

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: P571720

Luminaire Tested: **RLS4099FSE1WHDM 4000K**

Issue Date: 9/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P571720  
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 4000K  
Description: 4 INCH SLOPE DM AT 9 Degrees TILT  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1003.0 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.76 / 0.7  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

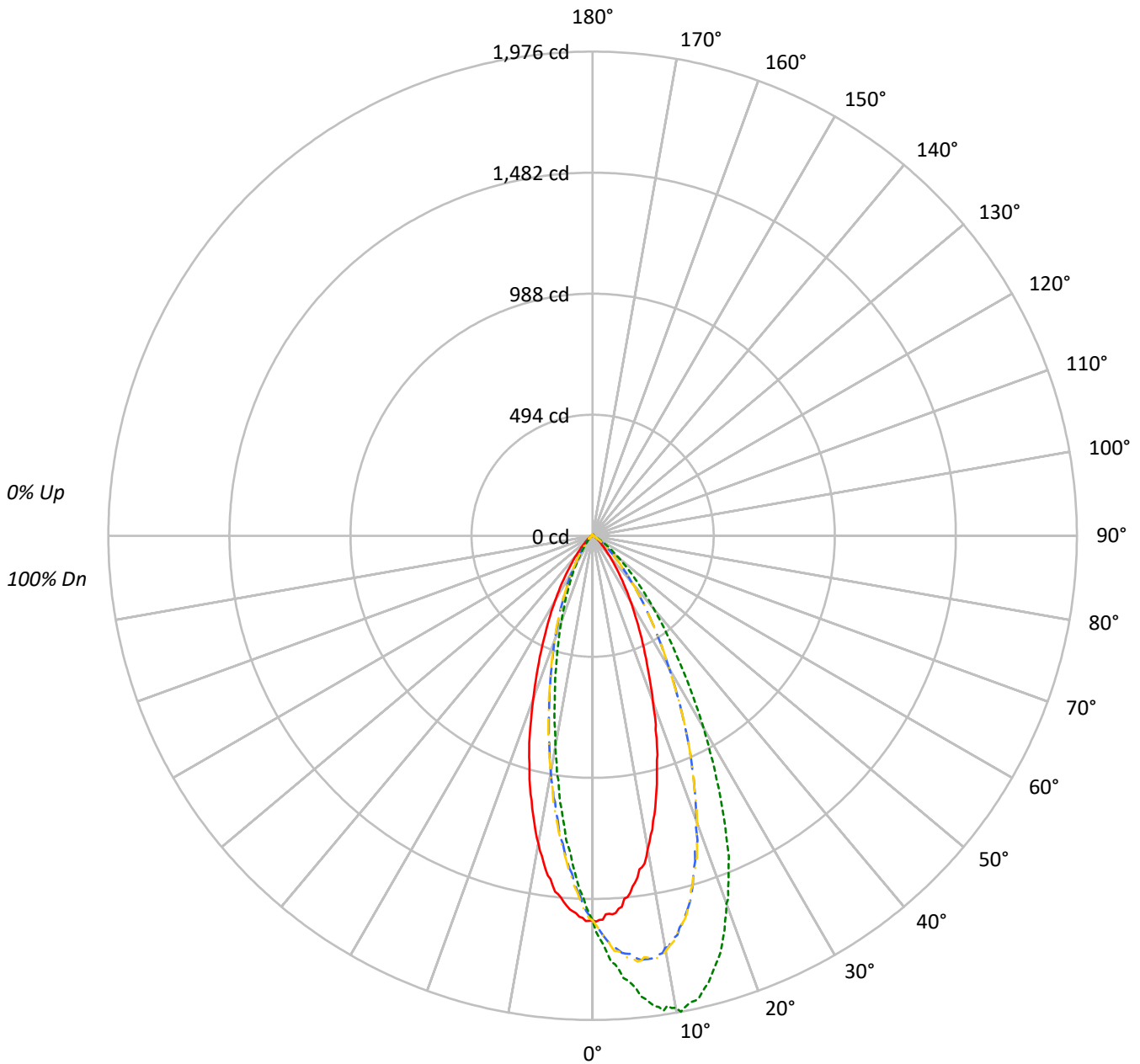
Input Watts (W): 11  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

### Luminous Intensity Polar Plot





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CATALOG NUMBER: RLS4099FSE1WHDM 4000K

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

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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°	197509	197509	197509	197509
5°	187778	232006	187298	157420
10°	165694	249934	162947	112022
15°	132087	242755	129677	76415
20°	96400	213974	95007	50276
25°	67194	175699	66167	32146
30°	45151	131383	44555	19429
35°	28653	91873	28054	11169
40°	17513	63283	17102	6834
45°	10643	42199	10412	4877
50°	7088	26588	6716	3916
55°	5244	15798	4783	3203
60°	4128	8331	3524	2643
65°	3335	5569	2710	2114
70°	2796	4121	2134	1693
75°	2139	3306	1507	1216
80°	1305	2102	652	1377
85°	1444	289	578	1300



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	13.8
10°-20°	304.9	30.4
20°-30°	276.0	27.5
30°-40°	161.7	16.1
40°-50°	72.6	7.2
50°-60°	28.6	2.9
60°-70°	11.6	1.2
70°-80°	4.5	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°	719.8	71.8
0°-40°	881.5	87.9
0°-60°	982.7	98.0
0°-90°	999.7	99.7
90°-120°	0.0	0.0
90°-150°	0.9	0.1
90°-180°	3.0	0.3
0°-180°	1003.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1569	1569	1569	1569	1569	
5°	1486	1836	1483	1246	1486	136
15°	1014	1863	995	586	1014	278
25°	484	1265	476	232	484	223
35°	186	598	183	73	186	119
45°	60	237	58	27	60	49
55°	24	72	22	15	24	22
65°	11	19	9	7	11	11
75°	4	7	3	2	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: P571720

