

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: P1590458

Luminaire Tested: HCDLS1525CSD4TRC-LO-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590458
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-3000K
Description: 4" Selectable Round Trim + Specular Clear 1500 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

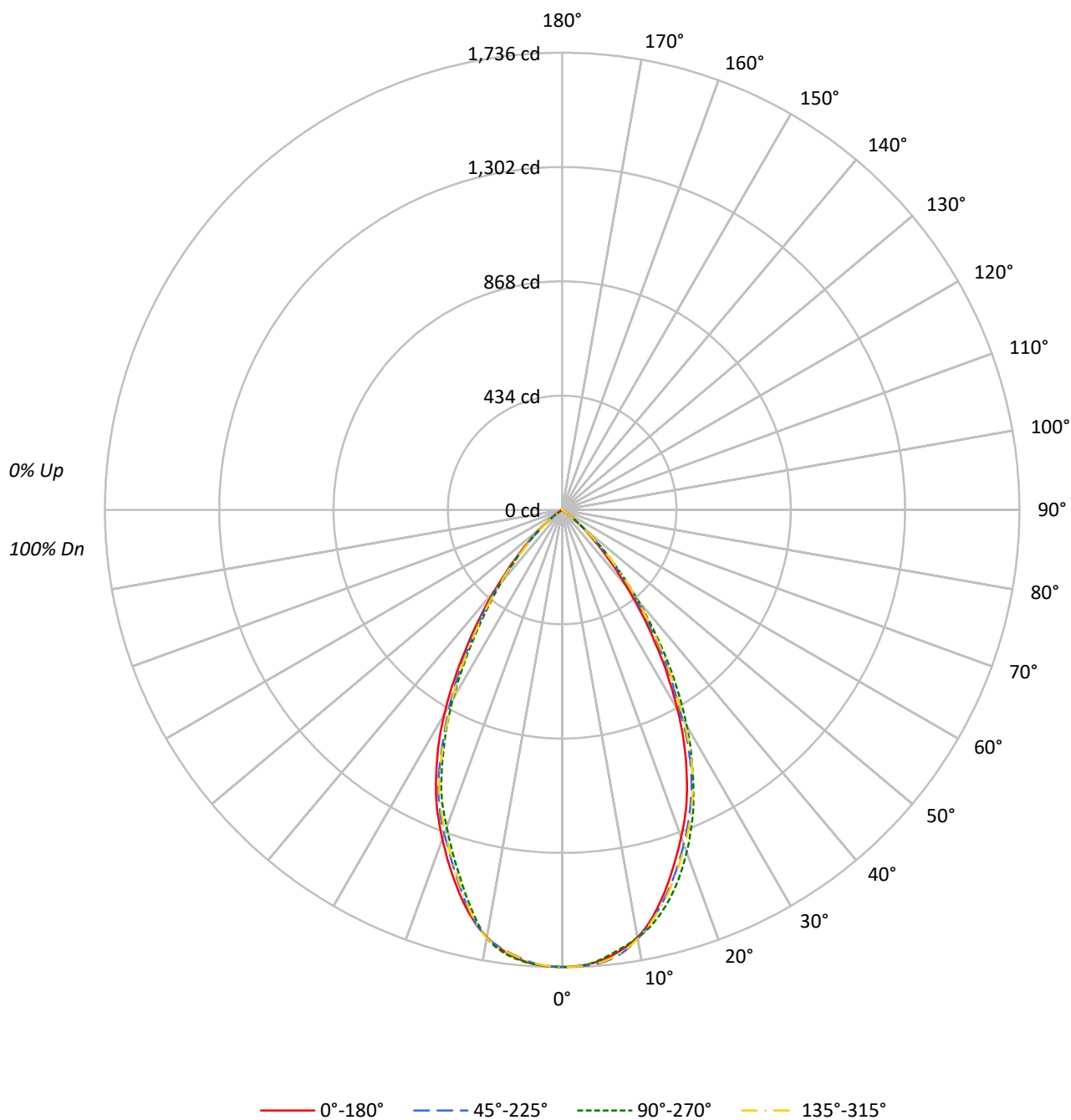
Lumens per Lamp: N/A
Luminaire Lumens: 1696.8 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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					0
RW	70	50	30	10	70	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			100
1	113	110	108	106	111	108	106	104		104	102	101			100	99	98			93
2	107	102	98	95	105	101	97	94		97	94	91			94	92	90			86
3	102	95	90	86	100	94	89	85		91	87	84			88	85	82			79
4	96	88	82	78	94	87	82	78		85	80	77			83	79	76			73
5	91	82	76	72	89	81	76	71		79	74	71			78	73	70			68
6	86	77	71	66	85	76	70	66		74	69	65			73	68	65			63
7	82	72	66	61	80	71	65	61		70	65	61			69	64	60			58
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			55
9	73	63	57	53	72	63	57	53		62	56	53			61	56	53			51
10	70	60	54	50	69	59	53	50		58	53	49			58	53	49			48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	214017	214017	214017	214017
5°	212420	211962	212668	212952
10°	206322	206597	206284	206560
15°	191801	197189	192452	187497
20°	173462	181430	174578	168304
25°	152442	160458	154279	146930
30°	124738	134750	127430	118158
35°	92620	104260	94578	85874
40°	61782	71781	64245	57998
45°	36248	43470	38341	35428
50°	17731	20341	18997	18230
55°	5785	6129	6150	6236
60°	1357	1505	1406	1554
65°	642	759	700	788
70°	361	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: 43470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	9.5
10°-20°	420.2	24.8
20°-30°	513.3	30.3
30°-40°	391.1	23.0
40°-50°	174.4	10.3
50°-60°	31.6	1.9
60°-70°	2.7	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°	1095.3	64.6
0°-40°	1486.4	87.6
0°-60°	1692.3	99.7
0°-90°	1695.7	99.9
