7	1384.5	1383.0	1381.7	1380.9	1379.7	1380.2	1381.1	1382.4	1383.8
6°	1393.7	1392.0	1391.2	1389.5	1387.4	1386.2	1384.9	1385.3	1386.7	1389.0	1390.9
7°	1400.9	1399.3	1398.8	1396.9	1394.8	1392.9	1391.3	1392.0	1393.3	1396.7	1399.3
8°	1409.4	1407.5	1406.7	1405.1	1402.9	1400.7	1399.7	1400.4	1401.9	1405.1	1408.8
9°	1418.6	1416.9	1415.7	1414.2	1412.2	1409.6	1408.0	1409.2	1411.9	1415.2	1418.9
10°	1428.7	1427.0	1425.9	1424.3	1422.6	1419.6	1418.2	1419.4	1422.7	1426.7	1429.9
11°	1439.7	1437.8	1437.3	1435.8	1433.5	1430.6	1428.8	1430.7	1434.4	1439.4	1442.2
12°	1451.0	1448.5	1448.8	1447.9	1445.4	1442.4	1440.2	1442.7	1446.9	1452.5	1455.8
13°	1461.9	1459.5	1461.0	1461.2	1458.0	1455.0	1451.9	1455.0	1460.6	1466.3	1470.3
14°	1474.0	1471.3	1473.2	1474.4	1471.4	1467.8	1464.3	1468.1	1474.1	1481.2	1484.9
15°	1485.9	1483.3	1485.8	1488.5	1485.2	1481.0	1477.5	1481.2	1488.5	1496.4	1499.6
16°	1498.8	1496.9	1498.9	1502.3	1499.7	1495.1	1491.6	1495.2	1503.5	1512.0	1515.1
17°	1512.7	1510.9	1513.3	1516.8	1514.9	1509.5	1505.8	1509.6	1519.4	1527.1	1530.7
18°	1527.2	1524.7	1527.7	1531.3	1530.0	1524.4	1520.8	1524.9	1535.1	1542.8	1545.6
19°	1542.0	1539.3	1542.9	1546.4	1545.7	1540.0	1536.3	1541.1	1551.4	1558.9	1560.7
20°	1558.1	1554.9	1558.2	1561.7	1561.8	1556.5	1552.9	1558.1	1568.1	1574.9	1575.7
21°	1574.6	1571.3	1573.6	1577.5	1578.4	1573.2	1569.5	1575.6	1585.1	1590.3	1591.5
22°	1592.0	1588.4	1590.1	1593.6	1596.1	1590.7	1587.5	1593.8	1603.2	1607.3	1608.1
23°	1610.4	1606.6	1607.0	1610.7	1614.1	1609.1	1605.8	1613.0	1621.4	1624.4	1625.6
24°	1629.7	1625.5	1624.5	1628.2	1632.3	1627.8	1625.2	1632.5	1640.5	1642.2	1643.7
25°	1649.9	1645.0	1642.9	1646.8	1651.6	1647.3	1645.5	1652.9	1659.3	1660.7	1661.5
26°	1671.0	1665.1	1662.0	1665.7	1670.9	1666.5	1666.2	1673.5	1678.7	1679.5	1679.8
27°	1692.6	1685.6	1681.2	1685.3	1690.0	1686.2	1687.1	1694.4	1698.3	1699.2	1698.8
28°	1715.3	1706.4	1701.0	1705.3	1709.7	1706.3	1708.9	1715.0	1718.8	1719.5	1717.9
29°	1738.4	1727.4	1721.5	1726.3	1729.3	1726.7	1731.8	1736.0	1739.2	1740.6	1738.0
30°	1761.9	1748.4	1742.6	1747.5	1749.4	1747.7	1755.2	1757.5	1760.0	1761.9	1758.1
31°	1785.9	1770.0	1764.4	1769.3	1769.7	1768.1	1778.9	1778.8	1781.1	1783.8	1779.3
32°	1809.7	1791.6	1786.2	1791.5	1790.1	1790.1	1802.1	1800.8	1802.6	1806.0	1800.6
33°	1833.5	1813.8	1809.0	1813.3	1811.8	1811.3	1826.0	1822.1	1824.6	1828.2	1822.5
