

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: P1590473

Luminaire Tested: HCDLS1525CSD4TRH-LO-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590473
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: HCDLS1525CSD4TRH-LO-3000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 1500 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

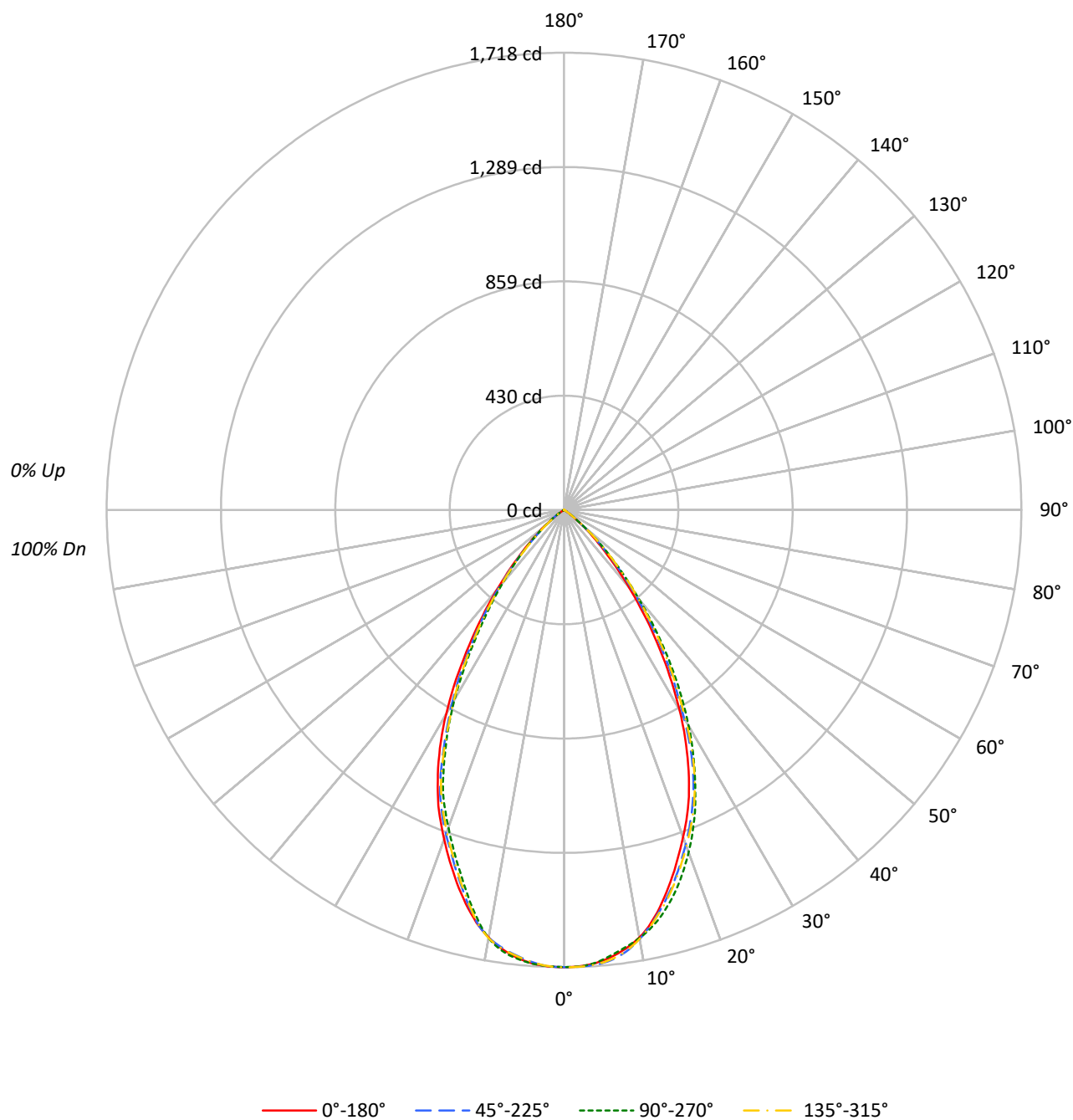
Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	211895	211895	211895	211895
5°	210315	209869	210563	210835
10°	204280	204543	204243	204506
15°	189898	195236	190549	185646
20°	171743	179645	172858	166637
25°	150945	158866	152755	145474
30°	123499	133412	126162	116990
35°	91702	103221	93644	85016
40°	61170	71056	63618	57418
45°	35882	43034	37958	35079
50°	17558	20129	18805	18057
55°	5720	6086	6107	6172
60°	1332	1480	1381	1529
65°	642	759	671	788
70°	361	469	397	469
75°	191	286	238	286
80°	71	142	142	142
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 43034 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	9.5
10°-20°	416.0	24.8
20°-30°	508.2	30.3
30°-40°	387.2	23.0
40°-50°	172.6	10.3
50°-60°	31.3	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°	1084.5	64.6
0°-40°	1471.7	87.6
0°-60°	1675.6	99.7
0°-90°	1678.9	99.9
90°-120°	0.0	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.1
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1718	1718	1718	1718	1718	
5°	1699	1695	1701	1703	1699	160
15°	1487	1529	1492	1454	1487	415
25°	1109	1167	1122	1069	1109	504
35°	609	686	622	565	609	380
45°	206	247	218	201	206	164
55°	27	28	28	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°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
0.5°	1718.2	1717.6	1717.8	1718.2	1717.6	1717.8	1718.5	1718.2	1718.2	1717.6	1717.6
1°	1717.5	1717.5	1717.8	1718.2	1717.6	1717.8	1718.1	1718.1	1717.6	1717.0	1717.0
1.5°	1716.6	1716.9	1717.5	1717.6	1717.0	1717.5	1717.6	1717.5	1717.0	1716.1	1716.1
2°	1715.4	1716.0	1717.0	1716.9	1716.0	1716.4	1717.0	1716.9	1715.8	1714.5	1714.8
2.5°	1713.9	1715.4	1716.3	1715.5	1714.5	1714.9	1716.4	1716.0	1714.3	1712.6	1712.9
3°	1712.2	1714.5	1715.2	1713.7	1712.2	1713.1	1714.9	1714.9	1712.6	1710.1	1710.4
3.5°	1709.5	1713.4	1714.0	1711.4	1709.2	1710.7	1713.2	1713.4	1710.7	1706.9	1707.2
4°	1706.5	1711.9	1712.8	1708.4	1705.1	1707.4	1711.6	1711.9	1707.8	1703.0	1703.4
4.5°	1702.7	1709.8	1710.8	1704.6	1700.3	1703.3	1709.0	1709.8	1704.6	1698.5	1699.2
5°	1698.6	1707.2	1707.8	1700.0	1695.0	1698.3	1705.9	1707.4	1700.6	1693.5	1694.5
5.5°	1693.9	1703.7	1704.5	1695.1	1689.3	1693.2	1702.1	1704.0	1696.4	1688.1	1689.7
6°	1689.1	1699.5	1700.4	1689.6	1683.2	1687.5	1697.9	1700.1	1691.2	1682.5	1684.4
6.5°	1683.5	1694.7	1695.7	1684.0	1677.0	1681.6	1692.9	1695.4	1685.5	1676.7	1679.2
7°	1677.6	1688.8	1689.9	1677.9	1671.0	1675.5	1687.1	1689.9	1679.3	1670.6	1673.7
