

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: P1445035

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

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445035
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (5000K-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: 24748 (1 lamp)
Luminaire Lumens: 10775.6 lumens
Efficiency: 43.5%
Efficacy: 150.3 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

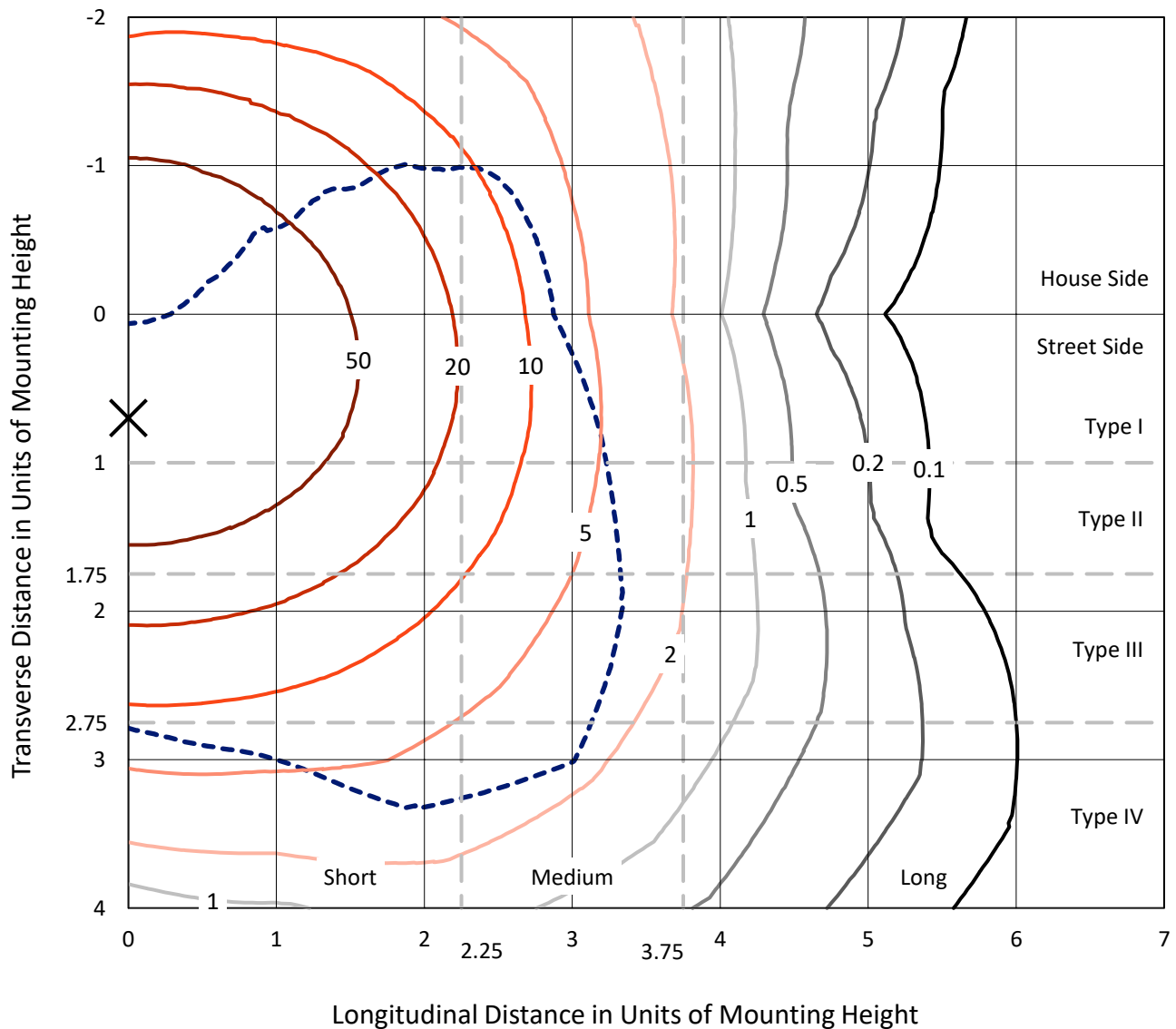
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1445035