34°	1857.4	1835.9	1831.5	1835.7	1833.2	1832.1	1849.4	1843.4	1846.7	1850.1	1844.5
35°	1882.7	1857.8	1854.5	1858.3	1855.2	1853.0	1873.5	1864.5	1869.1	1873.0	1867.6
36°	1907.7	1880.4	1878.2	1881.4	1877.9	1874.7	1897.4	1886.2	1892.5	1896.1	1891.4
37°	1932.7	1903.3	1902.2	1905.1	1900.8	1895.6	1921.1	1908.2	1915.8	1919.7	1915.6
38°	1958.1	1927.0	1926.3	1928.6	1923.6	1917.6	1945.7	1929.7	1938.4	1943.2	1939.6
39°	1983.0	1950.8	1950.2	1952.5	1946.5	1940.3	1970.5	1952.0	1962.0	1966.6	1963.1
40°	2007.6	1975.6	1974.1	1976.8	1969.7	1963.3	1995.3	1975.0	1985.7	1990.9	1987.7
41°	2031.9	2000.8	1998.8	2001.0	1993.8	1987.1	2020.0	1999.0	2009.1	2015.3	2011.2
42°	2057.2	2026.7	2024.1	2026.3	2018.0	2011.3	2043.7	2023.2	2033.3	2040.7	2036.9
43°	2081.8	2053.6	2049.8	2051.9	2043.1	2036.4	2066.7	2048.5	2057.8	2066.4	2062.4
44°	2105.8	2081.3	2075.7	2077.9	2068.2	2062.4	2088.9	2074.4	2082.2	2091.7	2088.5



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	2129.9	2108.8	2102.3	2103.6	2093.7	2089.4	2110.6	2100.7	2107.2	2117.8	2115.4
46°	2154.1	2138.0	2129.9	2130.4	2120.4	2117.3	2132.5	2128.1	2132.5	2144.4	2142.6
47°	2179.1	2168.8	2158.5	2158.4	2148.1	2146.1	2155.2	2155.7	2159.4	2172.1	2171.4
48°	2204.6	2199.3	2187.4	2187.0	2175.6	2175.4	2176.5	2184.3	2187.2	2199.4	2200.6
49°	2230.9	2231.3	2217.9	2216.5	2204.0	2204.9	2197.7	2212.5	2215.2	2227.8	2229.3
50°	2257.7	2262.5	2248.4	2246.1	2232.3	2234.8	2219.0	2240.7	2243.1	2257.7	2259.3
51°	2285.2	2294.8	2279.8	2276.4	2262.3	2264.1	2241.2	2268.4	2272.0	2287.9	2291.0
52°	2313.5	2327.7	2312.9	2308.9	2292.8	2293.1	2264.0	2296.9	2301.8	2319.8	2322.4
53°	2341.8	2360.1	2346.6	2340.9	2323.2	2321.1	2285.7	2324.9	2331.5	2351.0	2354.4
54°	2370.1	2392.4	2380.8	2375.2	2354.1	2348.4	2307.3	2351.7	2362.3	2382.9	2386.6
55°	2397.2	2421.9	2415.8	2408.9	2384.7	2374.0	2328.5	2375.9	2393.4	2417.4	2420.3
56°	2422.8	2451.2	2451.6	2444.5	2416.2	2398.2	2348.8	2400.3	2424.3	2452.0	2455.0
57°	2447.0	2478.7	2487.4	2481.9	2447.3	2420.5	2367.0	2422.2	2455.1	2487.4	2488.6
58°	2469.6	2504.7	2523.9	2519.7	2478.1	2440.4	2382.5	2441.8	2485.8	2524.0	2520.9
59°	2490.0	2528.9	2561.3	2558.1	2509.0	2456.9	2397.0	2459.9	2515.9	2561.4	2552.0
60°	2508.4	2550.7	2598.0	2598.0	2538.7	2470.9	2408.4	2475.2	2544.6	2599.1	2582.0
61°	2523.4	2570.5	2633.5	2637.7	2568.1	2483.4	2417.2	2488.5	2574.3	2636.3	2612.1
62°	2535.1	2587.0	2668.3	2678.5	2596.5	2492.4	2422.2	2498.3	2601.8	2673.0	2641.0
