

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: P1436766

Luminaire Tested: XAS180-SFPM (5000K-72W-T3-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436766
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-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

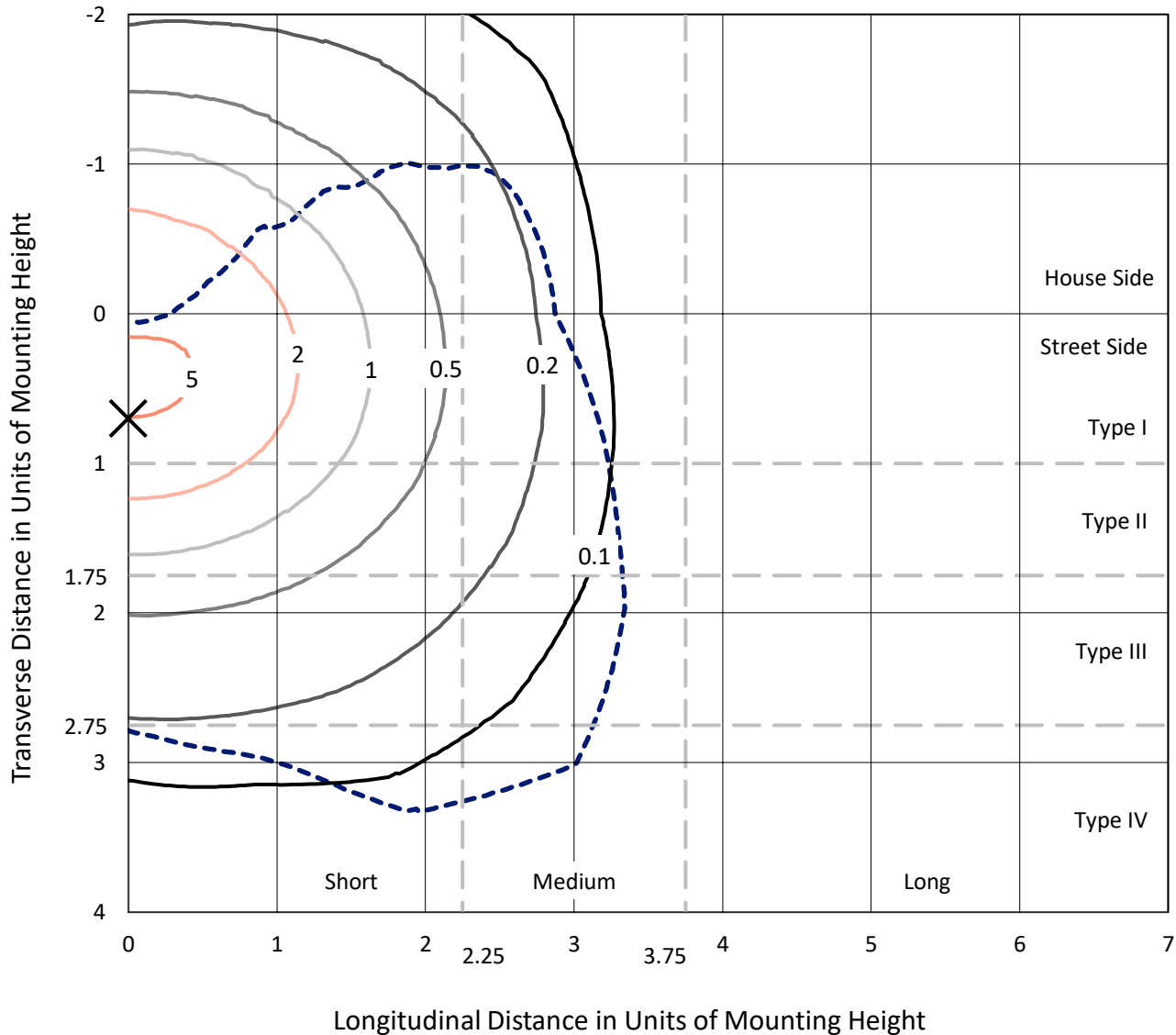
Lumens per Lamp: 24748 (1 lamp)
Luminaire Lumens: 10627.2 lumens
Efficiency: 42.9%
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.2
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