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

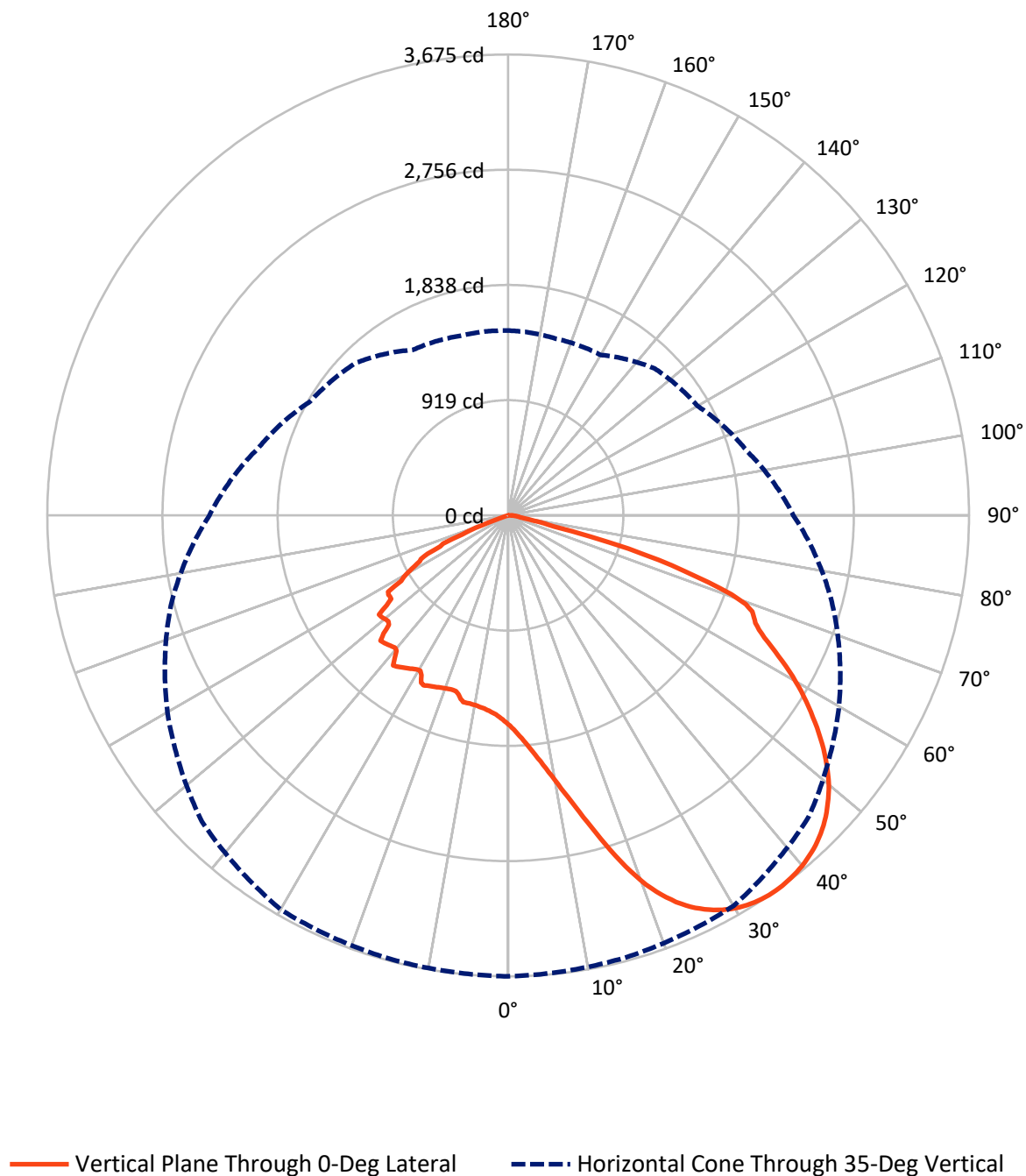


Based on 3 foot mounting height. Maximum calculated value = 290.8 fc
Type IV - Short - Full Cutoff

REPORT NUMBER: P1445035

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

Luminous Intensity Polar Plot



REPORT NUMBER: P1445035

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

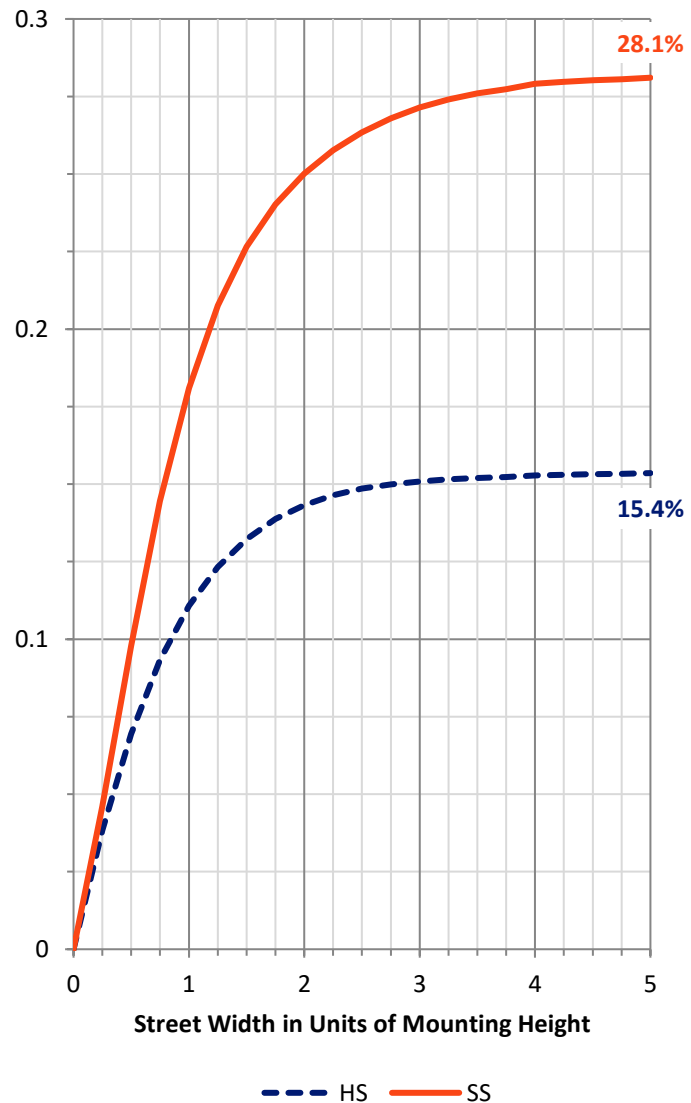
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3817.4	0.0	3817.4
	% Lamp	15.4	0.0	15.4
Street Side	Lumens	6958.2	0.0	6958.2
	% Lamp	28.1	0.0	28.1
Total	Lumens	10775.6	0.0	10775.6
	% Lamp	43.5	0.0	43.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	166.4	1.5	0.7
10°-20°	562.1	5.2	2.3
20°-30°	1062.8	9.9	4.3
30°-40°	1562.6	14.5	6.3
40°-50°	1973.8	18.3	8.0
50°-60°	2185.5	20.3	8.8
60°-70°	2056.3	19.1	8.3
70°-80°	1120.7	10.4	4.5
80°-90°	85.5	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	43.5
0°-180°	10775.6	100.0	43.5