7.5°	1671.2	1682.2	1683.2	1671.5	1665.0	1669.0	1680.8	1683.4	1673.1	1664.4	1667.8
8°	1664.7	1674.9	1675.7	1664.4	1658.8	1662.4	1673.6	1675.7	1665.7	1658.0	1661.8
8.5°	1657.1	1666.6	1667.4	1657.0	1652.6	1655.9	1665.4	1667.7	1657.9	1650.9	1655.2
9°	1649.1	1657.4	1658.0	1649.3	1646.3	1648.5	1656.4	1658.3	1649.6	1643.7	1647.9
9.5°	1640.2	1647.3	1648.1	1641.0	1639.9	1640.8	1646.9	1648.1	1640.8	1635.7	1640.1
10°	1631.0	1636.6	1637.2	1632.1	1633.1	1632.5	1636.5	1637.2	1630.7	1627.3	1631.2
10.5°	1620.8	1625.0	1625.6	1622.6	1625.7	1624.1	1625.6	1625.3	1620.0	1617.1	1620.6
11°	1609.3	1612.8	1613.4	1612.5	1617.6	1614.7	1614.0	1613.4	1608.8	1606.6	1609.0
11.5°	1596.8	1599.5	1601.0	1601.9	1608.8	1605.1	1602.1	1600.7	1596.8	1594.8	1596.0
12°	1582.7	1585.8	1588.0	1590.1	1599.6	1594.7	1590.0	1587.6	1584.0	1581.1	1580.9
12.5°	1568.3	1571.6	1574.1	1578.8	1589.1	1583.2	1577.3	1574.0	1569.5	1566.3	1564.0
13°	1553.0	1557.3	1560.6	1566.5	1578.5	1571.9	1564.2	1559.5	1555.7	1550.9	1547.6
13.5°	1537.2	1542.0	1546.5	1554.1	1566.9	1560.3	1550.8	1545.5	1540.5	1534.6	1530.2
14°	1520.7	1526.5	1532.4	1540.7	1554.5	1547.4	1537.0	1530.4	1525.1	1517.9	1512.1
14.5°	1504.2	1510.8	1517.9	1527.4	1541.9	1534.5	1522.6	1515.5	1508.5	1500.5	1493.9
15°	1487.1	1494.8	1502.7	1513.3	1528.9	1520.6	1508.7	1500.1	1492.2	1482.9	1475.0
15.5°	1469.5	1478.4	1487.5	1498.7	1515.3	1506.6	1493.5	1484.4	1475.6	1465.2	1456.2
16°	1452.1	1461.6	1471.7	1483.1	1500.8	1491.8	1478.2	1467.9	1458.4	1446.7	1437.6
16.5°	1434.7	1445.1	1455.8	1468.0	1486.0	1476.6	1462.0	1451.3	1441.0	1428.6	1419.3
17°	1416.9	1428.2	1439.5	1452.2	1470.7	1460.9	1445.8	1434.5	1423.3	1410.5	1400.9
17.5°	1398.6	1411.0	1422.5	1435.9	1454.9	1444.9	1429.5	1416.9	1405.6	1392.4	1382.5
18°	1380.4	1393.4	1405.5	1418.9	1438.1	1428.6	1412.4	1399.7	1388.1	1374.4	1364.4
18.5°	1362.4	1375.6	1388.4	1401.9	1421.4	1411.6	1395.4	1382.7	1370.3	1356.3	1346.6
19°	1344.4	1357.8	1371.6	1384.9	1403.9	1394.5	1378.7	1365.3	1351.9	1338.7	1328.7
19.5°	1326.6	1340.2	1354.4	1367.5	1386.8	1377.2	1361.7	1347.4	1334.2	1321.2	1312.8
20°	1308.4	1322.1	1337.1	1349.9	1368.6	1360.0	1344.8	1330.4	1316.9	1303.7	1295.6
20.5°	1290.5	1304.7	1319.6	1332.3	1350.8	1342.4	1327.3	1313.7	1298.7	1286.2	1278.4
21°	1272.4	1286.4	1301.8	1314.1	1332.5	1324.1	1310.0	1296.2	1280.4	1268.6	1261.3
21.5°	1254.5	1268.5	1284.3	1295.8	1313.0	1305.2	1292.6	1278.7	1262.2	1251.1	1244.1
22°	1235.6	1249.9	1265.9	1276.5	1293.5	1286.2	1275.3	1261.2	1244.0	1233.6	1225.2

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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°	1216.7	1231.8	1247.6	1258.0	1274.0	1267.2	1257.9	1243.7	1227.3	1214.2	1206.5
23°	1196.1	1212.3	1229.0	1237.2	1254.5	1248.3	1240.6	1224.3	1207.5	1193.6	1187.0