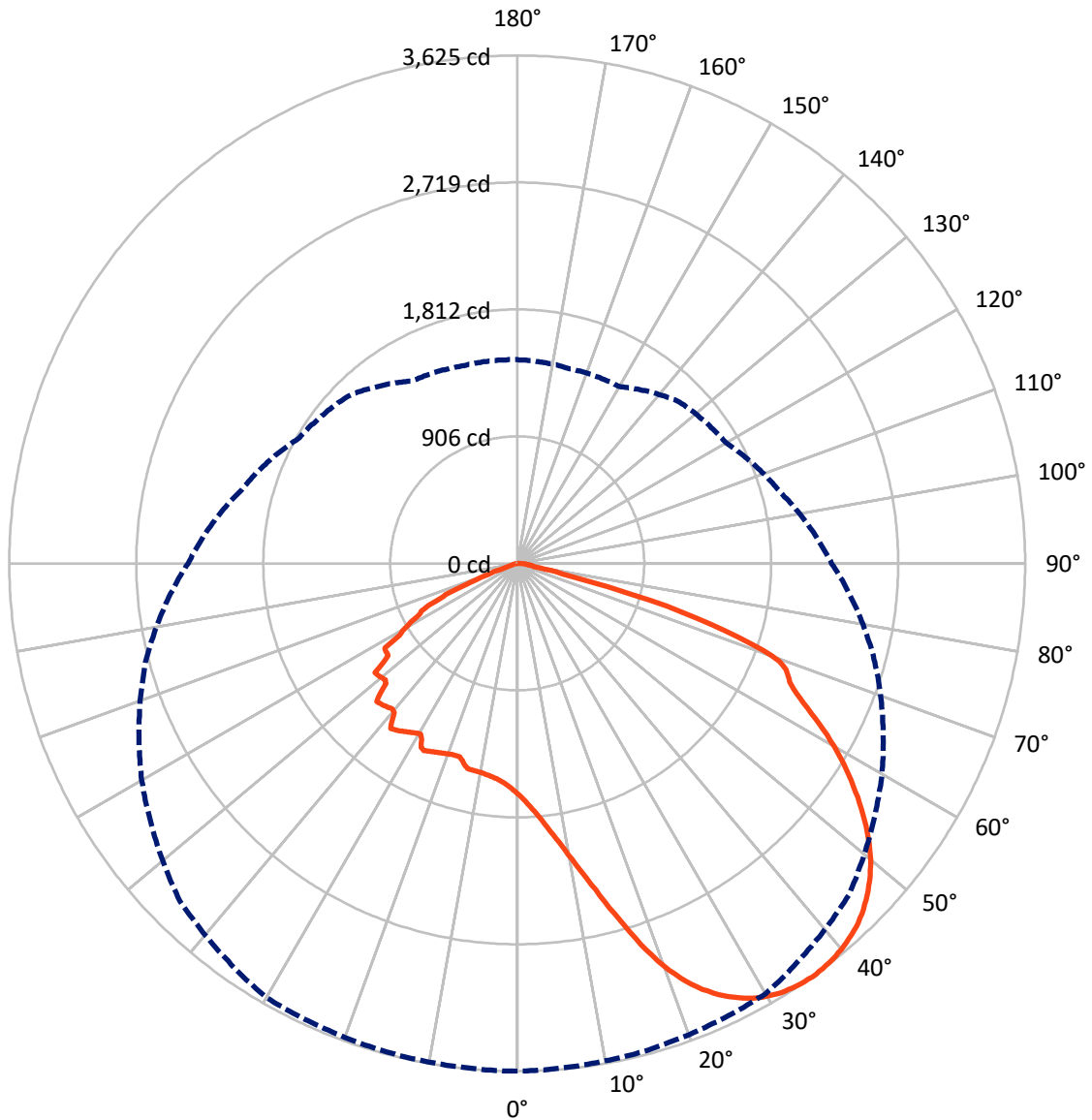
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 35-Deg Vertical

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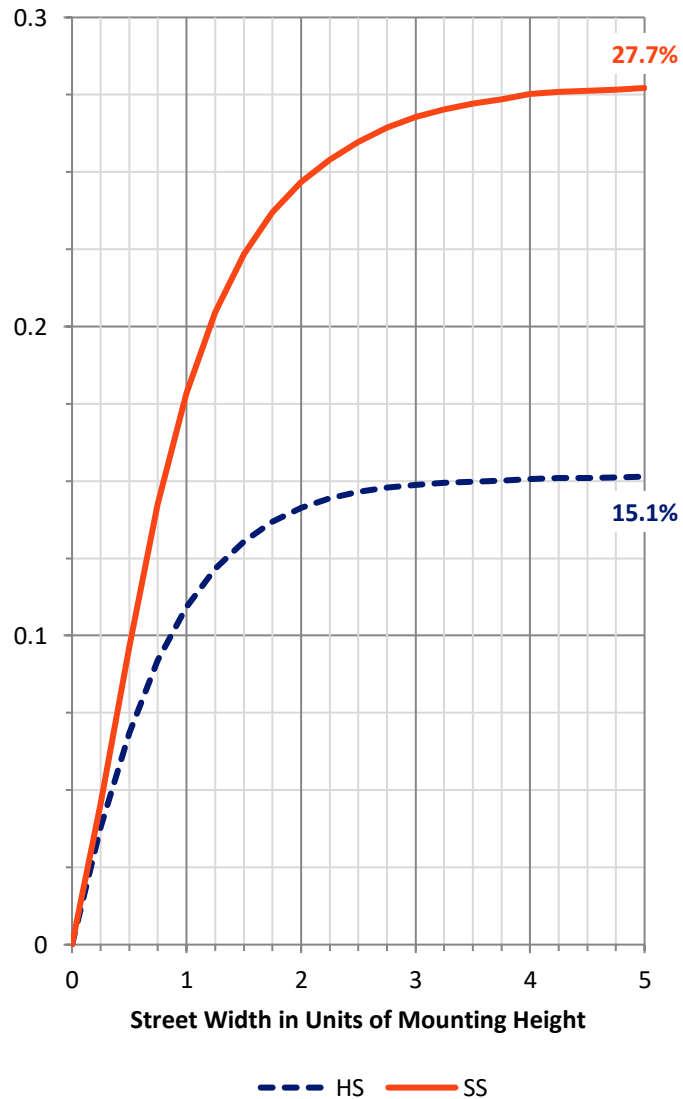
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3764.8	0.0	3764.8
	% Lamp	15.2	0.0	15.2
Street Side	Lumens	6862.3	0.0	6862.3
	% Lamp	27.7	0.0	27.7
Total	Lumens	10627.2	0.0	10627.2
	% Lamp	42.9	0.0	42.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	164.1	1.5	0.7
10°-20°	554.3	5.2	2.2
20°-30°	1048.2	9.9	4.2
30°-40°	1541.0	14.5	6.2
40°-50°	1946.6	18.3	7.9
50°-60°	2155.4	20.3	8.7
60°-70°	2028.0	19.1	8.2
70°-80°	1105.3	10.4	4.5
80°-90°	84.3	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°	10627.2	100.0	42.9
0°-180°	10627.2	100.0	42.9