Coefficient of Utilization



REPORT NUMBER: P1445035

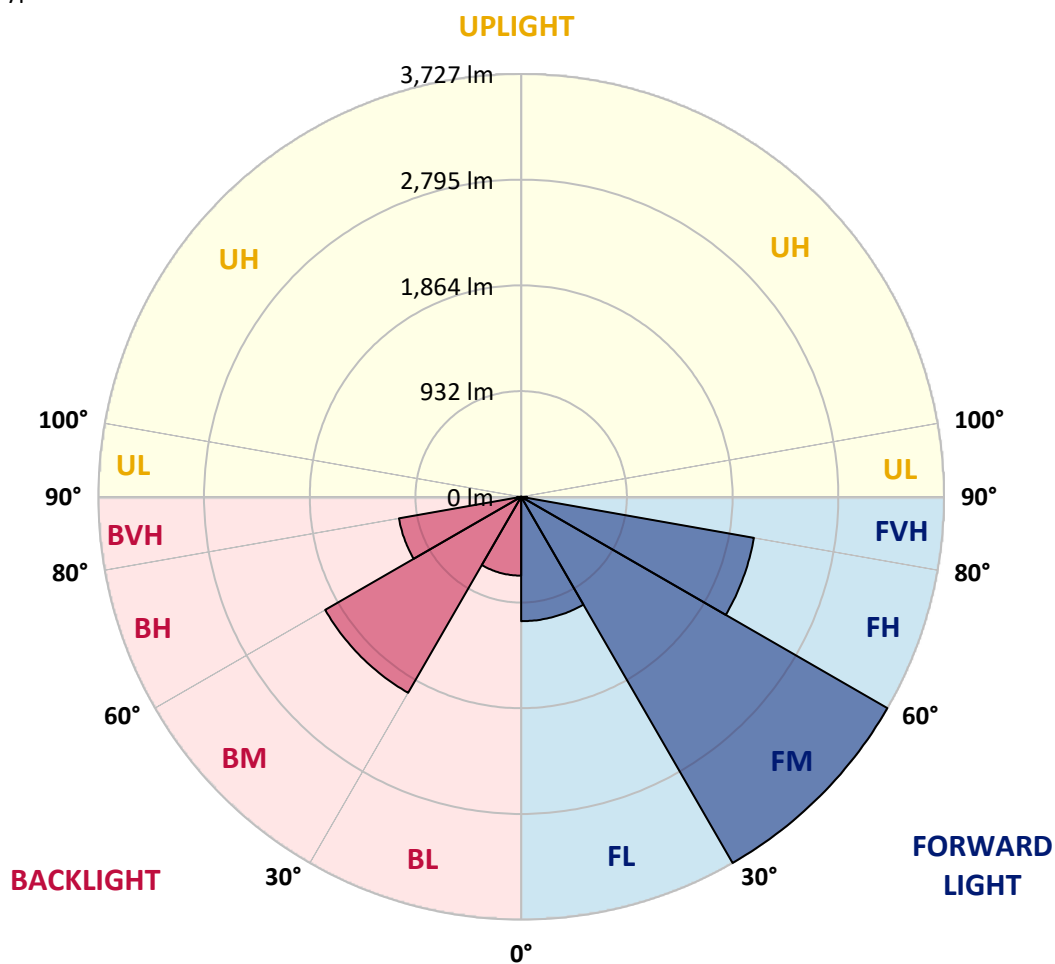
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1096.4	4.4			
FM	(30°-60°)	3727.0	15.1			
FH	(60°-80°)	2083.1	8.4			G2/5000
FVH	(80°-90°)	51.7	0.2			G1/100
BL	(0°-30°)	694.9	2.8	B2/1000		
BM	(30°-60°)	1994.8	8.1	B2/2500		
BH	(60°-80°)	1093.9	4.4	B3/2500		G3/2500
BVH	(80°-90°)	33.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13972.4	56.5			

