

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: P1590475

Luminaire Tested: HCDLS1525CSD4TRH-LO-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590475
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-4000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 1500 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

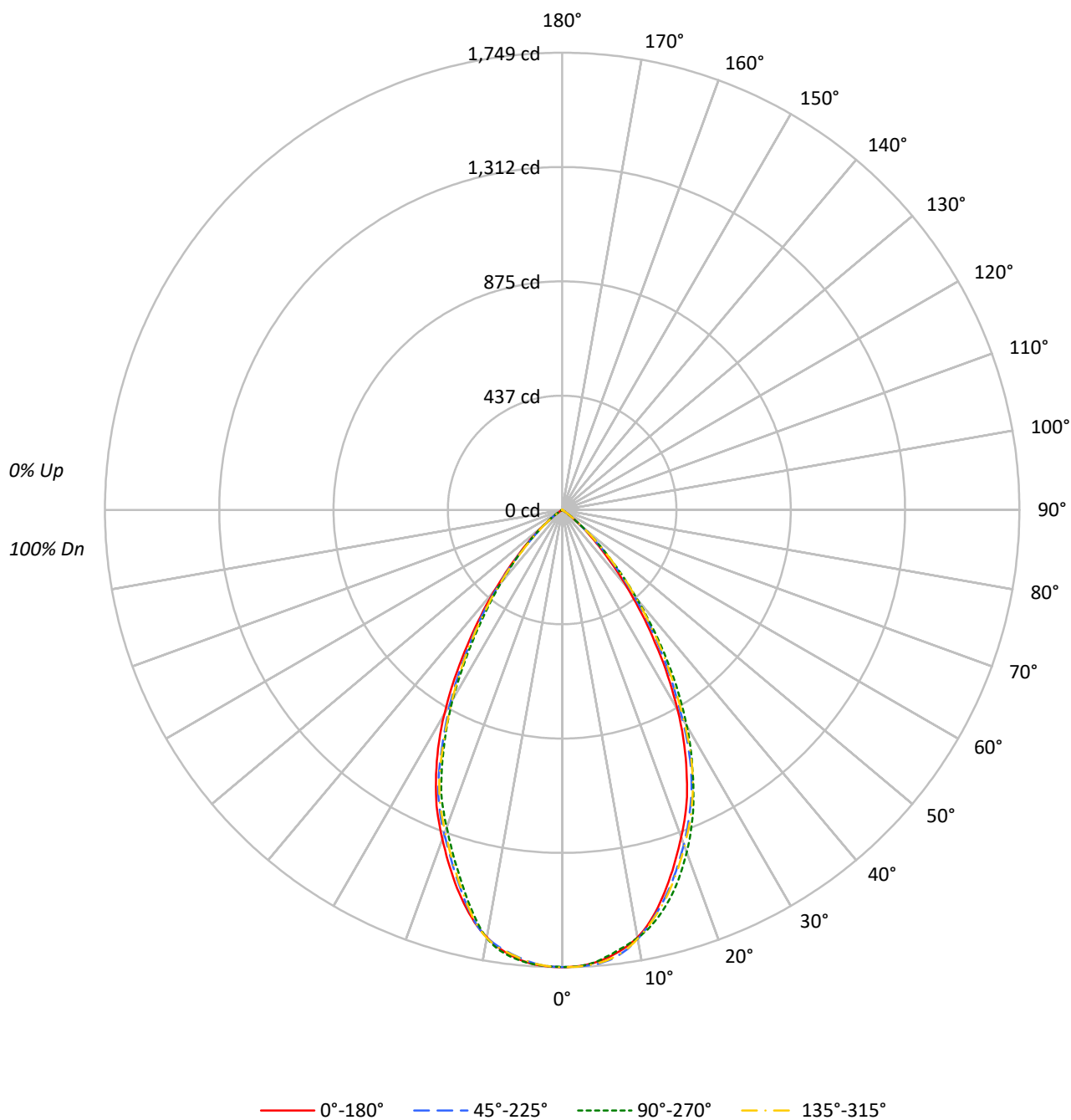
Lumens per Lamp: N/A
Luminaire Lumens: 1710.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	215682	215682	215682	215682
5°	214067	213621	214314	214599
10°	207937	208200	207887	208163
15°	193282	198722	193959	188953
20°	174814	182848	175943	169616
25°	153640	161697	155477	148073
30°	125706	135790	128427	119069
35°	93328	105073	95315	86537
40°	62265	72329	64745	58449
45°	36527	43801	38638	35707
50°	17865	20494	19132	18364
55°	5828	6193	6215	6279
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: 43801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	9.5
10°-20°	423.4	24.8
20°-30°	517.3	30.3
30°-40°	394.1	23.0
40°-50°	175.7	10.3
50°-60°	31.8	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°	1103.8	64.6
0°-40°	1497.9	87.6
0°-60°	1705.5	99.7
0°-90°	1708.9	99.9
90°-120°	0.0	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.1
0°-180°	1710.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1749	1749	1749	1749	1749	
5°	1729	1725	1731	1733	1729	163
15°	1514	1556	1519	1480	1514	422
25°	1129	1188	1142	1088	1129	513
35°	620	698	633	575	620	387
45°	209	251	222	205	209	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6
0.5°	1748.9	1748.3	1748.4	1748.9	1748.3	1748.4	1749.2	1748.9	1748.9	1748.3	1748.3
1°	1748.1	1748.1	1748.4	1748.9	1748.3	1748.4	1748.8	1748.8	1748.3	1747.7	1747.7
1.5°	1747.2	1747.5	1748.1	1748.3	1747.7	1748.1	1748.3	1748.1	1747.7	1746.8	1746.8
2°	1746.0	1746.6	1747.7	1747.5	1746.6	1747.1	1747.7	1747.5	1746.5	1745.1	1745.4
2.5°	1744.5	1746.0	1746.9	1746.1	1745.1	1745.5	1747.1	1746.6	1744.9	1743.2	1743.5
3°	1742.8	1745.1	1745.8	1744.3	1742.8	1743.7	1745.5	1745.5	1743.2	1740.6	1740.9
3.5°	1740.0	1744.0	1744.6	1742.0	1739.7	1741.2	1743.8	1744.0	1741.2	1737.4	1737.7
4°	1736.9	1742.5	1743.4	1738.9	1735.6	1737.9	1742.2	1742.5	1738.3	1733.4	1733.9
4.5°	1733.1	1740.3	1741.4	1735.1	1730.6	1733.7	1739.5	1740.3	1735.1	1728.8	1729.6
5°	1728.9	1737.7	1738.3	1730.3	1725.3	1728.6	1736.3	1737.9	1730.9	1723.7	1724.8