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
0.5°	1575.0	1587.0	1590.1	1596.1	1616.4	1587.2	1588.4	1573.1	1570.9	1559.4	1548.8
1°	1568.6	1590.8	1610.0	1623.9	1643.5	1612.1	1610.0	1578.9	1572.8	1542.0	1530.3
1.5°	1567.7	1605.2	1630.8	1645.1	1669.1	1638.1	1631.9	1593.0	1559.4	1524.4	1505.9
2°	1545.9	1601.7	1651.4	1671.6	1703.1	1666.4	1644.6	1598.0	1555.3	1516.0	1469.9
2.5°	1544.5	1596.4	1668.3	1707.8	1739.6	1699.1	1674.1	1604.4	1542.4	1495.7	1448.3
3°	1546.6	1607.4	1680.7	1724.0	1751.9	1721.5	1696.2	1611.8	1534.6	1483.3	1420.4
3.5°	1542.0	1614.0	1692.2	1742.9	1775.8	1734.4	1698.2	1603.4	1527.8	1445.7	1381.0
4°	1525.8	1619.9	1706.3	1752.0	1809.5	1755.9	1709.0	1606.7	1513.3	1423.6	1360.3
4.5°	1518.7	1615.7	1710.6	1788.0	1820.3	1776.9	1720.1	1612.4	1498.6	1408.7	1331.4
5°	1486.4	1610.6	1712.8	1801.3	1836.5	1787.4	1738.4	1609.9	1482.6	1378.6	1299.6
5.5°	1481.6	1602.7	1713.5	1814.1	1856.4	1799.3	1735.1	1595.0	1469.2	1348.1	1262.5
6°	1465.1	1596.7	1734.8	1819.3	1890.3	1828.2	1747.3	1586.1	1460.8	1326.2	1241.4
6.5°	1439.5	1596.0	1742.5	1834.7	1902.0	1843.2	1745.0	1574.9	1436.8	1299.4	1211.9
7°	1426.0	1583.6	1741.3	1837.6	1919.5	1855.8	1732.6	1572.0	1410.9	1270.8	1168.4
7.5°	1406.0	1572.3	1742.1	1855.7	1936.1	1861.4	1737.3	1563.1	1398.5	1241.1	1139.6
8°	1374.2	1551.4	1741.9	1846.2	1941.8	1862.5	1739.9	1544.6	1375.3	1223.5	1097.5
8.5°	1367.3	1537.4	1733.3	1856.4	1959.5	1871.9	1744.2	1530.8	1350.4	1195.2	1078.2
9°	1355.2	1519.8	1730.3	1861.5	1943.0	1871.1	1741.1	1513.9	1322.4	1165.9	1036.5
9.5°	1327.6	1510.2	1726.4	1861.4	1954.5	1870.8	1735.2	1495.7	1304.3	1136.1	1014.3
10°	1296.6	1484.7	1707.1	1859.0	1955.8	1860.8	1722.1	1485.6	1275.1	1103.7	981.9
10.5°	1273.3	1474.1	1707.0	1848.1	1975.6	1864.5	1705.2	1468.7	1252.9	1070.1	947.8
11°	1243.4	1465.9	1682.9	1844.4	1962.4	1872.1	1695.2	1444.3	1224.9	1047.9	916.9
11.5°	1224.2	1441.9	1672.7	1838.0	1952.3	1855.6	1683.3	1421.7	1195.3	1018.7	885.0
12°	1188.0	1418.7	1665.7	1817.7	1944.7	1831.3	1660.7	1394.5	1166.9	986.1	853.9
12.5°	1164.5	1382.2	1637.4	1820.1	1943.0	1838.0	1637.2	1374.2	1138.5	956.9	825.3
13°	1137.0	1365.7	1625.3	1792.2	1934.7	1810.3	1623.5	1350.3	1108.8	922.8	793.2
13.5°	1106.3	1342.6	1602.3	1797.9	1915.1	1799.5	1610.4	1317.4	1084.8	893.6	764.1
14°	1075.4	1311.4	1583.4	1763.7	1899.4	1793.9	1590.4	1299.5	1055.2	870.8	733.8
14.5°	1047.2	1291.0	1562.5	1754.4	1884.9	1769.4	1561.1	1273.7	1027.9	843.5	707.7
15°	1013.8	1262.2	1541.2	1711.6	1863.2	1750.8	1535.6	1244.6	995.3	811.0	679.8
15.5°	981.1	1233.5	1512.3	1699.5	1841.9	1720.8	1500.2	1216.0	965.1	783.8	654.0
16°	952.3	1206.2	1482.8	1678.5	1821.1	1699.4	1483.2	1183.9	939.9	753.8	627.1
16.5°	932.1	1186.3	1446.9	1652.4	1801.2	1677.4	1445.3	1154.5	911.3	725.5	605.5
17°	895.9	1145.2	1414.9	1627.7	1781.9	1652.3	1427.4	1130.4	883.7	699.1	582.4
17.5°	867.1	1115.7	1393.0	1603.7	1753.9	1631.6	1398.4	1102.5	853.6	668.8	555.0
18°	832.6	1085.9	1349.0	1582.9	1722.8	1599.2	1379.2	1071.1	823.2	642.3	530.2
18.5°	812.7	1054.8	1335.3	1551.2	1696.0	1570.0	1341.7	1039.1	793.0	617.9	510.4
19°	781.2	1022.2	1314.8	1520.8	1661.6	1543.0	1304.5	1011.9	765.1	595.9	490.6
19.5°	746.7	992.3	1262.1	1483.8	1632.8	1516.5	1270.3	980.2	734.8	574.8	472.0
20°	719.8	958.4	1233.9	1455.6	1597.7	1477.2	1247.7	951.8	709.4	549.1	452.8
20.5°	694.4	932.5	1207.1	1425.9	1581.2	1446.9	1212.9	921.8	682.8	525.2	431.6
21°	669.0	898.5	1173.7	1389.0	1541.9	1415.0	1183.0	888.1	657.8	502.7	411.2