BUG Rating: B3-U0-G3

Type IV Short



REPORT NUMBER: P1445035

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

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
1°	1707.2	1706.6	1704.6	1700.3	1693.7	1686.9	1672.9	1666.5	1661.3	1656.3	1653.0
2°	1741.9	1739.9	1734.2	1723.9	1710.2	1695.3	1673.7	1660.4	1648.6	1639.1	1632.3
3°	1779.7	1776.9	1766.3	1749.6	1729.0	1706.3	1677.0	1656.3	1638.5	1624.6	1614.2
4°	1822.1	1817.1	1801.5	1778.7	1750.2	1719.4	1681.2	1654.1	1630.6	1612.2	1599.0
5°	1870.2	1862.7	1842.0	1810.5	1773.4	1733.5	1686.8	1652.8	1624.5	1602.1	1587.1
6°	1922.1	1912.4	1886.2	1846.5	1799.0	1749.2	1693.7	1652.9	1619.6	1594.7	1577.3
7°	1978.3	1966.1	1934.8	1886.3	1827.1	1767.2	1702.2	1655.0	1616.3	1588.9	1569.6
8°	2039.7	2024.9	1986.1	1928.1	1857.4	1786.7	1713.3	1658.8	1615.5	1584.4	1563.5
9°	2106.1	2087.9	2042.1	1973.1	1891.2	1807.9	1725.4	1663.5	1615.9	1581.5	1558.4
10°	2178.2	2156.6	2102.6	2021.7	1926.7	1830.7	1738.2	1669.5	1618.1	1580.8	1554.6
11°	2256.1	2230.8	2167.1	2073.4	1964.2	1856.1	1752.8	1677.1	1621.1	1581.3	1552.7
12°	2339.6	2309.9	2235.8	2128.0	2003.6	1882.2	1768.5	1685.4	1625.5	1582.7	1552.3
13°	2429.6	2395.1	2309.3	2187.4	2045.4	1910.4	1784.8	1694.5	1630.5	1585.1	1553.2
14°	2526.3	2488.2	2389.1	2249.0	2089.1	1939.3	1801.6	1703.7	1635.6	1588.3	1553.9
15°	2630.1	2584.6	2473.7	2315.4	2135.0	1967.9	1819.1	1714.2	1642.2	1592.1	1556.1
16°	2737.1	2687.8	2560.3	2384.3	2183.8	1999.1	1838.2	1724.9	1649.3	1595.9	1558.2
17°	2845.9	2789.8	2647.6	2455.3	2234.5	2031.2	1857.6	1736.7	1656.9	1600.5	1549.9
18°	2950.4	2888.4	2733.9	2526.5	2288.1	2064.6	1876.9	1746.3	1665.0	1606.1	1522.8
19°	3050.5	2984.1	2820.1	2597.0	2342.6	2098.1	1890.3	1753.3	1669.3	1612.0	1503.7
20°	3142.7	3074.8	2902.2	2666.5	2397.1	2130.0	1907.2	1762.0	1672.0	1616.4	1492.9
21°	3224.0	3156.1	2981.2	2734.4	2453.1	2159.4	1926.0	1776.9	1676.5	1595.6	1497.3
22°	3295.0	3231.8	3054.8	2799.8	2508.1	2193.2	1949.7	1791.4	1686.8	1578.6	1502.7
23°	3360.6	3298.8	3123.9	2861.8	2562.8	2228.2	1973.7	1804.3	1696.5	1568.6	1509.0
24°	3417.5	3358.8	3188.7	2921.9	2610.2	2267.1	1995.8	1814.8	1703.1	1561.8	1516.4
25°	3467.2	3412.5	3247.8	2979.1	2655.3	2308.5	2015.6	1827.7	1710.2	1568.9	1524.0
26°	3509.5	3458.9	3301.9	3033.9	2701.6	2349.1	2037.0	1841.8	1718.5	1572.7	1532.9
27°	3546.8	3499.9	3351.4	3087.3	2746.0	2388.3	2060.1	1858.9	1730.8	1577.2	1541.4
28°	3578.5	3534.7	3397.3	3137.1	2789.0	2422.5	2085.2	1876.8	1737.9	1583.8	1549.6
29°	3605.2	3564.4	3437.5	3183.5	2831.3	2457.5	2113.0	1894.3	1728.5	1595.3	1558.7
30°	3627.4	3589.0	3474.6	3229.1	2873.9	2493.1	2141.4	1912.5	1729.1	1606.8	1566.1
31°	3644.9	3609.5	3506.5	3270.5	2914.1	2528.3	2170.4	1930.4	1724.1	1618.8	1568.4
32°	3657.5	3624.4	3533.4	3305.0	2952.3	2564.4	2199.7	1943.9	1728.1	1630.4	1522.2
33°	3666.9	3635.7	3558.1	3337.4	2986.9	2601.1	2228.5	1951.1	1724.6	1639.8	1483.8
34°	3673.1	3643.1	3577.7	3366.2	3017.8	2637.2	2255.3	1959.7	1734.2	1647.8	1468.8
35°	3675.3	3646.7	3595.1	3393.1	3046.8	2672.9	2274.6	1973.9	1744.3	1655.0	1477.0
36°	3674.3	3648.4	3607.6	3418.9	3075.4	2706.6	2291.8	1988.9	1756.3	1663.4	1485.6
37°	3669.6	3645.9	3617.4	3442.1	3102.7	2739.3	2312.7	2004.5	1768.1	1661.5	1492.2
38°	3662.5	3641.6	3623.6	3462.3	3129.2	2771.4	2338.2	2021.7	1776.4	1616.0	1497.8
39°	3653.1	3634.5	3627.1	3480.1	3154.6	2801.7	2362.2	2036.5	1784.1	1580.0	1506.4
40°	3640.8	3625.8	3625.9	3495.3	3179.2	2825.6	2386.5	2050.0	1797.5	1570.5	1517.5
41°	3624.4	3613.6	3623.2	3509.5	3203.0	2845.6	2410.9	2062.6	1813.9	1582.4	1528.3
42°	3606.2	3599.3	3616.3	3521.9	3226.2	2863.8	2435.3	2072.2	1830.1	1595.1	1537.7
43°	3583.3	3582.4	3607.1	3531.4	3249.4	2885.1	2455.8	2082.1	1846.6	1608.4	1505.2
44°	3556.4	3562.2	3595.2	3536.8	3271.4	2907.3	2474.7	2100.6	1863.7	1620.8	1452.9