90°-120°	0.0	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.1
0°-180°	1696.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1735	1735	1735	1735	1735	
5°	1716	1712	1718	1720	1716	162
15°	1502	1544	1507	1468	1502	419
25°	1120	1179	1134	1080	1120	509
35°	615	692	628	570	615	384
45°	208	249	220	203	208	166
55°	27	28	29	29	27	30
65°	2	3	2	3	2	2
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1
0.5°	1735.4	1734.8	1735.0	1735.4	1734.8	1735.0	1735.7	1735.4	1735.4	1734.8	1734.8
1°	1734.6	1734.6	1735.0	1735.4	1734.8	1735.0	1735.3	1735.3	1734.8	1734.2	1734.2
1.5°	1733.7	1734.0	1734.6	1734.8	1734.2	1734.6	1734.8	1734.6	1734.2	1733.3	1733.3
2°	1732.5	1733.1	1734.2	1734.0	1733.1	1733.6	1734.2	1734.0	1733.0	1731.6	1731.9
2.5°	1731.0	1732.5	1733.4	1732.7	1731.6	1732.1	1733.6	1733.1	1731.4	1729.8	1730.1
3°	1729.3	1731.6	1732.4	1730.8	1729.3	1730.2	1732.1	1732.1	1729.8	1727.2	1727.5
3.5°	1726.6	1730.5	1731.1	1728.6	1726.3	1727.8	1730.4	1730.5	1727.8	1724.0	1724.3
4°	1723.5	1729.0	1729.9	1725.5	1722.2	1724.4	1728.7	1729.0	1724.9	1720.0	1720.5
4.5°	1719.7	1726.9	1727.9	1721.7	1717.3	1720.3	1726.1	1726.9	1721.7	1715.4	1716.2
5°	1715.6	1724.3	1724.9	1717.0	1711.9	1715.3	1722.9	1724.4	1717.6	1710.4	1711.5
5.5°	1710.9	1720.8	1721.5	1712.1	1706.2	1710.1	1719.1	1721.1	1713.3	1704.9	1706.6
6°	1706.0	1716.5	1717.4	1706.5	1700.1	1704.3	1714.8	1717.1	1708.1	1699.3	1701.3
6.5°	1700.4	1711.6	1712.7	1700.8	1693.8	1698.4	1709.8	1712.4	1702.3	1693.5	1695.9
7°	1694.4	1705.7	1706.8	1694.7	1687.7	1692.3	1704.0	1706.8	1696.1	1687.3	1690.5
7.5°	1687.9	1699.0	1700.1	1688.2	1681.6	1685.7	1697.6	1700.2	1689.8	1681.0	1684.5
8°	1681.3	1691.7	1692.4	1681.0	1675.4	1679.0	1690.3	1692.4	1682.4	1674.6	1678.4
8.5°	1673.7	1683.3	1684.1	1673.5	1669.1	1672.5	1682.1	1684.4	1674.5	1667.5	1671.7
9°	1665.6	1674.0	1674.6	1665.8	1662.7	1665.0	1672.9	1674.9	1666.1	1660.1	1664.4
9.5°	1656.6	1663.8	1664.6	1657.4	1656.3	1657.2	1663.3	1664.6	1657.2	1652.1	1656.5
10°	1647.3	1653.0	1653.6	1648.4	1649.5	1648.9	1652.8	1653.6	1647.0	1643.5	1647.5