5.5°	1724.2	1734.2	1734.9	1725.4	1719.4	1723.4	1732.5	1734.5	1726.6	1718.2	1719.9
6°	1719.3	1729.9	1730.8	1719.7	1713.3	1717.6	1728.2	1730.5	1721.4	1712.5	1714.5
6.5°	1713.6	1725.0	1726.0	1714.1	1707.0	1711.6	1723.1	1725.7	1715.6	1706.7	1709.1
7°	1707.6	1719.0	1720.0	1707.9	1700.8	1705.5	1717.3	1720.0	1709.3	1700.4	1703.6
7.5°	1701.0	1712.2	1713.3	1701.3	1694.7	1698.8	1710.8	1713.4	1703.0	1694.1	1697.6
8°	1694.4	1704.8	1705.6	1694.1	1688.4	1692.1	1703.5	1705.6	1695.5	1687.6	1691.5
8.5°	1686.7	1696.4	1697.2	1686.6	1682.1	1685.5	1695.2	1697.5	1687.5	1680.4	1684.7
9°	1678.6	1687.0	1687.6	1678.7	1675.7	1678.0	1686.0	1687.9	1679.0	1673.1	1677.4
9.5°	1669.5	1676.7	1677.5	1670.3	1669.2	1670.1	1676.3	1677.5	1670.1	1664.9	1669.4
10°	1660.2	1665.8	1666.4	1661.2	1662.3	1661.7	1665.7	1666.4	1659.8	1656.3	1660.3
10.5°	1649.7	1654.0	1654.6	1651.6	1654.8	1653.1	1654.6	1654.3	1648.9	1646.0	1649.6
11°	1638.0	1641.6	1642.2	1641.3	1646.5	1643.6	1642.8	1642.2	1637.6	1635.3	1637.7
11.5°	1625.3	1628.1	1629.6	1630.5	1637.6	1633.7	1630.7	1629.3	1625.3	1623.3	1624.5
12°	1611.0	1614.1	1616.4	1618.5	1628.2	1623.1	1618.4	1615.9	1612.2	1609.3	1609.2
12.5°	1596.3	1599.6	1602.3	1607.0	1617.5	1611.5	1605.5	1602.1	1597.5	1594.3	1592.0
13°	1580.8	1585.1	1588.4	1594.4	1606.7	1600.0	1592.1	1587.4	1583.5	1578.6	1575.2
13.5°	1564.6	1569.6	1574.2	1581.8	1594.9	1588.1	1578.5	1573.1	1568.0	1562.0	1557.6
14°	1547.9	1553.7	1559.7	1568.2	1582.3	1575.1	1564.5	1557.7	1552.4	1545.0	1539.1
14.5°	1531.1	1537.8	1545.0	1554.7	1569.4	1561.9	1549.7	1542.5	1535.5	1527.3	1520.6
15°	1513.6	1521.5	1529.5	1540.4	1556.2	1547.7	1535.6	1526.9	1518.9	1509.4	1501.4
15.5°	1495.7	1504.8	1514.1	1525.5	1542.4	1533.5	1520.1	1510.9	1501.9	1491.4	1482.2
16°	1478.0	1487.7	1498.0	1509.5	1527.6	1518.4	1504.6	1494.1	1484.4	1472.6	1463.3
16.5°	1460.3	1470.9	1481.8	1494.2	1512.6	1503.0	1488.1	1477.3	1466.8	1454.1	1444.6
17°	1442.2	1453.7	1465.2	1478.1	1497.0	1487.0	1471.6	1460.1	1448.7	1435.6	1425.9
17.5°	1423.6	1436.2	1447.9	1461.6	1480.9	1470.7	1455.0	1442.2	1430.7	1417.2	1407.2
18°	1405.1	1418.3	1430.6	1444.3	1463.8	1454.1	1437.6	1424.7	1412.8	1398.9	1388.8
18.5°	1386.7	1400.1	1413.2	1427.0	1446.8	1436.8	1420.4	1407.4	1394.7	1380.5	1370.7
19°	1368.4	1382.0	1396.1	1409.6	1428.9	1419.4	1403.3	1389.7	1376.0	1362.6	1352.4