Coefficient of Utilization



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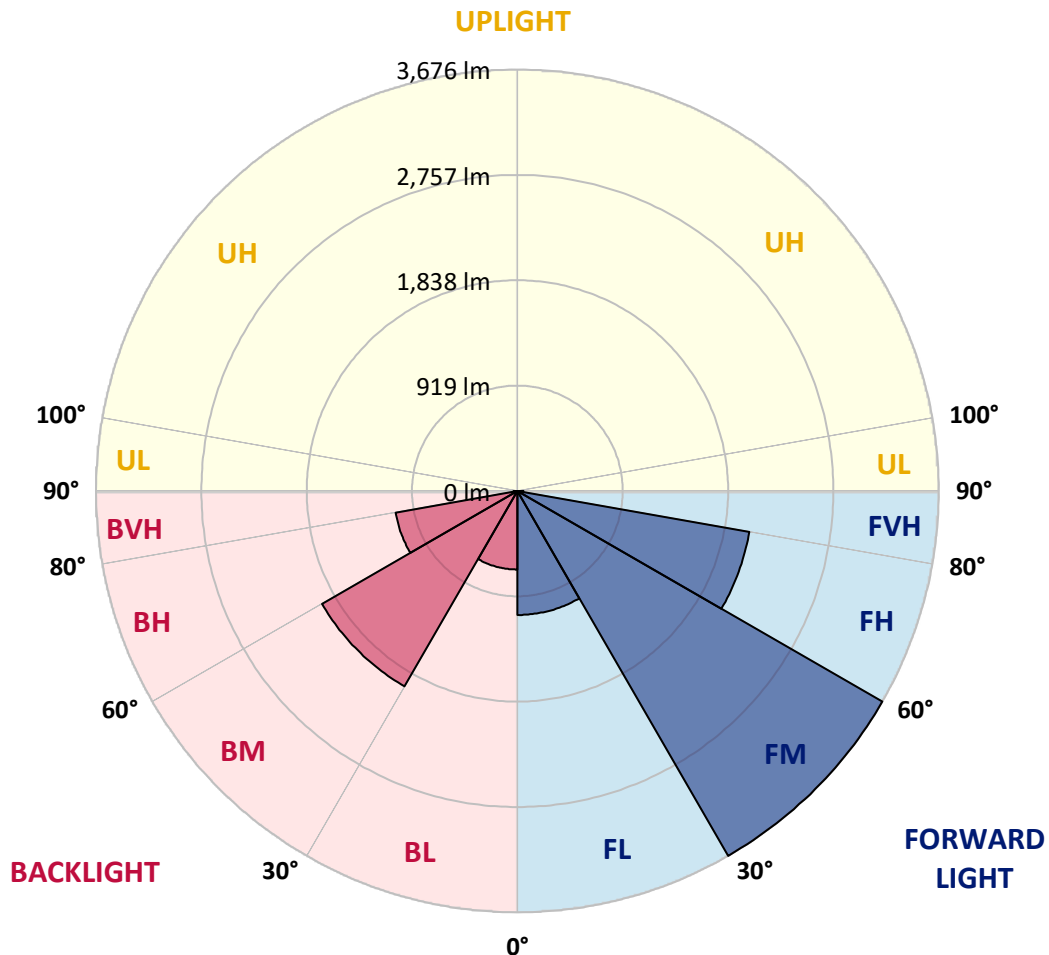
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.3	4.4			
FM (30°-60°)	3675.7	14.9			
FH (60°-80°)	2054.4	8.3			G2/5000
FVH (80°-90°)	51.0	0.2			G1/100
BL (0°-30°)	685.3	2.8	B2/1000		
BM (30°-60°)	1967.4	7.9	B2/2500		
BH (60°-80°)	1078.8	4.4	B3/2500		G3/2500
BVH (80°-90°)	33.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	14120.8	57.1			

