

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: P1444985

Luminaire Tested: XAS180-SFPM (3000K-72W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444985
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (3000K-72W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 10030.7 lumens
Efficiency: 41.1%
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.3
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

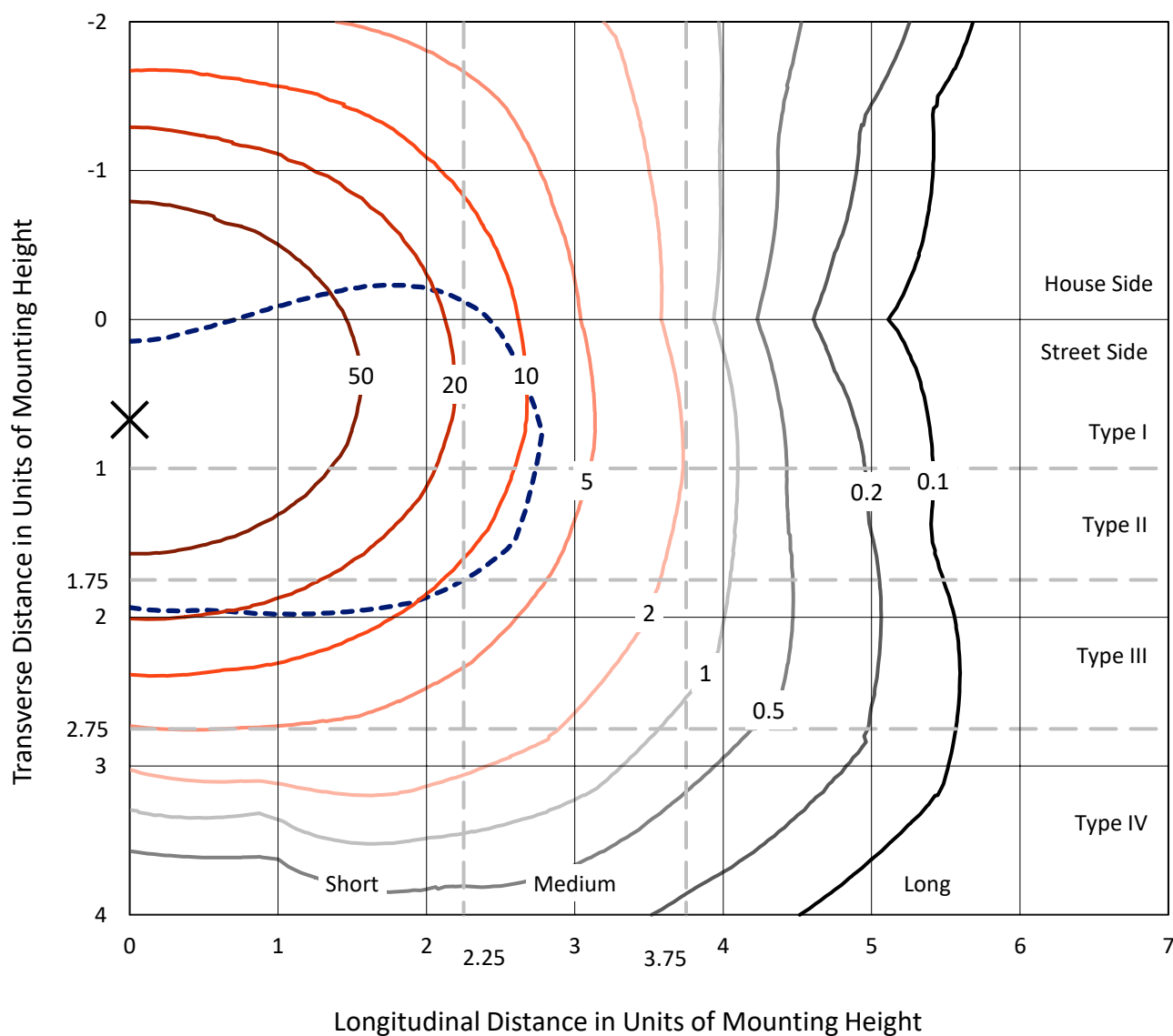
REPORT NUMBER: P1444985

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

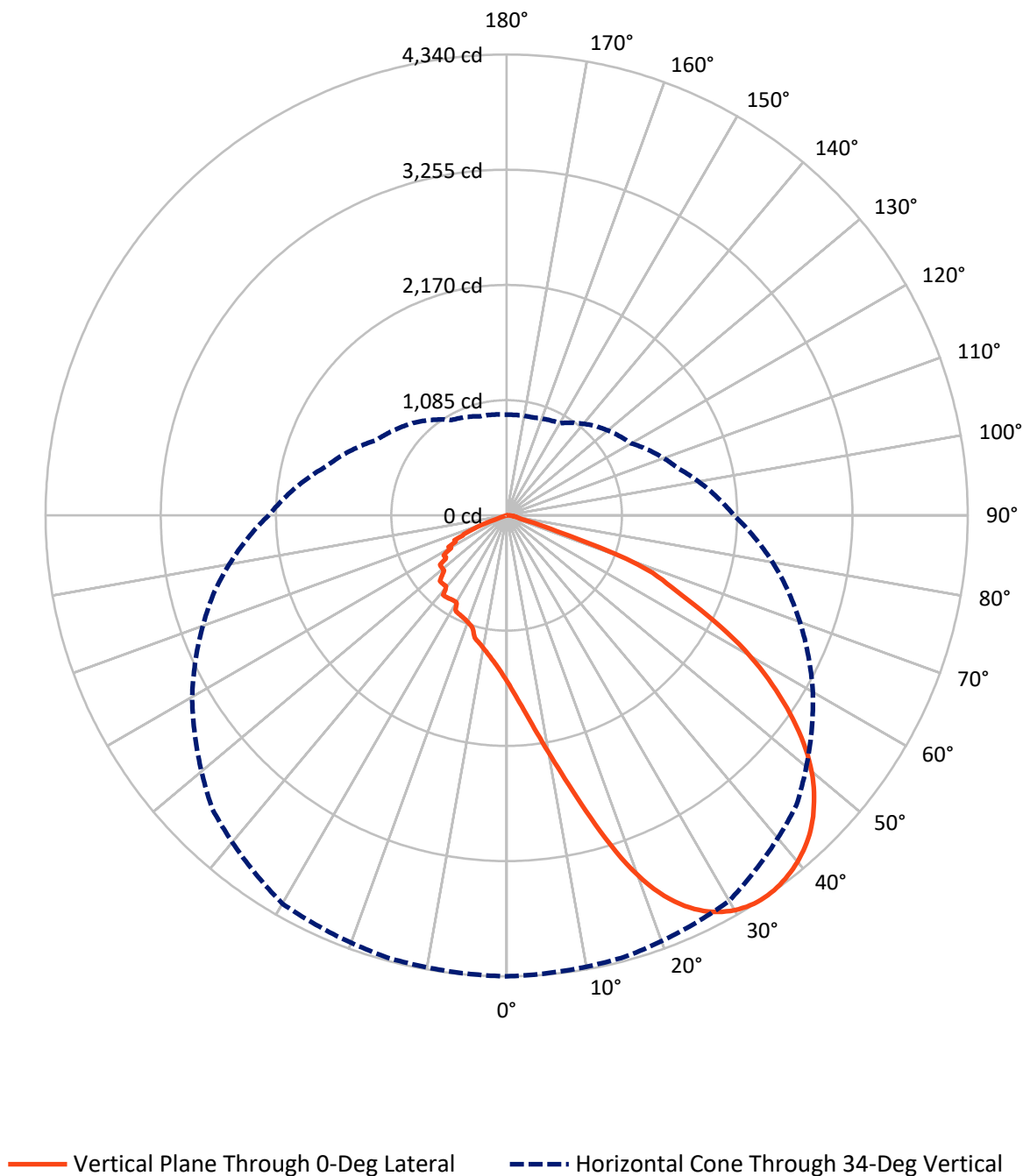


Based on 3 foot mounting height. Maximum calculated value = 340 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