10.5°	1637.0	1641.2	1641.9	1638.8	1642.0	1640.3	1641.9	1641.5	1636.2	1633.3	1636.8
11°	1625.4	1628.9	1629.5	1628.6	1633.8	1630.9	1630.1	1629.5	1624.9	1622.7	1625.1
11.5°	1612.7	1615.5	1617.0	1617.9	1624.9	1621.1	1618.1	1616.7	1612.7	1610.8	1612.0
12°	1598.6	1601.6	1603.9	1606.0	1615.6	1610.6	1605.9	1603.5	1599.8	1596.9	1596.7
12.5°	1583.9	1587.3	1589.9	1594.6	1605.0	1599.0	1593.1	1589.7	1585.2	1582.0	1579.7
13°	1568.6	1572.8	1576.2	1582.1	1594.3	1587.6	1579.8	1575.1	1571.3	1566.4	1563.1
13.5°	1552.6	1557.4	1562.0	1569.6	1582.6	1575.9	1566.3	1560.9	1555.9	1550.0	1545.5
14°	1535.9	1541.7	1547.7	1556.1	1570.1	1562.9	1552.4	1545.7	1540.4	1533.1	1527.3
14.5°	1519.2	1525.9	1533.1	1542.7	1557.3	1549.8	1537.8	1530.6	1523.6	1515.5	1508.9
15°	1502.0	1509.8	1517.7	1528.5	1544.2	1535.8	1523.8	1515.1	1507.1	1497.8	1489.8
15.5°	1484.2	1493.2	1502.4	1513.7	1530.5	1521.6	1508.4	1499.2	1490.3	1479.9	1470.7
16°	1466.6	1476.2	1486.4	1497.9	1515.8	1506.7	1493.0	1482.6	1473.0	1461.2	1452.0
16.5°	1449.0	1459.5	1470.3	1482.6	1500.9	1491.3	1476.6	1465.9	1455.4	1442.9	1433.5
17°	1431.1	1442.5	1453.9	1466.7	1485.4	1475.5	1460.2	1448.8	1437.6	1424.6	1414.9
17.5°	1412.6	1425.1	1436.8	1450.3	1469.5	1459.3	1443.8	1431.1	1419.6	1406.3	1396.4
18°	1394.2	1407.3	1419.5	1433.1	1452.5	1442.9	1426.5	1413.7	1401.9	1388.1	1378.0
18.5°	1376.0	1389.3	1402.3	1416.0	1435.6	1425.8	1409.4	1396.5	1384.0	1369.8	1360.1
19°	1357.9	1371.4	1385.3	1398.7	1417.9	1408.4	1392.5	1378.9	1365.4	1352.0	1342.0
19.5°	1339.8	1353.6	1368.0	1381.2	1400.6	1391.0	1375.3	1360.9	1347.6	1334.4	1325.9
20°	1321.5	1335.4	1350.5	1363.4	1382.2	1373.6	1358.2	1343.7	1330.0	1316.7	1308.6
20.5°	1303.4	1317.8	1332.8	1345.7	1364.3	1355.9	1340.6	1326.8	1311.6	1299.0	1291.2
21°	1285.1	1299.3	1314.9	1327.3	1345.8	1337.3	1323.1	1309.1	1293.2	1281.3	1273.9
21.5°	1267.0	1281.2	1297.2	1308.7	1326.1	1318.2	1305.5	1291.5	1274.8	1263.6	1256.5
22°	1248.0	1262.4	1278.6	1289.3	1306.4	1299.1	1288.0	1273.8	1256.4	1246.0	1237.5