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
1°	1683.7	1683.0	1681.1	1676.9	1670.4	1663.6	1649.9	1643.5	1638.4	1633.5	1630.2
2°	1717.9	1715.9	1710.3	1700.1	1686.6	1671.9	1650.7	1637.5	1625.8	1616.6	1609.8
3°	1755.2	1752.4	1742.0	1725.5	1705.2	1682.8	1653.9	1633.4	1616.0	1602.2	1591.9
4°	1797.0	1792.0	1776.7	1754.2	1726.1	1695.8	1658.1	1631.3	1608.2	1589.9	1576.9
5°	1844.5	1837.1	1816.6	1785.6	1749.0	1709.7	1663.6	1630.1	1602.1	1580.0	1565.3
6°	1895.6	1886.1	1860.2	1821.1	1774.2	1725.1	1670.3	1630.1	1597.3	1572.7	1555.5
7°	1951.1	1939.1	1908.1	1860.3	1801.9	1742.9	1678.8	1632.2	1594.0	1567.1	1548.0
8°	2011.6	1997.0	1958.8	1901.6	1831.8	1762.1	1689.7	1636.0	1593.2	1562.6	1541.9
9°	2077.1	2059.1	2013.9	1945.9	1865.2	1783.0	1701.6	1640.6	1593.7	1559.8	1537.0
10°	2148.2	2126.9	2073.6	1993.9	1900.2	1805.5	1714.3	1646.5	1595.8	1559.0	1533.2
11°	2225.0	2200.1	2137.2	2044.9	1937.2	1830.5	1728.7	1654.0	1598.7	1559.5	1531.3
12°	2307.4	2278.1	2205.0	2098.7	1976.0	1856.3	1744.1	1662.2	1603.1	1560.9	1530.9
13°	2396.1	2362.1	2277.5	2157.3	2017.3	1884.1	1760.3	1671.1	1608.1	1563.2	1531.8
14°	2491.5	2453.9	2356.2	2218.0	2060.3	1912.6	1776.7	1680.3	1613.1	1566.4	1532.5
15°	2593.9	2549.0	2439.7	2283.5	2105.6	1940.8	1794.0	1690.6	1619.5	1570.1	1534.6
16°	2699.4	2650.8	2525.0	2351.4	2153.7	1971.6	1812.9	1701.2	1626.6	1573.9	1536.8
17°	2806.7	2751.4	2611.1	2421.5	2203.7	2003.2	1832.0	1712.8	1634.1	1578.4	1528.6
18°	2909.8	2848.6	2696.3	2491.7	2256.6	2036.1	1851.1	1722.2	1642.1	1584.0	1501.8
19°	3008.5	2943.0	2781.2	2561.2	2310.4	2069.2	1864.3	1729.1	1646.3	1589.8	1483.0
20°	3099.4	3032.4	2862.3	2629.7	2364.0	2100.7	1881.0	1737.7	1648.9	1594.1	1472.3
21°	3179.6	3112.6	2940.1	2696.7	2419.3	2129.7	1899.5	1752.4	1653.4	1573.6	1476.7
22°	3249.6	3187.3	3012.8	2761.2	2473.5	2163.0	1922.9	1766.7	1663.5	1556.9	1482.0
23°	3314.3	3253.4	3080.9	2822.4	2527.5	2197.5	1946.5	1779.4	1673.1	1547.0	1488.2
24°	3370.4	3312.6	3144.8	2881.7	2574.2	2235.9	1968.3	1789.8	1679.6	1540.3	1495.6
25°	3419.5	3365.5	3203.1	2938.1	2618.7	2276.7	1987.8	1802.5	1686.6	1547.3	1503.0
26°	3461.2	3411.3	3256.5	2992.2	2664.4	2316.8	2009.0	1816.5	1694.9	1551.0	1511.7
27°	3498.0	3451.7	3305.3	3044.8	2708.1	2355.4	2031.7	1833.3	1706.9	1555.5	1520.1
28°	3529.2	3486.0	3350.5	3093.9	2750.6	2389.1	2056.5	1850.9	1714.0	1562.0	1528.2
29°	3555.6	3515.3	3390.2	3139.7	2792.3	2423.7	2083.9	1868.2	1704.7	1573.3	1537.3
30°	3577.4	3539.6	3426.7	3184.7	2834.3	2458.7	2111.9	1886.2	1705.2	1584.6	1544.6
31°	3594.7	3559.7	3458.2	3225.5	2874.0	2493.4	2140.5	1903.8	1700.3	1596.5	1546.8
32°	3607.1	3574.5	3484.7	3259.5	2911.6	2529.0	2169.4	1917.1	1704.3	1607.9	1501.2
33°	3616.4	3585.6	3509.1	3291.5	2945.8	2565.3	2197.8	1924.2	1700.9	1617.2	1463.3
34°	3622.5	3592.9	3528.4	3319.8	2976.2	2600.9	2224.3	1932.7	1710.3	1625.1	1448.5
35°	3624.7	3596.5	3545.6	3346.4	3004.9	2636.1	2243.3	1946.7	1720.2	1632.2	1456.7
36°	3623.7	3598.1	3557.9	3371.8	3033.1	2669.3	2260.3	1961.5	1732.1	1640.5	1465.1
37°	3619.1	3595.6	3567.5	3394.7	3060.0	2701.5	2280.8	1976.8	1743.8	1638.6	1471.6
38°	3612.1	3591.5	3573.7	3414.6	3086.1	2733.3	2305.9	1993.8	1752.0	1593.7	1477.2
39°	3602.8	3584.4	3577.2	3432.1	3111.2	2763.1	2329.7	2008.5	1759.5	1558.3	1485.6
40°	3590.6	3575.8	3576.0	3447.1	3135.4	2786.7	2353.7	2021.8	1772.7	1548.9	1496.5
41°	3574.5	3563.8	3573.3	3461.1	3158.8	2806.4	2377.7	2034.2	1788.9	1560.6	1507.3
42°	3556.5	3549.7	3566.4	3473.4	3181.7	2824.4	2401.8	2043.6	1804.9	1573.1	1516.5
43°	3533.9	3533.0	3557.4	3482.8	3204.7	2845.3	2422.0	2053.5	1821.1	1586.3	1484.4
44°	3507.4	3513.1	3545.7	3488.1	3226.3	2867.3	2440.6	2071.7	1838.0	1598.4	1432.9