19.5°	1350.3	1364.1	1378.6	1391.9	1411.5	1401.8	1386.0	1371.5	1358.1	1344.8	1336.2
20°	1331.8	1345.8	1361.0	1374.1	1393.0	1384.3	1368.8	1354.2	1340.4	1326.9	1318.7
20.5°	1313.5	1328.0	1343.2	1356.1	1374.9	1366.4	1351.0	1337.1	1321.8	1309.1	1301.3
21°	1295.1	1309.4	1325.1	1337.6	1356.3	1347.7	1333.3	1319.3	1303.3	1291.3	1283.8
21.5°	1276.9	1291.2	1307.3	1318.9	1336.4	1328.5	1315.7	1301.5	1284.8	1273.5	1266.3
22°	1257.7	1272.2	1288.5	1299.3	1316.6	1309.2	1298.1	1283.7	1266.2	1255.7	1247.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1238.4	1253.8	1269.8	1280.4	1296.7	1289.9	1280.4	1265.9	1249.2	1235.9	1228.1
23°	1217.4	1233.9	1250.9	1259.3	1276.9	1270.6	1262.8	1246.2	1229.0	1214.9	1208.2
23.5°	1196.6	1214.3	1231.7	1239.6	1257.0	1251.2	1242.7	1226.8	1208.1	1193.8	1187.1
24°	1174.5	1193.8	1211.4	1217.6	1233.9	1229.6	1223.2	1206.9	1186.5	1172.2	1164.3
24.5°	1152.2	1172.6	1191.8	1196.5	1211.5	1208.0	1203.0	1186.1	1164.6	1149.2	1140.5
25°	1128.9	1150.5	1170.8	1173.5	1188.1	1185.8	1182.2	1165.1	1142.4	1125.9	1115.8
25.5°	1105.9	1128.6	1149.6	1151.8	1165.4	1163.4	1160.7	1143.8	1119.9	1101.8	1090.0
26°	1082.7	1105.6	1127.3	1128.7	1142.5	1140.6	1138.9	1121.7	1097.3	1077.7	1062.9
26.5°	1060.1	1082.5	1104.6	1105.5	1119.3	1117.4	1115.9	1098.3	1073.8	1052.9	1035.8
27°	1035.7	1058.9	1079.9	1082.1	1095.9	1093.9	1092.2	1074.7	1050.7	1027.8	1009.0
27.5°	1011.7	1035.1	1054.3	1058.3	1073.3	1070.8	1067.8	1050.7	1027.4	1001.8	983.1
28°	986.8	1011.0	1027.8	1034.1	1050.2	1047.4	1041.5	1025.8	1003.2	976.5	957.3
28.5°	961.8	984.9	1000.3	1009.2	1026.8	1023.0	1015.4	1000.3	978.6	950.5	931.5
29°	935.6	959.9	972.4	984.3	1003.1	999.1	988.1	973.9	953.4	925.1	907.0
29.5°	909.9	933.8	943.5	959.3	978.9	974.4	960.3	946.6	927.7	900.0	882.3
30°	882.6	906.7	915.4	933.2	953.4	949.2	931.3	918.4	901.7	874.8	857.5
30.5°	856.2	878.4	887.6	906.2	928.2	922.9	903.0	890.0	874.6	849.4	832.4
31°	829.8	851.1	860.6	879.4	902.5	897.0	875.5	861.6	848.2	824.7	806.9
31.5°	803.8	822.3	834.2	852.4	877.0	870.5	848.6	833.0	820.8	800.0	781.3
32°	777.4	794.4	808.7	825.1	851.2	843.6	822.8	805.6	794.9	775.5	755.4
32.5°	752.0	765.9	783.2	798.2	826.2	816.9	797.0	778.9	766.8	750.4	729.6
33°	726.5	739.8	758.8	771.5	801.1	789.7	772.8	752.6	739.5	726.1	703.5
33.5°	700.8	712.1	733.9	744.7	775.6	762.9	748.0	727.1	712.0	700.7	677.2
34°	675.5	686.9	709.4	719.4	749.6	736.8	723.7	702.1	685.8	675.6	652.6