REPORT NUMBER: P1445035

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

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3526.1	3539.4	3579.4	3538.5	3291.4	2930.8	2491.0	2122.9	1876.9	1628.9	1431.2
46°	3491.0	3512.8	3561.5	3536.2	3311.3	2953.7	2503.4	2145.5	1881.1	1634.3	1439.2
47°	3451.4	3481.5	3541.6	3530.2	3330.4	2976.1	2514.2	2166.4	1881.4	1643.2	1445.8
48°	3409.9	3446.5	3517.6	3521.1	3346.5	2996.8	2524.3	2177.9	1851.1	1653.9	1451.2
49°	3363.4	3407.2	3489.4	3510.2	3359.1	3018.7	2540.8	2185.4	1825.9	1620.8	1458.8
50°	3311.4	3363.2	3457.3	3495.6	3367.0	3037.5	2560.6	2190.2	1817.1	1569.4	1466.9
51°	3255.1	3314.3	3419.1	3477.6	3371.5	3053.2	2580.3	2187.2	1810.4	1547.4	1438.5
52°	3192.8	3260.9	3377.5	3455.1	3373.5	3066.5	2599.0	2202.2	1823.1	1559.2	1360.6
53°	3128.4	3201.9	3331.6	3429.2	3371.3	3078.4	2616.9	2210.9	1830.9	1571.6	1335.9
54°	3060.0	3137.8	3280.8	3401.0	3368.1	3084.2	2632.9	2215.9	1839.5	1580.5	1347.3
55°	2988.6	3070.7	3225.3	3367.7	3360.2	3084.5	2643.8	2226.4	1853.7	1588.6	1360.1
56°	2915.5	3000.6	3168.5	3330.5	3350.7	3082.7	2649.0	2232.6	1869.2	1591.0	1372.6
57°	2841.8	2929.3	3107.5	3291.6	3337.9	3075.2	2648.1	2235.7	1877.1	1536.2	1383.0
58°	2765.9	2854.3	3044.5	3248.5	3320.5	3070.1	2643.3	2241.5	1883.4	1486.4	1312.9
59°	2688.2	2781.2	2979.9	3201.9	3298.3	3064.2	2640.8	2241.4	1852.3	1484.8	1258.2
60°	2606.0	2705.0	2913.2	3152.6	3269.2	3053.8	2635.8	2231.7	1813.4	1502.5	1261.6
61°	2521.5	2626.2	2844.9	3100.0	3234.5	3038.4	2625.4	2219.3	1802.1	1521.7	1266.0
62°	2433.2	2545.9	2778.6	3044.0	3194.2	3016.5	2612.6	2212.9	1807.4	1540.3	1214.9
63°	2347.2	2464.6	2713.5	2986.4	3149.9	2986.3	2590.6	2195.6	1812.1	1502.9	1142.9
64°	2264.7	2386.3	2651.0	2926.9	3097.8	2946.8	2560.6	2175.2	1811.2	1456.0	1128.2
65°	2199.2	2314.3	2589.3	2864.8	3041.0	2899.7	2524.0	2145.0	1791.6	1455.4	1114.5
66°	2150.1	2256.7	2530.2	2803.0	2977.6	2841.0	2480.2	2104.9	1728.9	1464.4	1018.3
67°	2122.5	2213.6	2477.3	2740.2	2906.0	2774.4	2429.9	2053.1	1703.1	1404.5	1002.7
68°	2091.8	2184.5	2430.2	2677.0	2823.6	2698.2	2344.3	1997.7	1713.0	1371.4	939.4
69°	2022.8	2152.8	2391.3	2615.2	2734.9	2594.8	2204.7	1933.1	1717.8	1366.9	876.0
70°	1889.8	2095.9	2360.0	2553.2	2645.4	2456.2	2009.3	1838.9	1713.9	1300.5	812.4
71°	1684.8	1986.2	2330.6	2491.3	2538.0	2281.6	1793.2	1710.2	1658.4	1279.5	710.5
72°	1475.0	1809.1	2294.7	2425.9	2413.9	2082.4	1597.9	1558.6	1590.3	1230.8	636.7
73°	1251.1	1584.6	2237.3	2361.3	2270.8	1878.0	1419.6	1410.3	1514.4	1192.1	567.8
74°	997.0	1343.7	2129.0	2283.6	2109.4	1681.4	1210.9	1278.9	1426.2	1123.8	479.8
75°	678.2	1082.3	1943.2	2174.6	1928.0	1456.6	921.8	1135.3	1313.2	1055.1	428.2
76°	376.0	767.9	1703.2	2015.3	1738.0	1152.2	632.7	911.3	1212.1	935.2	383.2
77°	290.6	438.8	1446.5	1787.1	1527.1	760.6	343.9	685.6	1112.2	815.4	337.7
78°	207.2	334.4	1136.1	1474.2	1265.3	423.2	165.6	395.6	919.8	695.0	290.4
79°	123.7	230.7	745.4	1107.9	922.6	280.4	124.5	287.0	727.6	548.5	240.9
80°	109.5	127.0	406.1	729.1	568.6	143.2	83.7	178.3	534.5	417.7	203.7
81°	97.9	110.1	308.0	380.9	413.9	118.6	71.0	69.9	287.7	307.2	183.2
82°	87.4	97.4	213.2	252.6	261.9	101.3	60.2	55.7	211.4	245.3	180.9
83°	77.5	85.8	118.3	132.2	109.8	83.1	50.2	44.1	135.1	194.4	148.7
84°	68.3	74.9	98.7	108.2	89.0	64.7	41.0	35.1	60.9	149.5	114.3
85°	59.4	64.9	80.2	91.7	70.6	50.7	32.0	27.6	52.2	104.6	80.0
86°	50.8	55.7	65.4	76.4	54.4	40.8	23.9	21.2	41.2	60.0	45.9
87°	42.4	47.0	52.6	59.6	41.9	31.0	16.5	15.6	30.4	34.0	28.6
88°	36.6	39.5	40.9	41.2	30.5	21.2	11.6	11.1	21.1	23.3	19.6
89°	30.9	32.0	31.5	29.3	19.1	12.9	6.7	6.5	11.8	12.6	10.7