63°	2545.5	2601.9	2702.3	2719.7	2625.6	2497.1	2422.5	2505.9	2629.5	2706.8	2668.1
64°	2554.6	2614.0	2733.3	2760.4	2652.9	2498.1	2418.6	2510.4	2657.1	2739.6	2693.5
65°	2563.6	2624.3	2763.4	2800.5	2679.0	2497.7	2411.9	2511.3	2682.6	2773.2	2715.8
66°	2568.8	2634.1	2790.1	2838.9	2701.6	2492.7	2401.8	2507.6	2705.5	2806.8	2736.6
67°	2568.8	2641.0	2812.9	2874.5	2720.3	2483.7	2385.2	2499.8	2724.3	2837.8	2753.3
68°	2545.1	2639.6	2832.4	2905.9	2733.3	2468.9	2334.3	2483.6	2739.2	2862.4	2742.6
69°	2469.3	2619.6	2845.0	2929.4	2740.8	2428.5	2227.6	2443.1	2746.5	2881.9	2717.5
70°	2309.4	2562.0	2849.8	2944.3	2743.7	2344.8	2071.7	2361.1	2745.3	2893.1	2704.0
71°	2056.5	2431.9	2843.1	2950.5	2725.2	2214.8	1878.7	2232.3	2723.3	2891.3	2666.6
72°	1793.0	2219.4	2820.5	2941.7	2677.6	2048.8	1702.6	2063.3	2665.7	2861.4	2603.9
73°	1513.8	1942.3	2765.4	2911.0	2596.3	1870.5	1566.9	1881.0	2569.4	2796.9	2525.1
74°	1190.9	1640.1	2644.3	2845.5	2482.4	1708.4	1396.3	1713.3	2443.7	2698.6	2395.0
75°	788.5	1310.8	2422.7	2729.0	2332.8	1528.0	1066.9	1536.2	2283.8	2567.5	2201.1
76°	407.7	919.9	2123.6	2541.9	2155.9	1257.1	737.5	1277.7	2107.5	2374.0	1936.4
77°	295.0	494.9	1799.6	2268.1	1938.6	846.0	408.6	925.3	1897.5	2100.8	1608.4
78°	188.6	355.7	1406.5	1866.3	1636.5	438.5	175.9	572.9	1606.6	1737.3	1215.3
79°	82.1	221.5	912.4	1422.2	1214.2	317.0	138.6	223.0	1198.5	1314.7	822.1
80°	68.2	87.3	465.5	926.1	735.2	198.8	101.2	172.2	790.3	889.4	430.4
81°	58.3	71.9	336.7	468.7	361.2	80.6	64.6	121.4	386.1	468.5	197.7
82°	49.7	60.8	213.1	337.0	266.3	68.6	55.2	70.7	171.9	189.5	150.8
83°	41.7	50.7	89.4	214.3	174.3	58.0	46.7	59.6	135.1	147.9	104.0
84°	34.4	41.6	70.1	91.6	82.3	48.3	38.7	49.5	98.3	106.3	57.5
85°	27.2	34.0	53.5	75.5	62.5	39.5	31.2	40.3	61.8	64.9	41.6
86°	20.0	26.5	40.1	60.7	45.9	31.7	24.2	32.0	44.3	50.8	27.8
87°	13.5	18.9	29.2	44.6	33.7	24.0	17.2	24.2	32.0	36.1	17.3
88°	7.7	12.3	18.3	35.8	21.7	16.2	12.0	17.2	22.1	22.5	12.3
89°	3.1	5.3	7.4	27.1	9.7	8.7	6.8	11.9	15.3	15.5	7.2



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CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-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: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-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: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7	1369.7
