

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P1590459

Luminaire Tested: HCDLS1525CSD4TRC-LO-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2603928A002)
Test Lab: INNOVATION CENTER
Issue Date: 9/4/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HCDLS1525CSD4TRC-LO-3500K
Description: 4" Selectable Round Trim + Specular Clear 1500 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

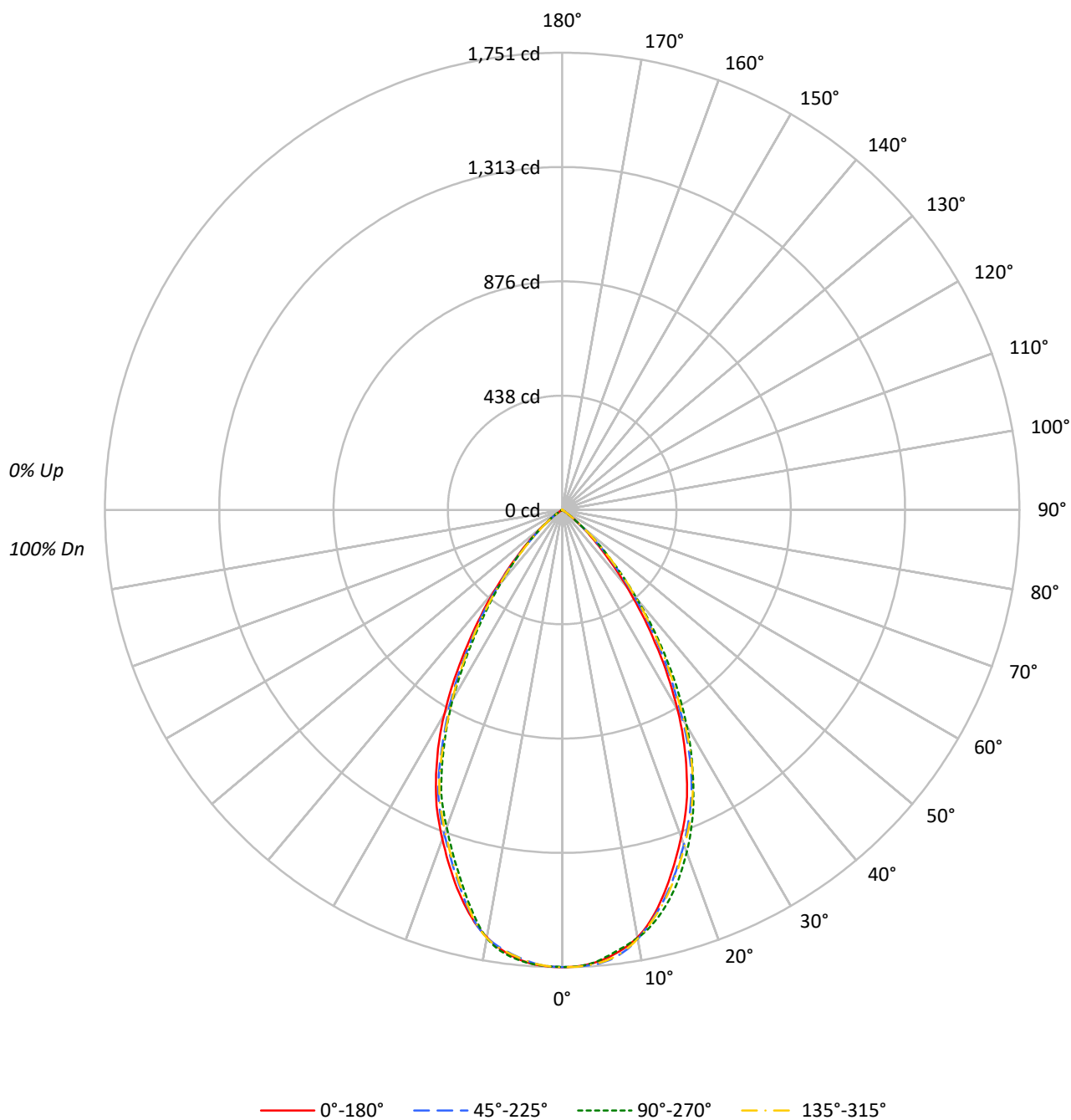
Lumens per Lamp: N/A
Luminaire Lumens: 1711.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	106	111	108	106	104	104	102	101		100	99	98		97
2	107	102	98	95	105	101	97	94	97	94	91		94	92	90		92
3	102	95	90	86	100	94	89	85	91	87	84		88	85	82		86
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81
5	91	82	76	72	89	81	76	71	79	74	71		78	73	70		76
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		72
7	82	72	66	61	80	71	65	61	70	65	61		69	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	73	63	57	53	72	63	57	53	62	56	53		61	56	53		60
10	70	60	54	50	69	59	53	50	58	53	49		58	53	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	215929	215929	215929	215929
5°	214314	213856	214562	214847
10°	208163	208438	208125	208401
15°	193512	198952	194176	189170
20°	175011	183058	176140	169813
25°	153803	161887	155654	148250
30°	125849	135947	128569	119212
35°	93433	105193	95421	86627
40°	62329	72409	64825	58513
45°	36562	43853	38673	35742
50°	17884	20513	19170	18383
55°	5828	6193	6215	6301
60°	1357	1505	1406	1554
65°	671	759	700	788
70°	397	469	397	469
75°	238	286	238	286
80°	71	142	142	142
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 43853 cd/sqm

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	9.5
10°-20°	423.9	24.8
20°-30°	517.9	30.3
30°-40°	394.6	23.0
40°-50°	175.9	10.3
50°-60°	31.9	1.9
60°-70°	2.8	0.2
70°-80°	0.6	0.0
80°-90°	0.0	0.0
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°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	1105.1	64.6
0°-40°	1499.7	87.6
0°-60°	1707.4	99.7
0°-90°	1710.9	99.9
90°-120°	0.0	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.1
0°-180°	1711.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1751	1751	1751	1751	1751	
5°	1731	1727	1733	1735	1731	163
15°	1515	1558	1521	1481	1515	423
25°	1130	1190	1144	1089	1130	514
35°	620	699	634	575	620	388
45°	210	251	222	205	210	167
55°	27	29	29	29	27	30
65°	2	3	2	3	2	3
75°	0	1	0	1	0	1
85°	0	0	0	0	0	0
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	0	0	0
145°	0	0	0	0	0	0
155°	0	1	1	0	0	0
165°	0	1	1	0	0	0
175°	0	1	1	0	0	0
180°	1	1	1	1	1	