34.5°	649.8	660.6	683.9	694.4	723.6	711.1	699.2	677.4	658.7	650.0	627.4
35°	619.8	635.4	658.6	670.0	697.8	685.9	674.7	653.5	633.0	623.9	603.9
35.5°	596.1	611.1	634.2	646.2	672.0	661.1	649.7	628.7	607.9	598.4	581.0
36°	572.3	586.9	610.1	623.4	645.6	636.8	625.0	603.9	583.9	573.5	558.5
36.5°	548.6	562.6	586.1	599.7	619.9	612.1	600.4	579.3	558.9	548.7	535.9
37°	524.8	538.4	562.0	576.1	594.1	588.3	576.0	555.0	535.2	524.7	514.3
37.5°	500.2	514.1	538.0	552.4	568.9	564.7	551.9	530.3	512.1	500.7	492.1
38°	476.1	492.1	513.9	528.7	544.2	541.4	529.3	506.8	489.3	478.0	470.3
38.5°	452.8	469.5	491.8	505.3	519.4	517.9	506.5	483.9	466.7	455.7	448.2
39°	430.4	448.1	470.4	482.8	495.6	495.9	485.0	461.6	445.0	434.0	427.0
39.5°	408.2	426.5	448.5	460.1	472.2	472.8	463.6	440.3	423.4	411.9	405.8
40°	386.7	405.9	427.2	437.9	449.2	451.0	442.4	419.8	402.1	390.5	385.1
40.5°	366.2	386.1	406.4	416.3	427.1	428.1	421.2	399.3	381.1	369.7	364.6
41°	346.3	366.0	385.6	395.2	405.0	406.7	400.4	379.5	360.7	349.5	345.1
41.5°	326.6	346.5	364.6	374.6	384.1	385.1	379.7	360.3	341.1	329.6	326.3
42°	308.2	328.4	345.1	354.8	363.5	364.6	359.2	341.8	322.1	310.1	308.2
42.5°	290.4	309.9	325.4	335.0	343.7	343.9	338.8	323.1	303.8	291.6	289.8
43°	273.0	291.9	306.4	315.0	324.2	324.2	319.1	305.2	286.3	273.8	272.2
43.5°	255.9	273.7	287.7	295.7	304.9	304.4	299.9	287.4	268.7	256.6	254.4
44°	240.0	256.6	270.5	276.7	286.2	286.1	281.5	270.3	252.5	240.4	238.1
44.5°	224.4	240.0	253.2	258.3	268.2	267.5	263.3	253.1	236.6	224.8	221.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	209.4	224.2	236.7	240.5	251.1	250.0	246.1	236.8	221.5	209.6	205.2
45.5°	194.9	208.5	220.8	222.8	233.8	232.3	229.4	220.9	206.8	195.1	189.6
46°	181.6	193.8	205.1	206.3	217.5	215.9	213.2	205.6	192.3	181.4	175.8
46.5°	168.3	179.2	189.7	190.2	201.3	199.4	197.8	190.5	178.9	169.4	163.3
47°	155.9	166.1	174.9	175.1	186.5	183.9	182.4	176.2	167.0	157.5	150.9
47.5°	143.8	152.8	160.5	160.4	172.9	170.4	168.9	163.6	155.2	145.5	138.5
48°	132.8	140.7	146.9	146.7	159.3	156.9	155.6	151.0	143.3	133.6	126.0
48.5°	121.9	128.5	133.8	133.8	145.7	143.4	142.2	138.3	131.4	121.7	115.9
49°	111.9	117.7	121.3	121.7	132.1	130.0	128.9	125.7	119.6	111.6	106.6
49.5°	102.4	107.1	109.3	110.3	118.5	116.5	115.6	113.2	109.4	102.1	98.2
50°	93.1	97.2	98.2	99.4	106.8	105.4	104.3	102.7	99.7	93.4	90.2