REPORT NUMBER: P1445035

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: P1445035

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: P1445035
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: P1445035

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
1°	1651.3	1651.4	1653.3	1656.9	1662.1	1667.2	1674.6	1675.8	1683.2	1690.6	1697.2
2°	1628.6	1628.4	1631.3	1637.9	1646.5	1658.0	1671.1	1679.4	1694.5	1709.0	1722.3
3°	1608.8	1608.0	1611.8	1620.2	1633.3	1649.4	1669.1	1684.8	1707.0	1730.0	1750.2
4°	1591.8	1591.0	1595.7	1606.2	1622.4	1643.7	1669.0	1691.5	1722.2	1753.2	1781.2
5°	1579.2	1577.8	1582.7	1595.0	1613.5	1639.1	1670.2	1700.1	1738.9	1778.6	1815.1
6°	1568.1	1566.1	1572.2	1586.4	1607.1	1635.9	1673.0	1710.3	1757.5	1806.5	1851.5
7°	1558.7	1556.5	1563.1	1579.0	1603.2	1635.4	1677.7	1722.4	1778.0	1837.1	1893.1
8°	1551.5	1548.9	1555.9	1573.8	1600.6	1636.4	1683.9	1735.3	1800.2	1870.9	1937.1
9°	1545.1	1542.6	1550.3	1570.1	1599.4	1638.7	1690.6	1749.2	1824.2	1906.5	1984.6
10°	1540.5	1537.2	1546.1	1568.1	1599.6	1641.8	1698.5	1765.1	1849.9	1944.4	2035.2
11°	1536.9	1533.5	1543.5	1567.3	1601.4	1646.9	1708.2	1783.1	1878.7	1984.7	2089.1
12°	1534.7	1531.3	1541.8	1567.9	1604.7	1653.0	1719.4	1801.1	1907.4	2027.8	2146.6
13°	1534.4	1530.5	1541.7	1569.2	1609.2	1660.3	1731.0	1820.6	1938.4	2073.2	2208.6
14°	1534.5	1529.9	1542.7	1572.1	1614.8	1668.4	1743.6	1840.8	1969.9	2120.7	2273.9
15°	1532.8	1511.2	1541.3	1575.5	1620.6	1677.6	1756.7	1862.7	2003.2	2172.0	2343.6
16°	1500.3	1480.4	1511.4	1579.0	1626.9	1687.8	1770.7	1884.2	2038.1	2223.9	2417.1
17°	1476.3	1462.2	1488.2	1573.1	1633.8	1698.2	1786.0	1907.3	2073.8	2279.8	2492.4
18°	1463.6	1458.9	1475.8	1546.6	1642.0	1709.1	1799.5	1930.2	2111.4	2338.0	2568.3
19°	1465.5	1461.2	1477.6	1529.5	1649.3	1717.2	1808.9	1949.6	2149.8	2396.9	2643.9
20°	1468.8	1464.3	1481.3	1520.7	1656.0	1722.7	1820.2	1968.8	2189.3	2457.0	2717.0
21°	1473.1	1469.3	1486.1	1524.6	1642.3	1729.6	1836.3	1990.7	2225.2	2518.5	2787.8
22°	1479.3	1474.9	1492.5	1531.3	1622.5	1742.3	1854.3	2016.1	2261.8	2577.9	2854.7
23°	1485.7	1482.2	1500.5	1538.8	1613.3	1755.6	1872.6	2043.8	2302.2	2637.1	2918.6
24°	1492.7	1489.3	1508.7	1547.4	1610.6	1766.6	1887.4	2071.6	2344.9	2693.4	2979.2
25°	1500.1	1496.1	1516.6	1556.6	1618.0	1775.2	1901.4	2096.8	2389.8	2743.2	3035.7
26°	1507.8	1504.2	1525.1	1567.2	1624.9	1784.1	1916.7	2120.5	2435.6	2788.8	3089.9
27°	1515.5	1512.5	1533.3	1577.0	1630.3	1795.1	1933.4	2145.9	2480.8	2834.1	3142.2
28°	1523.5	1504.1	1541.8	1587.0	1637.2	1804.3	1953.0	2173.4	2523.3	2877.6	3192.1
29°	1499.3	1450.6	1523.2	1596.9	1648.5	1801.5	1973.0	2202.4	2560.6	2919.8	3239.4
30°	1449.0	1421.9	1472.0	1605.2	1661.1	1799.2	1993.0	2233.0	2599.9	2962.1	3283.6
31°	1424.5	1425.4	1447.0	1608.5	1674.0	1799.0	2012.7	2264.6	2638.3	3002.0	3325.8
32°	1429.4	1436.6	1451.0	1571.3	1687.3	1799.6	2028.6	2296.1	2674.9	3040.1	3364.0
33°	1439.5	1448.4	1461.0	1533.4	1699.4	1799.2	2038.7	2327.1	2712.7	3076.9	3397.5
34°	1449.4	1460.5	1471.3	1516.7	1709.2	1808.9	2049.0	2357.8	2748.8	3108.9	3426.3
35°	1459.5	1473.8	1481.7	1523.2	1718.7	1819.5	2064.7	2382.5	2785.5	3137.1	3453.7
36°	1470.7	1486.0	1492.8	1533.6	1726.3	1831.5	2081.6	2402.9	2819.8	3165.0	3479.7
37°	1480.5	1497.5	1503.7	1541.3	1730.7	1844.9	2098.7	2425.9	2852.9	3191.7	3504.0
38°	1490.2	1506.7	1514.1	1547.8	1686.5	1855.2	2118.3	2451.9	2884.9	3218.7	3524.3
39°	1497.1	1451.6	1522.5	1554.9	1651.9	1864.3	2137.5	2477.7	2915.2	3244.1	3541.9
40°	1440.3	1398.8	1472.1	1566.1	1641.6	1877.5	2153.7	2503.1	2941.1	3268.0	3557.1
41°	1389.0	1387.6	1418.2	1578.1	1651.8	1895.0	2168.0	2528.9	2961.0	3291.8	3570.3
42°	1377.2	1395.4	1403.3	1589.0	1664.8	1913.2	2178.1	2554.3	2979.0	3315.5	3580.4
43°	1386.6	1404.2	1412.8	1567.7	1678.6	1931.3	2189.2	2578.0	2998.3	3337.9	3588.6
44°	1396.8	1412.3	1423.7	1511.7	1692.0	1949.9	2210.4	2599.7	3018.2	3358.2	3593.4

