

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P571721

Luminaire Tested: **RLS4099FSE1WHDM 5000K**

Issue Date: 9/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P571721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2105753A001)  
Test Lab:  
Issue Date: 9/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RLS4099FSE1WHDM 5000K  
Description: 4 INCH SLOPE DM AT 9 Degrees TILT  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1027.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.76 / 0.7  
Luminous Opening: Circular (Dia: 0.33m x H: 0m)  
CIE Type: Direct

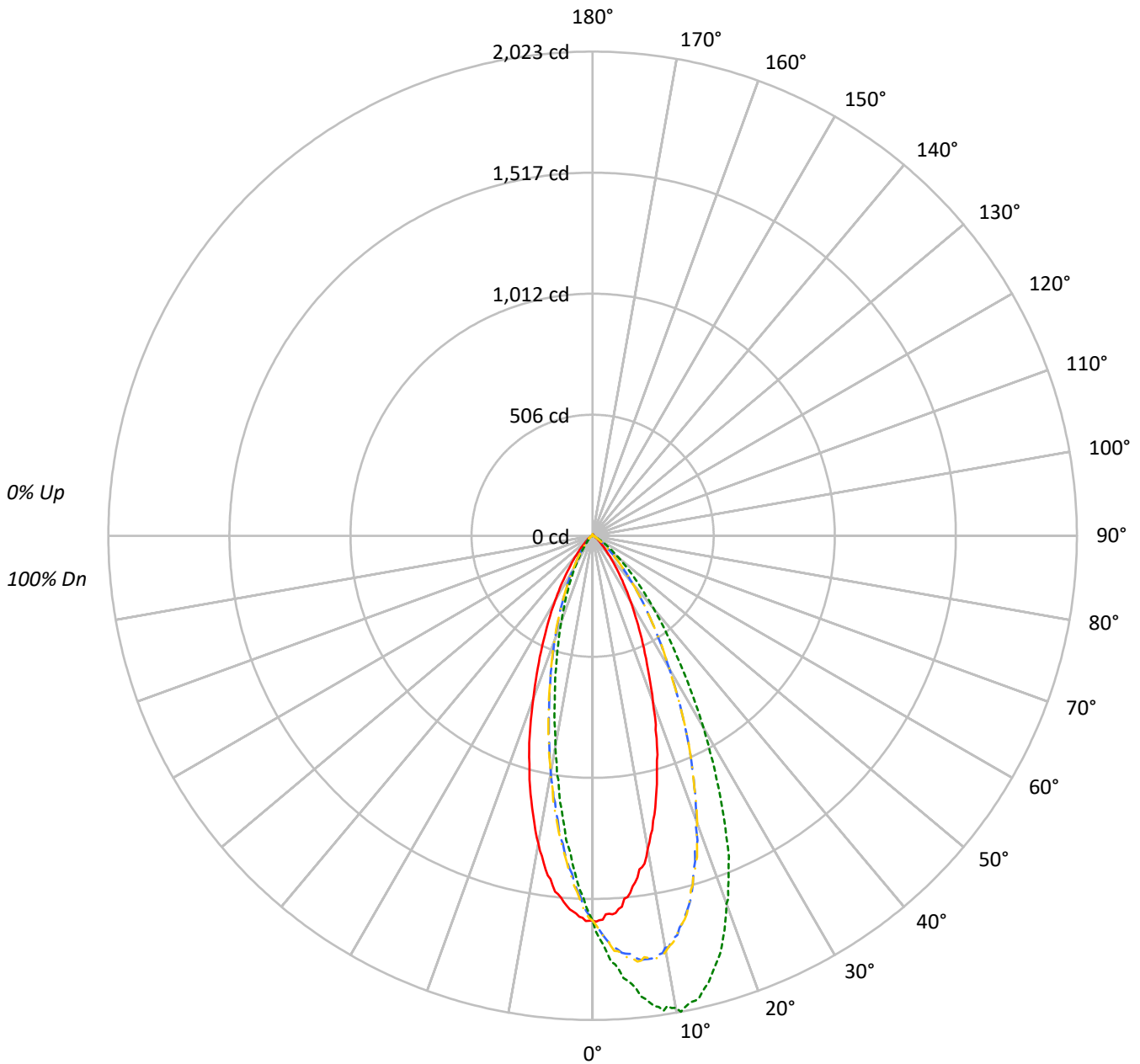
Input Watts (W): 11  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	66	60	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	18789	18789	18789	18789
5°	17862	22070	17817	14975
10°	15762	23775	15500	10655
15°	12565	23093	12335	7269
20°	9170	20354	9038	4783
25°	6392	16714	6294	3059
30°	4295	12497	4238	1848
35°	2725	8739	2669	1062
40°	1665	6020	1627	650
45°	1014	4013	990	465
50°	673	2530	638	373
55°	499	1502	455	306
60°	393	793	334	253
65°	315	531	257	202
70°	263	393	202	161
75°	203	316	140	117
80°	121	195	61	128
85°	134	27	54	134



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.2	13.8
10°-20°	312.2	30.4
20°-30°	282.6	27.5
30°-40°	165.6	16.1
40°-50°	74.4	7.2
50°-60°	29.3	2.9
60°-70°	11.9	1.2
70°-80°	4.6	0.5
80°-90°	0.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.6	0.1
150°-160°	1.0	0.1
160°-170°	1.0	0.1
170°-180°	0.4	0.0
0°-30°	737.0	71.8
0°-40°	902.6	87.9
0°-60°	1006.3	98.0
0°-90°	1023.6	99.7
90°-120°	0.0	0.0
90°-150°	0.9	0.1
90°-180°	3.0	0.3
0°-180°	1027.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1607	1607	1607	1607	1607	
5°	1522	1880	1518	1276	1522	140
15°	1038	1908	1019	600	1038	285
25°	496	1296	488	237	496	228
35°	191	612	187	74	191	122
45°	61	243	60	28	61	50
55°	24	74	22	15	24	23
65°	11	19	9	7	11	12
75°	4	7	3	3	4	5
85°	1	0	0	1	1	1
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	1	0	0
145°	1	0	1	3	1	1
155°	3	1	2	4	3	1
165°	4	2	3	5	4	1
175°	5	4	5	5	5	0
180°	5	5	5	5	5	