23.5°	1175.6	1193.0	1210.1	1217.8	1235.0	1229.3	1220.9	1205.3	1186.9	1172.9	1166.2
24°	1153.9	1172.9	1190.2	1196.2	1212.3	1208.0	1201.7	1185.7	1165.7	1151.7	1143.8
24.5°	1131.9	1152.0	1170.9	1175.5	1190.2	1186.8	1181.9	1165.3	1144.2	1129.1	1120.5
25°	1109.1	1130.4	1150.3	1153.0	1167.3	1165.0	1161.5	1144.7	1122.4	1106.1	1096.2
25.5°	1086.5	1108.8	1129.4	1131.6	1145.0	1142.9	1140.3	1123.7	1100.2	1082.5	1070.9
26°	1063.7	1086.2	1107.5	1108.9	1122.5	1120.6	1118.9	1102.0	1078.0	1058.8	1044.3
26.5°	1041.5	1063.5	1085.2	1086.1	1099.6	1097.8	1096.3	1079.0	1055.0	1034.5	1017.6
27°	1017.5	1040.3	1060.9	1063.1	1076.7	1074.7	1073.0	1055.9	1032.2	1009.7	991.3
27.5°	993.9	1017.0	1035.8	1039.7	1054.5	1052.0	1049.1	1032.3	1009.4	984.3	965.8
28°	969.5	993.2	1009.8	1016.0	1031.7	1029.0	1023.2	1007.8	985.6	959.3	940.6
28.5°	944.9	967.6	982.7	991.5	1008.7	1005.0	997.6	982.8	961.4	933.8	915.1
29°	919.1	943.1	955.4	967.1	985.5	981.6	970.8	956.8	936.7	908.9	891.1
29.5°	893.9	917.5	927.0	942.5	961.7	957.3	943.5	930.0	911.4	884.2	866.8
30°	867.1	890.8	899.4	916.9	936.7	932.6	915.0	902.3	885.8	859.5	842.5
30.5°	841.2	863.0	872.0	890.3	911.9	906.8	887.1	874.4	859.2	834.5	817.8
31°	815.3	836.2	845.5	864.0	886.7	881.3	860.1	846.5	833.3	810.3	792.7
31.5°	789.7	807.9	819.6	837.4	861.6	855.3	833.8	818.4	806.4	786.0	767.6
32°	763.8	780.5	794.5	810.6	836.2	828.8	808.4	791.5	780.9	761.9	742.1
32.5°	738.8	752.5	769.5	784.2	811.7	802.6	783.1	765.2	753.4	737.3	716.8
33°	713.7	726.8	745.5	757.9	787.0	775.9	759.3	739.4	726.5	713.4	691.2
33.5°	688.5	699.6	721.1	731.6	762.0	749.5	734.9	714.3	699.6	688.5	665.4
34°	663.6	674.9	696.9	706.8	736.4	723.9	711.0	689.8	673.7	663.7	641.1
34.5°	638.4	649.0	671.9	682.2	710.9	698.6	687.0	665.5	647.1	638.6	616.4
35°	609.0	624.3	647.1	658.2	685.5	673.8	662.8	642.0	621.9	613.0	593.3
35.5°	585.6	600.4	623.1	634.9	660.2	649.5	638.3	617.7	597.2	587.9	570.8
36°	562.3	576.6	599.4	612.5	634.3	625.6	614.1	593.3	573.6	563.4	548.7
36.5°	539.0	552.7	575.8	589.2	609.0	601.4	589.9	569.1	549.1	539.1	526.5
37°	515.6	528.9	552.2	565.9	583.7	578.0	565.9	545.3	525.8	515.5	505.2
37.5°	491.5	505.1	528.5	542.7	558.9	554.8	542.2	521.0	503.1	491.9	483.5
38°	467.8	483.4	504.9	519.4	534.7	531.9	520.0	497.9	480.7	469.6	462.1
38.5°	444.8	461.3	483.1	496.4	510.3	508.8	497.6	475.5	458.5	447.7	440.4
39°	422.9	440.3	462.2	474.3	486.9	487.2	476.5	453.5	437.2	426.4	419.5
39.5°	401.0	419.0	440.6	452.1	463.9	464.5	455.4	432.5	416.0	404.7	398.7
40°	379.9	398.8	419.7	430.3	441.3	443.1	434.6	412.5	395.1	383.7	378.3
40.5°	359.8	379.3	399.3	409.0	419.6	420.5	413.8	392.3	374.4	363.2	358.2
41°	340.2	359.6	378.8	388.3	397.9	399.5	393.4	372.9	354.4	343.4	339.0
41.5°	320.9	340.4	358.2	368.0	377.4	378.3	373.1	354.0	335.1	323.9	320.6
42°	302.8	322.6	339.1	348.6	357.1	358.2	352.9	335.8	316.4	304.6	302.8