50.5°	84.3	87.3	88.0	89.1	95.7	94.7	93.8	92.6	90.6	85.1	82.6
51°	76.3	78.6	78.7	79.6	85.6	85.1	84.1	83.2	81.8	77.4	75.5
51.5°	68.5	70.3	69.9	70.7	76.0	75.8	75.2	74.4	73.6	70.1	68.9
52°	61.4	62.6	61.9	62.7	67.2	67.3	66.7	66.2	65.7	63.2	62.5
52.5°	55.2	56.3	55.7	56.2	59.0	59.3	58.8	58.5	58.3	56.6	56.2
53°	48.9	50.0	49.4	49.8	51.6	52.1	51.7	51.4	51.3	50.2	50.2
53.5°	42.7	43.6	43.1	43.4	44.7	45.2	45.0	44.7	45.0	44.2	44.6
54°	36.6	37.3	36.8	36.9	38.6	39.1	39.1	38.6	38.9	38.7	39.2
54.5°	31.6	31.0	30.5	30.5	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	29.2	29.2	28.7	28.9	28.9	29.6
55.5°	23.1	22.5	22.1	22.1	24.6	25.0	25.0	24.5	24.6	24.9	25.4
56°	19.1	18.4	18.1	18.0	20.5	20.8	20.8	21.8	21.6	22.1	21.3
56.5°	15.5	14.9	14.6	14.6	18.1	18.4	18.4	19.2	18.6	19.3	18.7
57°	12.5	12.1	11.8	12.0	15.8	16.0	16.0	16.5	15.6	16.5	16.2
57.5°	10.3	10.0	9.8	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	11.2	11.2	9.5	11.0	11.1
58.5°	7.6	7.3	7.3	7.5	8.6	9.0	8.9	8.5	8.2	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	6.9	6.6	6.4	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°	5.0	4.8	4.8	5.0	5.5	5.8	5.6	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	3.9	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°	2.8	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	1.9
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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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	1.3	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°	0.6	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	0.8	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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.2
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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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	0.3	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	0.4	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°	0.4	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	0.5	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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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	0.8	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	0.7
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: P1590475
CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6
0.5°	1748.8	1747.5	1748.1	1748.8	1748.6	1748.9
1°	1748.3	1747.1	1747.7	1748.0	1747.8	1748.1
1.5°	1747.5	1746.3	1747.1	1746.9	1746.6	1747.2
2°	1746.6	1745.4	1745.7	1745.1	1744.9	1746.0
2.5°	1744.9	1744.3	1744.3	1743.2	1743.1	1744.5
3°	1743.4	1743.2	1742.8	1740.6	1740.0	1742.8
3.5°	1741.1	1741.4	1740.5	1737.5	1736.5	1740.0
4°	1738.5	1739.1	1737.9	1733.9	1732.6	1736.9
4.5°	1734.9	1736.5	1734.8	1729.9	1728.3	1733.1
5°	1731.3	1733.2	1731.4	1725.3	1723.4	1728.9
5.5°	1727.4	1729.7	1727.6	1720.7	1718.4	1724.2
6°	1723.0	1725.6	1723.4	1715.9	1712.8	1719.3
6.5°	1718.0	1721.1	1718.7	1711.0	1707.8	1713.6
7°	1712.8	1715.4	1713.6	1705.8	1701.9	1707.6
7.5°	1707.1	1709.4	1707.4	1700.5	1696.4	1701.0
8°	1700.7	1702.4	1700.8	1694.1	1690.2	1694.4
8.5°	1693.9	1694.4	1693.2	1687.8	1683.8	1686.7
9°	1685.8	1684.9	1684.6	1680.1	1676.6	1678.6
9.5°	1676.9	1674.4	1674.6	1671.8	1668.6	1669.5
10°	1666.4	1662.0	1663.1	1661.7	1659.8	1660.2
10.5°	1654.5	1648.3	1649.7	1650.9	1650.0	1649.7
11°	1641.1	1632.8	1635.0	1638.0	1638.8	1638.0
11.5°	1625.3	1615.5	1618.2	1623.5	1626.1	1625.3
12°	1608.6	1596.9	1600.4	1606.9	1611.2	1611.0
12.5°	1590.6	1578.5	1581.8	1589.8	1595.2	1596.3
13°	1572.3	1559.0	1562.5	1571.5	1579.1	1580.8
13.5°	1553.4	1540.1	1543.1	1552.8	1561.9	1564.6
14°	1534.2	1519.9	1523.5	1533.7	1543.8	1547.9
14.5°	1514.4	1500.1	1503.7	1514.7	1525.5	1531.1
15°	1494.8	1479.7	1483.6	1494.8	1506.9	1513.6
15.5°	1475.6	1460.3	1464.1	1476.2	1487.8	1495.7
16°	1456.5	1441.1	1445.3	1456.8	1468.8	1478.0
16.5°	1437.3	1422.7	1426.4	1438.2	1450.9	1460.3
17°	1418.9	1403.5	1407.3	1419.8	1432.1	1442.2
17.5°	1400.6	1384.7	1389.3	1401.0	1413.9	1423.6
18°	1382.3	1365.8	1370.4	1382.5	1394.9	1405.1
18.5°	1363.6	1347.2	1351.8	1364.3	1376.5	1386.7
19°	1345.9	1328.7	1333.9	1346.0	1357.7	1368.4
19.5°	1328.6	1309.9	1315.8	1328.1	1339.5	1350.3
20°	1311.3	1292.2	1298.4	1310.0	1320.9	1331.8
20.5°	1294.1	1273.8	1280.3	1292.6	1302.8	1313.5
21°	1276.8	1256.3	1262.5	1274.2	1284.3	1295.1
21.5°	1259.6	1238.0	1244.7	1256.2	1265.7	1276.9
22°	1241.8	1220.1	1226.9	1237.8	1247.5	1257.7

TEST NUMBER: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1223.5	1201.6	1208.1	1219.5	1228.1	1238.4
23°	1203.5	1181.8	1188.0	1199.7	1207.5	1217.4
23.5°	1181.8	1160.3	1166.9	1178.7	1186.9	1196.6