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0
0.5°	1612.7	1625.0	1628.1	1634.3	1655.1	1625.2	1626.4	1610.7	1608.5	1596.7	1585.9
1°	1606.1	1628.8	1648.5	1662.8	1682.8	1650.7	1648.5	1616.6	1610.4	1578.9	1566.9
1.5°	1605.2	1643.6	1669.8	1684.5	1709.1	1677.3	1670.9	1631.1	1596.7	1560.9	1541.9
2°	1582.9	1640.0	1690.9	1711.6	1743.9	1706.3	1684.0	1636.2	1592.5	1552.2	1505.0
2.5°	1581.4	1634.6	1708.2	1748.7	1781.2	1739.7	1714.2	1642.8	1579.3	1531.5	1482.9
3°	1583.6	1645.8	1721.0	1765.2	1793.8	1762.7	1736.8	1650.4	1571.3	1518.8	1454.4
3.5°	1578.9	1652.6	1732.7	1784.6	1818.3	1775.9	1738.9	1641.8	1564.3	1480.3	1414.1
4°	1562.4	1658.6	1747.1	1793.9	1852.8	1798.0	1749.9	1645.2	1549.5	1457.6	1392.8
4.5°	1555.1	1654.4	1751.5	1830.8	1863.8	1819.4	1761.3	1651.0	1534.4	1442.4	1363.2
5°	1521.9	1649.2	1753.8	1844.4	1880.5	1830.2	1780.0	1648.4	1518.1	1411.6	1330.7
5.5°	1517.0	1641.0	1754.5	1857.5	1900.8	1842.4	1776.6	1633.2	1504.3	1380.4	1292.7
6°	1500.1	1634.9	1776.3	1862.9	1935.5	1871.9	1789.1	1624.0	1495.8	1357.9	1271.1
6.5°	1474.0	1634.1	1784.2	1878.6	1947.5	1887.3	1786.7	1612.6	1471.2	1330.5	1240.9
7°	1460.1	1621.5	1783.0	1881.5	1965.4	1900.2	1774.1	1609.7	1444.7	1301.2	1196.4
7.5°	1439.6	1610.0	1783.8	1900.1	1982.4	1905.9	1778.9	1600.5	1432.0	1270.8	1166.9
8°	1407.1	1588.5	1783.6	1890.4	1988.2	1907.1	1781.5	1581.5	1408.2	1252.8	1123.8
8.5°	1400.0	1574.2	1774.8	1900.8	2006.4	1916.6	1786.0	1567.5	1382.7	1223.8	1104.0
9°	1387.6	1556.2	1771.7	1906.0	1989.5	1915.9	1782.7	1550.2	1354.0	1193.8	1061.3
9.5°	1359.4	1546.3	1767.7	1905.9	2001.3	1915.6	1776.7	1531.5	1335.5	1163.2	1038.6
10°	1327.6	1520.3	1747.9	1903.5	2002.6	1905.3	1763.3	1521.2	1305.6	1130.1	1005.4
10.5°	1303.8	1509.4	1747.8	1892.4	2022.8	1909.1	1746.0	1503.9	1282.9	1095.7	970.5
11°	1273.2	1501.0	1723.1	1888.5	2009.4	1916.9	1735.7	1478.9	1254.2	1073.0	938.8
11.5°	1253.5	1476.4	1712.7	1881.9	1999.0	1900.0	1723.6	1455.7	1223.9	1043.1	906.2
12°	1216.4	1452.6	1705.5	1861.2	1991.3	1875.1	1700.4	1427.8	1194.8	1009.6	874.3
12.5°	1192.3	1415.3	1676.6	1863.6	1989.5	1881.9	1676.4	1407.1	1165.7	979.8	845.0
13°	1164.2	1398.3	1664.2	1835.1	1980.9	1853.6	1662.4	1382.6	1135.3	944.9	812.2
13.5°	1132.8	1374.7	1640.6	1840.9	1960.9	1842.6	1648.9	1348.9	1110.7	915.0	782.3
14°	1101.1	1342.8	1621.3	1805.9	1944.9	1836.8	1628.4	1330.6	1080.4	891.6	751.3
14.5°	1072.3	1321.8	1599.9	1796.4	1930.0	1811.7	1598.4	1304.1	1052.5	863.7	724.6
15°	1038.1	1292.4	1578.1	1752.5	1907.8	1792.6	1572.4	1274.4	1019.1	830.4	696.0
15.5°	1004.5	1263.0	1548.5	1740.1	1886.0	1762.0	1536.1	1245.0	988.2	802.5	669.7
16°	975.1	1235.0	1518.3	1718.7	1864.7	1740.0	1518.7	1212.2	962.4	771.8	642.1
16.5°	954.4	1214.7	1481.5	1692.0	1844.3	1717.5	1479.9	1182.1	933.1	742.8	620.0
17°	917.3	1172.6	1448.8	1666.7	1824.5	1691.9	1461.6	1157.4	904.9	715.8	596.3
17.5°	887.9	1142.4	1426.4	1642.1	1795.9	1670.6	1431.9	1128.9	874.0	684.8	568.3
18°	852.5	1111.9	1381.2	1620.8	1764.0	1637.5	1412.2	1096.8	842.9	657.7	542.9
18.5°	832.2	1080.1	1367.3	1588.3	1736.6	1607.6	1373.8	1063.9	812.0	632.7	522.6
19°	799.9	1046.6	1346.2	1557.1	1701.4	1580.0	1335.7	1036.1	783.4	610.1	502.4
19.5°	764.6	1016.0	1292.3	1519.3	1671.9	1552.8	1300.7	1003.6	752.4	588.6	483.3
20°	737.0	981.3	1263.4	1490.4	1635.9	1512.5	1277.6	974.5	726.4	562.3	463.6
20.5°	711.0	954.9	1236.0	1460.0	1619.0	1481.5	1241.9	943.9	699.2	537.7	441.9
21°	685.0	920.0	1201.8	1422.2	1578.8	1448.9	1211.3	909.4	673.6	514.7	421.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	605.9	826.0	1104.0	1323.1	1485.3	1351.4	1101.3	817.1	597.5	453.2	368.7
23°	582.1	798.5	1067.4	1287.8	1457.1	1313.1	1068.2	785.2	575.5	437.3	354.2
23.5°	559.8	768.6	1037.8	1257.4	1414.6	1270.9	1039.1	758.0	553.0	418.4	335.8
24°	537.0	738.6	1005.3	1219.0	1371.9	1238.2	1005.5	733.0	529.8	400.2	318.9
24.5°	516.5	708.8	972.6	1186.4	1338.3	1215.6	972.5	703.7	507.4	383.3	302.4
25°	495.5	680.7	937.9	1149.0	1295.6	1173.0	943.2	677.6	487.9	367.6	287.4
25.5°	477.8	655.3	905.2	1113.4	1257.6	1131.7	909.8	646.1	466.3	348.7	274.1
26°	452.6	632.9	874.8	1083.2	1219.2	1090.5	876.5	625.2	448.6	330.0	261.6
26.5°	436.4	605.2	845.3	1038.7	1182.0	1056.5	843.8	599.9	428.9	317.4	248.6
27°	417.0	582.5	811.1	1006.0	1140.1	1023.1	812.5	575.2	411.8	303.3	236.4
27.5°	398.6	560.5	787.6	974.3	1105.5	989.4	781.3	550.7	395.9	288.6	224.2
28°	381.3	538.6	749.0	940.5	1071.4	958.6	751.5	527.9	377.7	272.7	212.1
28.5°	365.0	519.4	722.4	905.5	1028.6	930.0	721.5	506.0	360.7	258.8	200.3
29°	349.8	494.4	695.3	871.9	997.3	896.3	692.0	487.4	344.4	246.1	190.6
29.5°	335.6	471.6	666.7	839.2	960.1	855.8	665.0	468.5	328.6	236.2	180.1
30°	318.1	454.6	637.7	805.3	925.7	826.3	640.1	447.9	313.9	225.0	170.0
30.5°	303.1	434.3	610.5	779.9	890.5	794.6	612.6	426.5	298.1	212.4	160.9
31°	290.4	415.1	588.4	745.9	860.3	764.1	589.8	410.9	283.9	200.6	153.2
31.5°	276.2	397.2	566.3	715.9	825.1	732.7	571.0	393.6	270.5	190.1	144.4
32°	261.0	379.5	545.1	686.1	791.6	705.9	546.2	377.1	257.1	179.3	136.4
32.5°	248.9	362.6	520.9	660.9	760.4	678.4	525.1	360.5	244.9	169.0	128.5
33°	235.5	345.8	497.5	632.0	729.9	653.0	501.5	343.6	231.4	158.3	120.9
33.5°	224.8	329.4	478.0	606.7	698.8	624.9	481.4	325.6	218.8	148.9	114.4
34°	213.0	315.2	460.0	580.4	670.2	594.8	458.5	310.1	207.9	140.9	108.2
34.5°	202.3	302.0	436.7	558.0	641.2	570.0	438.6	296.7	197.1	133.9	102.1
35°	190.9	287.8	419.5	534.7	612.3	551.0	419.6	283.8	187.0	126.0	96.0
35.5°	181.3	273.5	398.6	511.1	588.4	529.2	401.4	267.3	177.0	118.7	90.1
36°	171.9	261.1	380.8	492.1	565.9	508.4	385.4	255.4	168.2	112.3	84.6
36.5°	162.6	248.9	365.7	471.0	541.7	486.6	367.9	243.8	158.5	105.8	79.7
37°	153.0	235.9	348.9	450.5	517.1	462.4	350.6	231.6	150.5	99.8	75.4
37.5°	144.9	224.1	332.5	430.2	495.8	441.7	333.2	220.4	142.2	93.9	70.6
38°	136.5	212.9	315.8	410.7	475.7	421.9	316.8	208.2	133.7	88.5	67.0
38.5°	129.5	200.9	299.4	392.2	454.5	401.1	299.9	195.9	126.5	83.1	62.9
39°	122.9	190.5	285.4	374.4	432.3	381.9	285.7	186.2	119.7	78.3	59.6
39.5°	116.0	180.2	271.1	357.6	411.2	365.3	272.2	176.3	113.1	73.5	56.4
40°	109.1	170.3	257.6	339.9	394.4	347.7	257.3	166.1	106.6	69.1	53.3
40.5°	102.3	161.1	244.5	324.4	376.8	331.2	243.4	157.1	100.2	65.3	50.7
41°	96.8	152.3	232.5	308.0	358.9	314.5	231.0	149.7	94.8	61.7	48.0
41.5°	91.6	144.2	220.8	292.7	341.6	299.7	219.7	141.1	89.6	58.5	45.3
42°	86.0	136.0	209.2	278.6	326.9	285.7	207.2	132.8	84.5	55.3	43.0
42.5°	81.3	128.3	198.3	265.4	310.5	271.1	196.2	124.6	79.8	52.1	41.0
43°	76.9	121.0	186.8	252.3	294.8	257.6	186.1	118.0	75.1	49.4	38.9
43.5°	72.9	114.1	176.1	238.5	283.0	244.3	175.8	111.5	70.9	46.8	37.0