Luminous Intensity Polar Plot



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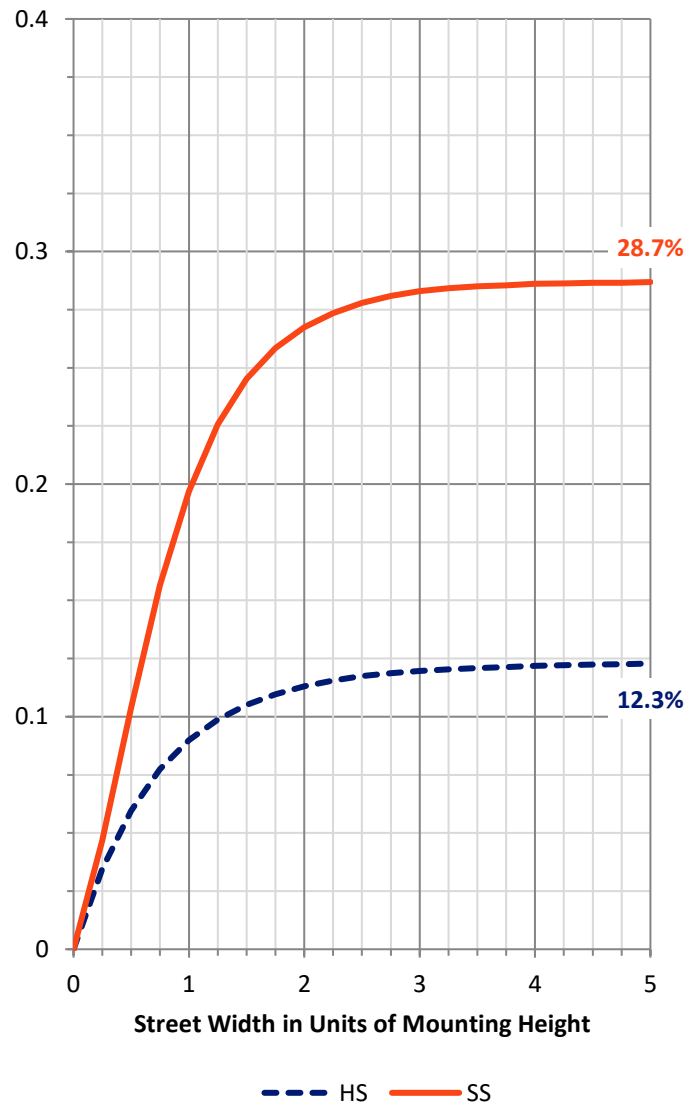
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.7	0.0	3016.7
	% Lamp	12.4	0.0	12.4
Street Side	Lumens	7014.0	0.0	7014.0
	% Lamp	28.7	0.0	28.7
Total	Lumens	10030.7	0.0	10030.7
	% Lamp	41.1	0.0	41.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	157.5	1.6	0.6
10°-20°	547.3	5.5	2.2
20°-30°	1061.8	10.6	4.4
30°-40°	1561.0	15.6	6.4
40°-50°	1937.0	19.3	7.9
50°-60°	2063.9	20.6	8.5
60°-70°	1794.2	17.9	7.4
70°-80°	830.0	8.3	3.4
80°-90°	78.0	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°	10030.7	100.0	41.1
0°-180°	10030.7	100.0	41.1