1°	1370.1	1370.4	1370.7	1371.1	1371.3	1371.6	1371.7	1370.8	1370.6	1370.5	1370.7
2°	1371.8	1372.6	1372.8	1373.6	1374.0	1374.2	1374.4	1373.6	1373.6	1373.3	1373.4
3°	1374.7	1375.9	1376.7	1377.4	1378.2	1378.4	1378.9	1377.8	1377.9	1377.5	1377.7
4°	1379.5	1380.9	1381.8	1382.7	1383.5	1383.9	1384.4	1383.5	1383.3	1383.0	1382.8
5°	1385.3	1387.2	1388.2	1389.6	1390.2	1390.7	1390.8	1389.8	1389.7	1389.4	1389.2
6°	1392.8	1394.6	1396.3	1397.7	1398.4	1398.4	1398.4	1397.3	1397.3	1397.1	1396.9
7°	1401.6	1403.3	1405.4	1407.0	1407.6	1408.0	1408.4	1406.9	1406.7	1406.1	1405.9
8°	1411.1	1413.2	1415.4	1417.5	1418.4	1419.2	1418.8	1417.0	1416.6	1416.1	1415.4
9°	1421.5	1423.8	1426.5	1429.2	1430.7	1431.0	1430.1	1427.5	1427.6	1427.4	1426.6
10°	1433.0	1435.7	1438.8	1442.1	1443.9	1443.9	1442.4	1439.8	1439.6	1439.9	1438.4
11°	1445.6	1448.7	1452.3	1456.3	1458.3	1458.0	1456.1	1453.3	1453.3	1453.6	1451.6
12°	1458.8	1461.9	1466.4	1471.2	1473.6	1473.0	1470.7	1467.4	1467.8	1467.8	1465.5
13°	1472.3	1475.4	1480.4	1487.2	1490.1	1489.3	1485.8	1482.5	1483.0	1483.0	1480.2
14°	1486.6	1489.4	1495.3	1503.1	1507.2	1505.9	1502.1	1498.1	1498.9	1499.4	1495.7
15°	1500.9	1503.5	1510.3	1519.6	1524.9	1523.4	1518.7	1514.4	1515.5	1516.4	1511.5
16°	1515.6	1518.2	1525.5	1536.0	1542.9	1542.2	1536.1	1531.1	1532.5	1533.5	1527.5
17°	1530.4	1532.9	1541.0	1552.5	1561.0	1560.4	1554.3	1548.9	1549.9	1551.0	1544.2
18°	1545.6	1548.1	1556.9	1568.8	1579.0	1579.4	1572.8	1566.6	1568.4	1569.0	1561.1
19°	1561.0	1564.4	1572.6	1585.4	1597.4	1598.2	1591.4	1584.9	1586.9	1587.1	1577.6
20°	1576.8	1580.6	1589.3	1603.2	1615.4	1617.7	1610.8	1604.1	1606.3	1605.9	1594.9
21°	1593.4	1597.4	1606.5	1620.7	1633.9	1637.7	1631.3	1624.0	1625.7	1625.1	1612.0
22°	1610.7	1615.0	1624.4	1639.2	1653.5	1658.1	1652.2	1644.2	1646.2	1644.5	1630.5
23°	1627.9	1633.0	1643.4	1658.6	1673.0	1679.3	1672.7	1665.4	1667.5	1664.1	1649.5
24°	1646.5	1652.2	1662.7	1678.3	1693.4	1700.1	1693.9	1686.9	1688.7	1683.8	1668.0
25°	1664.8	1671.5	1682.4	1698.0	1714.1	1721.1	1716.1	1709.0	1710.0	1704.3	1687.2
26°	1684.2	1692.5	1702.8	1718.8	1735.2	1742.3	1738.1	1732.1	1731.2	1724.6	1707.6
27°	1703.7	1713.2	1723.2	1739.4	1756.1	1763.3	1759.9	1755.1	1752.8	1745.0	1727.8
28°	1723.4	1736.1	1744.1	1760.7	1778.7	1785.4	1782.4	1779.4	1774.7	1766.2	1749.2
29°	1743.8	1758.8	1765.6	1782.6	1800.6	1807.0	1805.2	1803.6	1796.7	1788.0	1771.6