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	61.3	95.0	147.5	203.6	242.7	206.2	147.3	93.1	59.9	40.0	32.1
45.5°	58.0	89.3	139.0	192.3	230.8	196.0	138.3	87.6	56.6	38.0	30.8
46°	54.7	84.1	131.2	181.9	218.5	185.8	129.9	82.4	53.9	36.2	29.6
46.5°	52.1	79.3	123.8	171.9	206.6	176.1	123.0	77.4	50.9	34.8	28.5
47°	49.5	74.3	116.3	162.2	195.5	166.6	115.8	72.8	48.4	33.2	27.4
47.5°	47.3	70.0	109.0	153.6	185.3	157.7	109.0	68.5	45.6	31.7	26.3
48°	44.9	66.2	102.5	144.9	175.3	148.4	102.3	64.6	43.2	30.3	25.2
48.5°	42.8	62.7	95.9	136.3	166.4	140.0	95.6	61.2	41.0	29.1	24.4
49°	40.9	59.4	90.2	128.5	156.9	131.7	90.0	58.0	39.0	27.8	23.5
49.5°	38.9	56.2	84.7	121.5	148.1	124.6	84.8	54.8	37.0	26.7	22.8
50°	37.0	52.8	79.6	114.4	139.1	117.0	79.4	51.7	35.1	25.6	22.2
50.5°	35.6	49.8	74.9	107.5	131.3	109.7	74.8	49.0	33.4	24.6	21.5
51°	34.0	47.3	70.5	101.0	123.3	103.4	69.9	46.1	31.8	23.6	20.9
51.5°	32.6	45.0	66.4	94.5	116.1	97.5	65.5	43.7	30.4	22.8	20.0
52°	31.3	42.7	62.4	88.9	109.4	91.8	61.8	41.3	29.0	22.1	19.4
52.5°	29.9	40.4	58.8	83.5	102.7	85.7	58.3	39.1	27.7	21.1	18.7
53°	28.8	38.5	55.5	78.5	96.2	80.2	54.9	37.0	26.6	20.3	18.0
53.5°	27.5	36.8	52.1	73.6	90.3	75.1	51.8	35.0	25.4	19.7	17.6
54°	26.6	35.0	48.9	68.9	84.3	70.4	49.0	33.1	24.2	19.0	16.8
54.5°	25.6	33.4	46.2	64.7	79.1	65.9	45.9	31.4	23.2	18.4	16.4
55°	24.5	31.9	43.8	61.1	73.7	61.7	42.9	29.6	22.3	17.6	15.7
55.5°	23.6	30.4	41.6	57.6	68.6	57.5	39.9	27.8	21.3	17.1	15.3
56°	22.9	29.0	39.2	53.6	63.4	52.9	36.8	26.1	20.4	16.5	14.7
56.5°	22.0	27.4	36.3	49.3	58.4	48.5	34.2	24.6	19.4	15.7	14.3
57°	21.0	25.9	33.7	45.2	53.2	44.4	31.7	23.4	18.6	15.3	13.6
57.5°	20.4	24.6	31.4	41.5	48.3	41.2	29.8	22.3	17.8	14.5	13.3
58°	19.5	23.5	29.6	38.2	44.7	38.4	27.9	21.4	17.0	14.1	12.6
58.5°	18.8	22.7	28.2	35.6	41.4	35.7	26.4	20.4	16.5	13.4	12.3
59°	18.1	21.8	26.9	33.5	38.5	33.4	25.1	19.7	15.6	13.1	11.6
59.5°	17.4	20.8	25.6	31.5	36.0	31.5	23.7	18.7	15.0	12.4	11.3
60°	16.8	20.0	24.3	29.9	33.9	29.6	22.6	17.8	14.3	12.1	10.7
60.5°	16.2	19.3	23.3	28.2	31.8	27.9	21.6	17.2	13.7	11.5	10.3
61°	15.6	18.4	22.3	26.7	29.9	26.3	20.5	16.5	13.2	11.2	10.0
61.5°	15.0	17.7	21.5	25.2	28.1	24.9	19.6	15.5	12.6	10.6	9.5
62°	14.4	17.0	20.4	23.9	26.3	23.5	18.5	14.9	12.3	10.2	9.1
62.5°	13.9	16.3	19.5	22.9	24.8	22.4	17.8	14.4	11.6	10.0	8.9
63°	13.4	15.6	18.7	21.8	23.4	21.2	16.9	13.7	11.4	9.4	8.5
63.5°	12.9	15.0	17.9	20.7	22.4	20.0	16.1	13.1	10.6	9.0	8.0
64°	12.4	14.3	17.2	19.8	21.2	19.1	15.5	12.4	10.2	8.6	8.0
64.5°	11.9	13.9	16.5	18.9	20.2	18.2	14.7	12.2	9.7	8.2	7.4
65°	11.4	13.4	15.8	18.2	19.2	17.3	14.0	11.5	9.3	8.1	7.1
65.5°	11.0	12.9	15.1	17.3	18.2	16.6	13.6	11.1	9.1	7.6	7.0
66°	10.6	12.4	14.5	16.5	17.3	15.7	12.8	10.5	8.4	7.3	6.5





TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.4	11.1	12.9	14.4	14.8	13.6	11.3	9.2	7.3	6.3	5.8
68°	9.0	10.6	12.4	13.8	14.1	12.8	10.8	9.1	7.1	6.0	5.5
68.5°	8.8	10.2	11.9	13.1	13.5	12.5	10.3	8.3	6.9	5.9	5.2
69°	8.4	9.8	11.4	12.5	12.8	11.7	9.7	8.0	6.5	5.8	5.2
69.5°	8.1	9.4	11.0	12.0	12.2	11.4	9.4	7.7	6.1	5.3	5.2
70°	7.7	9.0	10.5	11.5	11.5	10.5	9.1	7.3	5.9	5.0	5.1
70.5°	7.5	8.7	10.0	11.0	11.0	10.1	8.5	7.1	5.8	4.9	4.2
71°	7.2	8.3	9.7	10.6	10.4	9.5	8.2	6.9	5.4	4.9	4.0
71.5°	6.9	8.0	9.2	10.1	10.0	9.2	7.9	6.3	5.1	4.2	3.9
72°	6.5	7.8	8.8	9.7	9.4	8.7	7.4	6.0	5.2	3.9	3.7
72.5°	6.1	7.5	8.5	9.2	9.1	8.3	7.0	5.9	5.2	3.8	3.1
73°	5.9	7.1	8.2	8.8	8.5	7.9	6.8	5.4	4.1	3.6	2.8
73.5°	5.5	6.8	7.8	8.4	8.2	7.5	6.3	5.2	3.9	3.2	2.7
74°	5.1	6.3	7.4	7.9	7.6	7.1	6.0	5.0	3.6	2.8	2.6
74.5°	4.7	5.9	7.0	7.6	7.2	6.6	5.8	5.0	3.6	2.6	2.1
75°	4.5	5.5	6.6	7.1	7.0	6.2	5.3	4.1	3.1	2.5	1.8
75.5°	4.2	5.3	6.3	6.8	6.3	5.9	5.1	3.8	2.8	2.1	1.8
76°	3.8	4.9	5.9	6.4	6.0	5.4	5.1	3.6	2.7	1.8	1.8
76.5°	3.5	4.5	5.6	6.0	5.6	5.1	4.2	3.4	2.4	1.7	1.7
77°	3.2	4.2	5.2	5.5	5.2	5.0	3.9	3.0	2.0	1.6	1.7
77.5°	2.9	3.9	4.7	5.3	5.1	4.7	3.8	2.8	1.7	1.6	1.7
78°	2.6	3.5	4.4	4.9	4.9	4.0	3.3	2.7	1.7	1.3	1.7
78.5°	2.4	3.1	4.0	4.5	4.0	3.8	2.9	2.1	1.7	1.1	1.7
79°	2.3	2.9	3.7	4.1	3.8	3.2	2.7	1.8	1.1	1.0	1.4
79.5°	2.0	2.5	3.3	3.7	3.3	2.9	2.2	1.6	0.9	1.1	1.1
80°	1.8	2.3	2.9	3.3	2.9	2.7	2.0	1.5	0.9	0.9	1.1
80.5°	1.7	2.1	2.6	3.0	2.6	2.2	1.7	1.2	0.7	0.9	1.0
81°	1.6	1.8	2.3	2.7	2.1	1.8	1.6	0.9	0.8	0.9	0.8
81.5°	1.6	1.6	2.1	2.3	1.8	1.6	1.3	0.7	0.7	0.7	0.8
82°	1.5	1.3	1.8	2.1	1.7	1.4	0.9	0.7	0.7	0.7	0.7
82.5°	1.5	1.2	1.5	1.8	1.3	1.0	0.7	0.7	0.7	0.7	0.7
83°	1.3	1.1	1.3	1.6	0.9	0.8	0.6	0.7	0.7	0.7	0.7
83.5°	1.3	1.1	1.1	1.3	0.7	0.6	0.5	0.7	0.7	0.7	0.7
84°	1.3	1.1	0.9	1.1	0.6	0.5	0.6	0.6	0.7	0.6	0.7
84.5°	1.1	1.1	0.9	0.9	0.5	0.3	0.5	0.5	0.6	0.7	0.7
85°	1.0	0.9	0.9	0.8	0.2	0.3	0.4	0.5	0.4	0.5	0.5
85.5°	0.9	0.9	0.9	0.8	0.1	0.2	0.5	0.4	0.2	0.4	0.4
86°	0.9	0.9	0.8	0.8	0.1	0.2	0.5	0.4	0.1	0.3	0.3
86.5°	0.7	0.8	0.7	0.7	0.1	0.1	0.3	0.3	0.1	0.1	0.1
87°	0.7	0.7	0.7	0.7	0.1	0.1	0.2	0.1	0.0	0.1	0.0
87.5°	0.6	0.6	0.5	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0
88°	0.5	0.5	0.5	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0
88.5°	0.4	0.3	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	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
93.5°	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
94.5°	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
95.5°	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
96.5°	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	0.1	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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
98.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	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
100.5°	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
101.5°	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
102.5°	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
103.5°	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
104.5°	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
105.5°	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
106.5°	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
107.5°	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
108.5°	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
109.5°	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
110.5°	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



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
114°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
114.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
115°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
115.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
116°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
116.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
117°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
117.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
118°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1
118.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
119°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
119.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1
120°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
120.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
121°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
121.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
122°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
123°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
123.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
124°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1
125.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1
129°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1
129.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
130°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
130.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
131°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
131.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.3
132°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3
133°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4
133.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.4



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4
135.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4
136°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.5
136.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.5
137°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.6
137.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.3	0.5
138°	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.4	0.5
138.5°	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.7
139°	0.3	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4	0.4	0.7
139.5°	0.4	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.4	0.5	0.7
140°	0.5	0.1	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.6	0.7
140.5°	0.6	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.5	0.8
141°	0.7	0.3	0.0	0.0	0.1	0.1	0.3	0.2	0.4	0.7	0.8
141.5°	0.7	0.3	0.0	0.0	0.1	0.1	0.3	0.2	0.4	0.7	0.9
142°	0.7	0.4	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.7	0.9
142.5°	0.7	0.3	0.1	0.0	0.1	0.1	0.2	0.3	0.5	0.7	0.9
143°	0.7	0.5	0.2	0.0	0.2	0.2	0.3	0.3	0.6	0.7	1.0
143.5°	0.7	0.6	0.3	0.0	0.2	0.2	0.3	0.4	0.6	0.8	1.1
144°	0.7	0.6	0.4	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1
144.5°	0.7	0.7	0.3	0.1	0.3	0.2	0.3	0.3	0.6	0.9	1.1
145°	0.7	0.7	0.3	0.2	0.3	0.2	0.3	0.5	0.6	0.9	1.2
145.5°	0.8	0.7	0.5	0.2	0.3	0.3	0.3	0.4	0.7	0.9	1.3
146°	0.9	0.7	0.6	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3
146.5°	0.9	0.7	0.7	0.3	0.3	0.3	0.4	0.5	0.8	1.1	1.4
147°	1.1	0.7	0.7	0.3	0.3	0.4	0.4	0.6	0.8	1.1	1.4
147.5°	1.1	0.7	0.7	0.5	0.4	0.4	0.4	0.6	0.8	1.2	1.5
148°	1.3	0.8	0.7	0.5	0.3	0.4	0.4	0.6	0.9	1.2	1.5
148.5°	1.6	0.7	0.8	0.7	0.3	0.4	0.4	0.6	0.9	1.3	1.6
149°	1.8	0.7	0.8	0.6	0.4	0.5	0.5	0.7	0.9	1.3	1.7
149.5°	1.8	0.8	0.7	0.7	0.4	0.5	0.5	0.7	1.0	1.3	1.7
150°	1.8	0.9	0.7	0.7	0.5	0.5	0.6	0.7	1.1	1.5	1.8
150.5°	1.7	1.1	0.7	0.7	0.5	0.5	0.6	0.8	1.1	1.5	1.9
151°	1.8	1.1	0.7	0.7	0.6	0.5	0.6	0.8	1.1	1.5	2.0
151.5°	1.8	1.3	0.7	0.7	0.6	0.5	0.6	0.9	1.2	1.6	2.1
152°	1.8	1.5	0.7	0.7	0.6	0.5	0.7	0.9	1.3	1.6	2.1
152.5°	2.0	1.8	0.9	0.7	0.7	0.6	0.7	0.9	1.3	1.7	2.2
153°	2.0	1.7	0.9	0.7	0.7	0.7	0.7	1.0	1.3	1.7	2.3
153.5°	2.2	1.7	1.0	0.7	0.8	0.7	0.7	1.0	1.4	1.9	2.3
154°	2.4	1.8	1.1	0.8	0.8	0.7	0.8	1.1	1.4	1.9	2.4
154.5°	2.7	1.7	1.3	0.9	0.8	0.7	0.9	1.1	1.6	2.0	2.5
155°	2.7	1.7	1.5	0.9	0.9	0.8	0.9	1.2	1.6	2.1	2.5
155.5°	2.7	1.8	1.6	1.1	0.9	0.8	0.9	1.2	1.6	2.2	2.6
156°	2.8	1.9	1.7	1.1	0.9	0.9	1.0	1.2	1.7	2.3	2.7