Coefficient of Utilization



REPORT NUMBER: P1444985

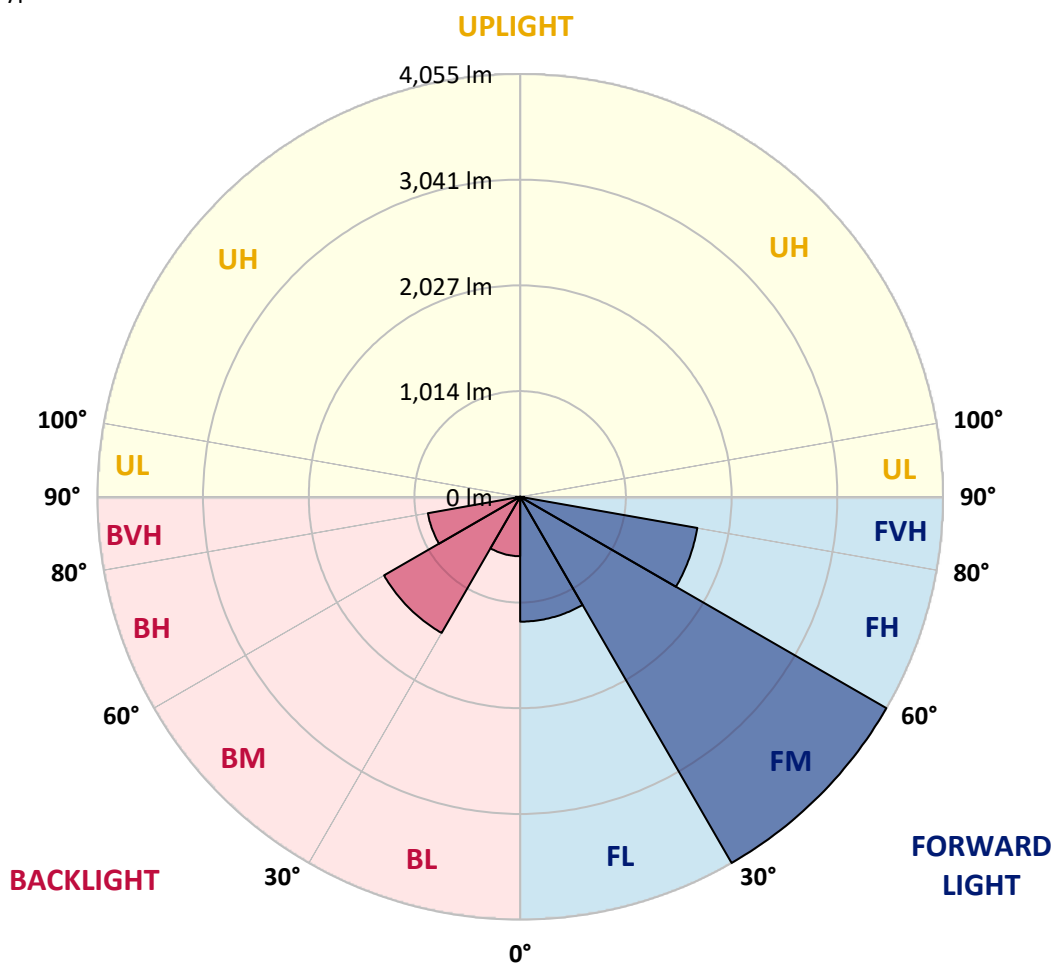
CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1197.1	4.9			
FM	(30°-60°)	4055.0	16.6			
FH	(60°-80°)	1725.3	7.1			G1/1800
FVH	(80°-90°)	36.6	0.1			G1/100
BL	(0°-30°)	569.5	2.3	B2/1000		
BM	(30°-60°)	1506.9	6.2	B2/2500		
BH	(60°-80°)	899.0	3.7	B2/1000		G2/1000
BVH	(80°-90°)	41.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		14376.3	58.9			