30°	1764.9	1782.8	1787.5	1804.3	1823.2	1829.1	1827.7	1827.8	1818.5	1809.3	1794.3
31°	1786.6	1807.0	1809.7	1826.1	1844.6	1851.1	1849.7	1852.6	1840.5	1830.8	1817.0
32°	1808.2	1831.4	1832.0	1848.1	1867.5	1874.1	1872.6	1877.2	1861.9	1852.2	1839.9
33°	1830.5	1856.2	1854.3	1871.2	1890.3	1897.2	1895.2	1902.0	1884.1	1875.1	1863.7
34°	1852.8	1880.9	1876.3	1894.6	1913.8	1920.2	1918.1	1927.2	1906.1	1897.8	1887.6
35°	1874.6	1906.8	1899.3	1918.5	1937.3	1943.6	1940.7	1952.3	1928.8	1921.4	1912.6
36°	1897.1	1932.7	1922.6	1942.5	1960.6	1966.3	1963.5	1977.9	1951.4	1945.1	1937.2
37°	1919.1	1958.6	1946.1	1966.7	1984.3	1989.4	1987.3	2003.5	1974.7	1969.2	1961.8
38°	1942.4	1984.2	1970.3	1991.4	2008.6	2013.3	2010.8	2029.0	1998.2	1993.6	1987.0
39°	1966.1	2010.1	1994.6	2016.5	2033.5	2037.0	2035.3	2054.1	2021.9	2018.4	2011.8
40°	1990.9	2034.3	2020.2	2042.1	2058.3	2061.6	2059.8	2078.3	2046.2	2043.7	2037.2
41°	2016.7	2058.6	2045.9	2067.9	2084.1	2085.9	2084.3	2101.6	2071.2	2069.2	2062.5
42°	2042.2	2082.4	2072.9	2093.3	2109.6	2111.2	2109.5	2124.8	2097.4	2095.3	2089.0
43°	2068.7	2105.8	2100.0	2119.2	2136.2	2137.8	2136.1	2148.3	2124.4	2121.1	2114.6
44°	2096.0	2129.3	2127.8	2146.0	2163.1	2164.3	2163.0	2172.6	2152.1	2147.2	2141.5



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2123.8	2153.2	2156.0	2173.9	2190.9	2191.3	2191.4	2196.1	2180.4	2174.2	2168.5
46°	2152.7	2176.5	2185.4	2201.3	2219.0	2218.2	2219.7	2217.5	2210.0	2201.7	2196.2
47°	2183.0	2199.3	2215.3	2229.0	2247.3	2245.2	2248.0	2238.7	2238.3	2229.4	2225.1
48°	2213.7	2223.3	2246.2	2257.7	2276.1	2273.0	2275.7	2260.5	2267.0	2257.3	2254.5
49°	2244.6	2249.0	2277.9	2286.5	2305.8	2300.9	2303.3	2282.7	2295.2	2285.6	2284.2
50°	2277.1	2274.2	2310.1	2316.8	2335.5	2329.3	2330.3	2305.2	2323.0	2314.9	2314.4
51°	2311.2	2300.3	2342.4	2347.3	2366.1	2357.3	2357.1	2325.6	2350.0	2344.2	2345.5
52°	2343.7	2325.0	2373.7	2377.8	2397.2	2385.4	2382.7	2346.3	2376.2	2373.4	2377.2
53°	2372.9	2345.5	2402.8	2409.5	2429.2	2413.4	2406.5	2365.6	2399.7	2401.8	2409.2
54°	2398.3	2360.6	2429.3	2441.7	2461.7	2442.4	2428.5	2382.7	2422.1	2432.0	2442.8
55°	2421.3	2376.3	2452.1	2474.1	2494.8	2470.3	2449.1	2399.1	2442.5	2460.8	2477.7
56°	2444.8	2393.9	2474.4	2508.0	2528.6	2497.5	2467.5	2413.9	2460.9	2489.3	2513.7
57°	2467.0	2412.4	2496.3	2541.1	2562.4	2525.0	2483.8	2426.3	2476.5	2516.7	2548.3
58°	2488.0	2425.3	2517.5	2575.0	2596.7	2552.0	2497.6	2438.2	2489.5	2544.2	2584.8