42.5°	285.3	304.5	319.7	329.2	337.7	337.8	332.8	317.4	298.5	286.5	284.7
43°	268.2	286.8	301.1	309.5	318.5	318.5	313.5	299.8	281.3	269.0	267.4
43.5°	251.4	268.9	282.6	290.5	299.6	299.1	294.6	282.3	264.0	252.1	249.9
44°	235.8	252.1	265.8	271.9	281.2	281.1	276.5	265.5	248.1	236.2	233.9
44.5°	220.5	235.8	248.8	253.8	263.5	262.8	258.7	248.6	232.5	220.8	217.2

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CATALOG NUMBER: HCDLS1525CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	205.7	220.3	232.6	236.2	246.7	245.6	241.8	232.7	217.6	205.9	201.6
45.5°	191.5	204.8	217.0	218.9	229.7	228.2	225.4	217.1	203.1	191.7	186.3
46°	178.4	190.4	201.5	202.7	213.7	212.1	209.4	202.0	188.9	178.2	172.7
46.5°	165.3	176.1	186.4	186.9	197.8	195.9	194.3	187.2	175.8	166.5	160.4
47°	153.2	163.2	171.9	172.0	183.2	180.6	179.2	173.1	164.1	154.7	148.2
47.5°	141.3	150.1	157.7	157.6	169.9	167.4	166.0	160.7	152.4	143.0	136.0
48°	130.5	138.3	144.3	144.2	156.5	154.2	152.9	148.3	140.8	131.2	123.8
48.5°	119.8	126.3	131.4	131.4	143.1	140.9	139.7	135.9	129.1	119.5	113.9
49°	110.0	115.6	119.2	119.6	129.7	127.7	126.6	123.5	117.5	109.7	104.8
49.5°	100.6	105.3	107.4	108.4	116.5	114.5	113.5	111.2	107.5	100.4	96.4
50°	91.5	95.5	96.5	97.6	104.9	103.5	102.5	100.9	98.0	91.7	88.6
50.5°	82.8	85.8	86.5	87.5	94.0	93.1	92.1	91.0	89.0	83.6	81.2
51°	75.0	77.3	77.3	78.2	84.1	83.6	82.6	81.7	80.3	76.0	74.2
51.5°	67.3	69.0	68.6	69.5	74.7	74.5	73.8	73.1	72.4	68.9	67.7
52°	60.3	61.5	60.9	61.6	66.0	66.1	65.5	65.1	64.6	62.1	61.4
52.5°	54.2	55.3	54.7	55.3	58.0	58.3	57.8	57.5	57.3	55.6	55.3
53°	48.1	49.1	48.5	48.9	50.7	51.1	50.8	50.5	50.4	49.3	49.4
53.5°	42.0	42.9	42.3	42.6	43.9	44.4	44.2	43.9	44.2	43.5	43.8
54°	35.9	36.6	36.1	36.3	37.9	38.4	38.4	37.9	38.2	38.0	38.5
54.5°	31.0	30.4	30.0	30.0	32.7	33.2	33.2	32.6	33.0	33.0	33.6
55°	26.6	26.1	25.7	25.8	28.3	28.7	28.7	28.2	28.4	28.4	29.1
55.5°	22.7	22.1	21.7	21.7	24.2	24.6	24.6	24.1	24.2	24.4	25.0
56°	18.8	18.1	17.8	17.7	20.2	20.4	20.4	21.5	21.2	21.7	21.0
56.5°	15.2	14.6	14.4	14.4	17.8	18.0	18.0	18.8	18.3	19.0	18.4
57°	12.3	11.9	11.6	11.8	15.5	15.7	15.7	16.2	15.3	16.2	15.9
57.5°	10.2	9.8	9.7	9.9	13.1	13.4	13.4	13.6	12.3	13.5	13.4
58°	8.6	8.3	8.2	8.4	10.8	11.1	11.1	11.0	9.4	10.8	10.9
58.5°	7.4	7.2	7.1	7.3	8.5	8.8	8.7	8.3	8.1	8.1	8.5
59°	6.5	6.3	6.3	6.5	7.5	7.8	7.7	7.3	7.1	7.0	7.3
59.5°	6.0	5.8	5.8	5.9	6.7	6.9	6.8	6.5	6.3	6.2	6.4
60°	5.4	5.3	5.2	5.4	6.0	6.2	6.1	5.8	5.6	5.5	5.7
60.5°	4.9	4.7	4.7	4.9	5.4	5.7	5.5	5.2	5.0	5.0	5.1
61°	4.3	4.2	4.2	4.4	4.9	5.1	5.0	4.7	4.5	4.5	4.6
61.5°	3.9	3.8	3.9	4.0	4.5	4.7	4.6	4.3	4.1	4.1	4.2
62°	3.6	3.5	3.5	3.7	4.1	4.3	4.2	4.0	3.8	3.7	3.9
62.5°	3.3	3.2	3.2	3.4	3.8	4.0	3.9	3.6	3.5	3.4	3.5
63°	3.0	3.0	3.0	3.1	3.5	3.6	3.6	3.3	3.2	3.2	3.3
63.5°	2.8	2.7	2.8	2.9	3.2	3.4	3.3	3.1	2.9	2.9	3.0