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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°	591.8	806.7	1078.2	1292.2	1450.6	1319.9	1075.6	798.0	583.5	442.6	360.1
23°	568.5	779.9	1042.4	1257.7	1423.1	1282.4	1043.2	766.8	562.1	427.1	345.9
23.5°	546.8	750.7	1013.6	1228.1	1381.5	1241.2	1014.8	740.3	540.1	408.7	328.0
24°	524.5	721.3	981.8	1190.5	1339.8	1209.2	982.0	715.9	517.4	390.9	311.5
24.5°	504.4	692.3	949.8	1158.7	1307.0	1187.1	949.7	687.2	495.5	374.3	295.3
25°	483.9	664.8	916.0	1122.1	1265.3	1145.6	921.1	661.8	476.5	359.0	280.7
25.5°	466.6	640.0	884.0	1087.4	1228.2	1105.2	888.5	631.0	455.4	340.5	267.7
26°	442.1	618.1	854.4	1057.9	1190.7	1065.0	856.0	610.6	438.1	322.2	255.5
26.5°	426.2	591.1	825.5	1014.5	1154.4	1031.8	824.1	585.8	418.9	310.0	242.8
27°	407.2	568.9	792.2	982.5	1113.5	999.2	793.6	561.8	402.2	296.2	230.8
27.5°	389.3	547.4	769.2	951.6	1079.7	966.3	763.0	537.8	386.7	281.9	218.9
28°	372.4	526.0	731.5	918.5	1046.4	936.2	733.9	515.6	368.9	266.4	207.2
28.5°	356.5	507.3	705.5	884.4	1004.6	908.2	704.7	494.2	352.3	252.8	195.6
29°	341.6	482.8	679.0	851.5	974.0	875.3	675.8	476.0	336.3	240.4	186.2
29.5°	327.8	460.6	651.2	819.6	937.7	835.8	649.5	457.6	320.9	230.7	175.9
30°	310.7	443.9	622.8	786.5	904.1	807.0	625.1	437.4	306.6	219.7	166.0
30.5°	296.0	424.2	596.3	761.7	869.7	776.1	598.3	416.6	291.1	207.4	157.2
31°	283.6	405.4	574.7	728.5	840.2	746.3	576.0	401.3	277.3	196.0	149.6
31.5°	269.8	387.9	553.0	699.2	805.8	715.6	557.7	384.4	264.1	185.6	141.1
32°	254.9	370.7	532.3	670.1	773.1	689.4	533.4	368.3	251.1	175.1	133.2
32.5°	243.1	354.2	508.7	645.5	742.6	662.5	512.8	352.1	239.2	165.1	125.5
33°	230.0	337.7	485.9	617.2	712.8	637.7	489.8	335.5	226.0	154.6	118.1
33.5°	219.5	321.7	466.8	592.5	682.4	610.3	470.2	318.0	213.7	145.4	111.7
34°	208.0	307.9	449.2	566.9	654.5	580.9	447.8	302.8	203.0	137.6	105.7
34.5°	197.6	295.0	426.5	544.9	626.2	556.7	428.4	289.7	192.5	130.8	99.7
35°	186.5	281.1	409.7	522.2	598.0	538.1	409.8	277.1	182.6	123.1	93.7
35.5°	177.1	267.1	389.3	499.1	574.7	516.9	392.0	261.1	172.9	115.9	88.0
36°	167.9	255.0	371.9	480.6	552.7	496.5	376.4	249.4	164.2	109.6	82.6
36.5°	158.8	243.1	357.2	460.0	529.0	475.2	359.3	238.1	154.8	103.3	77.9
37°	149.4	230.4	340.7	440.0	505.1	451.6	342.4	226.2	147.0	97.5	73.6
37.5°	141.5	218.8	324.7	420.1	484.2	431.4	325.4	215.2	138.8	91.7	69.0
38°	133.3	207.9	308.4	401.1	464.6	412.1	309.4	203.3	130.5	86.4	65.4
38.5°	126.5	196.2	292.4	383.0	443.9	391.7	292.9	191.3	123.6	81.2	61.4
39°	120.0	186.1	278.7	365.6	422.2	373.0	279.0	181.8	116.9	76.4	58.3
39.5°	113.3	176.0	264.7	349.2	401.6	356.8	265.8	172.2	110.5	71.8	55.1
40°	106.6	166.3	251.6	332.0	385.2	339.6	251.3	162.2	104.1	67.5	52.1
40.5°	100.0	157.3	238.8	316.9	368.0	323.4	237.7	153.4	97.9	63.8	49.5
41°	94.6	148.8	227.1	300.8	350.5	307.2	225.6	146.2	92.5	60.3	46.9
41.5°	89.4	140.9	215.6	285.9	333.6	292.7	214.5	137.8	87.5	57.1	44.3
42°	84.0	132.8	204.3	272.1	319.2	279.0	202.3	129.7	82.5	54.0	42.0
42.5°	79.4	125.3	193.6	259.2	303.2	264.8	191.7	121.7	77.9	50.9	40.0
43°	75.1	118.2	182.5	246.4	287.9	251.5	181.8	115.2	73.3	48.2	38.0
43.5°	71.2	111.4	172.0	232.9	276.4	238.6	171.7	108.9	69.2	45.7	36.1