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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°	1228.8	1244.1	1260.0	1270.6	1286.7	1279.9	1270.5	1256.1	1239.6	1226.4	1218.6
23°	1208.1	1224.4	1241.3	1249.6	1267.1	1260.7	1253.0	1236.6	1219.5	1205.5	1198.9
23.5°	1187.4	1204.9	1222.2	1230.0	1247.3	1241.6	1233.1	1217.3	1198.8	1184.6	1177.9
24°	1165.5	1184.6	1202.1	1208.2	1224.4	1220.1	1213.8	1197.5	1177.3	1163.2	1155.3
24.5°	1143.3	1163.5	1182.6	1187.2	1202.1	1198.7	1193.7	1176.9	1155.6	1140.4	1131.7
25°	1120.1	1141.7	1161.8	1164.5	1179.0	1176.6	1173.1	1156.2	1133.6	1117.2	1107.2
25.5°	1097.4	1119.9	1140.7	1142.9	1156.4	1154.4	1151.7	1135.0	1111.2	1093.3	1081.6
26°	1074.3	1097.1	1118.6	1120.0	1133.7	1131.8	1130.1	1113.0	1088.8	1069.4	1054.7
26.5°	1051.9	1074.1	1096.1	1096.9	1110.6	1108.8	1107.3	1089.8	1065.5	1044.8	1027.8
27°	1027.7	1050.7	1071.6	1073.8	1087.5	1085.4	1083.7	1066.4	1042.6	1019.8	1001.2
27.5°	1003.9	1027.1	1046.2	1050.1	1065.1	1062.5	1059.5	1042.6	1019.5	994.1	975.5
28°	979.2	1003.2	1019.9	1026.2	1042.1	1039.3	1033.4	1017.9	995.4	968.9	950.0
28.5°	954.4	977.3	992.5	1001.4	1018.8	1015.1	1007.6	992.6	971.0	943.1	924.3
29°	928.3	952.5	964.9	976.7	995.4	991.4	980.5	966.4	946.1	917.9	900.0
29.5°	902.9	926.6	936.3	951.9	971.3	966.8	952.9	939.3	920.5	893.1	875.4
30°	875.8	899.7	908.3	926.0	946.1	941.9	924.1	911.3	894.7	868.1	850.9
30.5°	849.6	871.7	880.7	899.2	921.0	915.8	896.0	883.1	867.8	842.9	826.0
31°	823.4	844.6	853.9	872.6	895.6	890.1	868.7	854.9	841.6	818.4	800.6
31.5°	797.6	816.0	827.8	845.8	870.3	863.8	842.1	826.6	814.4	793.8	775.3
32°	771.4	788.3	802.5	818.7	844.6	837.1	816.5	799.4	788.8	769.5	749.5
32.5°	746.2	760.0	777.2	792.0	819.8	810.6	790.9	772.9	760.9	744.6	724.0
33°	720.8	734.1	753.0	765.5	794.9	783.6	766.8	746.8	733.8	720.5	698.1
33.5°	695.4	706.6	728.3	738.9	769.6	757.0	742.3	721.5	706.6	695.3	672.0
34°	670.3	681.6	703.9	713.9	743.8	731.1	718.1	696.6	680.5	670.3	647.6
34.5°	644.7	655.5	678.6	689.0	718.0	705.6	693.8	672.2	653.6	645.0	622.5
35°	615.1	630.5	653.5	664.8	692.4	680.6	669.5	648.5	628.1	619.1	599.2
35.5°	591.5	606.4	629.3	641.2	666.8	655.9	644.7	623.8	603.2	593.8	576.5
36°	567.9	582.4	605.4	618.6	640.6	631.9	620.2	599.2	579.3	569.0	554.2
36.5°	544.3	558.3	581.6	595.1	615.1	607.4	595.8	574.8	554.6	544.5	531.7
37°	520.8	534.2	557.7	571.6	589.5	583.8	571.5	550.7	531.1	520.6	510.3
37.5°	496.4	510.1	533.8	548.1	564.5	560.3	547.6	526.2	508.1	496.8	488.3
38°	472.5	488.3	510.0	524.6	540.0	537.2	525.2	502.9	485.5	474.3	466.7
38.5°	449.3	465.9	488.0	501.4	515.4	513.9	502.6	480.2	463.1	452.2	444.8
39°	427.1	444.7	466.8	479.0	491.8	492.1	481.2	458.0	441.6	430.7	423.7
39.5°	405.0	423.2	445.0	456.6	468.5	469.2	460.0	436.9	420.1	408.7	402.7
40°	383.7	402.8	423.9	434.6	445.8	447.5	439.0	416.6	399.0	387.5	382.1
40.5°	363.4	383.1	403.3	413.1	423.8	424.7	418.0	396.2	378.1	366.9	361.8
41°	343.6	363.2	382.6	392.2	401.9	403.5	397.3	376.6	357.9	346.8	342.4
41.5°	324.1	343.9	361.8	371.7	381.1	382.1	376.8	357.5	338.5	327.1	323.8
42°	305.9	325.9	342.4	352.1	360.7	361.7	356.4	339.2	319.6	307.7	305.8
42.5°	288.2	307.5	322.9	332.5	341.0	341.2	336.2	320.6	301.5	289.3	287.6
43°	270.9	289.7	304.1	312.6	321.7	321.7	316.6	302.8	284.1	271.7	270.1
43.5°	253.9	271.6	285.5	293.4	302.6	302.1	297.6	285.1	266.6	254.7	252.4
44°	238.2	254.6	268.4	274.6	284.0	283.9	279.3	268.2	250.6	238.5	236.3
44.5°	222.7	238.1	251.3	256.3	266.2	265.4	261.3	251.1	234.8	223.0	219.4