64°	2.6	2.5	2.5	2.7	3.0	3.1	3.1	2.9	2.7	2.7	2.8
64.5°	2.4	2.3	2.4	2.5	2.8	2.9	2.8	2.6	2.5	2.5	2.6
65°	2.2	2.2	2.2	2.3	2.6	2.7	2.6	2.5	2.3	2.3	2.4
65.5°	2.0	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	2.2	2.3	2.3	2.1	2.0	2.0	2.1
66.5°	1.8	1.7	1.7	1.8	2.1	2.2	2.1	2.0	1.9	1.9	1.9
67°	1.6	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.7	1.7	1.8

TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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	1.8	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	1.5
68.5°	1.3	1.3	1.3	1.4	1.6	1.6	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	1.2
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	0.9	1.0	1.0	1.2	1.2	1.2	1.1	1.0	1.0	1.1
71°	0.9	0.9	0.9	0.9	1.1	1.1	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	0.9	0.9	0.9	0.9
72°	0.8	0.7	0.8	0.8	0.9	1.0	0.9	0.9	0.8	0.8	0.9
72.5°	0.7	0.7	0.7	0.7	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	0.8	0.8	0.7	0.7	0.7	0.7
73.5°	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.6	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	0.5	0.5	0.6
75°	0.4	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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.1
130°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
130.5°	0.1	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	0.1	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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.2	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°	0.2	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	0.3	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	0.4	0.5	0.5
142.5°	0.3	0.3	0.3	0.3	0.4	0.4	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	0.5	0.6	0.6
146°	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.6
146.5°	0.4	0.3	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	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
147.5°	0.4	0.4	0.3	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	0.6	0.6
149.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	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	0.7	0.8	0.7
153.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	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°	0.4	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	0.4	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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.8	0.8
158°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.9	0.8
158.5°	0.5	0.5	0.5	0.4	0.8	0.8	0.8	0.9	0.9	0.9	0.9
159°	0.5	0.5	0.5	0.4	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	0.8	0.9	0.9	0.9	0.9	0.9	0.9
170.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.9	0.9	0.9	0.9	0.8