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6
0.5°	1750.9	1750.3	1750.4	1750.9	1750.3	1750.4	1751.2	1750.9	1750.9	1750.3	1750.3
1°	1750.1	1750.1	1750.4	1750.9	1750.3	1750.4	1750.8	1750.8	1750.3	1749.7	1749.7
1.5°	1749.2	1749.5	1750.1	1750.3	1749.7	1750.1	1750.3	1750.1	1749.7	1748.8	1748.8
2°	1748.0	1748.6	1749.7	1749.5	1748.6	1749.1	1749.7	1749.5	1748.4	1747.1	1747.4
2.5°	1746.4	1748.0	1748.9	1748.1	1747.1	1747.5	1749.1	1748.6	1746.9	1745.2	1745.5
3°	1744.8	1747.1	1747.8	1746.3	1744.8	1745.7	1747.5	1747.5	1745.2	1742.6	1742.9
3.5°	1742.0	1746.0	1746.6	1744.0	1741.7	1743.2	1745.8	1746.0	1743.2	1739.4	1739.7
4°	1738.9	1744.4	1745.4	1740.9	1737.5	1739.8	1744.1	1744.4	1740.3	1735.4	1735.8
4.5°	1735.1	1742.3	1743.4	1737.1	1732.6	1735.7	1741.5	1742.3	1737.1	1730.8	1731.5
5°	1730.9	1739.7	1740.3	1732.3	1727.2	1730.6	1738.3	1739.8	1732.9	1725.7	1726.8
5.5°	1726.2	1736.1	1736.9	1727.4	1721.4	1725.4	1734.5	1736.5	1728.6	1720.2	1721.8
6°	1721.2	1731.8	1732.8	1721.7	1715.2	1719.5	1730.2	1732.5	1723.4	1714.5	1716.5
6.5°	1715.5	1726.9	1728.0	1716.0	1708.9	1713.5	1725.1	1727.7	1717.5	1708.6	1711.1
7°	1709.5	1720.9	1722.0	1709.9	1702.8	1707.4	1719.2	1722.0	1711.2	1702.3	1705.6
7.5°	1702.9	1714.2	1715.2	1703.2	1696.6	1700.8	1712.8	1715.4	1704.9	1696.0	1699.6
8°	1696.3	1706.8	1707.6	1696.0	1690.3	1694.0	1705.4	1707.6	1697.4	1689.6	1693.4
8.5°	1688.6	1698.3	1699.1	1688.5	1684.0	1687.4	1697.1	1699.4	1689.4	1682.3	1686.6
9°	1680.5	1688.9	1689.6	1680.6	1677.6	1679.9	1687.9	1689.9	1681.0	1675.0	1679.3
9.5°	1671.4	1678.6	1679.4	1672.2	1671.1	1672.0	1678.2	1679.4	1672.0	1666.8	1671.3
10°	1662.0	1667.7	1668.3	1663.1	1664.2	1663.6	1667.6	1668.3	1661.7	1658.2	1662.2
10.5°	1651.6	1655.9	1656.5	1653.4	1656.7	1655.0	1656.5	1656.2	1650.8	1647.9	1651.4
11°	1639.9	1643.4	1644.1	1643.1	1648.4	1645.4	1644.7	1644.1	1639.4	1637.1	1639.6
11.5°	1627.1	1629.9	1631.5	1632.4	1639.4	1635.6	1632.5	1631.1	1627.1	1625.1	1626.4
12°	1612.8	1615.9	1618.2	1620.4	1630.1	1625.0	1620.2	1617.8	1614.1	1611.2	1611.0
12.5°	1598.1	1601.5	1604.1	1608.9	1619.3	1613.3	1607.3	1603.9	1599.3	1596.1	1593.8
13°	1582.6	1586.9	1590.3	1596.2	1608.5	1601.8	1593.9	1589.2	1585.3	1580.4	1577.0
13.5°	1566.4	1571.3	1576.0	1583.6	1596.7	1589.9	1580.3	1574.9	1569.8	1563.8	1559.3
14°	1549.7	1555.5	1561.5	1570.0	1584.1	1576.9	1566.3	1559.5	1554.1	1546.7	1540.9
14.5°	1532.8	1539.5	1546.7	1556.4	1571.2	1563.7	1551.5	1544.3	1537.2	1529.1	1522.3
15°	1515.4	1523.3	1531.3	1542.1	1558.0	1549.5	1537.4	1528.6	1520.6	1511.1	1503.1
15.5°	1497.4	1506.5	1515.8	1527.2	1544.1	1535.2	1521.9	1512.6	1503.7	1493.1	1483.9
16°	1479.7	1489.4	1499.7	1511.3	1529.3	1520.1	1506.3	1495.8	1486.1	1474.2	1465.0
16.5°	1462.0	1472.5	1483.5	1495.9	1514.3	1504.7	1489.8	1478.9	1468.4	1455.8	1446.3
17°	1443.8	1455.3	1466.9	1479.8	1498.7	1488.7	1473.3	1461.8	1450.4	1437.3	1427.5
17.5°	1425.2	1437.8	1449.6	1463.2	1482.6	1472.3	1456.7	1443.9	1432.3	1418.8	1408.8
18°	1406.7	1419.9	1432.2	1445.9	1465.5	1455.8	1439.3	1426.4	1414.5	1400.5	1390.3
18.5°	1388.3	1401.7	1414.8	1428.6	1448.5	1438.5	1422.0	1409.0	1396.3	1382.0	1372.2
19°	1370.0	1383.6	1397.7	1411.2	1430.6	1421.0	1404.9	1391.2	1377.6	1364.1	1354.0
19.5°	1351.8	1365.7	1380.2	1393.5	1413.1	1403.4	1387.6	1373.0	1359.6	1346.3	1337.7
20°	1333.3	1347.3	1362.6	1375.6	1394.6	1385.9	1370.3	1355.7	1341.9	1328.5	1320.2
20.5°	1315.0	1329.5	1344.7	1357.7	1376.4	1368.0	1352.5	1338.6	1323.3	1310.6	1302.7
21°	1296.6	1310.9	1326.6	1339.1	1357.8	1349.3	1334.9	1320.8	1304.8	1292.8	1285.3
21.5°	1278.3	1292.6	1308.8	1320.4	1338.0	1330.0	1317.2	1303.0	1286.2	1274.9	1267.8
22°	1259.1	1273.6	1290.0	1300.8	1318.1	1310.6	1299.5	1285.2	1267.7	1257.1	1248.5