59°	2504.1	2434.4	2533.2	2607.0	2632.6	2577.6	2509.2	2448.3	2500.3	2570.5	2620.9
60°	2517.3	2445.6	2546.3	2637.1	2667.9	2602.6	2519.8	2455.9	2509.4	2596.8	2657.8
61°	2530.1	2456.7	2559.0	2667.8	2703.5	2627.6	2528.2	2458.9	2518.1	2622.2	2695.0
62°	2542.2	2465.7	2570.8	2696.9	2736.1	2653.2	2533.8	2459.8	2523.2	2646.4	2732.8
63°	2553.2	2473.2	2581.8	2723.6	2765.6	2676.3	2536.1	2459.0	2524.4	2669.0	2770.1
64°	2563.0	2474.6	2591.1	2748.1	2793.5	2698.6	2537.4	2452.9	2522.9	2689.6	2807.5
65°	2561.6	2451.3	2587.6	2769.7	2820.7	2718.0	2533.6	2442.1	2517.3	2707.0	2842.7
66°	2530.0	2430.8	2552.9	2786.6	2846.5	2733.4	2527.0	2426.6	2508.5	2721.8	2876.2
67°	2509.8	2418.2	2531.2	2796.1	2866.7	2746.4	2514.0	2389.1	2493.1	2732.5	2904.8
68°	2497.6	2377.0	2512.6	2777.0	2882.6	2754.7	2482.1	2300.0	2456.8	2738.7	2928.7
69°	2448.5	2269.3	2458.4	2744.9	2893.0	2752.2	2412.7	2149.1	2378.7	2734.7	2945.2
70°	2356.3	2081.0	2368.9	2723.7	2894.5	2734.0	2286.5	1949.9	2246.9	2717.4	2950.5
71°	2215.6	1810.3	2227.5	2677.4	2880.5	2688.4	2114.0	1750.8	2066.9	2670.2	2940.5
72°	2000.5	1565.0	2008.8	2610.5	2836.4	2603.5	1918.3	1584.5	1870.5	2591.7	2912.9
73°	1737.6	1314.2	1742.3	2519.1	2756.3	2475.6	1728.9	1422.9	1683.7	2472.0	2856.3
74°	1465.2	985.0	1470.8	2378.5	2641.3	2319.4	1549.2	1202.4	1501.8	2317.6	2763.2
75°	1115.2	655.9	1122.1	2165.8	2488.0	2129.9	1324.3	857.6	1266.5	2127.4	2612.5
76°	765.2	331.8	773.5	1882.5	2262.0	1923.3	973.0	486.1	916.9	1908.8	2396.0
77°	418.3	243.3	427.9	1554.0	1954.2	1673.9	621.7	349.0	512.6	1645.4	2084.9
78°	176.5	154.9	185.0	1163.5	1553.5	1326.0	275.4	216.6	371.5	1291.9	1668.5
79°	137.6	68.5	143.5	773.0	1134.1	963.0	127.7	84.2	230.4	856.4	1198.1
80°	98.7	56.5	102.0	385.4	714.7	600.1	106.7	70.4	89.4	470.1	725.4
81°	59.8	47.0	61.1	173.2	302.2	238.0	85.6	60.2	73.5	339.8	341.7
82°	48.9	38.6	49.9	134.2	130.2	125.8	64.7	51.1	62.4	217.3	220.7
83°	39.0	30.6	39.9	95.2	107.5	102.2	54.6	42.9	52.5	94.8	107.0
84°	30.1	23.7	30.7	56.5	84.9	78.5	45.4	35.6	43.4	73.2	86.4
85°	21.9	16.9	22.3	40.3	62.2	54.9	36.7	28.3	35.6	54.9	71.6
86°	15.5	11.7	15.7	26.6	48.5	39.4	28.8	21.0	27.9	40.1	57.4
87°	9.1	6.4	9.1	19.2	34.0	28.5	21.5	14.3	20.1	29.0	40.4
88°	2.8	1.3	2.5	11.7	23.2	19.6	14.8	8.4	13.5	18.0	32.5
89°	2.0	1.2	1.8	4.3	12.4	10.7	8.1	3.4	6.1	7.0	24.7



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1369.7	1369.7	1369.7