24°	1159.9	1137.2	1144.5	1156.2	1164.6	1174.5
24.5°	1137.1	1111.9	1121.2	1132.1	1141.0	1152.2
25°	1113.2	1088.0	1096.8	1107.2	1116.3	1128.9
25.5°	1088.2	1063.6	1072.1	1081.3	1091.7	1105.9
26°	1063.2	1039.4	1047.1	1054.6	1066.3	1082.7
26.5°	1037.2	1014.1	1021.6	1027.9	1040.3	1060.1
27°	1010.4	990.3	995.9	1000.7	1013.1	1035.7
27.5°	983.3	965.8	969.2	973.5	986.5	1011.7
28°	955.6	940.6	942.7	946.7	961.3	986.8
28.5°	928.2	915.3	916.6	920.1	936.0	961.8
29°	901.7	889.6	890.4	894.3	911.3	935.6
29.5°	875.5	862.9	864.2	868.7	886.8	909.9
30°	849.5	836.0	837.2	843.7	862.9	882.6
30.5°	823.3	808.1	810.5	818.4	838.1	856.2
31°	797.9	781.6	783.7	793.1	813.6	829.8
31.5°	772.4	754.2	757.4	767.9	788.5	803.8
32°	747.4	727.6	731.4	742.5	762.6	777.4
32.5°	722.5	701.5	705.8	717.2	736.8	752.0
33°	697.5	675.9	680.9	691.8	710.8	726.5
33.5°	672.2	649.7	656.5	665.8	684.4	700.8
34°	647.5	620.9	633.4	641.1	658.0	675.5
34.5°	622.7	597.8	609.5	617.6	632.6	649.8
35°	598.9	574.7	585.5	594.1	608.6	619.8
35.5°	574.8	551.6	561.6	570.5	584.6	596.1
36°	551.9	528.5	537.6	547.0	560.6	572.3
36.5°	528.7	506.1	513.7	523.5	536.6	548.6
37°	506.0	484.0	490.9	501.4	512.6	524.8
37.5°	483.5	462.5	468.5	479.4	490.3	500.2
38°	461.7	442.0	446.3	458.4	468.2	476.1
38.5°	440.5	421.7	424.8	436.9	445.9	452.8
39°	419.8	402.2	405.3	416.0	424.5	430.4
39.5°	399.3	382.3	385.5	394.9	402.9	408.2
40°	378.9	363.0	366.1	374.5	381.4	386.7
40.5°	359.5	344.7	347.4	354.2	359.9	366.2
41°	340.6	326.9	329.5	334.6	339.8	346.3
41.5°	322.3	309.7	311.9	315.7	319.6	326.6
42°	304.4	293.2	294.8	297.4	300.6	308.2
42.5°	286.7	277.3	278.2	278.9	281.9	290.4
43°	270.0	261.9	262.0	262.3	264.5	273.0
43.5°	253.8	246.8	246.5	245.1	247.3	255.9
44°	238.4	232.3	231.6	228.8	230.9	240.0
44.5°	223.5	218.2	217.4	212.8	214.9	224.4

TEST NUMBER: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	209.0	204.7	203.4	197.8	199.6	209.4
45.5°	195.3	191.7	190.3	183.2	185.2	194.9
46°	182.0	179.3	177.7	169.5	171.5	181.6
46.5°	169.6	167.2	165.6	156.4	158.2	168.3
47°	158.2	155.5	153.9	144.4	145.7	155.9
47.5°	146.8	144.4	142.6	133.2	134.2	143.8
48°	135.4	133.6	131.9	122.7	123.6	132.8
48.5°	124.0	123.7	121.8	113.1	113.7	121.9
49°	114.0	113.9	112.1	104.3	104.2	111.9
49.5°	104.5	104.6	102.9	96.1	96.0	102.4
50°	95.8	95.7	94.0	88.3	88.0	93.1
50.5°	87.4	87.2	85.8	80.9	80.6	84.3
51°	79.6	79.2	78.0	74.0	73.4	76.3