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CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	207.8	222.5	234.9	238.6	249.2	248.1	244.2	235.0	219.8	208.0	203.6
45.5°	193.4	206.9	219.1	221.1	232.0	230.5	227.7	219.2	205.2	193.6	188.2
46°	180.2	192.3	203.5	204.7	215.9	214.2	211.5	204.0	190.8	180.0	174.4
46.5°	167.0	177.8	188.2	188.8	199.8	197.9	196.2	189.0	177.6	168.1	162.0
47°	154.7	164.8	173.6	173.8	185.1	182.5	180.9	174.9	165.7	156.3	149.7
47.5°	142.7	151.6	159.3	159.2	171.6	169.1	167.6	162.3	154.0	144.4	137.4
48°	131.8	139.6	145.8	145.6	158.1	155.7	154.4	149.8	142.2	132.5	125.1
48.5°	121.0	127.5	132.7	132.7	144.5	142.3	141.1	137.3	130.4	120.7	115.0
49°	111.1	116.7	120.3	120.8	131.0	129.0	127.9	124.7	118.7	110.8	105.8
49.5°	101.6	106.3	108.5	109.5	117.6	115.6	114.7	112.3	108.6	101.4	97.4
50°	92.4	96.4	97.5	98.6	106.0	104.6	103.5	101.9	99.0	92.7	89.5
50.5°	83.7	86.6	87.3	88.4	94.9	94.0	93.1	91.9	89.9	84.4	82.0
51°	75.8	78.0	78.1	79.0	84.9	84.4	83.4	82.6	81.1	76.8	75.0
51.5°	68.0	69.7	69.3	70.2	75.4	75.2	74.6	73.8	73.1	69.6	68.4
52°	60.9	62.1	61.5	62.2	66.7	66.8	66.2	65.7	65.2	62.7	62.0
52.5°	54.7	55.8	55.2	55.8	58.6	58.8	58.4	58.1	57.9	56.1	55.8
53°	48.6	49.6	49.0	49.4	51.2	51.7	51.3	51.0	50.9	49.8	49.8
53.5°	42.4	43.3	42.7	43.0	44.3	44.8	44.7	44.4	44.6	43.9	44.2
54°	36.3	37.0	36.5	36.6	38.3	38.8	38.8	38.3	38.6	38.4	38.9
54.5°	31.3	30.7	30.3	30.3	33.0	33.5	33.5	33.0	33.3	33.3	33.9
55°	26.9	26.4	26.0	26.1	28.5	29.0	28.9	28.5	28.6	28.7	29.4
55.5°	22.9	22.3	22.0	21.9	24.4	24.8	24.8	24.3	24.5	24.7	25.3
56°	19.0	18.3	17.9	17.9	20.4	20.6	20.6	21.7	21.4	21.9	21.2
56.5°	15.4	14.8	14.5	14.5	18.0	18.2	18.2	19.0	18.4	19.2	18.6
57°	12.4	12.0	11.7	11.9	15.6	15.9	15.9	16.4	15.5	16.4	16.1
57.5°	10.3	9.9	9.8	10.0	13.3	13.6	13.5	13.7	12.5	13.7	13.6
58°	8.7	8.4	8.3	8.5	10.9	11.2	11.2	11.1	9.5	10.9	11.1
58.5°	7.5	7.3	7.2	7.4	8.5	8.9	8.8	8.4	8.2	8.2	8.5
59°	6.6	6.4	6.3	6.5	7.5	7.8	7.7	7.4	7.2	7.1	7.4
59.5°	6.0	5.8	5.8	6.0	6.7	7.0	6.9	6.6	6.3	6.3	6.5
60°	5.5	5.3	5.3	5.5	6.1	6.3	6.2	5.9	5.7	5.6	5.8
60.5°	4.9	4.8	4.8	4.9	5.5	5.7	5.6	5.3	5.1	5.0	5.2
61°	4.4	4.3	4.3	4.4	5.0	5.2	5.1	4.8	4.6	4.5	4.7
61.5°	4.0	3.9	3.9	4.0	4.5	4.7	4.6	4.4	4.2	4.1	4.3
62°	3.6	3.5	3.6	3.7	4.2	4.3	4.3	4.0	3.8	3.8	3.9
62.5°	3.3	3.3	3.3	3.4	3.8	4.0	3.9	3.7	3.5	3.5	3.6
63°	3.1	3.0	3.0	3.1	3.5	3.7	3.6	3.4	3.2	3.2	3.3
63.5°	2.8	2.8	2.8	2.9	3.3	3.4	3.3	3.1	3.0	2.9	3.0
64°	2.6	2.6	2.6	2.7	3.0	3.2	3.1	2.9	2.8	2.7	2.8
64.5°	2.4	2.4	2.4	2.5	2.8	2.9	2.9	2.7	2.6	2.5	2.6
65°	2.2	2.2	2.2	2.3	2.6	2.7	2.7	2.5	2.4	2.3	2.4
65.5°	2.1	2.0	2.0	2.1	2.4	2.5	2.5	2.3	2.2	2.2	2.2
66°	1.9	1.9	1.9	2.0	2.3	2.4	2.3	2.1	2.0	2.0	2.1
66.5°	1.8	1.7	1.8	1.9	2.1	2.2	2.1	2.0	1.9	1.9	1.9
67°	1.6	1.6	1.6	1.7	2.0	2.1	2.0	1.8	1.8	1.7	1.8

TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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	1.6	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	1.4
69°	1.2	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.3	1.3	1.3
69.5°	1.1	1.1	1.1	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.3
70°	1.0	1.0	1.0	1.1	1.3	1.3	1.3	1.2	1.1	1.1	1.2
70.5°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.1	1.0	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	0.7	0.8	0.8	0.9	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°	0.6	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	0.7	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	0.5	0.6
75°	0.5	0.4	0.4	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	0.4	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°	0.0	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: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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	0.0	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	0.2
134.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3

TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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	0.2	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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4
139°	0.3	0.3	0.3	0.3	0.3	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	0.5
145.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
146°	0.4	0.3	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	0.3	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	0.6	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	0.7	0.7
153°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	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°	0.4	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	0.4	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	0.8	0.8

TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.9	0.8
158°	0.5	0.5	0.5	0.4	0.8	0.8	0.8	0.8	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	0.8	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	0.8	0.8
171.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	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	0.7	0.7	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	0.7	0.7
176.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	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	0.5	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: P1590458
CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1
0.5°	1735.3	1734.0	1734.6	1735.3	1735.1	1735.4
1°	1734.8	1733.6	1734.2	1734.5	1734.3	1734.6
1.5°	1734.0	1732.8	1733.6	1733.4	1733.1	1733.7
2°	1733.1	1731.9	1732.2	1731.6	1731.4	1732.5
2.5°	1731.4	1730.8	1730.8	1729.8	1729.6	1731.0
3°	1729.9	1729.8	1729.3	1727.2	1726.6	1729.3
3.5°	1727.6	1727.9	1727.0	1724.1	1723.1	1726.6
4°	1725.0	1725.7	1724.4	1720.5	1719.3	1723.5
4.5°	1721.5	1723.1	1721.4	1716.5	1715.0	1719.7
5°	1717.9	1719.9	1718.0	1711.9	1710.1	1715.6
5.5°	1714.1	1716.4	1714.2	1707.4	1705.1	1710.9
6°	1709.7	1712.2	1710.1	1702.6	1699.6	1706.0
6.5°	1704.8	1707.8	1705.4	1697.8	1694.6	1700.4
7°	1699.6	1702.2	1700.4	1692.6	1688.8	1694.4
7.5°	1694.0	1696.2	1694.3	1687.4	1683.3	1687.9
8°	1687.6	1689.2	1687.7	1681.0	1677.2	1681.3
8.5°	1680.9	1681.3	1680.1	1674.8	1670.8	1673.7
9°	1672.8	1671.9	1671.6	1667.1	1663.6	1665.6
9.5°	1663.9	1661.5	1661.7	1658.9	1655.7	1656.6
10°	1653.6	1649.2	1650.2	1648.9	1647.0	1647.3
10.5°	1641.7	1635.6	1637.0	1638.2	1637.3	1637.0
11°	1628.4	1620.2	1622.3	1625.4	1626.2	1625.4
11.5°	1612.7	1603.0	1605.7	1610.9	1613.5	1612.7
12°	1596.1	1584.6	1588.1	1594.5	1598.7	1598.6
12.5°	1578.3	1566.3	1569.6	1577.5	1582.9	1583.9
13°	1560.2	1546.9	1550.4	1559.4	1566.9	1568.6
13.5°	1541.4	1528.2	1531.2	1540.8	1549.8	1552.6
14°	1522.3	1508.2	1511.7	1521.8	1531.8	1535.9
14.5°	1502.7	1488.5	1492.1	1503.0	1513.7	1519.2
15°	1483.2	1468.3	1472.1	1483.3	1495.3	1502.0
15.5°	1464.2	1449.0	1452.8	1464.8	1476.3	1484.2
16°	1445.3	1429.9	1434.1	1445.5	1457.5	1466.6
16.5°	1426.2	1411.7	1415.4	1427.1	1439.7	1449.0
17°	1407.9	1392.7	1396.5	1408.8	1421.0	1431.1
17.5°	1389.8	1374.0	1378.6	1390.2	1403.0	1412.6
18°	1371.7	1355.3	1359.8	1371.8	1384.2	1394.2
18.5°	1353.0	1336.8	1341.3	1353.8	1365.9	1376.0
19°	1335.5	1318.5	1323.6	1335.6	1347.2	1357.9
19.5°	1318.3	1299.8	1305.7	1317.8	1329.2	1339.8
20°	1301.2	1282.2	1288.4	1299.9	1310.7	1321.5
20.5°	1284.1	1263.9	1270.4	1282.6	1292.7	1303.4
21°	1267.0	1246.6	1252.8	1264.4	1274.4	1285.1
21.5°	1249.8	1228.4	1235.1	1246.5	1255.9	1267.0
22°	1232.2	1210.7	1217.4	1228.3	1237.9	1248.0

TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1214.1	1192.3	1198.8	1210.1	1218.6	1228.8
23°	1194.2	1172.6	1178.8	1190.5	1198.2	1208.1
23.5°	1172.7	1151.4	1157.9	1169.6	1177.8	1187.4
24°	1150.9	1128.4	1135.6	1147.3	1155.6	1165.5
24.5°	1128.3	1103.3	1112.5	1123.4	1132.2	1143.3
25°	1104.6	1079.6	1088.4	1098.7	1107.7	1120.1
25.5°	1079.8	1055.4	1063.9	1072.9	1083.3	1097.4
26°	1055.0	1031.4	1039.0	1046.5	1058.1	1074.3
26.5°	1029.2	1006.3	1013.7	1019.9	1032.2	1051.9
27°	1002.6	982.6	988.2	992.9	1005.2	1027.7
27.5°	975.8	958.4	961.8	966.0	978.9	1003.9
28°	948.2	933.3	935.4	939.4	953.9	979.2
28.5°	921.1	908.2	909.5	913.0	928.8	954.4
29°	894.7	882.7	883.6	887.4	904.2	928.3
29.5°	868.8	856.3	857.5	862.0	880.0	902.9
30°	842.9	829.6	830.8	837.2	856.2	875.8
30.5°	817.0	801.9	804.2	812.1	831.7	849.6
31°	791.8	775.5	777.7	787.0	807.3	823.4
31.5°	766.5	748.3	751.6	762.0	782.4	797.6
32°	741.6	722.0	725.8	736.8	756.7	771.4
32.5°	716.9	696.1	700.3	711.7	731.1	746.2
33°	692.1	670.7	675.6	686.5	705.3	720.8
33.5°	667.0	644.7	651.4	660.7	679.1	695.4
34°	642.5	616.1	628.6	636.2	652.9	670.3
34.5°	617.9	593.2	604.8	612.8	627.8	644.7
35°	594.3	570.3	581.0	589.5	603.9	615.1
35.5°	570.4	547.3	557.2	566.1	580.1	591.5
36°	547.7	524.4	533.5	542.8	556.3	567.9
36.5°	524.7	502.2	509.7	519.4	532.5	544.3
37°	502.1	480.3	487.1	497.5	508.6	520.8
37.5°	479.8	458.9	464.9	475.7	486.5	496.4
38°	458.1	438.6	442.9	454.8	464.6	472.5
38.5°	437.1	418.5	421.6	433.5	442.5	449.3
39°	416.6	399.1	402.2	412.8	421.2	427.1
39.5°	396.2	379.4	382.5	391.8	399.8	405.0
40°	375.9	360.2	363.3	371.6	378.5	383.7
40.5°	356.8	342.0	344.7	351.5	357.2	363.4
41°	338.0	324.4	327.0	332.0	337.2	343.6
41.5°	319.8	307.3	309.5	313.3	317.1	324.1
42°	302.0	290.9	292.5	295.1	298.3	305.9
42.5°	284.5	275.1	276.1	276.8	279.7	288.2
43°	267.9	259.9	260.0	260.3	262.5	270.9
43.5°	251.8	244.9	244.6	243.2	245.4	253.9
44°	236.6	230.5	229.8	227.0	229.1	238.2
44.5°	221.8	216.5	215.7	211.1	213.2	222.7

TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	207.4	203.1	201.8	196.3	198.0	207.8
45.5°	193.7	190.2	188.8	181.8	183.8	193.4
46°	180.6	177.9	176.3	168.2	170.1	180.2
46.5°	168.3	165.9	164.3	155.2	156.9	167.0
47°	156.9	154.3	152.7	143.3	144.6	154.7
47.5°	145.6	143.3	141.5	132.2	133.2	142.7
48°	134.3	132.6	130.9	121.8	122.7	131.8
48.5°	123.1	122.7	120.9	112.2	112.9	121.0
49°	113.1	113.1	111.3	103.4	103.4	111.1
49.5°	103.7	103.8	102.1	95.3	95.3	101.6
50°	95.1	95.0	93.3	87.6	87.3	92.4
50.5°	86.7	86.5	85.1	80.3	79.9	83.7
51°	78.9	78.6	77.4	73.5	72.8	75.8
51.5°	71.6	70.9	70.1	66.9	66.3	68.0
52°	64.7	63.8	63.0	60.5	60.6	60.9
52.5°	58.0	57.7	57.2	54.9	54.7	54.7
53°	51.7	51.7	51.3	49.3	48.9	48.6
53.5°	45.9	45.7	45.5	43.6	43.1	42.4
54°	40.2	39.6	39.6	38.0	37.2	36.3
54.5°	34.9	33.6	33.8	33.2	32.3	31.3
55°	30.3	29.0	29.3	28.8	27.8	26.9
55.5°	26.2	25.0	25.3	24.8	24.0	22.9
56°	22.2	20.9	21.2	20.9	20.1	19.0
56.5°	19.5	17.2	17.6	17.1	16.4	15.4
57°	16.9	14.2	14.4	14.0	13.3	12.4
57.5°	14.3	11.8	12.1	11.7	11.0	10.3
58°	11.6	10.1	10.3	10.0	9.3	8.7
58.5°	9.0	8.7	9.0	8.7	8.1	7.5
59°	7.8	7.7	7.9	7.6	7.0	6.6
59.5°	6.9	6.8	7.0	6.8	6.2	6.0
60°	6.2	6.3	6.3	6.3	5.7	5.5
60.5°	5.6	5.8	5.8	5.8	5.3	4.9
61°	5.0	5.3	5.4	5.3	4.8	4.4
61.5°	4.6	4.8	4.9	4.8	4.3	4.0
62°	4.2	4.3	4.5	4.3	3.9	3.6
62.5°	3.8	4.0	4.1	3.9	3.6	3.3
63°	3.5	3.7	3.8	3.6	3.3	3.1
63.5°	3.2	3.4	3.5	3.3	3.0	2.8
64°	3.0	3.1	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	2.2
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	2.2	2.1	1.9	1.8
67°	1.9	2.0	2.1	2.0	1.8	1.6

TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.8	1.9	1.9	1.8	1.6	1.5
68°	1.7	1.7	1.8	1.7	1.5	1.4
68.5°	1.5	1.6	1.7	1.6	1.4	1.3
69°	1.4	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°	1.2	1.3	1.4	1.3	1.1	1.0
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	1.0	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	0.6
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	0.6	0.7	0.6	0.5	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	0.1	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	0.0
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: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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°	0.3	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°	0.4	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°	0.5	0.3	0.3	0.3	0.3	0.3
145.5°	0.6	0.4	0.4	0.4	0.4	0.3
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°	0.6	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°	0.7	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	0.4	0.4	0.4
155°	0.8	0.4	0.4	0.5	0.5	0.5
155.5°	0.8	0.4	0.4	0.5	0.5	0.5
156°	0.8	0.4	0.4	0.5	0.5	0.5
156.5°	0.8	0.4	0.5	0.5	0.5	0.5
157°	0.8	0.4	0.5	0.5	0.5	0.5

TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.8	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°	0.8	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	0.5	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	0.6	0.6	0.7	0.6	0.6



TEST NUMBER: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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: P1590458

CATALOG NUMBER: HCDLS1525CSD4TRC-LO-3000K

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	4.1	5.2	4.5	5.5	5.8	5.2	6.2	5.5	6.5	6.8
	3H	4.1	5.0	4.5	5.3	5.7	5.1	6.0	5.5	6.4	6.7
	4H	4.0	4.8	4.4	5.2	5.6	5.0	5.9	5.4	6.2	6.6
	6H	3.9	4.7	4.3	5.1	5.4	4.9	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	4.2	4.9	5.3	4.8	5.5	5.3	5.9	6.3
4H	2H	4.0	4.8	4.4	5.2	5.6	5.0	5.8	5.4	6.2	6.6
	3H	3.9	4.6	4.3	5.0	5.4	4.9	5.6	5.3	6.0	6.4
	4H	3.8	4.4	4.3	4.9	5.3	4.8	5.4	5.3	5.9	6.3
	6H	3.7	4.3	4.2	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	4.0	4.1	4.5	5.0	4.6	5.0	5.1	5.5	6.0
8H	4H	3.7	4.2	4.2	4.6	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	5.9
	8H	3.5	3.8	4.0	4.4	4.9	4.5	4.8	5.0	5.4	5.9
	12H	3.4	3.7	4.0	4.2	4.8	4.4	4.7	5.0	5.2	5.8
12H	4H	3.6	4.0	4.1	4.5	5.0	4.6	5.0	5.1	5.5	6.0
	6H	3.5	3.9	4.0	4.3	4.9	4.5	4.8	5.0	5.3	5.9
	8H	3.4	3.7	4.0	4.2	4.8	4.4	4.7	5.0	5.2	5.8

(END OF REPORT)