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.9	2.5	1.7	1.7	1.0	1.0	1.1	1.4	1.8	2.5	3.0
158°	3.0	2.7	1.7	1.7	1.1	1.1	1.2	1.4	2.0	2.5	3.1
158.5°	3.2	2.9	1.9	1.7	1.2	1.1	1.3	1.5	2.1	2.7	3.3
159°	3.2	2.9	1.9	1.7	1.2	1.2	1.3	1.6	2.2	2.7	3.3
159.5°	3.4	2.8	2.0	1.7	1.3	1.2	1.3	1.7	2.2	2.9	3.4
160°	3.7	2.9	2.1	1.8	1.4	1.3	1.4	1.7	2.3	2.9	3.5
160.5°	3.8	2.9	2.3	1.8	1.4	1.4	1.5	1.8	2.4	3.0	3.6
161°	3.8	2.9	2.6	1.9	1.4	1.4	1.5	1.8	2.5	3.1	3.7
161.5°	3.8	3.1	2.7	2.1	1.5	1.5	1.6	1.9	2.6	3.2	3.8
162°	3.8	3.1	2.7	2.1	1.6	1.5	1.7	2.0	2.6	3.3	3.9
162.5°	3.8	3.3	2.7	2.1	1.6	1.7	1.7	2.1	2.8	3.4	4.1
163°	4.0	3.4	2.7	2.3	1.6	1.7	1.8	2.1	2.8	3.5	4.1
163.5°	4.0	3.7	2.7	2.8	1.7	1.7	1.8	2.2	2.9	3.5	4.2
164°	4.0	3.8	2.8	2.9	1.8	1.8	2.0	2.4	3.0	3.7	4.4
164.5°	4.2	3.8	2.9	2.8	1.9	1.9	2.0	2.4	3.1	3.7	4.4
165°	4.4	3.9	3.0	2.8	2.0	2.0	2.1	2.4	3.1	3.8	4.4
165.5°	4.9	3.8	3.1	2.8	2.1	2.0	2.2	2.5	3.2	3.9	4.5
166°	5.2	3.8	3.3	2.8	2.1	2.2	2.3	2.6	3.4	4.0	4.7
166.5°	5.2	3.9	3.5	2.9	2.2	2.2	2.4	2.7	3.4	4.1	4.7
167°	5.2	4.0	3.8	3.0	2.3	2.4	2.4	2.8	3.6	4.1	4.8
167.5°	5.2	4.1	3.8	3.1	2.3	2.4	2.5	2.9	3.6	4.3	4.9
168°	5.2	4.1	3.9	3.1	2.5	2.5	2.5	3.0	3.6	4.3	5.0
168.5°	5.2	4.2	3.9	3.2	2.5	2.5	2.7	3.1	3.8	4.4	5.0
169°	5.2	4.3	3.9	3.5	2.6	2.6	2.7	3.2	3.8	4.4	5.0
169.5°	5.2	4.8	3.9	3.7	2.7	2.7	2.8	3.3	4.0	4.5	5.2
170°	5.2	4.9	4.0	3.8	2.8	2.7	2.9	3.3	4.0	4.6	5.2
170.5°	5.2	5.1	4.0	3.9	2.8	2.9	3.0	3.4	4.1	4.6	5.3
171°	5.2	5.1	4.1	3.9	3.0	2.9	3.1	3.5	4.1	4.7	5.3
171.5°	5.2	5.1	4.1	3.9	3.0	3.0	3.1	3.6	4.2	4.7	5.2
172°	5.2	5.1	4.2	3.9	3.1	3.0	3.3	3.7	4.2	4.9	5.2
172.5°	5.2	5.1	4.4	3.9	3.3	3.2	3.3	3.8	4.3	4.9	5.2
173°	5.2	5.1	4.6	3.9	3.4	3.4	3.4	3.9	4.5	4.9	5.2
173.5°	5.2	5.1	4.9	3.9	3.5	3.4	3.5	4.0	4.5	5.1	5.2
174°	5.2	5.1	5.1	3.9	3.5	3.6	3.6	4.0	4.6	5.1	5.2
174.5°	5.2	5.1	5.2	3.9	3.6	3.6	3.7	4.2	4.6	5.1	5.2
175°	5.2	5.1	5.2	4.0	3.8	3.7	3.7	4.2	4.7	5.1	5.2
175.5°	5.2	5.1	5.2	4.1	3.8	3.7	3.7	4.2	4.7	5.1	5.2
176°	5.2	5.1	5.2	4.1	3.8	3.8	3.9	4.3	4.8	5.1	5.2
176.5°	5.2	5.1	5.2	4.1	3.9	3.9	4.0	4.3	4.8	5.1	5.2
177°	5.3	5.2	5.2	4.2	4.0	3.9	4.0	4.4	4.7	5.1	5.2
177.5°	5.3	5.2	5.2	4.1	4.0	4.0	4.0	4.4	4.7	4.9	5.2
178°	5.1	5.1	5.2	4.1	4.0	4.0	4.2	4.4	4.7	4.9	5.2
178.5°	4.9	5.1	5.0	4.1	4.1	4.1	4.1	4.4	4.7	4.9	5.2