171°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	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	0.7	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	0.7
176°	0.5	0.5	0.5	0.5	0.7	0.7	0.8	0.8	0.7	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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
0.5°	1718.1	1716.9	1717.5	1718.1	1717.9	1718.2
1°	1717.6	1716.4	1717.0	1717.3	1717.2	1717.5
1.5°	1716.9	1715.7	1716.4	1716.3	1716.0	1716.6
2°	1716.0	1714.8	1715.1	1714.5	1714.3	1715.4
2.5°	1714.3	1713.7	1713.7	1712.6	1712.5	1713.9
3°	1712.8	1712.6	1712.2	1710.1	1709.5	1712.2
3.5°	1710.5	1710.8	1709.9	1707.1	1706.0	1709.5
4°	1708.0	1708.6	1707.4	1703.4	1702.2	1706.5
4.5°	1704.5	1706.0	1704.3	1699.5	1698.0	1702.7
5°	1700.9	1702.8	1701.0	1695.0	1693.2	1698.6
5.5°	1697.1	1699.4	1697.3	1690.5	1688.2	1693.9
6°	1692.7	1695.3	1693.2	1685.8	1682.8	1689.1
6.5°	1687.9	1690.9	1688.5	1681.0	1677.8	1683.5
7°	1682.8	1685.3	1683.5	1675.8	1672.1	1677.6
7.5°	1677.2	1679.5	1677.5	1670.7	1666.6	1671.2
8°	1670.9	1672.5	1671.0	1664.4	1660.6	1664.7
8.5°	1664.2	1664.7	1663.5	1658.2	1654.3	1657.1
9°	1656.2	1655.3	1655.0	1650.6	1647.2	1649.1
9.5°	1647.5	1645.1	1645.2	1642.5	1639.3	1640.2
10°	1637.2	1632.8	1633.9	1632.5	1630.7	1631.0
10.5°	1625.4	1619.4	1620.8	1622.0	1621.1	1620.8
11°	1612.3	1604.2	1606.3	1609.3	1610.1	1609.3
11.5°	1596.8	1587.1	1589.8	1595.0	1597.5	1596.8
12°	1580.3	1568.9	1572.3	1578.7	1582.9	1582.7
12.5°	1562.7	1550.8	1554.1	1561.9	1567.2	1568.3
13°	1544.7	1531.6	1535.1	1544.0	1551.4	1553.0
13.5°	1526.2	1513.0	1516.1	1525.6	1534.5	1537.2
14°	1507.3	1493.2	1496.8	1506.8	1516.7	1520.7
14.5°	1487.9	1473.8	1477.4	1488.2	1498.7	1504.2
15°	1468.6	1453.8	1457.5	1468.6	1480.5	1487.1
15.5°	1449.7	1434.7	1438.5	1450.3	1461.7	1469.5
16°	1431.0	1415.8	1419.9	1431.2	1443.1	1452.1
16.5°	1412.1	1397.7	1401.4	1413.0	1425.4	1434.7
17°	1394.0	1378.9	1382.7	1394.8	1407.0	1416.9
17.5°	1376.0	1360.4	1364.9	1376.4	1389.1	1398.6
18°	1358.1	1341.9	1346.4	1358.2	1370.5	1380.4
18.5°	1339.6	1323.6	1328.1	1340.4	1352.3	1362.4
19°	1322.3	1305.4	1310.5	1322.4	1333.9	1344.4
19.5°	1305.3	1286.9	1292.8	1304.8	1316.0	1326.6
20°	1288.3	1269.5	1275.6	1287.0	1297.7	1308.4
20.5°	1271.4	1251.4	1257.8	1269.9	1279.9	1290.5
21°	1254.4	1234.2	1240.4	1251.9	1261.8	1272.4
21.5°	1237.5	1216.3	1222.9	1234.1	1243.5	1254.5
22°	1220.0	1198.7	1205.4	1216.1	1225.6	1235.6

TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1202.0	1180.5	1186.9	1198.1	1206.5	1216.7
23°	1182.3	1161.0	1167.1	1178.7	1186.3	1196.1
23.5°	1161.1	1140.0	1146.4	1158.0	1166.1	1175.6
24°	1139.5	1117.3	1124.4	1135.9	1144.1	1153.9
24.5°	1117.1	1092.4	1101.5	1112.2	1121.0	1131.9
25°	1093.7	1068.9	1077.6	1087.8	1096.8	1109.1
25.5°	1069.1	1044.9	1053.3	1062.3	1072.6	1086.5
26°	1044.5	1021.2	1028.7	1036.1	1047.6	1063.7
26.5°	1019.0	996.3	1003.7	1009.8	1022.0	1041.5