51.5°	72.2	71.4	70.6	67.4	66.8	68.5
52°	65.2	64.3	63.5	61.0	61.1	61.4
52.5°	58.4	58.2	57.6	55.3	55.2	55.2
53°	52.1	52.1	51.7	49.6	49.3	48.9
53.5°	46.2	46.0	45.8	44.0	43.4	42.7
54°	40.5	39.9	39.9	38.3	37.5	36.6
54.5°	35.2	33.9	34.0	33.4	32.5	31.6
55°	30.5	29.2	29.5	29.0	28.0	27.1
55.5°	26.4	25.2	25.5	25.0	24.2	23.1
56°	22.3	21.1	21.4	21.0	20.2	19.1
56.5°	19.7	17.3	17.7	17.3	16.5	15.5
57°	17.0	14.3	14.5	14.1	13.4	12.5
57.5°	14.4	11.9	12.2	11.8	11.1	10.3
58°	11.7	10.1	10.4	10.0	9.4	8.8
58.5°	9.1	8.8	9.0	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	4.8	5.0	4.8	4.3	4.0
62°	4.2	4.3	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	2.8
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	2.3
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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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	1.0	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	0.7	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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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°	0.6	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°	0.8	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	0.4
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	0.5	0.5	0.5	0.5
156.5°	0.8	0.4	0.5	0.5	0.5	0.5
157°	0.8	0.5	0.5	0.5	0.5	0.5

TEST NUMBER: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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	0.6	0.6



TEST NUMBER: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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: P1590475

CATALOG NUMBER: HCDLS1525CSD4TRH-LO-4000K

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	4.5	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	6.8
	4H	4.0	4.9	4.4	5.2	5.6	5.1	5.9	5.5	6.3	6.7
	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	5.4	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	5.0	5.5	5.0	5.6	5.4	6.0	6.5
	4H	3.9	4.5	4.3	4.9	5.4	4.9	5.5	5.3	5.9	6.4
	6H	3.8	4.3	4.2	4.7	5.2	4.8	5.3	5.3	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	5.6	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	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	5.9
12H	4H	3.7	4.1	4.1	4.6	5.0	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	5.1	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)