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0
0.5°	1573.7	1580.0	1571.3	1598.5	1594.2	1612.7
1°	1547.4	1549.4	1536.4	1578.4	1583.1	1606.1
1.5°	1512.1	1508.1	1505.6	1552.9	1569.2	1605.2
2°	1485.7	1483.4	1474.0	1519.5	1548.6	1582.9
2.5°	1437.2	1449.5	1439.2	1489.4	1535.3	1581.4
3°	1410.3	1410.1	1405.2	1465.1	1503.6	1583.6
3.5°	1374.8	1374.9	1375.8	1430.0	1476.9	1578.9
4°	1343.9	1328.1	1340.4	1406.6	1454.2	1562.4
4.5°	1308.4	1302.4	1303.3	1370.1	1433.2	1555.1
5°	1279.4	1275.9	1268.5	1340.1	1414.6	1521.9
5.5°	1244.3	1222.6	1233.6	1311.0	1387.7	1517.0
6°	1209.6	1188.8	1202.0	1280.0	1357.9	1500.1
6.5°	1170.7	1147.5	1159.0	1247.8	1338.0	1474.0
7°	1132.6	1120.0	1123.1	1210.9	1316.5	1460.1
7.5°	1099.4	1075.1	1086.5	1179.3	1279.5	1439.6
8°	1058.9	1028.0	1052.1	1147.7	1251.1	1407.1
8.5°	1030.2	1008.2	1022.0	1118.5	1227.5	1400.0
9°	994.1	961.1	990.5	1070.4	1197.9	1387.6
9.5°	955.7	931.5	956.5	1042.1	1160.4	1359.4
10°	924.7	897.5	916.9	1010.6	1137.6	1327.6
10.5°	893.6	855.9	884.3	973.7	1103.7	1303.8
11°	860.3	824.9	848.2	946.6	1070.6	1273.2
11.5°	827.2	797.8	815.6	916.6	1046.4	1253.5
12°	794.0	768.2	788.7	880.5	1010.6	1216.4
12.5°	764.8	737.5	757.4	853.4	982.6	1192.3
13°	734.2	704.4	725.6	821.1	952.3	1164.2
13.5°	703.1	677.3	699.4	792.5	921.1	1132.8
14°	678.0	649.9	669.3	758.9	882.3	1101.1
14.5°	649.8	626.8	638.5	732.0	860.7	1072.3
15°	625.0	600.5	621.2	708.0	827.7	1038.1
15.5°	597.6	572.0	590.2	673.5	794.9	1004.5
16°	568.8	550.4	570.1	648.6	768.5	975.1
16.5°	545.7	526.1	544.7	625.3	745.7	954.4
17°	523.6	506.9	521.4	596.7	718.8	917.3
17.5°	505.8	482.4	497.3	577.0	691.9	887.9
18°	482.6	459.7	475.6	552.1	663.1	852.5
18.5°	460.7	441.1	457.5	529.7	637.8	832.2
19°	439.9	418.3	440.4	509.5	612.2	799.9
19.5°	422.3	402.0	419.5	483.8	587.1	764.6
20°	405.3	384.4	397.9	465.6	566.1	737.0
20.5°	386.7	364.3	380.0	444.8	542.0	711.0
21°	370.3	349.0	363.4	427.8	517.4	685.0



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	319.1	303.4	316.1	368.7	456.0	605.9
23°	304.8	289.2	297.9	351.8	439.4	582.1
23.5°	291.0	277.7	282.7	335.7	421.9	559.8
24°	276.8	262.0	270.3	318.2	402.3	537.0
24.5°	262.3	249.2	257.7	305.1	385.2	516.5
25°	249.4	237.1	244.2	291.6	368.6	495.5
25.5°	238.4	224.6	234.6	275.1	351.9	477.8
26°	224.5	213.4	221.4	263.4	333.6	452.6
26.5°	213.2	201.2	210.2	251.3	317.9	436.4
27°	202.5	190.6	199.9	234.8	303.9	417.0
27.5°	192.6	180.8	189.2	225.1	289.1	398.6
28°	182.5	170.1	180.1	214.6	276.7	381.3
28.5°	172.8	162.4	171.4	203.1	261.9	365.0
29°	163.3	153.5	162.4	191.7	248.9	349.8
29.5°	155.2	144.2	152.8	181.2	236.4	335.6
30°	146.0	136.9	144.8	172.2	224.1	318.1
30.5°	138.2	129.3	136.9	162.1	212.9	303.1
31°	130.9	121.4	128.7	152.4	202.0	290.4
31.5°	122.8	114.3	121.4	145.3	189.7	276.2
32°	116.1	107.7	114.5	137.8	179.2	261.0
32.5°	110.4	101.3	108.2	129.6	170.4	248.9
33°	103.8	95.2	101.6	122.9	161.2	235.5
33.5°	97.4	89.5	95.5	115.6	152.4	224.8
34°	91.8	84.7	89.8	108.9	143.7	213.0
34.5°	86.8	79.0	84.7	102.6	135.2	202.3
35°	81.3	74.4	79.6	95.8	127.3	190.9
35.5°	76.6	70.0	74.8	89.9	119.9	181.3
36°	71.7	66.1	70.6	85.4	113.3	171.9
36.5°	67.3	62.3	66.7	80.5	106.5	162.6
37°	63.5	58.9	62.8	75.9	100.4	153.0
37.5°	60.0	55.5	59.4	71.5	94.6	144.9
38°	56.8	52.4	56.0	67.3	89.3	136.5
38.5°	53.5	49.5	52.7	63.8	84.4	129.5
39°	50.6	47.0	49.7	60.4	79.6	122.9
39.5°	48.0	44.7	47.1	57.1	74.9	116.0
40°	45.6	42.6	44.7	53.7	70.9	109.1
40.5°	42.9	40.7	42.7	50.5	67.0	102.3
41°	40.9	38.7	40.7	48.0	63.4	96.8
41.5°	38.9	37.0	38.8	45.5	60.0	91.6
42°	37.1	35.4	37.0	42.8	56.7	86.0
42.5°	35.3	34.1	35.6	41.0	53.5	81.3
43°	33.7	32.7	34.1	39.4	50.7	76.9
43.5°	32.3	31.5	32.8	37.6	48.4	72.9





TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	28.5	28.1	29.3	33.3	41.9	61.3
45.5°	27.5	27.0	28.3	32.0	40.0	58.0
46°	26.3	26.2	27.3	30.8	38.3	54.7
46.5°	25.4	25.2	26.4	29.8	36.6	52.1
47°	24.4	24.3	25.4	28.7	35.1	49.5
47.5°	23.7	23.7	24.6	27.7	33.6	47.3
48°	22.9	23.2	23.9	26.9	32.4	44.9
48.5°	22.2	22.5	23.4	26.0	31.2	42.8
49°	21.6	21.7	22.6	25.2	30.1	40.9
49.5°	20.8	21.1	22.0	24.2	28.9	38.9
50°	20.2	20.5	21.3	23.6	27.9	37.0
50.5°	19.6	19.9	20.7	23.0	26.9	35.6
51°	18.9	19.4	20.1	22.4	25.9	34.0
51.5°	18.4	18.8	19.6	21.6	25.1	32.6
52°	17.8	18.2	19.0	21.0	24.1	31.3
52.5°	17.3	17.6	18.4	20.4	23.4	29.9
53°	16.6	17.1	17.9	19.8	22.8	28.8
53.5°	16.1	16.6	17.3	19.2	22.0	27.5
54°	15.6	16.0	16.7	18.7	21.3	26.6
54.5°	15.1	15.4	16.2	18.0	20.6	25.6
55°	14.6	15.0	15.7	17.4	20.0	24.5
55.5°	14.4	14.5	15.3	16.9	19.3	23.6
56°	13.7	14.1	14.8	16.4	18.8	22.9
56.5°	13.3	13.6	14.4	15.9	18.2	22.0
57°	12.7	13.2	13.9	15.5	17.6	21.0
57.5°	12.3	12.8	13.5	14.9	16.9	20.4
58°	11.8	12.3	13.0	14.4	16.4	19.5
58.5°	11.3	11.9	12.6	13.8	15.8	18.8
59°	11.0	11.6	12.2	13.4	15.2	18.1
59.5°	10.5	11.2	11.9	12.9	14.7	17.4
60°	10.1	10.8	11.5	12.5	14.2	16.8
60.5°	9.8	10.4	11.1	12.1	13.7	16.2
61°	9.3	10.0	10.7	11.6	13.2	15.6
61.5°	9.1	9.7	10.3	11.3	12.9	15.0
62°	8.6	9.3	9.9	11.0	12.3	14.4
62.5°	8.2	8.9	9.5	10.6	11.9	13.9
63°	7.9	8.5	9.1	10.2	11.5	13.4
63.5°	7.6	8.2	8.8	9.9	11.1	12.9
64°	7.2	7.8	8.4	9.4	10.7	12.4
64.5°	6.9	7.5	8.1	9.1	10.3	11.9
65°	6.8	7.3	7.8	8.7	10.1	11.4
65.5°	6.3	7.0	7.4	8.3	9.7	11.0
66°	6.0	6.8	7.2	8.0	9.3	10.6