27°	992.7	972.9	978.4	983.1	995.3	1017.5
27.5°	966.1	948.9	952.2	956.4	969.2	993.9
28°	938.8	924.1	926.1	930.1	944.4	969.5
28.5°	911.9	899.2	900.5	904.0	919.6	944.9
29°	885.8	874.0	874.8	878.6	895.3	919.1
29.5°	860.2	847.8	849.1	853.5	871.3	893.9
30°	834.6	821.4	822.5	828.9	847.8	867.1
30.5°	808.9	794.0	796.2	804.1	823.4	841.2
31°	783.9	767.8	770.0	779.2	799.3	815.3
31.5°	758.9	740.9	744.1	754.5	774.7	789.7
32°	734.3	714.9	718.6	729.5	749.2	763.8
32.5°	709.8	689.2	693.4	704.6	723.9	738.8
33°	685.2	664.1	668.9	679.7	698.3	713.7
33.5°	660.4	638.3	645.0	654.1	672.4	688.5
34°	636.1	610.0	622.3	629.9	646.5	663.6
34.5°	611.8	587.3	598.8	606.7	621.5	638.4
35°	588.4	564.6	575.3	583.6	597.9	609.0
35.5°	564.7	541.9	551.7	560.5	574.4	585.6
36°	542.2	519.2	528.2	537.4	550.8	562.3
36.5°	519.5	497.2	504.7	514.3	527.2	539.0
37°	497.1	475.5	482.3	492.6	503.6	515.6
37.5°	475.1	454.4	460.3	471.0	481.7	491.5
38°	453.6	434.3	438.5	450.3	460.0	467.8
38.5°	432.8	414.3	417.4	429.2	438.1	444.8
39°	412.4	395.2	398.2	408.7	417.1	422.9
39.5°	392.3	375.6	378.7	387.9	395.8	401.0
40°	372.2	356.6	359.7	368.0	374.7	379.9
40.5°	353.2	338.6	341.3	348.0	353.6	359.8
41°	334.6	321.2	323.7	328.7	333.8	340.2
41.5°	316.6	304.3	306.4	310.2	314.0	320.9
42°	299.0	288.0	289.6	292.2	295.3	302.8
42.5°	281.7	272.4	273.3	274.0	276.9	285.3
43°	265.2	257.3	257.4	257.7	259.9	268.2
43.5°	249.4	242.5	242.2	240.8	242.9	251.4
44°	234.2	228.2	227.6	224.8	226.8	235.8
44.5°	219.6	214.4	213.6	209.1	211.1	220.5

TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	205.4	201.1	199.8	194.3	196.1	205.7
45.5°	191.8	188.3	187.0	180.0	181.9	191.5
46°	178.8	176.2	174.6	166.5	168.4	178.4
46.5°	166.6	164.2	162.7	153.7	155.4	165.3
47°	155.4	152.8	151.2	141.9	143.1	153.2
47.5°	144.2	141.8	140.1	130.9	131.9	141.3
48°	133.0	131.3	129.6	120.5	121.5	130.5
48.5°	121.8	121.5	119.7	111.1	111.8	119.8
49°	112.0	111.9	110.2	102.4	102.4	110.0
49.5°	102.6	102.8	101.1	94.4	94.3	100.6
50°	94.1	94.1	92.3	86.7	86.4	91.5
50.5°	85.8	85.7	84.3	79.5	79.2	82.8
51°	78.2	77.8	76.6	72.7	72.1	75.0
51.5°	70.9	70.2	69.4	66.3	65.7	67.3
52°	64.1	63.1	62.4	59.9	60.0	60.3
52.5°	57.4	57.1	56.6	54.3	54.2	54.2
53°	51.2	51.2	50.8	48.8	48.4	48.1
53.5°	45.4	45.2	45.0	43.2	42.6	42.0
54°	39.8	39.2	39.2	37.6	36.8	35.9
54.5°	34.6	33.3	33.4	32.8	31.9	31.0
55°	30.0	28.7	29.0	28.5	27.5	26.6
55.5°	25.9	24.8	25.0	24.5	23.8	22.7
56°	21.9	20.7	21.0	20.6	19.9	18.8
56.5°	19.3	17.0	17.4	17.0	16.2	15.2
57°	16.7	14.0	14.3	13.9	13.1	12.3
57.5°	14.1	11.7	11.9	11.6	10.9	10.2
58°	11.5	10.0	10.2	9.9	9.2	8.6
58.5°	8.9	8.6	8.9	8.6	8.0	7.4
59°	7.7	7.6	7.8	7.5	7.0	6.5
59.5°	6.8	6.7	6.9	6.7	6.2	6.0
60°	6.1	6.2	6.2	6.2	5.7	5.4
60.5°	5.5	5.7	5.8	5.7	5.2	4.9
61°	5.0	5.2	5.3	5.2	4.7	4.3
61.5°	4.5	4.8	4.9	4.7	4.2	3.9
62°	4.1	4.3	4.4	4.2	3.9	3.6