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1239.8	1255.2	1271.3	1281.9	1298.2	1291.3	1281.9	1267.3	1250.6	1237.3	1229.5
23°	1218.8	1235.3	1252.4	1260.8	1278.4	1272.0	1264.2	1247.6	1230.4	1216.3	1209.6
23.5°	1198.0	1215.7	1233.1	1241.0	1258.5	1252.7	1244.1	1228.2	1209.5	1195.2	1188.4
24°	1175.9	1195.2	1212.8	1219.0	1235.3	1231.0	1224.6	1208.2	1187.8	1173.6	1165.6
24.5°	1153.5	1173.9	1193.1	1197.8	1212.9	1209.4	1204.4	1187.4	1165.9	1150.5	1141.8
25°	1130.1	1151.9	1172.2	1174.9	1189.5	1187.1	1183.5	1166.5	1143.7	1127.1	1117.1
25.5°	1107.2	1129.9	1150.9	1153.1	1166.8	1164.7	1162.0	1145.1	1121.2	1103.1	1091.3
26°	1083.9	1106.9	1128.6	1130.0	1143.8	1141.9	1140.2	1122.9	1098.5	1078.9	1064.1
26.5°	1061.3	1083.7	1105.9	1106.7	1120.6	1118.7	1117.2	1099.5	1075.0	1054.1	1036.9
27°	1036.9	1060.1	1081.1	1083.4	1097.2	1095.1	1093.4	1076.0	1051.9	1028.9	1010.2
27.5°	1012.8	1036.3	1055.5	1059.5	1074.6	1072.0	1069.0	1051.9	1028.6	1003.0	984.2
28°	987.9	1012.1	1029.0	1035.3	1051.4	1048.6	1042.7	1027.0	1004.3	977.6	958.4
28.5°	962.9	986.0	1001.4	1010.3	1027.9	1024.2	1016.6	1001.5	979.7	951.6	932.5
29°	936.6	961.0	973.5	985.5	1004.2	1000.3	989.3	975.0	954.5	926.1	908.0
29.5°	910.9	934.9	944.6	960.4	980.0	975.5	961.4	947.7	928.8	901.0	883.3
30°	883.6	907.8	916.5	934.3	954.5	950.3	932.4	919.5	902.7	875.8	858.5
30.5°	857.2	879.4	888.6	907.2	929.2	924.0	904.0	891.0	875.6	850.4	833.4
31°	830.8	852.1	861.6	880.4	903.6	898.1	876.5	862.6	849.1	825.7	807.8
31.5°	804.7	823.2	835.2	853.4	878.0	871.5	849.6	834.0	821.7	800.9	782.2
32°	778.3	795.3	809.7	826.0	852.1	844.6	823.8	806.5	795.8	776.4	756.2
32.5°	752.9	766.8	784.1	799.1	827.1	817.9	798.0	779.8	767.7	751.3	730.5
33°	727.3	740.7	759.7	772.4	802.0	790.6	773.7	753.4	740.3	726.9	704.3
33.5°	701.6	712.9	734.8	745.5	776.5	763.8	748.9	727.9	712.9	701.5	678.0
34°	676.2	687.7	710.2	720.3	750.4	737.6	724.5	702.9	686.6	676.3	653.3
34.5°	650.5	661.4	684.7	695.2	724.5	711.9	700.0	678.2	659.5	650.8	628.1
35°	620.5	636.1	659.4	670.7	698.6	686.7	675.4	654.3	633.7	624.6	604.6
35.5°	596.8	611.8	634.9	646.9	672.8	661.8	650.5	629.4	608.6	599.1	581.6
36°	573.0	587.6	610.8	624.1	646.3	637.5	625.8	604.6	584.5	574.1	559.2
36.5°	549.2	563.3	586.8	600.4	620.6	612.8	601.1	580.0	559.6	549.4	536.5
37°	525.4	539.0	562.7	576.7	594.8	589.0	576.6	555.6	535.8	525.3	514.8
37.5°	500.8	514.7	538.6	553.0	569.5	565.3	552.5	530.9	512.7	501.3	492.7
38°	476.7	492.6	514.5	529.3	544.9	542.0	529.9	507.4	489.9	478.6	470.9
38.5°	453.3	470.0	492.3	505.9	520.0	518.5	507.1	484.5	467.2	456.2	448.7
39°	430.9	448.6	471.0	483.3	496.2	496.5	485.5	462.1	445.5	434.5	427.5
39.5°	408.7	427.0	449.0	460.7	472.7	473.4	464.1	440.8	423.9	412.4	406.2
40°	387.1	406.4	427.7	438.4	449.7	451.5	442.9	420.3	402.6	391.0	385.5
40.5°	366.6	386.5	406.9	416.7	427.6	428.5	421.7	399.7	381.5	370.1	365.0
41°	346.7	366.5	386.0	395.7	405.5	407.1	400.8	380.0	361.1	349.9	345.4
41.5°	327.0	346.9	365.0	375.0	384.5	385.5	380.2	360.7	341.5	330.0	326.7
42°	308.6	328.8	345.5	355.2	363.9	365.0	359.6	342.2	322.5	310.4	308.5
42.5°	290.7	310.3	325.8	335.4	344.1	344.2	339.2	323.5	304.2	291.9	290.2
43°	273.3	292.2	306.8	315.3	324.5	324.5	319.4	305.6	286.6	274.1	272.5
43.5°	256.2	274.1	288.0	296.0	305.3	304.8	300.2	287.7	269.0	256.9	254.7
44°	240.3	256.9	270.8	277.1	286.5	286.4	281.8	270.6	252.8	240.7	238.4
44.5°	224.7	240.3	253.5	258.6	268.5	267.8	263.6	253.4	236.9	225.0	221.3