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CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	59.8	92.8	144.0	198.9	237.1	201.4	143.8	90.9	58.5	39.1	31.3
45.5°	56.6	87.2	135.7	187.8	225.4	191.4	135.1	85.5	55.3	37.1	30.0
46°	53.4	82.1	128.1	177.6	213.4	181.4	126.9	80.4	52.6	35.3	28.9
46.5°	50.9	77.5	120.9	167.9	201.8	172.0	120.1	75.6	49.7	33.9	27.9
47°	48.4	72.6	113.6	158.4	190.9	162.7	113.1	71.1	47.3	32.4	26.7
47.5°	46.2	68.3	106.5	150.0	181.0	154.0	106.4	66.9	44.5	31.0	25.7
48°	43.9	64.7	100.1	141.5	171.2	144.9	99.9	63.1	42.2	29.6	24.6
48.5°	41.8	61.3	93.6	133.2	162.5	136.7	93.4	59.7	40.1	28.4	23.8
49°	39.9	58.0	88.1	125.5	153.3	128.6	87.9	56.6	38.1	27.2	23.0
49.5°	38.0	54.8	82.7	118.7	144.6	121.7	82.9	53.6	36.1	26.1	22.3
50°	36.2	51.6	77.7	111.7	135.8	114.2	77.6	50.5	34.3	25.0	21.6
50.5°	34.7	48.7	73.1	105.0	128.3	107.1	73.1	47.9	32.6	24.0	21.0
51°	33.2	46.2	68.9	98.6	120.4	101.0	68.2	45.1	31.1	23.1	20.4
51.5°	31.8	43.9	64.9	92.3	113.4	95.2	63.9	42.7	29.7	22.2	19.6
52°	30.6	41.7	60.9	86.9	106.8	89.6	60.3	40.4	28.3	21.6	18.9
52.5°	29.2	39.5	57.4	81.6	100.3	83.7	56.9	38.2	27.1	20.6	18.3
53°	28.1	37.6	54.2	76.7	93.9	78.4	53.6	36.1	25.9	19.8	17.6
53.5°	26.9	35.9	50.9	71.8	88.2	73.3	50.6	34.1	24.8	19.3	17.2
54°	26.0	34.2	47.8	67.3	82.3	68.7	47.9	32.3	23.6	18.6	16.4
54.5°	25.0	32.6	45.2	63.1	77.3	64.4	44.8	30.7	22.7	18.0	16.0
55°	23.9	31.1	42.7	59.7	72.0	60.3	41.9	28.9	21.8	17.2	15.3
55.5°	23.0	29.7	40.6	56.3	67.0	56.1	39.0	27.2	20.8	16.7	14.9
56°	22.4	28.3	38.3	52.4	61.9	51.7	36.0	25.5	19.9	16.1	14.3
56.5°	21.4	26.8	35.5	48.1	57.0	47.4	33.4	24.0	19.0	15.3	13.9
57°	20.5	25.3	32.9	44.1	51.9	43.4	31.0	22.9	18.2	14.9	13.3
57.5°	19.9	24.0	30.7	40.5	47.1	40.2	29.1	21.8	17.3	14.2	13.0
58°	19.1	23.0	28.9	37.3	43.7	37.5	27.2	20.9	16.6	13.7	12.3
58.5°	18.4	22.2	27.5	34.8	40.4	34.8	25.8	20.0	16.1	13.1	12.0
59°	17.7	21.3	26.2	32.7	37.6	32.7	24.5	19.3	15.2	12.8	11.3
59.5°	17.0	20.3	25.0	30.8	35.1	30.8	23.2	18.3	14.6	12.2	11.0
60°	16.4	19.5	23.7	29.2	33.1	28.9	22.1	17.4	14.0	11.8	10.5
60.5°	15.8	18.8	22.7	27.5	31.0	27.3	21.1	16.8	13.4	11.2	10.0
61°	15.3	18.0	21.8	26.1	29.2	25.7	20.1	16.2	12.9	10.9	9.7
61.5°	14.6	17.3	21.0	24.6	27.5	24.3	19.1	15.2	12.3	10.3	9.3
62°	14.1	16.6	20.0	23.3	25.7	22.9	18.1	14.6	12.0	10.0	8.9
62.5°	13.6	15.9	19.1	22.4	24.2	21.9	17.4	14.0	11.3	9.7	8.7
63°	13.1	15.2	18.3	21.3	22.9	20.7	16.5	13.4	11.1	9.2	8.3
63.5°	12.6	14.7	17.5	20.2	21.9	19.6	15.8	12.8	10.4	8.8	7.9
64°	12.1	14.0	16.8	19.3	20.7	18.6	15.1	12.1	10.0	8.4	7.8
64.5°	11.6	13.6	16.1	18.5	19.7	17.8	14.4	11.9	9.5	8.0	7.2
65°	11.2	13.1	15.5	17.7	18.7	16.9	13.7	11.2	9.1	7.9	6.9
65.5°	10.8	12.6	14.8	16.9	17.8	16.2	13.3	10.9	8.9	7.5	6.8
66°	10.3	12.1	14.2	16.1	16.9	15.3	12.5	10.3	8.2	7.1	6.4





TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.1	10.8	12.6	14.1	14.5	13.3	11.0	9.0	7.2	6.2	5.7
68°	8.8	10.4	12.1	13.5	13.8	12.5	10.5	8.9	6.9	5.9	5.4
68.5°	8.6	9.9	11.6	12.8	13.2	12.2	10.0	8.1	6.8	5.8	5.0
69°	8.2	9.5	11.2	12.2	12.5	11.4	9.5	7.8	6.4	5.6	5.0
69.5°	7.9	9.1	10.7	11.8	11.9	11.1	9.2	7.5	6.0	5.2	5.0
70°	7.6	8.8	10.2	11.2	11.2	10.3	8.8	7.1	5.8	4.8	5.0
70.5°	7.3	8.5	9.8	10.8	10.7	9.9	8.3	6.9	5.7	4.8	4.1
71°	7.0	8.1	9.5	10.3	10.2	9.3	8.0	6.7	5.3	4.8	3.9
71.5°	6.7	7.8	9.0	9.9	9.7	9.0	7.7	6.1	5.0	4.1	3.8
72°	6.4	7.6	8.6	9.5	9.2	8.5	7.2	5.8	5.1	3.8	3.7
72.5°	6.0	7.3	8.3	9.0	8.9	8.1	6.9	5.8	5.1	3.7	3.0
73°	5.7	6.9	8.0	8.6	8.3	7.7	6.7	5.3	4.0	3.5	2.7
73.5°	5.4	6.6	7.6	8.2	8.0	7.3	6.1	5.1	3.8	3.1	2.6
74°	5.0	6.2	7.2	7.7	7.4	6.9	5.9	4.9	3.5	2.8	2.5
74.5°	4.6	5.8	6.8	7.4	7.0	6.5	5.6	4.9	3.5	2.5	2.0
75°	4.4	5.4	6.5	7.0	6.8	6.0	5.2	4.0	3.1	2.4	1.8
75.5°	4.1	5.2	6.1	6.6	6.1	5.7	5.0	3.7	2.8	2.0	1.8
76°	3.7	4.8	5.8	6.3	5.8	5.3	4.9	3.5	2.6	1.8	1.8
76.5°	3.4	4.4	5.4	5.8	5.5	5.0	4.1	3.3	2.4	1.6	1.7
77°	3.1	4.1	5.0	5.4	5.1	4.9	3.8	2.9	2.0	1.6	1.7
77.5°	2.8	3.8	4.6	5.1	4.9	4.6	3.7	2.7	1.7	1.6	1.7
78°	2.6	3.4	4.3	4.7	4.8	3.9	3.2	2.6	1.7	1.3	1.7
78.5°	2.4	3.1	3.9	4.4	3.9	3.7	2.9	2.0	1.6	1.1	1.6
79°	2.2	2.8	3.6	4.0	3.7	3.2	2.7	1.8	1.1	1.0	1.4
79.5°	1.9	2.5	3.2	3.6	3.3	2.8	2.2	1.6	0.9	1.0	1.1
80°	1.8	2.3	2.9	3.3	2.9	2.6	1.9	1.5	0.9	0.9	1.0
80.5°	1.6	2.0	2.5	2.9	2.5	2.1	1.7	1.1	0.7	0.9	1.0
81°	1.6	1.8	2.3	2.6	2.1	1.8	1.5	0.9	0.8	0.9	0.8
81.5°	1.6	1.6	2.0	2.3	1.8	1.5	1.2	0.7	0.7	0.7	0.8
82°	1.5	1.3	1.8	2.0	1.7	1.4	0.9	0.7	0.7	0.7	0.7
82.5°	1.4	1.2	1.5	1.7	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°	1.2	1.1	0.9	1.0	0.6	0.5	0.6	0.6	0.7	0.6	0.7
84.5°	1.1	1.0	0.9	0.8	0.5	0.3	0.5	0.5	0.6	0.6	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	0.8	0.8	0.8	0.1	0.2	0.5	0.4	0.2	0.4	0.4
86°	0.9	0.8	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	0.6	0.6	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: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**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: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**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: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**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	0.6
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	0.8
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	1.0
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	1.2
146°	0.9	0.7	0.6	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2
146.5°	0.9	0.7	0.7	0.3	0.3	0.3	0.4	0.5	0.8	1.0	1.4
147°	1.1	0.7	0.7	0.3	0.3	0.4	0.4	0.6	0.8	1.0	1.4
147.5°	1.1	0.7	0.7	0.5	0.4	0.4	0.4	0.6	0.8	1.2	1.4
148°	1.2	0.8	0.7	0.5	0.3	0.4	0.4	0.6	0.9	1.2	1.4
148.5°	1.6	0.7	0.8	0.7	0.3	0.4	0.4	0.6	0.9	1.2	1.6
149°	1.8	0.7	0.8	0.6	0.4	0.5	0.5	0.7	0.9	1.2	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°	1.7	0.9	0.7	0.7	0.5	0.5	0.6	0.7	1.1	1.4	1.8
150.5°	1.7	1.0	0.7	0.7	0.5	0.5	0.6	0.8	1.1	1.5	1.8
151°	1.8	1.1	0.7	0.7	0.5	0.5	0.6	0.8	1.1	1.5	2.0
151.5°	1.7	1.2	0.7	0.7	0.6	0.5	0.6	0.9	1.2	1.6	2.0
152°	1.8	1.5	0.7	0.7	0.5	0.5	0.7	0.9	1.2	1.6	2.0
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	2.2
153.5°	2.1	1.7	1.0	0.7	0.7	0.7	0.7	1.0	1.4	1.8	2.3
154°	2.4	1.8	1.1	0.8	0.7	0.7	0.7	1.0	1.4	1.9	2.4
154.5°	2.6	1.7	1.3	0.9	0.8	0.7	0.9	1.0	1.6	2.0	2.5
155°	2.6	1.7	1.5	0.9	0.9	0.8	0.9	1.2	1.6	2.0	2.5
155.5°	2.6	1.8	1.6	1.0	0.9	0.8	0.9	1.2	1.6	2.2	2.5
156°	2.7	1.9	1.7	1.1	0.9	0.9	1.0	1.2	1.6	2.2	2.7