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3477.6	3490.7	3530.1	3489.7	3246.0	2890.4	2456.7	2093.6	1851.0	1606.4	1411.5
46°	3442.9	3464.4	3512.5	3487.5	3265.7	2913.1	2468.9	2116.0	1855.2	1611.8	1419.3
47°	3403.8	3433.5	3492.8	3481.6	3284.5	2935.1	2479.6	2136.5	1855.5	1620.6	1425.9
48°	3362.9	3399.1	3469.2	3472.6	3300.4	2955.5	2489.5	2147.9	1825.6	1631.1	1431.2
49°	3317.1	3360.2	3441.3	3461.8	3312.8	2977.1	2505.8	2155.3	1800.8	1598.4	1438.7
50°	3265.8	3316.9	3409.7	3447.4	3320.7	2995.7	2525.3	2160.0	1792.0	1547.8	1446.7
51°	3210.2	3268.7	3372.0	3429.7	3325.1	3011.1	2544.7	2157.1	1785.4	1526.1	1418.7
52°	3148.8	3216.0	3331.0	3407.5	3327.0	3024.2	2563.2	2171.9	1798.0	1537.7	1341.8
53°	3085.3	3157.8	3285.7	3382.0	3324.9	3036.0	2580.8	2180.4	1805.7	1549.9	1317.5
54°	3017.9	3094.6	3235.6	3354.1	3321.7	3041.7	2596.7	2185.4	1814.2	1558.7	1328.7
55°	2947.4	3028.4	3180.8	3321.3	3313.9	3042.0	2607.4	2195.8	1828.1	1566.7	1341.3
56°	2875.4	2959.3	3124.9	3284.7	3304.6	3040.2	2612.5	2201.9	1843.4	1569.1	1353.7
57°	2802.7	2888.9	3064.7	3246.2	3291.9	3032.8	2611.6	2204.9	1851.3	1515.0	1364.0
58°	2727.8	2814.9	3002.5	3203.8	3274.7	3027.8	2606.8	2210.6	1857.5	1465.9	1294.8
59°	2651.2	2742.9	2938.9	3157.8	3252.8	3022.0	2604.4	2210.5	1826.8	1464.3	1240.9
60°	2570.1	2667.8	2873.0	3109.2	3224.2	3011.7	2599.5	2201.0	1788.5	1481.8	1244.2
61°	2486.7	2590.0	2805.7	3057.3	3190.0	2996.6	2589.3	2188.8	1777.3	1500.7	1248.5
62°	2399.6	2510.8	2740.3	3002.0	3150.2	2974.9	2576.7	2182.4	1782.5	1519.1	1198.2
63°	2314.8	2430.7	2676.1	2945.3	3106.5	2945.2	2554.9	2165.4	1787.2	1482.2	1127.2
64°	2233.5	2353.4	2614.5	2886.6	3055.1	2906.2	2525.3	2145.3	1786.2	1435.9	1112.7
65°	2168.9	2282.4	2553.6	2825.4	2999.1	2859.7	2489.2	2115.5	1766.9	1435.4	1099.1
66°	2120.5	2225.6	2495.3	2764.3	2936.6	2801.9	2446.1	2075.9	1705.1	1444.2	1004.2
67°	2093.3	2183.1	2443.1	2702.4	2866.0	2736.2	2396.4	2024.9	1679.6	1385.2	988.9
68°	2063.0	2154.4	2396.7	2640.2	2784.7	2661.1	2312.0	1970.2	1689.4	1352.5	926.4
69°	1995.0	2123.2	2358.4	2579.2	2697.2	2559.0	2174.3	1906.5	1694.1	1348.1	864.0
70°	1863.7	2067.1	2327.5	2518.0	2609.0	2422.4	1981.6	1813.5	1690.3	1282.6	801.2
71°	1661.6	1958.9	2298.5	2457.0	2503.0	2250.1	1768.5	1686.6	1635.6	1261.9	700.8
72°	1454.6	1784.2	2263.1	2392.5	2380.6	2053.7	1575.9	1537.2	1568.4	1213.9	627.9
73°	1233.8	1562.8	2206.5	2328.8	2239.6	1852.1	1400.0	1390.9	1493.5	1175.7	560.0
74°	983.3	1325.2	2099.7	2252.1	2080.4	1658.3	1194.2	1261.3	1406.5	1108.3	473.2
75°	668.9	1067.3	1916.4	2144.6	1901.5	1436.5	909.1	1119.7	1295.2	1040.6	422.3
76°	370.8	757.3	1679.7	1987.5	1714.1	1136.3	624.0	898.7	1195.4	922.3	377.9
77°	286.6	432.8	1426.6	1762.4	1506.0	750.1	339.2	676.2	1096.9	804.1	333.0
78°	204.3	329.8	1120.4	1453.9	1247.9	417.4	163.3	390.2	907.2	685.4	286.4
79°	122.0	227.5	735.1	1092.7	909.9	276.6	122.8	283.0	717.5	540.9	237.6
80°	108.0	125.3	400.5	719.1	560.8	141.2	82.6	175.8	527.1	412.0	200.9
81°	96.5	108.6	303.7	375.6	408.2	117.0	70.0	69.0	283.7	303.0	180.7
82°	86.2	96.0	210.2	249.1	258.2	99.9	59.4	54.9	208.5	241.9	178.4
83°	76.5	84.6	116.7	130.4	108.3	81.9	49.5	43.5	133.2	191.7	146.6
84°	67.3	73.8	97.3	106.7	87.8	63.8	40.4	34.6	60.1	147.4	112.8
85°	58.6	64.0	79.1	90.5	69.7	50.0	31.6	27.2	51.5	103.2	78.9
86°	50.1	55.0	64.5	75.4	53.6	40.2	23.5	20.9	40.6	59.2	45.3
87°	41.8	46.3	51.9	58.7	41.3	30.6	16.3	15.4	30.0	33.5	28.2
88°	36.1	38.9	40.3	40.6	30.1	20.9	11.5	10.9	20.8	23.0	19.4
89°	30.5	31.6	31.1	28.9	18.8	12.7	6.6	6.4	11.6	12.4	10.5