REPORT NUMBER: P1445035

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1407.3	1420.6	1434.2	1485.3	1701.5	1964.9	2234.1	2618.9	3039.5	3377.3	3593.4
46°	1418.0	1425.4	1445.0	1491.2	1707.9	1970.6	2257.9	2631.5	3061.8	3394.2	3589.1
47°	1428.2	1368.0	1453.8	1497.5	1716.1	1974.4	2281.2	2641.8	3082.5	3410.2	3580.4
48°	1373.6	1289.4	1408.1	1503.0	1727.2	1958.5	2299.3	2650.7	3101.9	3424.1	3570.1
49°	1296.9	1274.2	1329.8	1510.4	1706.3	1932.0	2304.4	2666.1	3119.4	3433.4	3556.7
50°	1283.4	1280.5	1311.0	1517.6	1653.0	1913.3	2308.1	2684.4	3135.0	3437.6	3540.2
51°	1294.0	1287.6	1321.6	1497.9	1623.0	1905.1	2304.9	2700.9	3146.1	3436.6	3521.1
52°	1305.1	1294.6	1331.4	1419.0	1632.2	1914.6	2305.6	2716.4	3154.6	3433.0	3497.3
53°	1315.1	1297.7	1340.9	1388.5	1645.0	1922.3	2314.9	2729.3	3159.3	3425.4	3471.0
54°	1320.1	1204.3	1346.4	1399.2	1653.3	1929.5	2317.3	2739.9	3157.3	3417.3	3440.1
55°	1235.4	1146.7	1262.2	1411.6	1661.2	1938.9	2318.9	2745.1	3150.3	3405.2	3407.4
56°	1172.7	1142.7	1198.7	1424.6	1663.8	1953.2	2319.1	2742.3	3138.4	3391.6	3371.3
57°	1168.6	1144.7	1192.0	1433.9	1623.2	1958.8	2316.1	2732.9	3122.7	3374.2	3330.9
58°	1170.4	1135.1	1193.4	1367.4	1565.0	1961.6	2314.8	2720.8	3106.2	3349.9	3287.7
59°	1148.4	1000.4	1175.3	1307.9	1559.2	1939.9	2311.4	2708.8	3089.4	3322.5	3241.0
60°	1029.9	963.6	1055.7	1308.2	1576.1	1891.9	2295.3	2694.6	3068.4	3290.6	3189.6
61°	1007.0	907.0	1029.8	1312.0	1594.3	1868.7	2276.0	2676.6	3042.8	3252.6	3135.0
62°	1004.0	850.4	1023.4	1268.4	1610.5	1868.1	2264.8	2654.0	3011.7	3208.2	3078.1
63°	945.5	794.4	963.3	1188.8	1577.4	1867.6	2245.0	2624.0	2973.5	3156.2	3018.6
64°	887.1	778.3	903.3	1173.0	1521.0	1862.4	2218.8	2584.7	2927.3	3100.1	2958.3
65°	828.5	711.1	842.9	1163.2	1512.7	1841.0	2182.1	2536.1	2870.3	3038.6	2893.3
66°	737.0	594.7	753.5	1059.9	1513.2	1778.7	2136.1	2478.1	2802.5	2971.9	2824.9
67°	644.0	567.0	657.2	1037.6	1450.8	1738.0	2081.2	2408.0	2728.6	2895.4	2756.8
68°	579.3	395.9	594.4	996.9	1415.8	1739.6	2006.3	2287.0	2634.2	2810.6	2689.3
69°	472.0	326.9	485.0	909.8	1402.5	1736.1	1916.0	2108.5	2503.4	2717.4	2624.1
70°	378.0	225.2	388.9	822.7	1331.4	1722.3	1791.0	1874.6	2339.0	2614.5	2554.6
71°	259.9	123.6	259.7	735.8	1299.7	1652.4	1634.2	1658.4	2132.9	2492.8	2481.8
72°	143.6	22.6	134.3	661.4	1245.1	1562.3	1467.1	1460.3	1914.2	2354.7	2408.8
73°	120.9	0.3	108.9	583.5	1189.4	1469.3	1305.1	1262.9	1700.1	2188.1	2327.2
74°	98.3	0.2	83.8	479.9	1107.0	1367.1	1154.7	1028.1	1488.0	1998.7	2231.7
75°	75.6	0.2	72.7	421.1	1015.0	1247.3	927.7	720.3	1235.1	1788.9	2098.6
76°	57.5	0.2	57.9	374.4	885.0	1128.0	700.8	417.3	893.9	1567.4	1920.0
77°	40.5	0.3	45.9	330.0	754.9	955.9	473.7	268.1	532.4	1331.9	1670.8
78°	30.3	0.3	37.1	286.0	625.0	783.9	243.8	122.5	398.4	1043.4	1347.6
79°	29.8	0.3	36.9	237.8	499.9	610.6	159.2	93.5	266.4	705.5	976.9
80°	40.0	0.4	44.5	205.9	388.3	349.2	75.6	79.3	134.3	412.3	607.8
81°	48.9	0.4	46.0	191.3	291.8	253.2	60.6	67.5	114.2	273.7	445.5
82°	43.2	0.5	28.7	178.3	226.4	157.3	49.8	56.7	97.6	137.1	287.1
83°	26.9	0.5	20.4	135.2	169.9	61.9	40.7	47.2	80.5	104.7	128.8
84°	19.7	0.6	12.1	92.1	113.5	51.6	32.7	38.6	63.7	86.3	107.1
85°	12.5	0.7	4.0	49.4	57.7	40.7	26.0	30.1	49.7	67.7	91.0
86°	5.5	0.7	3.6	25.1	32.1	30.3	20.0	21.6	39.9	52.5	75.7
87°	4.1	0.8	3.6	17.7	18.3	21.8	14.7	14.5	30.2	40.5	58.8
88°	3.0	0.9	3.1	10.3	12.8	15.2	10.4	8.5	20.5	29.5	40.9
89°	2.3	1.0	2.0	3.0	7.3	8.6	6.1	3.6	12.5	18.4	29.2