62.5°	3.8	3.9	4.1	3.9	3.5	3.3
63°	3.5	3.6	3.8	3.6	3.3	3.0
63.5°	3.2	3.3	3.5	3.3	3.0	2.8
64°	3.0	3.1	3.2	3.1	2.8	2.6
64.5°	2.8	2.9	3.0	2.8	2.6	2.4
65°	2.6	2.7	2.8	2.6	2.4	2.2
65.5°	2.4	2.5	2.6	2.4	2.2	2.0
66°	2.2	2.3	2.4	2.3	2.0	1.9
66.5°	2.0	2.1	2.2	2.1	1.9	1.8
67°	1.9	2.0	2.1	2.0	1.8	1.6

TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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°	1.6	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	1.4	1.4	1.2	1.1
70°	1.2	1.3	1.3	1.3	1.1	1.0
70.5°	1.1	1.2	1.2	1.2	1.0	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°	0.8	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	0.6	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	0.4
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	0.4	0.5	0.4	0.4	0.3
77°	0.4	0.4	0.4	0.4	0.3	0.3
77.5°	0.3	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	0.2	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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.1	0.1	0.1
130.5°	0.2	0.2	0.2	0.2	0.2	0.1
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°	0.2	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: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.2	0.2	0.2
138°	0.3	0.3	0.3	0.3	0.3	0.2
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	0.3	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	0.4	0.4	0.4
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	0.4	0.5	0.5	0.5
157°	0.8	0.4	0.5	0.5	0.5	0.5

TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.8	0.4	0.5	0.5	0.5	0.5
158°	0.8	0.4	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°	0.8	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°	0.7	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°	0.6	0.6	0.6	0.6	0.6	0.6



TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.6	0.6	0.6	0.6	0.6	0.6

TEST NUMBER: P1590473

CATALOG NUMBER: HCDLS1525CSD4TRH-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	5.1	6.2	5.5	6.5	6.8
	3H	4.0	5.0	4.4	5.3	5.7	5.1	6.0	5.4	6.3	6.7
	4H	4.0	4.8	4.4	5.2	5.6	5.0	5.8	5.4	6.2	6.6
	6H	3.9	4.6	4.3	5.0	5.4	4.9	5.7	5.3	6.0	6.4
	8H	3.8	4.5	4.3	4.9	5.3	4.8	5.6	5.3	6.0	6.4
	12H	3.8	4.5	4.2	4.8	5.3	4.8	5.5	5.2	5.9	6.3
4H	2H	3.9	4.8	4.3	5.1	5.5	4.9	5.8	5.3	6.1	6.5
	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	4.2	4.8	5.3	4.8	5.4	5.2	5.8	6.3
	6H	3.7	4.2	4.2	4.7	5.2	4.7	5.2	5.2	5.7	6.1
	8H	3.6	4.1	4.1	4.6	5.1	4.6	5.1	5.1	5.6	6.0
	12H	3.6	4.0	4.1	4.5	5.0	4.6	5.0	5.1	5.5	5.9
8H	4H	3.6	4.1	4.1	4.6	5.1	4.6	5.1	5.1	5.6	6.0
	6H	3.5	3.9	4.1	4.4	4.9	4.5	4.9	5.0	5.4	5.9
	8H	3.5	3.8	4.0	4.3	4.8	4.4	4.8	5.0	5.3	5.8
	12H	3.4	3.7	3.9	4.2	4.8	4.4	4.7	4.9	5.2	5.8
12H	4H	3.6	4.0	4.1	4.5	5.0	4.6	5.0	5.1	5.5	5.9
	6H	3.5	3.8	4.0	4.3	4.8	4.4	4.8	5.0	5.3	5.8
	8H	3.4	3.7	3.9	4.2	4.8	4.4	4.7	4.9	5.2	5.8

(END OF REPORT)