1°	1370.8	1370.4	1370.4
2°	1373.3	1373.0	1372.5
3°	1377.3	1376.9	1376.1
4°	1382.7	1382.0	1381.2
5°	1388.8	1388.0	1387.1
6°	1396.0	1395.2	1393.7
7°	1404.0	1402.9	1400.9
8°	1413.2	1411.2	1409.4
9°	1423.7	1421.0	1418.6
10°	1435.1	1431.8	1428.7
11°	1447.3	1443.4	1439.7
12°	1460.5	1455.3	1451.0
13°	1474.4	1467.4	1461.9
14°	1488.2	1479.9	1474.0
15°	1502.1	1492.7	1485.9
16°	1516.9	1506.3	1498.8
17°	1531.7	1520.7	1512.7
18°	1547.2	1535.5	1527.2
19°	1563.2	1550.6	1542.0
20°	1578.8	1565.8	1558.1
21°	1595.4	1582.4	1574.6
22°	1612.8	1599.6	1592.0
23°	1631.0	1617.5	1610.4
24°	1649.6	1635.9	1629.7
25°	1668.2	1655.5	1649.9
26°	1688.4	1675.5	1671.0
27°	1709.2	1696.0	1692.6
28°	1730.1	1716.7	1715.3
29°	1752.3	1738.0	1738.4
30°	1774.9	1759.4	1761.9
31°	1797.6	1782.1	1785.9
32°	1820.3	1804.6	1809.7
33°	1843.4	1827.4	1833.5
34°	1866.6	1849.6	1857.4
35°	1890.6	1872.2	1882.7
36°	1915.6	1894.8	1907.7
37°	1939.8	1918.6	1932.7
38°	1965.1	1942.7	1958.1
39°	1989.7	1966.9	1983.0
40°	2015.6	1992.3	2007.6
41°	2041.3	2018.1	2031.9
42°	2067.7	2045.2	2057.2
43°	2094.4	2072.7	2081.8
44°	2121.3	2100.1	2105.8



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	2148.8	2129.6	2129.9
46°	2176.9	2158.9	2154.1
47°	2205.6	2189.9	2179.1
48°	2235.3	2221.4	2204.6
49°	2265.8	2254.4	2230.9
50°	2297.2	2287.2	2257.7
51°	2329.3	2321.1	2285.2
52°	2362.3	2354.4	2313.5
53°	2396.6	2387.8	2341.8
54°	2430.1	2420.6	2370.1
55°	2465.2	2453.1	2397.2
56°	2501.3	2483.3	2422.8
57°	2536.7	2511.1	2447.0
58°	2573.4	2536.7	2469.6
59°	2609.0	2560.4	2490.0
60°	2644.6	2581.9	2508.4
61°	2680.1	2600.3	2523.4
62°	2714.8	2616.7	2535.1
63°	2748.2	2630.6	2545.5
64°	2781.5	2643.8	2554.6
65°	2812.1	2655.7	2563.6
66°	2840.7	2667.0	2568.8
67°	2863.8	2674.3	2568.8
68°	2881.5	2673.4	2545.1
69°	2890.1	2654.9	2469.3
70°	2889.9	2600.9	2309.4
71°	2876.5	2482.3	2056.5
72°	2843.0	2270.3	1793.0
73°	2772.5	1989.7	1513.8
74°	2633.2	1673.8	1190.9
75°	2403.2	1343.0	788.5
76°	2107.4	962.3	407.7
77°	1766.6	533.4	295.0
78°	1344.5	384.7	188.6
79°	849.7	236.9	82.1
80°	436.9	89.0	68.2
81°	313.5	74.9	58.3
82°	200.6	63.3	49.7
83°	87.7	52.6	41.7
84°	69.3	43.2	34.4
85°	52.5	35.2	27.2
86°	39.4	27.3	20.0
87°	28.4	19.4	13.5
88°	17.4	12.3	7.7
89°	6.4	5.0	3.1



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1436768

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)