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	5.2	6.0	6.3	7.1	8.3	9.4
68°	5.1	5.7	6.1	6.8	7.9	9.0
68.5°	5.1	5.5	5.8	6.6	7.6	8.8
69°	5.1	5.4	5.6	6.2	7.3	8.4
69.5°	4.6	5.0	5.4	6.0	7.0	8.1
70°	4.0	4.7	5.1	5.7	6.6	7.7
70.5°	3.8	4.4	4.8	5.5	6.3	7.5
71°	3.8	4.0	4.5	5.2	6.0	7.2
71.5°	3.2	3.7	4.1	4.8	5.8	6.9
72°	2.9	3.4	3.8	4.6	5.4	6.5
72.5°	2.6	3.2	3.5	4.2	5.1	6.1
73°	2.7	3.0	3.3	3.9	4.8	5.9
73.5°	2.2	2.9	3.1	3.6	4.5	5.5
74°	2.1	2.7	2.9	3.3	4.1	5.1
74.5°	1.9	2.7	2.8	3.1	3.8	4.7
75°	1.8	2.6	2.6	2.9	3.6	4.5
75.5°	1.7	2.6	2.6	2.7	3.2	4.2
76°	1.7	2.5	2.6	2.5	3.0	3.8
76.5°	1.7	2.5	2.6	2.4	2.7	3.5
77°	1.7	2.4	2.4	2.4	2.6	3.2
77.5°	1.7	2.3	2.4	2.4	2.4	2.9
78°	1.7	2.3	2.4	2.2	2.1	2.6
78.5°	1.7	2.1	2.3	2.1	2.0	2.4
79°	1.5	2.1	2.1	2.0	2.0	2.3
79.5°	1.3	2.0	2.0	2.0	1.9	2.0
80°	1.1	1.9	2.0	2.0	1.8	1.8
80.5°	1.0	1.8	1.8	1.8	1.8	1.7
81°	0.9	1.7	1.8	1.8	1.7	1.6
81.5°	0.8	1.6	1.7	1.7	1.7	1.6
82°	0.7	1.5	1.6	1.6	1.6	1.5
82.5°	0.7	1.5	1.5	1.6	1.5	1.5
83°	0.7	1.4	1.4	1.5	1.5	1.3
83.5°	0.7	1.2	1.3	1.4	1.3	1.3
84°	0.7	1.1	1.1	1.3	1.3	1.3
84.5°	0.7	1.1	1.1	1.2	1.1	1.1
85°	0.6	1.0	1.1	1.1	1.0	1.0
85.5°	0.4	0.9	0.9	0.9	0.9	0.9
86°	0.3	0.8	0.8	0.8	0.9	0.9
86.5°	0.1	0.7	0.7	0.7	0.8	0.7
87°	0.0	0.5	0.5	0.7	0.7	0.7
87.5°	0.0	0.3	0.4	0.5	0.5	0.6
88°	0.0	0.3	0.3	0.3	0.5	0.5
88.5°	0.0	0.1	0.1	0.3	0.3	0.4



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.1	0.1	0.0	0.1
90.5°	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
91.5°	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
92.5°	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
93.5°	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
94.5°	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
95.5°	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
96.5°	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
97.5°	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
98.5°	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
99.5°	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
100.5°	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
101.5°	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
102.5°	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
103.5°	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
104.5°	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
105.5°	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
106.5°	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
107.5°	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
108.5°	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
109.5°	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
110.5°	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



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.1	0.0	0.0	0.0	0.0	0.0
113°	0.1	0.0	0.0	0.0	0.0	0.0
113.5°	0.1	0.0	0.0	0.0	0.0	0.0
114°	0.1	0.0	0.0	0.0	0.0	0.0
114.5°	0.1	0.0	0.0	0.0	0.0	0.0
115°	0.1	0.0	0.0	0.0	0.0	0.0
115.5°	0.1	0.0	0.0	0.0	0.0	0.0
116°	0.1	0.0	0.0	0.0	0.0	0.0
116.5°	0.1	0.0	0.0	0.0	0.0	0.0
117°	0.1	0.0	0.0	0.0	0.0	0.0
117.5°	0.1	0.0	0.0	0.0	0.0	0.0
118°	0.1	0.0	0.0	0.0	0.0	0.0
118.5°	0.1	0.0	0.0	0.0	0.0	0.0
119°	0.1	0.0	0.0	0.0	0.0	0.0
119.5°	0.1	0.0	0.0	0.0	0.0	0.0
120°	0.1	0.0	0.0	0.0	0.0	0.0
120.5°	0.1	0.0	0.0	0.0	0.0	0.0
121°	0.1	0.0	0.0	0.0	0.0	0.0
121.5°	0.1	0.0	0.0	0.0	0.0	0.0
122°	0.1	0.0	0.0	0.0	0.0	0.0
122.5°	0.1	0.0	0.0	0.0	0.0	0.0
123°	0.1	0.1	0.0	0.0	0.0	0.0
123.5°	0.1	0.0	0.0	0.0	0.0	0.0
124°	0.1	0.0	0.0	0.0	0.0	0.0
124.5°	0.1	0.1	0.0	0.0	0.0	0.0
125°	0.1	0.1	0.0	0.0	0.0	0.0
125.5°	0.3	0.1	0.0	0.0	0.0	0.0
126°	0.2	0.3	0.0	0.0	0.0	0.0
126.5°	0.2	0.3	0.1	0.0	0.0	0.0
127°	0.2	0.3	0.1	0.0	0.0	0.0
127.5°	0.2	0.3	0.1	0.0	0.0	0.0
128°	0.2	0.3	0.1	0.0	0.0	0.0
128.5°	0.3	0.4	0.1	0.0	0.0	0.0
129°	0.3	0.4	0.2	0.0	0.0	0.0
129.5°	0.3	0.4	0.3	0.1	0.0	0.0
130°	0.4	0.4	0.3	0.1	0.0	0.0
130.5°	0.4	0.6	0.4	0.2	0.0	0.0
131°	0.3	0.7	0.5	0.4	0.0	0.0
131.5°	0.5	0.6	0.6	0.3	0.0	0.0
132°	0.5	0.7	0.6	0.3	0.0	0.0
132.5°	0.4	0.8	0.8	0.3	0.0	0.0
133°	0.4	0.8	0.8	0.4	0.1	0.0
133.5°	0.5	0.8	0.8	0.5	0.1	0.0