REPORT NUMBER: P1445035

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: P1445035

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: P1445035
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: P1445035

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1677.1	1677.1	1677.1
1°	1702.1	1705.6	1707.2
2°	1732.5	1739.3	1741.9
3°	1765.9	1776.2	1779.7
4°	1803.3	1817.8	1822.1
5°	1844.1	1864.0	1870.2
6°	1889.1	1914.6	1922.1
7°	1938.6	1968.6	1978.3
8°	1992.0	2027.8	2039.7
9°	2049.7	2092.4	2106.1
10°	2110.1	2162.3	2178.2
11°	2177.7	2236.9	2256.1
12°	2249.2	2318.7	2339.6
13°	2326.4	2404.7	2429.6
14°	2408.9	2497.6	2526.3
15°	2495.3	2595.9	2630.1
16°	2583.2	2696.2	2737.1
17°	2672.6	2799.4	2845.9
18°	2762.6	2901.7	2950.4
19°	2849.5	3000.2	3050.5
20°	2933.5	3091.6	3142.7
21°	3012.3	3174.8	3224.0
22°	3085.8	3250.8	3295.0
23°	3156.3	3317.1	3360.6
24°	3221.7	3376.4	3417.5
25°	3282.2	3428.3	3467.2
26°	3337.4	3474.1	3509.5
27°	3389.4	3513.7	3546.8
28°	3434.2	3548.2	3578.5
29°	3475.3	3576.7	3605.2
30°	3510.9	3600.3	3627.4
31°	3543.0	3620.3	3644.9
32°	3570.7	3636.3	3657.5
33°	3594.4	3647.7	3666.9
34°	3613.3	3655.5	3673.1
35°	3628.7	3659.5	3675.3
36°	3640.8	3659.1	3674.3
37°	3649.9	3656.8	3669.6
38°	3655.4	3652.3	3662.5
39°	3657.3	3644.3	3653.1
40°	3656.1	3634.8	3640.8
41°	3652.4	3623.4	3624.4
42°	3645.4	3609.1	3606.2
43°	3635.1	3592.6	3583.3
44°	3622.6	3573.1	3556.4

REPORT NUMBER: P1445035

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3606.9	3550.4	3526.1
46°	3589.3	3524.7	3491.0
47°	3568.2	3493.9	3451.4
48°	3545.6	3460.1	3409.9
49°	3518.4	3422.1	3363.4
50°	3486.4	3380.3	3311.4
51°	3449.8	3333.3	3255.1
52°	3407.4	3280.1	3192.8
53°	3361.4	3224.3	3128.4
54°	3311.1	3162.1	3060.0
55°	3259.0	3097.9	2988.6
56°	3202.1	3027.8	2915.5
57°	3142.7	2956.6	2841.8
58°	3079.5	2882.9	2765.9
59°	3014.0	2808.4	2688.2
60°	2948.0	2731.3	2606.0
61°	2881.9	2653.0	2521.5
62°	2815.7	2572.1	2433.2
63°	2751.8	2494.0	2347.2
64°	2691.8	2418.4	2264.7
65°	2633.6	2348.7	2199.2
66°	2577.1	2290.1	2150.1
67°	2523.4	2247.6	2122.5
68°	2474.0	2218.1	2091.8
69°	2430.0	2186.4	2022.8
70°	2395.4	2134.6	1889.8
71°	2360.1	2033.5	1684.8
72°	2316.5	1859.0	1475.0
73°	2252.2	1632.8	1251.1
74°	2134.6	1383.2	997.0
75°	1947.2	1119.7	678.2
76°	1708.5	819.4	376.0
77°	1437.9	488.7	290.6
78°	1114.0	366.9	207.2
79°	732.2	248.6	123.7
80°	411.1	130.3	109.5
81°	309.5	113.6	97.9
82°	215.3	100.4	87.4
83°	121.0	88.3	77.5
84°	100.2	77.0	68.3
85°	81.3	66.6	59.4
86°	66.4	57.1	50.8
87°	53.2	48.1	42.4
88°	40.8	40.3	36.6
89°	31.5	32.5	30.9

REPORT NUMBER: P1445035

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: P1445035

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: P1445035

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)