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
0.5°	1536.9	1543.0	1534.6	1561.2	1557.0	1575.0
1°	1511.3	1513.2	1500.5	1541.5	1546.1	1568.6
1.5°	1476.8	1472.8	1470.4	1516.6	1532.6	1567.7
2°	1450.9	1448.7	1439.5	1484.0	1512.4	1545.9
2.5°	1403.6	1415.6	1405.5	1454.6	1499.4	1544.5
3°	1377.4	1377.2	1372.4	1430.9	1468.4	1546.6
3.5°	1342.7	1342.8	1343.7	1396.6	1442.4	1542.0
4°	1312.5	1297.1	1309.1	1373.7	1420.2	1525.8
4.5°	1277.8	1271.9	1272.8	1338.1	1399.7	1518.7
5°	1249.5	1246.1	1238.8	1308.8	1381.5	1486.4
5.5°	1215.2	1194.1	1204.8	1280.4	1355.3	1481.6
6°	1181.3	1161.0	1173.9	1250.0	1326.2	1465.1
6.5°	1143.4	1120.7	1131.9	1218.6	1306.7	1439.5
7°	1106.1	1093.8	1096.9	1182.6	1285.8	1426.0
7.5°	1073.7	1050.0	1061.2	1151.7	1249.6	1406.0
8°	1034.2	1004.0	1027.5	1120.9	1221.9	1374.2
8.5°	1006.1	984.6	998.1	1092.4	1198.9	1367.3
9°	970.9	938.7	967.3	1045.4	1170.0	1355.2
9.5°	933.4	909.7	934.2	1017.7	1133.3	1327.6
10°	903.1	876.6	895.5	987.0	1111.0	1296.6
10.5°	872.7	835.9	863.6	951.0	1077.9	1273.3
11°	840.2	805.6	828.4	924.5	1045.6	1243.4
11.5°	807.8	779.1	796.5	895.2	1022.0	1224.2
12°	775.4	750.2	770.2	859.9	987.0	1188.0
12.5°	746.9	720.3	739.7	833.5	959.7	1164.5
13°	717.0	688.0	708.6	801.9	930.0	1137.0
13.5°	686.6	661.4	683.1	774.0	899.5	1106.3
14°	662.2	634.8	653.7	741.2	861.7	1075.4
14.5°	634.6	612.2	623.6	714.9	840.6	1047.2
15°	610.4	586.5	606.7	691.5	808.4	1013.8
15.5°	583.7	558.7	576.4	657.8	776.4	981.1
16°	555.5	537.6	556.8	633.4	750.6	952.3
16.5°	533.0	513.8	531.9	610.7	728.3	932.1
17°	511.4	495.1	509.2	582.8	702.0	895.9
17.5°	493.9	471.1	485.7	563.5	675.8	867.1
18°	471.3	449.0	464.4	539.2	647.6	832.6
18.5°	449.9	430.8	446.8	517.3	622.9	812.7
19°	429.7	408.5	430.1	497.6	597.9	781.2
19.5°	412.4	392.6	409.7	472.5	573.4	746.7
20°	395.8	375.4	388.7	454.7	552.9	719.8
20.5°	377.7	355.8	371.1	434.4	529.3	694.4
21°	361.6	340.8	354.9	417.8	505.3	669.0



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	311.7	296.3	308.7	360.1	445.3	591.8
23°	297.7	282.5	290.9	343.6	429.1	568.5
23.5°	284.2	271.2	276.1	327.9	412.0	546.8
24°	270.3	255.9	264.0	310.7	392.9	524.5
24.5°	256.2	243.4	251.7	297.9	376.2	504.4
25°	243.5	231.5	238.5	284.8	360.0	483.9
25.5°	232.8	219.3	229.1	268.7	343.6	466.6
26°	219.2	208.4	216.2	257.2	325.8	442.1
26.5°	208.3	196.5	205.3	245.4	310.4	426.2
27°	197.8	186.2	195.2	229.3	296.8	407.2
27.5°	188.1	176.5	184.8	219.9	282.3	389.3
28°	178.2	166.1	175.8	209.6	270.2	372.4
28.5°	168.7	158.6	167.4	198.4	255.8	356.5
29°	159.5	149.9	158.6	187.3	243.0	341.6
29.5°	151.5	140.8	149.2	176.9	230.9	327.8
30°	142.6	133.7	141.5	168.2	218.8	310.7
30.5°	135.0	126.2	133.7	158.3	207.9	296.0
31°	127.8	118.6	125.7	148.8	197.3	283.6
31.5°	119.9	111.6	118.5	141.9	185.2	269.8
32°	113.4	105.2	111.8	134.6	175.0	254.9
32.5°	107.8	98.9	105.7	126.6	166.4	243.1
33°	101.3	93.0	99.2	120.0	157.4	230.0
33.5°	95.1	87.4	93.2	112.9	148.9	219.5
34°	89.7	82.7	87.7	106.3	140.4	208.0
34.5°	84.8	77.2	82.8	100.2	132.0	197.6
35°	79.4	72.7	77.8	93.5	124.3	186.5
35.5°	74.8	68.3	73.1	87.8	117.1	177.1
36°	70.1	64.6	68.9	83.4	110.6	167.9
36.5°	65.7	60.9	65.1	78.6	104.1	158.8
37°	62.0	57.5	61.4	74.1	98.1	149.4
37.5°	58.6	54.2	58.0	69.8	92.4	141.5
38°	55.5	51.2	54.7	65.8	87.2	133.3
38.5°	52.2	48.4	51.5	62.3	82.4	126.5
39°	49.4	45.9	48.6	59.0	77.8	120.0
39.5°	46.8	43.6	46.0	55.8	73.2	113.3
40°	44.5	41.6	43.7	52.4	69.3	106.6
40.5°	41.9	39.8	41.7	49.3	65.5	100.0
41°	40.0	37.8	39.7	46.8	61.9	94.6
41.5°	38.0	36.1	37.9	44.5	58.6	89.4
42°	36.2	34.6	36.2	41.8	55.3	84.0
42.5°	34.5	33.3	34.7	40.0	52.3	79.4
43°	32.9	32.0	33.3	38.5	49.5	75.1
43.5°	31.5	30.8	32.0	36.7	47.3	71.2





TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	27.8	27.4	28.6	32.5	41.0	59.8
45.5°	26.8	26.4	27.6	31.2	39.0	56.6
46°	25.7	25.6	26.6	30.1	37.5	53.4
46.5°	24.8	24.6	25.7	29.1	35.8	50.9
47°	23.9	23.8	24.8	28.1	34.2	48.4
47.5°	23.1	23.2	24.1	27.1	32.8	46.2
48°	22.4	22.6	23.3	26.2	31.7	43.9
48.5°	21.6	21.9	22.8	25.4	30.5	41.8
49°	21.1	21.2	22.1	24.6	29.4	39.9
49.5°	20.3	20.6	21.4	23.6	28.2	38.0
50°	19.7	20.0	20.8	23.0	27.2	36.2
50.5°	19.2	19.5	20.2	22.4	26.3	34.7
51°	18.5	18.9	19.6	21.8	25.3	33.2
51.5°	17.9	18.3	19.1	21.1	24.5	31.8
52°	17.3	17.8	18.5	20.5	23.5	30.6
52.5°	16.9	17.2	18.0	19.9	22.8	29.2
53°	16.2	16.7	17.5	19.4	22.3	28.1
53.5°	15.7	16.2	16.9	18.8	21.5	26.9
54°	15.2	15.6	16.3	18.2	20.8	26.0
54.5°	14.8	15.1	15.8	17.6	20.1	25.0
55°	14.2	14.6	15.4	17.0	19.5	23.9
55.5°	14.0	14.1	14.9	16.5	18.9	23.0
56°	13.4	13.8	14.4	16.0	18.4	22.4
56.5°	13.0	13.3	14.0	15.5	17.8	21.4
57°	12.4	12.9	13.6	15.1	17.2	20.5
57.5°	12.0	12.5	13.2	14.5	16.5	19.9
58°	11.5	12.0	12.7	14.0	16.0	19.1
58.5°	11.1	11.6	12.3	13.5	15.5	18.4
59°	10.7	11.3	11.9	13.1	14.9	17.7
59.5°	10.2	10.9	11.6	12.6	14.4	17.0
60°	9.8	10.5	11.2	12.2	13.9	16.4
60.5°	9.5	10.1	10.8	11.8	13.4	15.8
61°	9.1	9.8	10.4	11.4	12.9	15.3
61.5°	8.9	9.4	10.0	11.0	12.6	14.6
62°	8.4	9.0	9.7	10.7	12.1	14.1
62.5°	8.0	8.7	9.3	10.3	11.7	13.6
63°	7.7	8.3	8.9	10.0	11.2	13.1
63.5°	7.4	8.0	8.6	9.7	10.8	12.6
64°	7.0	7.6	8.2	9.2	10.4	12.1
64.5°	6.8	7.4	7.9	8.8	10.1	11.6
65°	6.6	7.1	7.6	8.5	9.8	11.2
65.5°	6.2	6.8	7.2	8.1	9.5	10.8
66°	5.9	6.6	7.0	7.9	9.0	10.3



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	5.1	5.9	6.2	6.9	8.1	9.1
68°	4.9	5.6	5.9	6.6	7.7	8.8
68.5°	4.9	5.4	5.7	6.5	7.5	8.6
69°	4.9	5.3	5.5	6.1	7.1	8.2
69.5°	4.5	4.9	5.3	5.9	6.8	7.9
70°	3.9	4.6	4.9	5.5	6.5	7.6
70.5°	3.7	4.3	4.7	5.4	6.2	7.3
71°	3.7	3.9	4.4	5.1	5.8	7.0
71.5°	3.1	3.6	4.0	4.7	5.6	6.7
72°	2.8	3.4	3.7	4.5	5.3	6.4
72.5°	2.5	3.2	3.4	4.1	5.0	6.0
73°	2.6	2.9	3.2	3.8	4.6	5.7
73.5°	2.1	2.9	3.0	3.5	4.4	5.4
74°	2.0	2.7	2.8	3.3	4.1	5.0
74.5°	1.9	2.7	2.7	3.1	3.7	4.6
75°	1.8	2.5	2.6	2.8	3.5	4.4
75.5°	1.7	2.5	2.6	2.6	3.1	4.1
76°	1.7	2.5	2.6	2.5	2.9	3.7
76.5°	1.7	2.4	2.5	2.3	2.7	3.4
77°	1.7	2.3	2.4	2.3	2.5	3.1
77.5°	1.7	2.3	2.3	2.3	2.3	2.8
78°	1.7	2.2	2.3	2.2	2.1	2.6
78.5°	1.7	2.1	2.2	2.1	2.0	2.4
79°	1.5	2.1	2.0	2.0	2.0	2.2
79.5°	1.2	1.9	2.0	2.0	1.8	1.9
80°	1.0	1.9	1.9	1.9	1.8	1.8
80.5°	1.0	1.7	1.7	1.8	1.8	1.6
81°	0.9	1.7	1.7	1.8	1.7	1.6
81.5°	0.8	1.6	1.6	1.7	1.7	1.6
82°	0.7	1.5	1.5	1.6	1.6	1.5
82.5°	0.7	1.5	1.5	1.5	1.4	1.4
83°	0.7	1.4	1.4	1.5	1.4	1.3
83.5°	0.7	1.2	1.3	1.3	1.3	1.3
84°	0.7	1.1	1.1	1.3	1.2	1.2
84.5°	0.6	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.9	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: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**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: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**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	0.7	0.8	0.3	0.0	0.0
133°	0.4	0.7	0.8	0.4	0.1	0.0
133.5°	0.5	0.7	0.8	0.5	0.1	0.0



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.6	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	1.3	1.1	0.9	0.7	0.2
139°	0.8	1.7	1.3	0.8	0.7	0.3
139.5°	0.8	1.7	1.5	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	1.7	1.1	0.7	0.6
141°	1.0	1.7	1.7	1.1	0.7	0.7
141.5°	1.0	1.7	1.7	1.1	0.7	0.7
142°	1.2	1.7	1.7	1.4	0.8	0.7
142.5°	1.2	1.9	1.8	1.7	0.9	0.7
143°	1.2	1.9	1.8	1.7	0.9	0.7
143.5°	1.2	2.1	1.9	1.7	1.0	0.7
144°	1.4	2.3	2.0	1.7	1.0	0.7
144.5°	1.4	2.6	2.2	1.7	1.2	0.7
145°	1.4	2.6	2.5	1.7	1.4	0.7
145.5°	1.5	2.7	2.6	1.8	1.6	0.8
146°	1.6	2.7	2.6	2.0	1.6	0.9
146.5°	1.6	2.7	2.6	2.1	1.6	0.9
147°	1.7	2.7	2.6	2.2	1.6	1.1
147.5°	1.8	2.9	2.6	2.5	1.6	1.1
148°	1.9	2.9	2.8	2.6	1.8	1.2
148.5°	1.9	3.1	3.0	2.7	1.8	1.6
149°	2.0	3.1	3.0	2.8	2.0	1.8
149.5°	2.1	3.4	3.0	2.8	2.0	1.8
150°	2.1	3.7	3.2	2.8	2.1	1.7
150.5°	2.2	3.7	3.4	2.9	2.4	1.7
151°	2.3	3.7	3.8	3.0	2.8	1.8
151.5°	2.3	3.7	3.8	3.1	2.8	1.7
152°	2.4	3.7	3.7	3.2	2.8	1.8
152.5°	2.5	3.8	3.8	3.3	2.8	2.0
153°	2.5	3.9	3.8	3.5	2.8	2.0
153.5°	2.6	4.0	3.9	3.7	2.8	2.1
154°	2.7	4.0	4.0	3.7	2.8	2.4
154.5°	2.9	4.2	4.0	3.7	3.0	2.6
155°	2.8	4.3	4.1	3.7	3.1	2.6
155.5°	3.0	4.7	4.2	3.8	3.2	2.6
156°	3.1	5.1	4.4	3.9	3.5	2.7