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	209.6	224.5	237.0	240.7	251.4	250.3	246.4	237.1	221.7	209.8	205.4
45.5°	195.1	208.7	221.1	223.1	234.1	232.6	229.7	221.2	207.0	195.3	189.8
46°	181.8	194.1	205.3	206.5	217.8	216.1	213.4	205.9	192.5	181.6	176.0
46.5°	168.5	179.4	189.9	190.4	201.6	199.6	198.0	190.7	179.1	169.6	163.5
47°	156.1	166.3	175.1	175.3	186.7	184.1	182.6	176.4	167.2	157.7	151.0
47.5°	144.0	153.0	160.7	160.6	173.1	170.6	169.1	163.8	155.3	145.7	138.6
48°	133.0	140.9	147.1	146.9	159.5	157.1	155.8	151.1	143.5	133.7	126.2
48.5°	122.1	128.7	133.9	133.9	145.8	143.6	142.4	138.5	131.6	121.8	116.0
49°	112.1	117.8	121.4	121.9	132.2	130.1	129.0	125.9	119.7	111.8	106.8
49.5°	102.5	107.3	109.5	110.4	118.7	116.7	115.7	113.3	109.5	102.3	98.3
50°	93.2	97.3	98.4	99.5	106.9	105.5	104.5	102.8	99.9	93.5	90.3
50.5°	84.4	87.4	88.1	89.2	95.8	94.8	93.9	92.7	90.7	85.2	82.7
51°	76.4	78.7	78.8	79.7	85.7	85.2	84.2	83.3	81.9	77.5	75.6
51.5°	68.6	70.4	69.9	70.8	76.1	75.9	75.2	74.5	73.7	70.2	69.0
52°	61.4	62.7	62.0	62.8	67.3	67.4	66.7	66.3	65.8	63.2	62.6
52.5°	55.2	56.3	55.7	56.3	59.1	59.4	58.9	58.6	58.4	56.6	56.3
53°	49.0	50.0	49.4	49.9	51.6	52.1	51.7	51.4	51.3	50.3	50.3
53.5°	42.8	43.7	43.1	43.4	44.7	45.2	45.1	44.8	45.0	44.3	44.6
54°	36.6	37.3	36.8	37.0	38.6	39.2	39.1	38.6	38.9	38.7	39.2
54.5°	31.6	31.0	30.6	30.6	33.3	33.8	33.8	33.2	33.6	33.6	34.2
55°	27.1	26.6	26.2	26.3	28.8	29.3	29.2	28.7	28.9	29.0	29.6
55.5°	23.1	22.5	22.2	22.1	24.6	25.1	25.0	24.5	24.7	24.9	25.5
56°	19.1	18.5	18.1	18.1	20.5	20.8	20.8	21.9	21.6	22.1	21.4
56.5°	15.5	14.9	14.6	14.7	18.2	18.4	18.4	19.2	18.6	19.3	18.8
57°	12.6	12.1	11.8	12.0	15.8	16.0	16.0	16.5	15.6	16.6	16.2
57.5°	10.4	10.0	9.9	10.1	13.4	13.7	13.6	13.8	12.6	13.8	13.7
58°	8.8	8.5	8.4	8.6	11.0	11.3	11.3	11.2	9.6	11.0	11.2
58.5°	7.6	7.3	7.3	7.5	8.6	9.0	8.9	8.5	8.3	8.2	8.6
59°	6.6	6.4	6.4	6.6	7.6	7.9	7.8	7.4	7.2	7.2	7.4
59.5°	6.1	5.9	5.9	6.0	6.8	7.1	7.0	6.6	6.4	6.3	6.5
60°	5.5	5.4	5.3	5.5	6.1	6.4	6.2	5.9	5.7	5.6	5.8
60.5°	5.0	4.8	4.8	5.0	5.5	5.8	5.7	5.3	5.1	5.1	5.2
61°	4.4	4.3	4.3	4.5	5.0	5.2	5.1	4.8	4.6	4.6	4.7
61.5°	4.0	3.9	3.9	4.1	4.6	4.8	4.7	4.4	4.2	4.2	4.3
62°	3.7	3.6	3.6	3.7	4.2	4.4	4.3	4.0	3.9	3.8	3.9
62.5°	3.4	3.3	3.3	3.4	3.9	4.0	4.0	3.7	3.5	3.5	3.6
63°	3.1	3.0	3.0	3.2	3.6	3.7	3.6	3.4	3.3	3.2	3.3
63.5°	2.9	2.8	2.8	2.9	3.3	3.4	3.4	3.1	3.0	3.0	3.1
64°	2.6	2.6	2.6	2.7	3.1	3.2	3.1	2.9	2.8	2.7	2.8
64.5°	2.4	2.4	2.4	2.5	2.8	3.0	2.9	2.7	2.6	2.5	2.6
65°	2.3	2.2	2.2	2.3	2.6	2.8	2.7	2.5	2.4	2.4	2.4
65.5°	2.1	2.0	2.1	2.2	2.4	2.6	2.5	2.3	2.2	2.2	2.3
66°	1.9	1.9	1.9	2.0	2.3	2.4	2.3	2.2	2.1	2.0	2.1
66.5°	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.0	1.9	1.9	2.0
67°	1.7	1.6	1.7	1.7	2.0	2.1	2.0	1.9	1.8	1.8	1.8