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CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
1°	1628.5	1628.7	1630.5	1634.1	1639.2	1644.3	1651.6	1652.7	1660.0	1667.3	1673.8
2°	1606.1	1606.0	1608.8	1615.4	1623.8	1635.1	1648.1	1656.3	1671.2	1685.4	1698.6
3°	1586.6	1585.9	1589.6	1597.9	1610.8	1626.7	1646.1	1661.6	1683.5	1706.1	1726.1
4°	1569.9	1569.1	1573.8	1584.1	1600.0	1621.0	1646.0	1668.2	1698.5	1729.0	1756.6
5°	1557.4	1556.1	1560.9	1573.1	1591.3	1616.5	1647.2	1676.7	1714.9	1754.1	1790.1
6°	1546.5	1544.5	1550.5	1564.6	1585.0	1613.4	1650.0	1686.7	1733.3	1781.6	1826.0
7°	1537.3	1535.0	1541.6	1557.2	1581.1	1612.9	1654.6	1698.7	1753.5	1811.8	1867.0
8°	1530.2	1527.6	1534.4	1552.2	1578.5	1613.9	1660.7	1711.4	1775.4	1845.1	1910.4
9°	1523.8	1521.3	1529.0	1548.5	1577.4	1616.1	1667.3	1725.1	1799.1	1880.2	1957.3
10°	1519.3	1516.0	1524.8	1546.5	1577.6	1619.2	1675.1	1740.8	1824.4	1917.6	2007.2
11°	1515.7	1512.4	1522.3	1545.7	1579.3	1624.3	1684.6	1758.5	1852.8	1957.4	2060.3
12°	1513.6	1510.2	1520.6	1546.3	1582.6	1630.2	1695.7	1776.3	1881.2	1999.8	2117.0
13°	1513.3	1509.4	1520.5	1547.6	1587.1	1637.4	1707.2	1795.5	1911.7	2044.7	2178.2
14°	1513.4	1508.9	1521.5	1550.5	1592.6	1645.4	1719.5	1815.4	1942.8	2091.5	2242.6
15°	1511.7	1490.4	1520.0	1553.8	1598.3	1654.5	1732.5	1837.1	1975.6	2142.0	2311.4
16°	1479.7	1460.0	1490.6	1557.3	1604.5	1664.6	1746.3	1858.3	2010.0	2193.3	2383.8
17°	1455.9	1442.1	1467.7	1551.4	1611.3	1674.8	1761.4	1881.0	2045.2	2248.4	2458.0
18°	1443.4	1438.8	1455.5	1525.3	1619.4	1685.6	1774.7	1903.6	2082.3	2305.8	2532.9
19°	1445.3	1441.0	1457.2	1508.4	1626.6	1693.5	1784.0	1922.7	2120.2	2363.9	2607.5
20°	1448.5	1444.1	1460.9	1499.8	1633.2	1698.9	1795.2	1941.6	2159.2	2423.2	2679.6
21°	1452.8	1449.1	1465.7	1503.6	1619.7	1705.8	1811.1	1963.3	2194.6	2483.8	2749.4
22°	1458.9	1454.6	1472.0	1510.2	1600.2	1718.3	1828.7	1988.4	2230.6	2542.4	2815.4
23°	1465.2	1461.8	1479.8	1517.6	1591.1	1731.4	1846.8	2015.7	2270.5	2600.7	2878.4
24°	1472.2	1468.8	1488.0	1526.0	1588.4	1742.3	1861.4	2043.0	2312.6	2656.3	2938.2
25°	1479.5	1475.5	1495.7	1535.1	1595.7	1750.7	1875.2	2067.9	2356.9	2705.4	2993.9
26°	1487.1	1483.5	1504.1	1545.6	1602.5	1759.5	1890.3	2091.3	2402.1	2750.3	3047.4
27°	1494.6	1491.7	1512.2	1555.2	1607.9	1770.3	1906.8	2116.4	2446.7	2795.1	3098.9
28°	1502.5	1483.4	1520.6	1565.2	1614.6	1779.5	1926.1	2143.5	2488.5	2838.0	3148.2
29°	1478.7	1430.6	1502.2	1574.9	1625.8	1776.7	1945.8	2172.1	2525.3	2879.6	3194.8
30°	1429.1	1402.3	1451.7	1583.1	1638.2	1774.4	1965.5	2202.2	2564.1	2921.3	3238.3
31°	1404.9	1405.8	1427.1	1586.3	1650.9	1774.2	1985.0	2233.4	2602.0	2960.7	3279.9
32°	1409.7	1416.8	1431.0	1549.6	1664.1	1774.8	2000.6	2264.5	2638.0	2998.2	3317.6
33°	1419.6	1428.4	1440.9	1512.3	1676.0	1774.5	2010.6	2295.0	2675.3	3034.5	3350.7
34°	1429.4	1440.3	1451.1	1495.8	1685.6	1784.0	2020.7	2325.4	2711.0	3066.1	3379.1
35°	1439.4	1453.5	1461.3	1502.2	1695.0	1794.5	2036.2	2349.7	2747.1	3093.9	3406.1
36°	1450.4	1465.5	1472.2	1512.4	1702.5	1806.3	2052.9	2369.8	2781.0	3121.4	3431.7
37°	1460.1	1476.8	1483.0	1520.0	1706.8	1819.5	2069.8	2392.5	2813.6	3147.7	3455.7
38°	1469.6	1485.9	1493.3	1526.5	1663.2	1829.7	2089.1	2418.2	2845.1	3174.4	3475.8
39°	1476.5	1431.6	1501.5	1533.5	1629.2	1838.7	2108.0	2443.6	2875.0	3199.4	3493.1
40°	1420.5	1379.5	1451.8	1544.6	1619.0	1851.6	2124.0	2468.7	2900.6	3223.0	3508.1
41°	1369.9	1368.5	1398.7	1556.4	1629.1	1868.8	2138.1	2494.0	2920.2	3246.4	3521.1
42°	1358.2	1376.2	1384.0	1567.1	1641.9	1886.9	2148.1	2519.1	2938.0	3269.8	3531.1
43°	1367.5	1384.8	1393.4	1546.1	1655.5	1904.7	2159.0	2542.5	2957.0	3291.9	3539.1
44°	1377.6	1392.9	1404.1	1490.9	1668.7	1923.1	2179.9	2563.9	2976.6	3312.0	3543.9