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.7	0.8	0.8	0.8	0.2	0.0
135.5°	0.6	0.8	0.8	0.8	0.2	0.0
136°	0.7	0.8	0.8	0.8	0.3	0.0
136.5°	0.7	0.9	0.8	0.8	0.3	0.0
137°	0.7	1.0	0.8	0.8	0.5	0.0
137.5°	0.7	1.1	0.9	0.8	0.6	0.0
138°	0.8	1.1	1.0	0.8	0.6	0.2
138.5°	0.8	1.4	1.1	0.9	0.7	0.2
139°	0.9	1.7	1.4	0.8	0.7	0.3
139.5°	0.9	1.7	1.6	0.8	0.7	0.4
140°	1.0	1.7	1.6	0.9	0.7	0.5
140.5°	1.0	1.7	1.8	1.1	0.7	0.6
141°	1.1	1.7	1.8	1.1	0.7	0.7
141.5°	1.1	1.8	1.8	1.2	0.7	0.7
142°	1.2	1.8	1.8	1.4	0.8	0.7
142.5°	1.3	2.0	1.8	1.7	0.9	0.7
143°	1.2	2.0	1.9	1.7	0.9	0.7
143.5°	1.2	2.2	1.9	1.7	1.0	0.7
144°	1.4	2.3	2.1	1.7	1.0	0.7
144.5°	1.5	2.7	2.2	1.7	1.3	0.7
145°	1.5	2.7	2.6	1.8	1.5	0.7
145.5°	1.5	2.8	2.7	1.8	1.7	0.8
146°	1.7	2.8	2.7	2.0	1.7	0.9
146.5°	1.6	2.8	2.7	2.1	1.6	0.9
147°	1.7	2.8	2.7	2.2	1.7	1.1
147.5°	1.9	2.9	2.7	2.5	1.7	1.1
148°	1.9	3.0	2.8	2.7	1.8	1.3
148.5°	2.0	3.1	3.0	2.8	1.8	1.6
149°	2.0	3.2	3.0	2.9	2.0	1.8
149.5°	2.1	3.5	3.1	2.9	2.1	1.8
150°	2.2	3.8	3.2	2.9	2.1	1.8
150.5°	2.3	3.8	3.5	3.0	2.5	1.7
151°	2.3	3.8	3.9	3.1	2.8	1.8
151.5°	2.4	3.8	3.9	3.1	2.8	1.8
152°	2.5	3.8	3.8	3.3	2.8	1.8
152.5°	2.5	3.9	3.9	3.3	2.8	2.0
153°	2.6	4.0	3.9	3.5	2.8	2.0
153.5°	2.7	4.1	4.0	3.7	2.8	2.2
154°	2.8	4.1	4.1	3.7	2.9	2.4
154.5°	2.9	4.3	4.1	3.7	3.0	2.7
155°	2.9	4.4	4.2	3.8	3.2	2.7
155.5°	3.1	4.9	4.3	3.9	3.3	2.7
156°	3.1	5.3	4.5	3.9	3.6	2.8



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	3.4	5.3	5.2	4.2	3.8	2.9
158°	3.5	5.3	5.2	4.8	3.8	3.0
158.5°	3.6	5.3	5.1	5.1	3.8	3.2
159°	3.7	5.3	5.1	5.2	4.0	3.2
159.5°	3.8	5.3	5.1	5.2	4.0	3.4
160°	3.9	5.3	5.1	5.2	4.0	3.7
160.5°	4.0	5.3	5.1	5.2	4.1	3.8
161°	4.2	5.3	5.1	5.2	4.3	3.8
161.5°	4.3	5.3	5.1	5.2	4.8	3.8
162°	4.4	5.3	5.1	5.2	5.2	3.8
162.5°	4.5	5.3	5.1	5.2	5.2	3.8
163°	4.6	5.3	5.1	5.2	5.2	4.0
163.5°	4.7	5.3	5.1	5.2	5.2	4.0
164°	4.8	5.3	5.1	5.2	5.2	4.0
164.5°	4.8	5.3	5.1	5.2	5.2	4.2
165°	4.9	5.3	5.1	5.2	5.2	4.4
165.5°	5.0	5.3	5.1	5.2	5.2	4.9
166°	5.1	5.3	5.1	5.2	5.2	5.2
166.5°	5.2	5.3	5.1	5.3	5.2	5.2
167°	5.2	5.3	5.2	5.3	5.2	5.2
167.5°	5.1	5.3	5.2	5.3	5.2	5.2
168°	5.1	5.3	5.2	5.3	5.2	5.2
168.5°	5.1	5.3	5.2	5.3	5.2	5.2
169°	5.1	5.3	5.2	5.3	5.2	5.2
169.5°	5.1	5.3	5.2	5.3	5.2	5.2
170°	5.1	5.3	5.2	5.3	5.2	5.2
170.5°	5.1	5.3	5.2	5.3	5.2	5.2
171°	5.1	5.3	5.2	5.3	5.2	5.2
171.5°	5.1	5.3	5.2	5.3	5.2	5.2
172°	5.1	5.3	5.2	5.3	5.2	5.2
172.5°	5.1	5.3	5.2	5.3	5.2	5.2
173°	5.1	5.3	5.2	5.3	5.2	5.2
173.5°	5.1	5.1	5.2	5.3	5.2	5.2
174°	5.1	5.1	5.2	5.3	5.2	5.2
174.5°	5.1	4.9	5.3	5.3	5.2	5.2
175°	5.1	4.9	5.2	5.3	5.2	5.2
175.5°	5.1	4.7	5.0	5.3	5.2	5.2
176°	5.1	4.7	4.9	5.3	5.2	5.2
176.5°	5.1	4.6	4.9	5.2	5.2	5.2
177°	5.1	4.5	4.7	5.0	5.2	5.3
177.5°	5.1	4.5	4.7	5.0	5.0	5.3
178°	5.1	4.5	4.5	4.8	5.0	5.1
178.5°	5.1	4.3	4.4	4.6	4.8	4.9



TEST NUMBER: P571721

CATALOG NUMBER: RLS4099FSE1WHDM 5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	4.9	4.9	4.9	4.9	4.9	4.9



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°







21.5°	657.4	893.5	1173.5	1392.8	1550.1	1413.6	1170.5	885.0	645.5	495.9	401.8
22°	630.5	857.8	1135.1	1357.3	1516.9	1386.6	1135.5	849.1	623.1	474.0	384.2



44°	69.0	107.5	166.4	226.0	268.0	231.5	166.1	104.9	66.6	44.3	35.2
44.5°	64.9	101.2	156.8	214.6	252.5	218.6	156.4	99.2	63.2	42.2	33.6



66.5°	10.2	12.0	14.0	15.7	16.4	14.9	12.4	10.1	8.1	7.0	6.2
67°	9.8	11.6	13.4	15.1	15.8	14.3	11.8	9.6	8.0	6.9	5.9



89°	0.3	0.3	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.2	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0





111.5°	0.0	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	0.1



134°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.4
134.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4



156.5°	2.8	2.1	1.7	1.3	1.0	0.9	1.0	1.2	1.8	2.3	2.9
157°	2.8	2.3	1.7	1.6	1.0	1.1	1.1	1.3	1.9	2.4	2.9



179°	4.9	5.1	5.1	4.2	4.2	4.1	4.2	4.5	4.7	4.9	5.2
179.5°	4.9	5.0	5.2	4.3	4.2	4.1	4.3	4.5	4.8	4.9	5.2





21.5°	349.6	332.8	347.5	408.2	500.8	657.4
22°	334.5	317.8	332.2	388.0	479.1	630.5



44°	31.2	30.5	31.6	36.0	46.0	69.0
44.5°	29.8	29.1	30.4	34.6	43.8	64.9



66.5°	5.8	6.5	6.9	7.7	9.0	10.2
67°	5.5	6.2	6.7	7.4	8.7	9.8





89°	0.0	0.1	0.0	0.0	0.2	0.3
89.5°	0.0	0.1	0.1	0.1	0.1	0.2



111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.1	0.0	0.0	0.0	0.0	0.0



134°	0.5	0.8	0.8	0.5	0.1	0.0
134.5°	0.5	0.8	0.8	0.7	0.2	0.0



156.5°	3.3	5.3	4.9	4.0	3.8	2.8
157°	3.3	5.3	5.1	4.1	3.8	2.8



179°	5.1	4.3	4.3	4.6	4.8	4.9
179.5°	5.1	4.3	4.3	4.6	4.7	4.9



(END OF REPORT)