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.5	1.5	1.5	1.6	1.8	1.9	1.9	1.7	1.7	1.6	1.7
68°	1.4	1.4	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.6
68.5°	1.3	1.3	1.3	1.4	1.6	1.7	1.6	1.5	1.4	1.4	1.5
69°	1.2	1.2	1.2	1.3	1.5	1.6	1.5	1.4	1.3	1.3	1.4
69.5°	1.1	1.1	1.1	1.2	1.4	1.5	1.4	1.3	1.2	1.2	1.3
70°	1.1	1.0	1.1	1.1	1.3	1.4	1.3	1.2	1.1	1.1	1.2
70.5°	1.0	1.0	1.0	1.0	1.2	1.3	1.2	1.1	1.1	1.1	1.1
71°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.0	1.0	1.0	1.0
71.5°	0.8	0.8	0.8	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
72°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.8	0.8	0.9
72.5°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
73°	0.7	0.6	0.6	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.7
73.5°	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.7
74°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
74.5°	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6
75°	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
75.5°	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5
76°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
76.5°	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4
77°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4
77.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
78°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3
79°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
79.5°	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
81°	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
81.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82°	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1
83°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	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
91.5°	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.0	0.0	0.0
97.5°	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
98.5°	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
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
111.5°	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

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

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	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	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
114.5°	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
115.5°	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
116.5°	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
117.5°	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
118.5°	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
119.5°	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
120.5°	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
121.5°	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
122.5°	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
124.5°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
125.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
130°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
130.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
131°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
131.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
132°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
132.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
133°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
133.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
134.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
135.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
136°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
136.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
137°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
137.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
138°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
138.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
139°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
139.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
140°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
140.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
141°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
141.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
142°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5
142.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
143°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
143.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
144°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
144.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6
145.5°	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
146°	0.4	0.4	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
146.5°	0.4	0.4	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
147°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
147.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
148°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
148.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
149°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7
149.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
151°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
151.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.8	0.8
153°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.8	0.8	0.8	0.8
153.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
154°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
154.5°	0.5	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.5	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155.5°	0.5	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
156°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
156.5°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.9	0.8

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.5	0.5	0.5	0.4	0.8	0.8	0.8	0.8	0.9	0.9	0.9
158°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
158.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
159°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
159.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
161°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
161.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
163°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
163.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
168°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
168.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
169°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
169.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
171°	0.5	0.5	0.5	0.5	0.8	0.8	0.9	0.9	0.9	0.9	0.9
171.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.9	0.9	0.9	0.8	0.8
172°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
173°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
173.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
174°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
174.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
176°	0.5	0.5	0.5	0.5	0.7	0.7	0.8	0.8	0.8	0.8	0.8
176.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.8	0.8	0.8	0.7	0.7
177°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
177.5°	0.6	0.6	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
178°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
178.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
179°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
179.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P1590459
CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6
0.5°	1750.8	1749.5	1750.1	1750.8	1750.6	1750.9
1°	1750.3	1749.1	1749.7	1750.0	1749.8	1750.1
1.5°	1749.5	1748.3	1749.1	1748.9	1748.6	1749.2
2°	1748.6	1747.4	1747.7	1747.1	1746.9	1748.0
2.5°	1746.9	1746.3	1746.3	1745.2	1745.1	1746.4
3°	1745.4	1745.2	1744.8	1742.6	1742.0	1744.8
3.5°	1743.1	1743.4	1742.4	1739.5	1738.5	1742.0
4°	1740.5	1741.1	1739.8	1735.8	1734.6	1738.9
4.5°	1736.9	1738.5	1736.8	1731.8	1730.3	1735.1
5°	1733.2	1735.2	1733.4	1727.2	1725.4	1730.9
5.5°	1729.4	1731.7	1729.5	1722.6	1720.3	1726.2
6°	1724.9	1727.5	1725.4	1717.9	1714.8	1721.2
6.5°	1720.0	1723.1	1720.6	1712.9	1709.7	1715.5
7°	1714.8	1717.4	1715.5	1707.7	1703.9	1709.5
7.5°	1709.1	1711.4	1709.4	1702.5	1698.3	1702.9
8°	1702.6	1704.3	1702.8	1696.0	1692.2	1696.3
8.5°	1695.9	1696.3	1695.1	1689.7	1685.7	1688.6
9°	1687.7	1686.8	1686.5	1682.0	1678.5	1680.5
9.5°	1678.8	1676.3	1676.5	1673.7	1670.5	1671.4
10°	1668.3	1663.9	1665.0	1663.6	1661.7	1662.0
10.5°	1656.4	1650.2	1651.6	1652.8	1651.9	1651.6
11°	1643.0	1634.7	1636.8	1639.9	1640.7	1639.9
11.5°	1627.1	1617.3	1620.1	1625.3	1627.9	1627.1
12°	1610.4	1598.7	1602.2	1608.7	1613.0	1612.8
12.5°	1592.4	1580.3	1583.6	1591.6	1597.0	1598.1
13°	1574.1	1560.7	1564.3	1573.3	1580.9	1582.6
13.5°	1555.2	1541.8	1544.9	1554.6	1563.7	1566.4
14°	1535.9	1521.6	1525.2	1535.4	1545.5	1549.7
14.5°	1516.2	1501.8	1505.5	1516.5	1527.2	1532.8
15°	1496.5	1481.4	1485.3	1496.5	1508.6	1515.4
15.5°	1477.3	1462.0	1465.8	1477.9	1489.5	1497.4
16°	1458.2	1442.7	1446.9	1458.4	1470.5	1479.7
16.5°	1439.0	1424.3	1428.1	1439.8	1452.5	1462.0
17°	1420.5	1405.1	1408.9	1421.4	1433.7	1443.8
17.5°	1402.2	1386.3	1390.9	1402.6	1415.5	1425.2
18°	1383.9	1367.4	1372.0	1384.0	1396.5	1406.7
18.5°	1365.1	1348.7	1353.3	1365.9	1378.0	1388.3
19°	1347.4	1330.3	1335.5	1347.5	1359.2	1370.0
19.5°	1330.1	1311.4	1317.3	1329.6	1341.1	1351.8
20°	1312.8	1293.7	1299.9	1311.5	1322.4	1333.3
20.5°	1295.6	1275.2	1281.8	1294.1	1304.3	1315.0
21°	1278.3	1257.7	1263.9	1275.7	1285.8	1296.6
21.5°	1261.0	1239.4	1246.1	1257.6	1267.1	1278.3
22°	1243.3	1221.5	1228.3	1239.3	1248.9	1259.1