REPORT NUMBER: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1387.9	1401.0	1414.4	1464.9	1678.1	1937.8	2203.3	2582.8	2997.6	3330.7	3543.9
46°	1398.5	1405.8	1425.1	1470.6	1684.3	1943.4	2226.8	2595.2	3019.6	3347.4	3539.7
47°	1408.5	1349.2	1433.8	1476.9	1692.5	1947.2	2249.8	2605.4	3040.0	3363.2	3531.1
48°	1354.7	1271.6	1388.7	1482.3	1703.4	1931.5	2267.6	2614.2	3059.2	3376.9	3520.9
49°	1279.0	1256.6	1311.5	1489.5	1682.8	1905.4	2272.7	2629.3	3076.4	3386.1	3507.7
50°	1265.7	1262.9	1293.0	1496.7	1630.2	1887.0	2276.3	2647.5	3091.8	3390.2	3491.4
51°	1276.2	1269.8	1303.4	1477.2	1600.6	1878.8	2273.1	2663.6	3102.8	3389.3	3472.6
52°	1287.2	1276.7	1313.1	1399.5	1609.7	1888.2	2273.9	2678.9	3111.2	3385.7	3449.1
53°	1297.0	1279.9	1322.4	1369.4	1622.3	1895.9	2283.0	2691.7	3115.8	3378.2	3423.2
54°	1301.9	1187.7	1327.9	1379.9	1630.6	1902.9	2285.3	2702.2	3113.8	3370.2	3392.8
55°	1218.4	1130.9	1244.8	1392.2	1638.3	1912.2	2286.9	2707.3	3106.9	3358.3	3360.4
56°	1156.6	1127.0	1182.2	1405.0	1640.9	1926.3	2287.1	2704.5	3095.2	3344.9	3324.9
57°	1152.5	1128.9	1175.6	1414.1	1600.8	1931.8	2284.2	2695.3	3079.7	3327.7	3285.0
58°	1154.3	1119.5	1176.9	1348.5	1543.5	1934.5	2282.9	2683.4	3063.4	3303.7	3242.5
59°	1132.6	986.7	1159.1	1289.9	1537.7	1913.2	2279.5	2671.5	3046.9	3276.7	3196.3
60°	1015.7	950.3	1041.2	1290.2	1554.4	1865.9	2263.7	2657.5	3026.2	3245.2	3145.7
61°	993.1	894.5	1015.6	1293.9	1572.4	1843.0	2244.6	2639.7	3000.9	3207.8	3091.8
62°	990.1	838.7	1009.3	1250.9	1588.3	1842.4	2233.6	2617.4	2970.2	3164.0	3035.7
63°	932.5	783.5	950.1	1172.4	1555.7	1841.8	2214.1	2587.8	2932.5	3112.7	2977.0
64°	874.9	767.6	890.9	1156.9	1500.1	1836.7	2188.2	2549.1	2886.9	3057.4	2917.6
65°	817.1	701.3	831.3	1147.2	1491.9	1815.6	2152.0	2501.2	2830.7	2996.7	2853.4
66°	726.9	586.5	743.1	1045.3	1492.3	1754.2	2106.7	2444.0	2763.9	2931.0	2785.9
67°	635.1	559.2	648.2	1023.3	1430.8	1714.0	2052.5	2374.9	2691.0	2855.5	2718.8
68°	571.3	390.5	586.2	983.1	1396.3	1715.7	1978.6	2255.5	2597.9	2771.9	2652.2
69°	465.5	322.4	478.3	897.3	1383.2	1712.2	1889.6	2079.4	2469.0	2679.9	2587.9
70°	372.8	222.1	383.5	811.3	1313.1	1698.5	1766.3	1848.8	2306.8	2578.5	2519.4
71°	256.4	121.9	256.1	725.7	1281.8	1629.6	1611.7	1635.6	2103.6	2458.4	2447.6
72°	141.7	22.3	132.4	652.3	1227.9	1540.7	1446.9	1440.2	1887.8	2322.3	2375.6
73°	119.3	0.3	107.4	575.5	1173.0	1449.1	1287.1	1245.5	1676.7	2157.9	2295.1
74°	96.9	0.2	82.6	473.3	1091.8	1348.3	1138.8	1013.9	1467.5	1971.2	2201.0
75°	74.6	0.2	71.7	415.3	1001.0	1230.1	915.0	710.3	1218.1	1764.2	2069.7
76°	56.7	0.2	57.1	369.2	872.8	1112.5	691.1	411.5	881.5	1545.8	1893.6
77°	39.9	0.3	45.2	325.5	744.5	942.8	467.2	264.4	525.1	1313.5	1647.7
78°	29.9	0.3	36.6	282.0	616.4	773.1	240.5	120.8	392.9	1029.0	1329.0
79°	29.4	0.3	36.4	234.5	493.1	602.2	157.0	92.2	262.7	695.8	963.4
80°	39.4	0.4	43.9	203.0	383.0	344.4	74.5	78.2	132.5	406.6	599.5
81°	48.2	0.4	45.4	188.7	287.8	249.8	59.7	66.5	112.6	269.9	439.3
82°	42.6	0.5	28.3	175.8	223.2	155.1	49.2	55.9	96.2	135.2	283.2
83°	26.6	0.5	20.1	133.3	167.6	61.1	40.1	46.5	79.4	103.3	127.0
84°	19.5	0.6	11.9	90.8	111.9	50.9	32.2	38.1	62.8	85.1	105.6
85°	12.4	0.7	4.0	48.7	56.9	40.1	25.6	29.7	49.0	66.8	89.7
86°	5.5	0.7	3.6	24.7	31.7	29.9	19.8	21.3	39.4	51.8	74.7
87°	4.0	0.8	3.5	17.4	18.0	21.5	14.5	14.3	29.8	40.0	58.0
88°	2.9	0.9	3.1	10.1	12.6	15.0	10.3	8.3	20.2	29.1	40.3
89°	2.3	0.9	1.9	2.9	7.2	8.5	6.0	3.6	12.4	18.1	28.8