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	3.3	5.1	5.1	4.1	3.7	2.8
158°	3.4	5.1	5.1	4.6	3.7	3.0
158.5°	3.5	5.1	5.0	5.0	3.7	3.1
159°	3.6	5.1	5.0	5.1	3.9	3.2
159.5°	3.7	5.1	5.0	5.1	3.9	3.3
160°	3.8	5.1	5.0	5.1	3.9	3.6
160.5°	3.9	5.1	5.0	5.1	4.0	3.7
161°	4.1	5.1	5.0	5.1	4.2	3.7
161.5°	4.2	5.1	5.0	5.1	4.7	3.7
162°	4.3	5.1	5.0	5.1	5.1	3.7
162.5°	4.4	5.1	5.0	5.1	5.1	3.7
163°	4.5	5.1	5.0	5.1	5.0	3.9
163.5°	4.5	5.1	5.0	5.1	5.0	3.9
164°	4.7	5.1	5.0	5.1	5.0	3.9
164.5°	4.7	5.1	5.0	5.1	5.0	4.1
165°	4.7	5.1	5.0	5.1	5.0	4.3
165.5°	4.9	5.1	5.0	5.1	5.0	4.8
166°	5.0	5.1	5.0	5.1	5.0	5.1
166.5°	5.1	5.1	5.0	5.2	5.0	5.1
167°	5.1	5.1	5.1	5.2	5.0	5.1
167.5°	5.0	5.1	5.1	5.2	5.0	5.1
168°	5.0	5.1	5.1	5.2	5.0	5.1
168.5°	5.0	5.1	5.1	5.2	5.0	5.1
169°	5.0	5.1	5.1	5.2	5.0	5.1
169.5°	5.0	5.1	5.1	5.2	5.0	5.1
170°	5.0	5.1	5.1	5.2	5.0	5.1
170.5°	5.0	5.1	5.1	5.2	5.0	5.1
171°	5.0	5.1	5.1	5.2	5.0	5.1
171.5°	5.0	5.1	5.1	5.2	5.0	5.1
172°	5.0	5.1	5.1	5.2	5.0	5.1
172.5°	5.0	5.1	5.1	5.2	5.0	5.1
173°	5.0	5.1	5.1	5.2	5.0	5.1
173.5°	5.0	5.0	5.1	5.2	5.0	5.1
174°	5.0	4.9	5.1	5.2	5.0	5.1
174.5°	5.0	4.8	5.1	5.2	5.0	5.1
175°	5.0	4.8	5.1	5.2	5.0	5.1
175.5°	5.0	4.6	4.9	5.2	5.0	5.1
176°	5.0	4.6	4.8	5.2	5.0	5.1
176.5°	5.0	4.5	4.8	5.1	5.0	5.1
177°	5.0	4.3	4.6	4.9	5.0	5.2
177.5°	5.0	4.4	4.5	4.9	4.9	5.1
178°	5.0	4.4	4.4	4.7	4.9	4.9
178.5°	5.0	4.2	4.3	4.5	4.7	4.8



TEST NUMBER: P571720

CATALOG NUMBER: RLS4099FSE1WHDM 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	4.8	4.8	4.8	4.8	4.8	4.8



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







21.5°	642.1	872.6	1146.0	1360.3	1513.8	1380.6	1143.2	864.3	630.4	484.3	392.5
22°	615.8	837.7	1108.6	1325.6	1481.5	1354.2	1109.0	829.3	608.5	463.0	375.2



44°	67.4	105.0	162.5	220.7	261.7	226.1	162.2	102.5	65.1	43.3	34.4
44.5°	63.4	98.9	153.1	209.6	246.6	213.5	152.8	96.9	61.7	41.2	32.8



66.5°	9.9	11.7	13.7	15.3	16.0	14.6	12.1	9.9	7.9	6.9	6.1
67°	9.5	11.3	13.1	14.8	15.4	14.0	11.5	9.4	7.8	6.7	5.8



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°	2.7	2.0	1.7	1.3	0.9	0.9	1.0	1.2	1.8	2.2	2.8
157°	2.7	2.2	1.6	1.6	1.0	1.1	1.1	1.3	1.8	2.3	2.9



179°	4.8	5.0	5.0	4.1	4.1	4.0	4.1	4.4	4.6	4.8	5.0
179.5°	4.8	4.9	5.1	4.2	4.1	4.0	4.2	4.4	4.7	4.8	5.1





21.5°	341.4	325.0	339.3	398.7	489.1	642.1
22°	326.7	310.4	324.5	378.9	467.9	615.8



44°	30.4	29.7	30.8	35.1	44.9	67.4
44.5°	29.1	28.5	29.7	33.8	42.7	63.4



66.5°	5.7	6.3	6.7	7.5	8.8	9.9
67°	5.3	6.0	6.5	7.2	8.5	9.5





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



156.5°	3.2	5.1	4.8	3.9	3.7	2.7
157°	3.2	5.1	5.0	4.1	3.7	2.7



179°	5.0	4.2	4.2	4.5	4.7	4.8
179.5°	5.0	4.2	4.2	4.5	4.6	4.8



(END OF REPORT)