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1224.9	1203.0	1209.5	1220.9	1229.5	1239.8
23°	1204.8	1183.1	1189.3	1201.1	1208.9	1218.8
23.5°	1183.2	1161.6	1168.2	1180.0	1188.3	1198.0
24°	1161.2	1138.5	1145.8	1157.5	1165.9	1175.9
24.5°	1138.4	1113.2	1122.5	1133.4	1142.3	1153.5
25°	1114.5	1089.3	1098.1	1108.5	1117.6	1130.1
25.5°	1089.5	1064.8	1073.4	1082.5	1093.0	1107.2
26°	1064.4	1040.6	1048.3	1055.8	1067.5	1083.9
26.5°	1038.4	1015.3	1022.8	1029.0	1041.4	1061.3
27°	1011.6	991.4	997.0	1001.8	1014.2	1036.9
27.5°	984.5	966.9	970.4	974.6	987.6	1012.8
28°	956.7	941.7	943.8	947.8	962.4	987.9
28.5°	929.3	916.3	917.6	921.2	937.1	962.9
29°	902.7	890.6	891.5	895.3	912.3	936.6
29.5°	876.5	863.9	865.2	869.7	887.9	910.9
30°	850.5	837.0	838.2	844.7	863.9	883.6
30.5°	824.3	809.1	811.4	819.4	839.1	857.2
31°	798.8	782.4	784.6	794.0	814.5	830.8
31.5°	773.3	755.0	758.3	768.8	789.4	804.7
32°	748.3	728.4	732.3	743.4	763.5	778.3
32.5°	723.3	702.3	706.6	718.0	737.7	752.9
33°	698.3	676.7	681.7	692.6	711.6	727.3
33.5°	673.0	650.5	657.2	666.6	685.2	701.6
34°	648.2	621.6	634.2	641.8	658.7	676.2
34.5°	623.4	598.5	610.2	618.3	633.4	650.5
35°	599.6	575.3	586.2	594.7	609.3	620.5
35.5°	575.5	552.2	562.2	571.2	585.3	596.8
36°	552.5	529.1	538.2	547.6	561.2	573.0
36.5°	529.3	506.7	514.2	524.1	537.2	549.2
37°	506.5	484.5	491.4	501.9	513.2	525.4
37.5°	484.1	463.0	469.0	480.0	490.8	500.8
38°	462.2	442.5	446.8	458.9	468.8	476.7
38.5°	441.0	422.2	425.3	437.3	446.5	453.3
39°	420.3	402.7	405.8	416.5	425.0	430.9
39.5°	399.7	382.8	385.9	395.3	403.3	408.7
40°	379.3	363.4	366.5	375.0	381.9	387.1
40.5°	360.0	345.0	347.8	354.6	360.3	366.6
41°	341.0	327.3	329.9	335.0	340.2	346.7
41.5°	322.6	310.1	312.3	316.1	319.9	327.0
42°	304.7	293.5	295.1	297.8	300.9	308.6
42.5°	287.0	277.6	278.5	279.2	282.2	290.7
43°	270.3	262.2	262.3	262.6	264.8	273.3
43.5°	254.1	247.1	246.8	245.3	247.6	256.2
44°	238.7	232.6	231.9	229.1	231.2	240.3
44.5°	223.7	218.4	217.6	213.0	215.1	224.7

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	209.3	204.9	203.6	198.0	199.8	209.6
45.5°	195.5	191.9	190.5	183.4	185.4	195.1
46°	182.2	179.5	177.9	169.7	171.6	181.8
46.5°	169.8	167.4	165.7	156.6	158.3	168.5
47°	158.3	155.7	154.0	144.6	145.9	156.1
47.5°	146.9	144.5	142.7	133.4	134.4	144.0
48°	135.5	133.8	132.1	122.8	123.8	133.0
48.5°	124.2	123.8	121.9	113.2	113.9	122.1
49°	114.1	114.1	112.3	104.4	104.3	112.1
49.5°	104.6	104.7	103.1	96.2	96.1	102.5
50°	95.9	95.8	94.1	88.4	88.1	93.2
50.5°	87.5	87.3	85.9	81.0	80.7	84.4
51°	79.7	79.3	78.1	74.1	73.4	76.4
51.5°	72.2	71.5	70.7	67.5	66.9	68.6
52°	65.3	64.3	63.6	61.1	61.1	61.4
52.5°	58.5	58.2	57.7	55.4	55.2	55.2
53°	52.1	52.1	51.8	49.7	49.3	49.0
53.5°	46.3	46.1	45.9	44.0	43.4	42.8
54°	40.6	40.0	40.0	38.3	37.5	36.6
54.5°	35.3	33.9	34.1	33.5	32.5	31.6
55°	30.6	29.3	29.5	29.1	28.0	27.1
55.5°	26.4	25.2	25.5	25.0	24.2	23.1
56°	22.4	21.1	21.4	21.0	20.2	19.1
56.5°	19.7	17.4	17.7	17.3	16.5	15.5
57°	17.0	14.3	14.5	14.1	13.4	12.6
57.5°	14.4	11.9	12.2	11.8	11.1	10.4
58°	11.7	10.1	10.4	10.1	9.4	8.8
58.5°	9.1	8.8	9.1	8.7	8.1	7.6
59°	7.9	7.7	8.0	7.6	7.1	6.6
59.5°	7.0	6.8	7.1	6.8	6.3	6.1
60°	6.2	6.3	6.3	6.3	5.8	5.5
60.5°	5.6	5.8	5.9	5.8	5.3	5.0
61°	5.1	5.3	5.4	5.3	4.8	4.4
61.5°	4.6	4.9	5.0	4.8	4.3	4.0
62°	4.2	4.4	4.5	4.3	3.9	3.7
62.5°	3.9	4.0	4.1	4.0	3.6	3.4
63°	3.5	3.7	3.8	3.6	3.3	3.1
63.5°	3.3	3.4	3.5	3.4	3.1	2.9
64°	3.0	3.2	3.3	3.1	2.8	2.6
64.5°	2.8	2.9	3.0	2.9	2.6	2.4
65°	2.6	2.7	2.8	2.7	2.4	2.3
65.5°	2.4	2.5	2.6	2.5	2.2	2.1
66°	2.2	2.3	2.4	2.3	2.1	1.9
66.5°	2.1	2.2	2.3	2.1	1.9	1.8
67°	1.9	2.0	2.1	2.0	1.8	1.7