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3
1°	1625.5	1624.6	1620.6	1613.2	1603.3	1591.8	1570.9	1560.1	1550.4	1542.6	1536.9
2°	1678.9	1676.6	1666.1	1650.0	1628.7	1604.7	1571.7	1549.3	1529.5	1513.8	1501.5
3°	1736.9	1731.1	1714.7	1689.0	1657.0	1620.4	1574.2	1540.9	1511.3	1487.3	1469.5
4°	1800.7	1792.1	1768.8	1732.5	1686.9	1637.2	1578.0	1533.7	1494.9	1463.2	1440.6
5°	1870.2	1859.3	1826.8	1779.4	1719.4	1655.8	1583.1	1527.5	1480.1	1441.9	1415.1
6°	1946.7	1930.9	1890.9	1830.4	1755.8	1676.2	1589.3	1523.1	1466.4	1422.9	1391.6
7°	2027.6	2008.4	1959.1	1885.0	1793.9	1698.9	1598.0	1520.7	1455.3	1405.6	1369.4
8°	2116.0	2093.7	2033.4	1943.4	1835.2	1723.2	1608.3	1519.9	1445.8	1389.7	1349.6
9°	2212.3	2185.6	2112.6	2006.4	1879.1	1749.3	1619.6	1519.8	1438.2	1375.2	1330.9
10°	2312.9	2280.8	2197.3	2072.0	1925.7	1777.7	1632.7	1521.3	1431.2	1362.9	1313.4
11°	2422.3	2385.4	2287.5	2142.8	1975.1	1807.9	1647.0	1524.0	1425.5	1351.5	1297.6
12°	2540.9	2497.5	2382.7	2218.7	2026.6	1839.6	1662.3	1527.6	1421.1	1341.2	1283.4
13°	2667.1	2616.2	2485.9	2297.9	2081.7	1873.3	1678.5	1531.9	1417.4	1331.6	1270.3
14°	2804.3	2747.7	2596.6	2382.0	2139.1	1908.1	1694.6	1536.3	1414.1	1323.0	1258.0
15°	2951.2	2885.1	2713.9	2471.5	2199.5	1943.8	1712.5	1541.5	1411.6	1315.0	1245.7
16°	3102.6	3027.9	2835.5	2566.6	2262.5	1980.9	1731.3	1547.8	1409.6	1307.5	1234.5
17°	3251.6	3169.6	2954.9	2664.3	2329.2	2019.5	1750.8	1554.3	1408.2	1300.5	1223.3
18°	3400.2	3308.7	3074.9	2760.6	2399.4	2059.5	1770.5	1560.1	1407.2	1294.1	1206.0
19°	3538.1	3442.7	3193.2	2855.5	2471.5	2101.0	1784.3	1561.5	1404.4	1288.4	1165.6
20°	3664.5	3566.7	3308.1	2950.4	2543.5	2140.4	1801.5	1565.4	1397.9	1282.6	1137.0
21°	3777.8	3680.2	3416.1	3041.8	2616.7	2176.2	1819.0	1574.2	1393.1	1276.2	1129.3
22°	3876.4	3781.9	3517.8	3130.0	2688.2	2218.6	1841.9	1583.4	1393.9	1253.5	1122.4
23°	3963.6	3874.1	3610.7	3215.1	2759.0	2259.6	1866.1	1591.7	1394.8	1224.4	1116.5
24°	4039.8	3955.1	3698.4	3294.8	2821.4	2307.1	1888.7	1596.7	1392.9	1201.2	1112.1
25°	4105.8	4026.1	3777.6	3371.6	2881.3	2356.8	1907.8	1603.6	1391.0	1197.4	1107.8
26°	4161.5	4087.3	3849.8	3442.1	2940.5	2405.4	1927.9	1610.5	1389.8	1192.8	1104.4
27°	4208.3	4140.5	3916.6	3511.3	2997.6	2453.0	1950.4	1621.2	1392.5	1186.8	1100.7
28°	4247.0	4184.5	3974.7	3576.3	3050.8	2495.3	1973.5	1631.9	1396.6	1182.4	1097.3
29°	4279.0	4220.3	4025.5	3635.9	3102.9	2535.2	2000.7	1642.7	1400.1	1182.3	1094.6
30°	4303.3	4249.8	4070.5	3692.4	3155.9	2576.9	2027.9	1654.2	1395.4	1183.3	1092.0
31°	4322.2	4272.4	4109.3	3743.8	3204.9	2619.0	2056.3	1666.1	1374.6	1184.7	1087.0
32°	4333.7	4288.9	4141.3	3786.4	3250.9	2659.3	2084.4	1676.4	1370.2	1186.1	1080.4
33°	4339.4	4298.8	4168.9	3824.1	3292.8	2701.4	2112.7	1679.6	1353.8	1187.5	1038.2
34°	4339.8	4302.9	4190.3	3858.1	3329.3	2742.6	2140.0	1682.9	1355.6	1187.6	1001.9
35°	4334.9	4302.4	4206.3	3890.5	3361.9	2781.8	2160.1	1691.2	1358.3	1186.6	999.8
36°	4325.5	4297.5	4215.7	3918.9	3392.4	2819.4	2176.8	1700.8	1361.8	1186.1	1000.5
37°	4311.1	4288.1	4220.3	3942.6	3422.3	2855.4	2195.8	1710.9	1367.9	1187.8	1001.2
38°	4293.0	4274.1	4220.7	3960.9	3451.5	2891.1	2219.4	1722.4	1371.7	1188.2	1000.5
39°	4270.8	4257.2	4216.1	3976.0	3477.3	2923.6	2240.6	1734.8	1372.6	1131.5	999.9
40°	4245.3	4236.3	4205.9	3987.8	3502.2	2950.6	2263.3	1743.8	1378.6	1105.5	1002.4
41°	4214.9	4210.8	4192.3	3997.1	3523.8	2969.8	2285.2	1752.0	1387.6	1109.3	1004.8
42°	4180.0	4182.4	4173.8	4005.0	3546.8	2988.4	2307.6	1759.2	1396.6	1114.6	1007.6
43°	4140.1	4149.2	4150.8	4007.5	3568.4	3007.6	2328.7	1763.2	1406.3	1120.6	1008.6
44°	4095.2	4112.2	4124.1	4004.7	3587.8	3028.5	2346.4	1775.4	1416.6	1127.0	976.2

REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4044.4	4069.7	4092.2	3996.3	3605.0	3048.7	2360.3	1792.2	1427.3	1132.6	932.0
46°	3986.2	4021.7	4057.0	3983.2	3621.1	3068.6	2372.9	1809.6	1431.9	1132.5	933.1
47°	3924.9	3966.8	4017.4	3964.4	3634.9	3087.6	2381.0	1827.6	1431.3	1135.4	935.9
48°	3860.3	3907.8	3973.0	3940.6	3645.2	3103.3	2386.9	1846.4	1436.2	1142.1	937.2
49°	3787.1	3840.0	3922.9	3913.5	3651.1	3118.8	2399.3	1862.4	1411.4	1146.3	936.0
50°	3705.7	3767.2	3866.0	3881.2	3651.4	3133.1	2416.5	1865.8	1389.2	1110.0	936.1
51°	3617.8	3685.8	3801.4	3842.5	3644.6	3142.3	2433.7	1853.7	1368.8	1065.5	937.6
52°	3523.1	3597.3	3731.1	3797.7	3635.1	3147.2	2449.2	1864.9	1379.0	1069.0	895.6
53°	3422.3	3501.3	3653.0	3748.3	3619.9	3149.3	2462.9	1868.6	1388.2	1075.6	850.2
54°	3313.9	3396.8	3569.2	3691.6	3599.9	3148.9	2475.1	1866.5	1393.1	1084.6	854.6
55°	3203.4	3289.2	3478.5	3629.0	3573.3	3140.2	2485.0	1877.7	1400.9	1089.5	860.7
56°	3083.9	3176.2	3380.3	3560.9	3543.4	3125.1	2487.1	1885.0	1413.5	1093.1	867.6
57°	2965.0	3057.9	3279.4	3485.6	3508.9	3105.7	2484.6	1884.9	1423.7	1091.6	874.3
58°	2841.4	2936.5	3173.5	3404.0	3467.9	3087.8	2474.7	1891.4	1428.2	1033.1	877.8
59°	2712.3	2813.2	3062.2	3319.0	3419.8	3069.0	2465.4	1897.5	1437.8	1019.2	808.3
60°	2574.4	2684.3	2948.1	3226.1	3363.1	3045.8	2456.6	1892.9	1398.9	1033.1	814.1
61°	2427.1	2548.2	2828.6	3129.5	3298.5	3017.2	2441.1	1876.6	1376.8	1049.7	816.5
62°	2273.2	2406.7	2708.0	3026.8	3230.0	2980.7	2423.7	1871.6	1385.8	1067.5	792.8
63°	2111.9	2258.7	2585.7	2919.4	3153.1	2935.8	2399.6	1858.2	1392.6	1081.0	769.3
64°	1955.7	2112.7	2463.3	2809.8	3067.2	2882.8	2366.4	1836.8	1397.7	1030.6	764.1
65°	1814.1	1967.2	2336.4	2696.8	2975.0	2820.0	2325.8	1812.0	1390.9	1036.0	772.7
66°	1689.6	1835.4	2212.5	2582.1	2876.5	2746.9	2272.6	1775.2	1352.9	1049.2	727.5
67°	1587.3	1715.3	2089.3	2468.2	2771.0	2661.9	2216.5	1736.4	1310.9	1040.7	717.0
68°	1477.4	1610.0	1969.5	2351.3	2652.2	2566.7	2132.5	1679.3	1321.1	1014.9	735.2
69°	1316.2	1499.1	1856.8	2237.4	2526.6	2452.5	2005.3	1611.4	1327.1	1021.9	672.6
70°	1079.7	1352.5	1751.6	2122.3	2397.8	2311.1	1821.2	1519.9	1329.9	994.5	669.5
71°	768.6	1147.7	1646.3	2007.8	2252.0	2143.4	1610.0	1400.5	1302.8	996.8	579.5
72°	489.2	869.1	1527.7	1888.9	2090.0	1946.3	1429.0	1267.7	1253.4	991.2	558.8
73°	376.5	575.3	1385.6	1766.6	1909.1	1732.5	1257.0	1151.3	1204.2	976.5	518.4
74°	267.3	349.7	1193.6	1628.7	1717.1	1515.4	1017.3	1065.4	1150.6	984.8	469.8
75°	158.1	257.7	927.3	1452.1	1508.1	1281.6	777.5	901.3	1089.6	964.3	452.4
76°	139.5	168.4	647.2	1234.2	1292.5	990.4	537.6	737.2	1035.8	938.0	441.0
77°	124.8	144.6	422.2	964.3	1068.7	651.7	293.6	572.7	991.1	848.3	416.1
78°	112.8	127.7	330.1	643.7	829.7	374.9	153.2	330.5	861.7	758.6	375.4
79°	102.1	114.0	242.1	351.0	577.1	260.0	125.3	242.1	732.3	668.0	318.7
80°	92.5	102.2	154.1	242.3	360.7	146.2	97.4	153.7	600.8	545.0	273.0
81°	83.6	91.6	130.3	138.2	236.8	123.4	69.9	66.7	333.6	407.8	246.7
82°	75.3	81.8	113.0	118.2	115.2	105.4	58.9	51.8	244.5	324.9	245.8
83°	67.4	72.6	97.8	103.1	89.4	85.6	49.1	40.0	155.4	257.4	201.9
84°	59.7	64.0	82.8	89.6	72.7	64.9	39.9	31.3	66.6	183.8	150.2
85°	52.4	55.9	66.9	76.7	57.9	49.5	30.8	24.2	58.5	136.0	106.1
86°	45.1	48.3	54.6	64.2	45.1	38.4	22.6	18.3	46.8	88.2	62.3
87°	38.8	41.1	44.2	50.6	35.3	28.9	17.4	14.2	34.7	41.0	38.2
88°	32.6	35.0	36.2	38.9	25.5	19.5	12.1	10.1	26.3	27.9	26.0
89°	26.3	28.9	28.2	27.2	15.7	11.4	6.8	6.0	18.0	14.8	13.9

REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3
1°	1534.4	1534.4	1536.7	1542.4	1549.9	1559.7	1570.2	1573.5	1586.1	1597.8	1608.1
2°	1495.5	1494.4	1499.0	1508.7	1523.0	1540.8	1562.1	1577.1	1601.9	1625.9	1647.1
3°	1460.2	1457.8	1463.7	1477.4	1498.2	1524.5	1555.5	1582.6	1619.4	1655.3	1687.6
4°	1428.2	1425.7	1432.2	1449.0	1475.5	1510.1	1550.9	1589.1	1638.6	1687.2	1732.5
5°	1400.0	1396.4	1403.8	1423.9	1455.0	1497.4	1547.7	1597.3	1659.9	1722.7	1780.9
6°	1373.1	1368.8	1377.7	1400.9	1437.4	1485.9	1545.7	1606.9	1683.1	1761.3	1833.6
7°	1348.7	1343.3	1353.2	1379.3	1420.8	1476.5	1545.4	1618.7	1707.9	1801.9	1890.0
8°	1326.1	1319.7	1330.6	1359.9	1406.1	1468.2	1546.4	1630.6	1734.7	1845.1	1950.5
9°	1304.6	1297.2	1309.4	1341.8	1392.9	1461.4	1548.1	1644.3	1764.0	1891.6	2015.7
10°	1284.6	1276.6	1290.0	1325.3	1380.5	1455.4	1550.8	1659.5	1794.3	1940.6	2083.7
11°	1266.1	1257.2	1272.0	1310.4	1370.1	1450.6	1554.8	1676.6	1827.6	1993.0	2157.1
12°	1249.2	1239.7	1254.7	1296.2	1360.6	1446.8	1560.2	1694.4	1861.2	2048.6	2234.7
13°	1233.8	1223.0	1239.3	1283.3	1352.2	1444.3	1566.6	1713.5	1897.4	2106.8	2318.0
14°	1219.0	1206.9	1224.6	1271.3	1345.0	1442.7	1573.6	1733.0	1934.7	2167.3	2406.2
15°	1204.4	1191.1	1210.1	1259.8	1338.4	1442.3	1581.0	1753.9	1973.8	2233.3	2500.8
16°	1187.7	1155.9	1194.0	1248.9	1332.0	1442.4	1588.7	1775.7	2014.4	2301.0	2600.4
17°	1142.0	1116.5	1150.6	1238.1	1326.2	1442.7	1598.0	1797.6	2056.9	2373.6	2700.8
18°	1109.9	1095.9	1117.7	1221.3	1321.1	1443.7	1607.2	1820.4	2100.9	2448.6	2802.5
19°	1098.2	1084.0	1105.2	1184.3	1316.1	1443.8	1610.9	1840.0	2146.2	2524.8	2905.2
20°	1088.0	1073.2	1095.0	1156.5	1311.2	1439.2	1617.3	1858.1	2193.7	2602.1	3004.6
21°	1079.2	1064.2	1086.0	1146.2	1305.4	1436.2	1626.7	1878.6	2236.9	2680.4	3100.2
22°	1072.0	1056.0	1078.8	1139.9	1283.0	1438.4	1638.7	1903.7	2280.7	2758.8	3190.5
23°	1065.8	1049.2	1073.1	1134.6	1256.2	1441.4	1650.6	1930.8	2330.7	2833.9	3274.4
24°	1060.0	1042.8	1067.7	1130.3	1236.6	1444.5	1661.1	1958.5	2380.5	2907.9	3354.4
25°	1054.8	1036.8	1062.6	1126.8	1231.2	1443.7	1668.4	1984.8	2434.3	2971.9	3429.2
26°	1049.6	1031.8	1058.2	1124.1	1229.0	1443.5	1678.0	2007.0	2488.5	3030.6	3500.4
27°	1045.3	1027.6	1054.3	1121.7	1224.0	1444.4	1687.0	2031.9	2543.1	3088.9	3567.3
28°	1041.8	1024.1	1051.0	1119.3	1220.3	1449.3	1700.1	2057.9	2594.3	3144.6	3631.1
29°	1038.2	1008.9	1047.5	1117.4	1219.9	1454.0	1713.6	2086.9	2639.3	3194.4	3689.3
30°	1010.0	953.9	1023.8	1115.9	1221.8	1450.3	1727.3	2117.1	2684.7	3245.3	3744.5
31°	962.3	943.4	975.4	1111.3	1224.2	1438.7	1740.7	2147.5	2730.0	3294.1	3795.9
32°	954.5	943.7	966.7	1106.1	1227.3	1427.5	1753.6	2178.3	2772.4	3340.1	3842.5
33°	953.8	944.9	966.3	1074.6	1230.3	1416.5	1759.3	2208.8	2814.2	3381.4	3881.4
34°	954.2	947.3	966.7	1036.6	1233.3	1416.9	1765.1	2239.7	2856.3	3418.1	3914.7
35°	955.1	950.4	968.0	1031.5	1233.9	1420.3	1774.8	2265.9	2896.4	3449.8	3943.9
36°	956.5	953.2	969.8	1032.9	1234.1	1424.5	1785.7	2286.2	2934.0	3479.2	3971.6
37°	957.1	955.5	971.1	1034.8	1234.4	1429.9	1797.9	2307.8	2969.6	3508.1	3995.7
38°	957.2	957.6	971.9	1034.6	1234.6	1436.1	1811.4	2332.0	3003.6	3536.3	4015.7
39°	956.9	957.8	972.6	1034.2	1188.2	1438.8	1826.1	2355.4	3035.7	3561.2	4030.1
40°	955.0	905.2	971.5	1036.3	1161.0	1443.3	1839.9	2380.1	3063.6	3584.2	4042.2
41°	901.0	878.1	924.1	1039.6	1161.6	1453.3	1849.4	2403.7	3083.9	3605.9	4049.6
42°	871.2	878.5	889.2	1043.1	1166.7	1463.8	1856.8	2426.5	3100.6	3627.8	4053.8
43°	870.7	880.0	888.8	1045.5	1172.7	1475.0	1861.5	2450.0	3118.0	3646.5	4054.1
44°	871.4	881.1	890.3	1023.4	1179.6	1486.5	1875.7	2472.3	3134.3	3663.6	4050.4

REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	872.5	881.1	892.1	973.8	1186.1	1497.6	1893.7	2489.0	3151.7	3677.4	4040.0
46°	873.4	879.8	893.5	971.3	1187.8	1503.5	1912.2	2501.5	3169.0	3689.6	4022.9
47°	874.0	848.2	894.6	974.4	1189.5	1504.3	1931.0	2509.3	3183.5	3699.0	3999.3
48°	845.0	816.5	894.5	976.1	1197.3	1510.2	1949.5	2513.5	3196.8	3704.2	3972.4
49°	816.1	785.4	842.1	974.5	1201.9	1505.9	1967.4	2524.7	3206.3	3705.7	3940.1
50°	787.3	783.6	804.4	974.3	1177.5	1472.4	1978.6	2538.9	3213.3	3699.6	3904.8
51°	790.3	782.8	806.9	976.3	1124.0	1452.3	1969.8	2551.4	3217.1	3685.4	3864.1
52°	794.5	782.9	810.9	944.5	1124.6	1459.3	1964.1	2562.9	3216.5	3667.5	3817.5
53°	799.0	782.7	815.2	891.1	1133.0	1469.8	1971.3	2571.7	3210.5	3644.4	3765.2
54°	802.6	779.1	796.0	895.7	1143.6	1475.0	1968.5	2577.6	3200.6	3616.9	3705.2
55°	804.3	705.3	776.8	902.5	1149.9	1478.4	1967.0	2581.5	3182.3	3585.1	3641.7
56°	734.6	693.8	757.6	910.7	1155.1	1491.9	1969.5	2577.3	3155.1	3550.0	3571.4
57°	721.7	697.0	741.9	919.0	1154.3	1501.9	1965.3	2564.9	3125.4	3511.2	3497.3
58°	724.9	700.5	745.3	925.0	1104.5	1505.1	1965.5	2546.3	3094.9	3464.1	3416.6
59°	729.6	669.7	749.5	857.4	1087.8	1511.4	1966.4	2528.2	3065.6	3412.7	3330.8
60°	676.7	608.5	702.1	858.4	1103.0	1479.2	1954.9	2508.2	3031.9	3353.2	3237.2
61°	645.1	615.2	668.2	863.2	1119.9	1442.9	1930.5	2483.1	2991.0	3286.6	3137.2
62°	652.8	621.6	676.9	872.3	1137.2	1443.8	1919.1	2453.7	2944.5	3213.4	3035.7
63°	660.9	544.2	684.0	819.2	1151.0	1444.5	1904.0	2419.4	2891.3	3130.4	2928.3
64°	575.3	537.2	595.9	812.4	1101.1	1444.7	1876.0	2373.5	2830.1	3043.4	2819.5
65°	580.7	543.8	598.5	797.0	1102.2	1435.3	1847.1	2316.0	2759.2	2948.1	2705.1
66°	584.8	454.2	606.1	781.6	1109.2	1400.3	1804.7	2251.7	2674.8	2848.5	2587.1
67°	484.2	439.5	502.6	767.1	1101.6	1346.5	1756.7	2174.3	2583.6	2738.9	2470.1
68°	492.4	339.3	508.4	783.8	1073.1	1349.8	1686.0	2058.7	2474.2	2618.9	2351.2
69°	393.8	306.0	409.1	720.9	1071.4	1349.5	1594.5	1893.5	2343.9	2489.8	2237.0
70°	376.1	209.4	386.1	713.7	1045.6	1346.4	1475.6	1675.6	2182.2	2346.6	2115.3
71°	249.0	112.9	249.8	621.9	1034.1	1314.3	1338.2	1469.3	1988.8	2187.1	1990.0
72°	154.5	17.2	146.2	601.0	1026.8	1255.3	1203.4	1286.3	1770.3	2009.8	1862.6
73°	127.5	0.2	116.3	545.4	1005.1	1194.7	1079.6	1093.8	1544.9	1815.2	1724.6
74°	115.1	0.2	107.2	485.1	1003.1	1134.4	926.7	875.8	1322.3	1605.6	1572.9
75°	94.5	0.2	91.8	456.2	951.9	1069.7	773.9	605.6	1082.9	1377.3	1385.0
76°	73.9	0.2	76.4	440.3	873.3	997.1	620.4	352.0	789.1	1150.1	1161.2
77°	53.6	0.2	61.0	414.7	794.7	873.9	382.3	233.3	484.3	933.7	889.0
78°	39.9	0.2	49.2	373.6	716.0	750.8	199.4	116.3	366.5	706.3	585.3
79°	39.3	0.2	49.1	316.2	619.6	624.9	133.9	90.9	252.5	471.4	433.3
80°	53.6	0.2	60.0	275.8	511.4	378.5	69.9	76.8	138.5	350.8	285.1
81°	66.1	0.2	63.1	257.2	386.8	273.3	55.3	65.5	118.5	231.5	136.9
82°	59.6	0.3	38.8	242.0	298.7	168.0	45.0	54.9	101.3	112.1	118.0
83°	37.0	0.3	27.3	201.5	212.8	64.2	36.3	45.3	82.6	87.7	103.6
84°	20.1	0.3	15.9	144.7	153.4	54.3	28.8	36.9	64.3	71.5	90.0
85°	15.0	0.4	4.5	87.8	94.1	43.1	22.6	28.4	49.1	56.6	76.8
86°	9.9	0.4	4.0	32.3	36.2	31.8	17.2	20.0	38.9	43.8	64.1
87°	4.8	0.5	4.0	22.5	18.6	22.7	13.0	13.2	28.9	34.3	50.0
88°	3.3	0.6	3.5	12.6	12.9	15.8	8.9	7.6	18.8	24.8	38.4
89°	2.4	0.6	1.9	2.9	7.1	8.8	4.7	5.3	10.9	15.3	26.9

REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1576.3	1576.3	1576.3
1°	1616.6	1622.7	1625.5
2°	1663.3	1674.7	1678.9
3°	1713.6	1730.6	1736.9
4°	1769.3	1793.0	1800.7
5°	1828.3	1859.9	1870.2
6°	1893.8	1933.5	1946.7
7°	1963.6	2010.8	2027.6
8°	2037.9	2095.6	2116.0
9°	2118.4	2187.8	2212.3
10°	2203.8	2285.2	2312.9
11°	2297.7	2391.5	2422.3
12°	2396.2	2504.9	2540.9
13°	2503.3	2628.0	2667.1
14°	2615.7	2757.8	2804.3
15°	2736.2	2895.7	2951.2
16°	2857.3	3036.0	3102.6
17°	2981.7	3180.6	3251.6
18°	3106.2	3323.2	3400.2
19°	3226.0	3457.5	3538.1
20°	3340.9	3583.8	3664.5
21°	3449.3	3699.4	3777.8
22°	3549.5	3801.3	3876.4
23°	3645.1	3894.3	3963.6
24°	3734.2	3974.0	4039.8
25°	3814.9	4043.8	4105.8
26°	3888.0	4102.6	4161.5
27°	3954.0	4153.7	4208.3
28°	4012.4	4196.4	4247.0
29°	4063.1	4231.4	4279.0
30°	4107.4	4259.7	4303.3
31°	4145.0	4281.9	4322.2
32°	4175.9	4298.3	4333.7
33°	4200.5	4307.8	4339.4
34°	4220.7	4311.9	4339.8
35°	4235.1	4310.7	4334.9
36°	4243.7	4304.5	4325.5
37°	4247.0	4294.2	4311.1
38°	4245.7	4279.8	4293.0
39°	4239.2	4261.8	4270.8
40°	4228.1	4240.4	4245.3
41°	4213.3	4215.7	4214.9
42°	4194.0	4187.4	4180.0
43°	4169.7	4155.3	4140.1
44°	4140.9	4117.9	4095.2

REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4109.5	4076.6	4044.4
46°	4073.9	4030.1	3986.2
47°	4033.5	3976.2	3924.9
48°	3989.6	3919.7	3860.3
49°	3939.4	3854.0	3787.1
50°	3883.5	3783.4	3705.7
51°	3819.9	3704.4	3617.8
52°	3749.1	3617.1	3523.1
53°	3670.4	3522.7	3422.3
54°	3586.4	3421.1	3313.9
55°	3497.5	3314.4	3203.4
56°	3399.8	3199.1	3083.9
57°	3298.7	3077.6	2965.0
58°	3192.4	2956.8	2841.4
59°	3081.2	2831.5	2712.3
60°	2964.8	2702.7	2574.4
61°	2845.7	2565.5	2427.1
62°	2724.7	2426.3	2273.2
63°	2604.3	2281.0	2111.9
64°	2485.3	2136.5	1955.7
65°	2364.1	1992.5	1814.1
66°	2242.0	1861.7	1689.6
67°	2120.2	1742.1	1587.3
68°	2000.1	1638.3	1477.4
69°	1885.9	1527.0	1316.2
70°	1778.7	1387.9	1079.7
71°	1668.1	1196.5	768.6
72°	1545.5	927.3	489.2
73°	1398.7	628.7	376.5
74°	1199.3	383.8	267.3
75°	939.8	279.7	158.1
76°	668.9	176.2	139.5
77°	448.3	149.7	124.8
78°	350.0	131.8	112.8
79°	254.5	117.2	102.1
80°	159.0	104.7	92.5
81°	132.7	93.7	83.6
82°	114.4	83.8	75.3
83°	98.5	74.4	67.4
84°	83.2	65.7	59.7
85°	67.4	57.2	52.4
86°	54.9	49.4	45.1
87°	44.2	41.8	38.8
88°	36.2	35.4	32.6
89°	28.3	29.1	26.3

REPORT NUMBER: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444985

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)