REPORT NUMBER: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1654.0	1654.0	1654.0
1°	1678.6	1682.1	1683.7
2°	1708.6	1715.4	1717.9
3°	1741.5	1751.7	1755.2
4°	1778.5	1792.8	1797.0
5°	1818.7	1838.3	1844.5
6°	1863.1	1888.3	1895.6
7°	1911.9	1941.5	1951.1
8°	1964.6	1999.9	2011.6
9°	2021.5	2063.6	2077.1
10°	2081.1	2132.6	2148.2
11°	2147.7	2206.1	2225.0
12°	2218.3	2286.7	2307.4
13°	2294.4	2371.6	2396.1
14°	2375.7	2463.2	2491.5
15°	2460.9	2560.1	2593.9
16°	2547.6	2659.1	2699.4
17°	2635.8	2760.9	2806.7
18°	2724.5	2861.7	2909.8
19°	2810.3	2958.9	3008.5
20°	2893.1	3049.0	3099.4
21°	2970.8	3131.1	3179.6
22°	3043.3	3206.0	3249.6
23°	3112.8	3271.4	3314.3
24°	3177.3	3329.8	3370.4
25°	3237.0	3381.1	3419.5
26°	3291.4	3426.3	3461.2
27°	3342.7	3465.3	3498.0
28°	3386.9	3499.3	3529.2
29°	3427.4	3527.4	3555.6
30°	3462.5	3550.7	3577.4
31°	3494.2	3570.4	3594.7
32°	3521.5	3586.2	3607.1
33°	3544.9	3597.4	3616.4
34°	3563.5	3605.1	3622.5
35°	3578.7	3609.1	3624.7
36°	3590.6	3608.7	3623.7
37°	3599.6	3606.4	3619.1
38°	3605.0	3602.0	3612.1
39°	3606.9	3594.1	3602.8
40°	3605.8	3584.7	3590.6
41°	3602.1	3573.5	3574.5
42°	3595.2	3559.4	3556.5
43°	3585.0	3543.1	3533.9
44°	3572.7	3523.9	3507.4



REPORT NUMBER: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3557.3	3501.5	3477.6
46°	3539.8	3476.1	3442.9
47°	3519.1	3445.7	3403.8
48°	3496.7	3412.5	3362.9
49°	3470.0	3374.9	3317.1
50°	3438.4	3333.7	3265.8
51°	3402.3	3287.4	3210.2
52°	3360.4	3234.9	3148.8
53°	3315.1	3179.8	3085.3
54°	3265.5	3118.6	3017.9
55°	3214.1	3055.3	2947.4
56°	3158.0	2986.1	2875.4
57°	3099.4	2915.8	2802.7
58°	3037.1	2843.2	2727.8
59°	2972.5	2769.7	2651.2
60°	2907.3	2693.7	2570.1
61°	2842.2	2616.5	2486.7
62°	2776.9	2536.7	2399.6
63°	2713.9	2459.6	2314.8
64°	2654.8	2385.1	2233.5
65°	2597.3	2316.4	2168.9
66°	2541.6	2258.6	2120.5
67°	2488.7	2216.7	2093.3
68°	2439.9	2187.6	2063.0
69°	2396.6	2156.3	1995.0
70°	2362.4	2105.2	1863.7
71°	2327.5	2005.4	1661.6
72°	2284.6	1833.4	1454.6
73°	2221.1	1610.3	1233.8
74°	2105.2	1364.2	983.3
75°	1920.3	1104.3	668.9
76°	1685.0	808.1	370.8
77°	1418.1	482.0	286.6
78°	1098.6	361.8	204.3
79°	722.1	245.2	122.0
80°	405.4	128.5	108.0
81°	305.2	112.0	96.5
82°	212.3	99.0	86.2
83°	119.4	87.1	76.5
84°	98.8	76.0	67.3
85°	80.1	65.7	58.6
86°	65.5	56.3	50.1
87°	52.5	47.4	41.8
88°	40.2	39.7	36.1
89°	31.1	32.0	30.5



REPORT NUMBER: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1436766

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)