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.8	1.9	2.0	1.9	1.7	1.5
68°	1.7	1.8	1.8	1.7	1.5	1.4
68.5°	1.6	1.6	1.7	1.6	1.4	1.3
69°	1.5	1.5	1.6	1.5	1.3	1.2
69.5°	1.3	1.4	1.5	1.4	1.2	1.1
70°	1.3	1.3	1.4	1.3	1.1	1.1
70.5°	1.2	1.2	1.3	1.2	1.1	1.0
71°	1.1	1.1	1.2	1.1	1.0	0.9
71.5°	1.0	1.1	1.1	1.0	0.9	0.8
72°	0.9	1.0	1.0	0.9	0.8	0.8
72.5°	0.9	0.9	0.9	0.9	0.8	0.7
73°	0.8	0.8	0.9	0.8	0.7	0.7
73.5°	0.7	0.8	0.8	0.7	0.7	0.6
74°	0.7	0.7	0.7	0.7	0.6	0.5
74.5°	0.6	0.7	0.7	0.6	0.6	0.5
75°	0.6	0.6	0.6	0.6	0.5	0.5
75.5°	0.5	0.5	0.6	0.5	0.5	0.4
76°	0.5	0.5	0.5	0.5	0.4	0.4
76.5°	0.4	0.5	0.5	0.4	0.4	0.3
77°	0.4	0.4	0.4	0.4	0.3	0.3
77.5°	0.4	0.4	0.4	0.4	0.3	0.3
78°	0.3	0.3	0.4	0.3	0.3	0.2
78.5°	0.3	0.3	0.3	0.3	0.2	0.2
79°	0.2	0.3	0.3	0.3	0.2	0.2
79.5°	0.2	0.2	0.3	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.1
80.5°	0.2	0.2	0.2	0.2	0.1	0.1
81°	0.1	0.2	0.2	0.1	0.1	0.1
81.5°	0.1	0.1	0.1	0.1	0.1	0.1
82°	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.1	0.0	0.0
83°	0.1	0.1	0.1	0.1	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
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
111.5°	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

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	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
113.5°	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
114.5°	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
115.5°	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
116.5°	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
117.5°	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
118.5°	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
119.5°	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
120.5°	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
121.5°	0.0	0.1	0.1	0.0	0.0	0.0
122°	0.0	0.1	0.1	0.1	0.1	0.0
122.5°	0.0	0.1	0.1	0.1	0.1	0.1
123°	0.0	0.1	0.1	0.1	0.1	0.1
123.5°	0.0	0.1	0.1	0.1	0.1	0.1
124°	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.1	0.1	0.1	0.1	0.1	0.1
125.5°	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.2	0.1	0.1	0.1	0.1	0.1
130°	0.2	0.2	0.2	0.2	0.1	0.1
130.5°	0.2	0.2	0.2	0.2	0.2	0.2
131°	0.2	0.2	0.2	0.2	0.2	0.2
131.5°	0.2	0.2	0.2	0.2	0.2	0.2
132°	0.2	0.2	0.2	0.2	0.2	0.2
132.5°	0.2	0.2	0.2	0.2	0.2	0.2
133°	0.2	0.2	0.2	0.2	0.2	0.2
133.5°	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.3	0.2	0.2	0.2	0.2	0.2
134.5°	0.3	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.3	0.2	0.2	0.2	0.2	0.2
135.5°	0.3	0.2	0.2	0.2	0.2	0.2
136°	0.3	0.2	0.2	0.2	0.2	0.2
136.5°	0.3	0.2	0.2	0.2	0.2	0.2
137°	0.3	0.2	0.2	0.2	0.2	0.2
137.5°	0.3	0.3	0.3	0.3	0.2	0.2
138°	0.4	0.3	0.3	0.3	0.3	0.3
138.5°	0.4	0.3	0.3	0.3	0.3	0.3
139°	0.4	0.3	0.3	0.3	0.3	0.3
139.5°	0.4	0.3	0.3	0.3	0.3	0.3
140°	0.4	0.3	0.3	0.3	0.3	0.3
140.5°	0.4	0.3	0.3	0.3	0.3	0.3
141°	0.4	0.3	0.3	0.3	0.3	0.3
141.5°	0.5	0.3	0.3	0.3	0.3	0.3
142°	0.5	0.3	0.3	0.3	0.3	0.3
142.5°	0.5	0.3	0.3	0.3	0.3	0.3
143°	0.5	0.3	0.3	0.3	0.3	0.3
143.5°	0.5	0.3	0.3	0.3	0.3	0.3
144°	0.5	0.3	0.3	0.3	0.3	0.3
144.5°	0.5	0.3	0.3	0.3	0.3	0.3
145°	0.6	0.4	0.4	0.4	0.3	0.3
145.5°	0.6	0.4	0.4	0.4	0.4	0.4
146°	0.6	0.4	0.4	0.4	0.4	0.4
146.5°	0.6	0.4	0.4	0.4	0.4	0.4
147°	0.6	0.4	0.4	0.4	0.4	0.4
147.5°	0.6	0.4	0.4	0.4	0.4	0.4
148°	0.6	0.4	0.4	0.4	0.4	0.4
148.5°	0.7	0.4	0.4	0.4	0.4	0.4
149°	0.7	0.4	0.4	0.4	0.4	0.4
149.5°	0.7	0.4	0.4	0.4	0.4	0.4
150°	0.7	0.4	0.4	0.4	0.4	0.4
150.5°	0.7	0.4	0.4	0.4	0.4	0.4
151°	0.7	0.4	0.4	0.4	0.4	0.4
151.5°	0.7	0.4	0.4	0.4	0.4	0.4
152°	0.7	0.4	0.4	0.4	0.4	0.4
152.5°	0.8	0.4	0.4	0.4	0.4	0.4
153°	0.8	0.4	0.4	0.4	0.4	0.4
153.5°	0.8	0.4	0.4	0.4	0.4	0.4
154°	0.8	0.4	0.4	0.4	0.4	0.4
154.5°	0.8	0.4	0.4	0.5	0.5	0.5
155°	0.8	0.4	0.4	0.5	0.5	0.5
155.5°	0.8	0.4	0.5	0.5	0.5	0.5
156°	0.8	0.4	0.5	0.5	0.5	0.5
156.5°	0.8	0.5	0.5	0.5	0.5	0.5
157°	0.8	0.5	0.5	0.5	0.5	0.5

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.9	0.5	0.5	0.5	0.5	0.5
158°	0.9	0.5	0.5	0.5	0.5	0.5
158.5°	0.9	0.5	0.5	0.5	0.5	0.5
159°	0.9	0.5	0.5	0.5	0.5	0.5
159.5°	0.9	0.5	0.5	0.5	0.5	0.5
160°	0.9	0.5	0.5	0.5	0.5	0.5
160.5°	0.9	0.5	0.5	0.5	0.5	0.5
161°	0.9	0.5	0.5	0.5	0.5	0.5
161.5°	0.9	0.5	0.5	0.5	0.5	0.5
162°	0.9	0.5	0.5	0.5	0.5	0.5
162.5°	0.9	0.5	0.5	0.5	0.5	0.5
163°	0.9	0.5	0.5	0.5	0.5	0.5
163.5°	0.9	0.5	0.5	0.5	0.5	0.5
164°	0.9	0.5	0.5	0.5	0.5	0.5
164.5°	0.9	0.5	0.5	0.5	0.5	0.5
165°	0.9	0.5	0.5	0.5	0.5	0.5
165.5°	0.9	0.5	0.5	0.5	0.5	0.5
166°	0.9	0.5	0.5	0.5	0.5	0.5
166.5°	0.9	0.5	0.5	0.5	0.5	0.5
167°	0.9	0.5	0.5	0.5	0.5	0.5
167.5°	0.9	0.5	0.5	0.5	0.5	0.5
168°	0.9	0.5	0.5	0.5	0.5	0.5
168.5°	0.9	0.5	0.5	0.5	0.5	0.5
169°	0.9	0.5	0.5	0.5	0.5	0.5
169.5°	0.9	0.5	0.5	0.5	0.5	0.5
170°	0.9	0.5	0.5	0.5	0.5	0.5
170.5°	0.9	0.5	0.5	0.5	0.5	0.5
171°	0.9	0.5	0.5	0.5	0.5	0.5
171.5°	0.8	0.5	0.5	0.5	0.5	0.5
172°	0.8	0.5	0.5	0.5	0.5	0.5
172.5°	0.8	0.5	0.5	0.5	0.5	0.5
173°	0.8	0.5	0.5	0.5	0.5	0.5
173.5°	0.8	0.5	0.5	0.5	0.5	0.5
174°	0.8	0.5	0.5	0.5	0.5	0.5
174.5°	0.8	0.5	0.5	0.5	0.5	0.5
175°	0.8	0.5	0.5	0.5	0.5	0.5
175.5°	0.8	0.5	0.5	0.5	0.5	0.5
176°	0.7	0.5	0.5	0.5	0.5	0.5
176.5°	0.7	0.5	0.5	0.5	0.5	0.5
177°	0.7	0.5	0.5	0.6	0.5	0.5
177.5°	0.7	0.6	0.6	0.6	0.6	0.6
178°	0.7	0.6	0.6	0.6	0.6	0.6
178.5°	0.7	0.6	0.6	0.6	0.6	0.6
179°	0.7	0.6	0.6	0.6	0.6	0.6
179.5°	0.7	0.7	0.7	0.7	0.7	0.6



TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.7	0.7	0.7	0.7	0.7	0.7

TEST NUMBER: P1590459

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	4.2	5.2	4.6	5.5	5.9	5.2	6.2	5.6	6.6	6.9
	3H	4.1	5.0	4.5	5.4	5.7	5.1	6.0	5.5	6.4	6.7
	4H	4.0	4.9	4.4	5.2	5.6	5.1	5.9	5.5	6.3	6.6
	6H	3.9	4.7	4.4	5.1	5.5	5.0	5.7	5.4	6.1	6.5
	8H	3.9	4.6	4.3	5.0	5.4	4.9	5.6	5.3	6.0	6.4
	12H	3.8	4.5	4.3	4.9	5.3	4.9	5.5	5.3	5.9	6.4
4H	2H	4.0	4.9	4.4	5.2	5.6	5.0	5.8	5.4	6.2	6.6
	3H	4.0	4.6	4.4	5.1	5.5	5.0	5.6	5.4	6.0	6.4
	4H	3.9	4.5	4.3	4.9	5.4	4.9	5.5	5.3	5.9	6.3
	6H	3.8	4.3	4.3	4.7	5.2	4.8	5.3	5.2	5.7	6.2
	8H	3.7	4.2	4.2	4.6	5.1	4.7	5.2	5.2	5.6	6.1
	12H	3.6	4.1	4.1	4.6	5.0	4.6	5.1	5.1	5.5	6.0
8H	4H	3.7	4.2	4.2	4.7	5.1	4.7	5.2	5.2	5.6	6.1
	6H	3.6	4.0	4.1	4.5	5.0	4.6	5.0	5.1	5.5	6.0
	8H	3.5	3.9	4.1	4.4	4.9	4.5	4.9	5.1	5.4	5.9
	12H	3.5	3.8	4.0	4.3	4.9	4.5	4.8	5.0	5.3	5.8
12H	4H	3.7	4.1	4.1	4.6	5.0	4.6	5.1	5.1	5.5	6.0
	6H	3.5	3.9	4.1	4.4	4.9	4.5	4.9	5.1	5.3	5.9
	8H	3.5	3.8	4.0	4.3	4.9	4.5	4.8	5.0	5.3	5.9

(END OF REPORT)