

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: P1590489

Luminaire Tested: HCDLS1525CSD4TRMW-LO-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590489
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: HCDLS1525CSD4TRMW-LO-3500K
Description: 4" Selectable Round Trim+Matte White (paintable) 1500 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

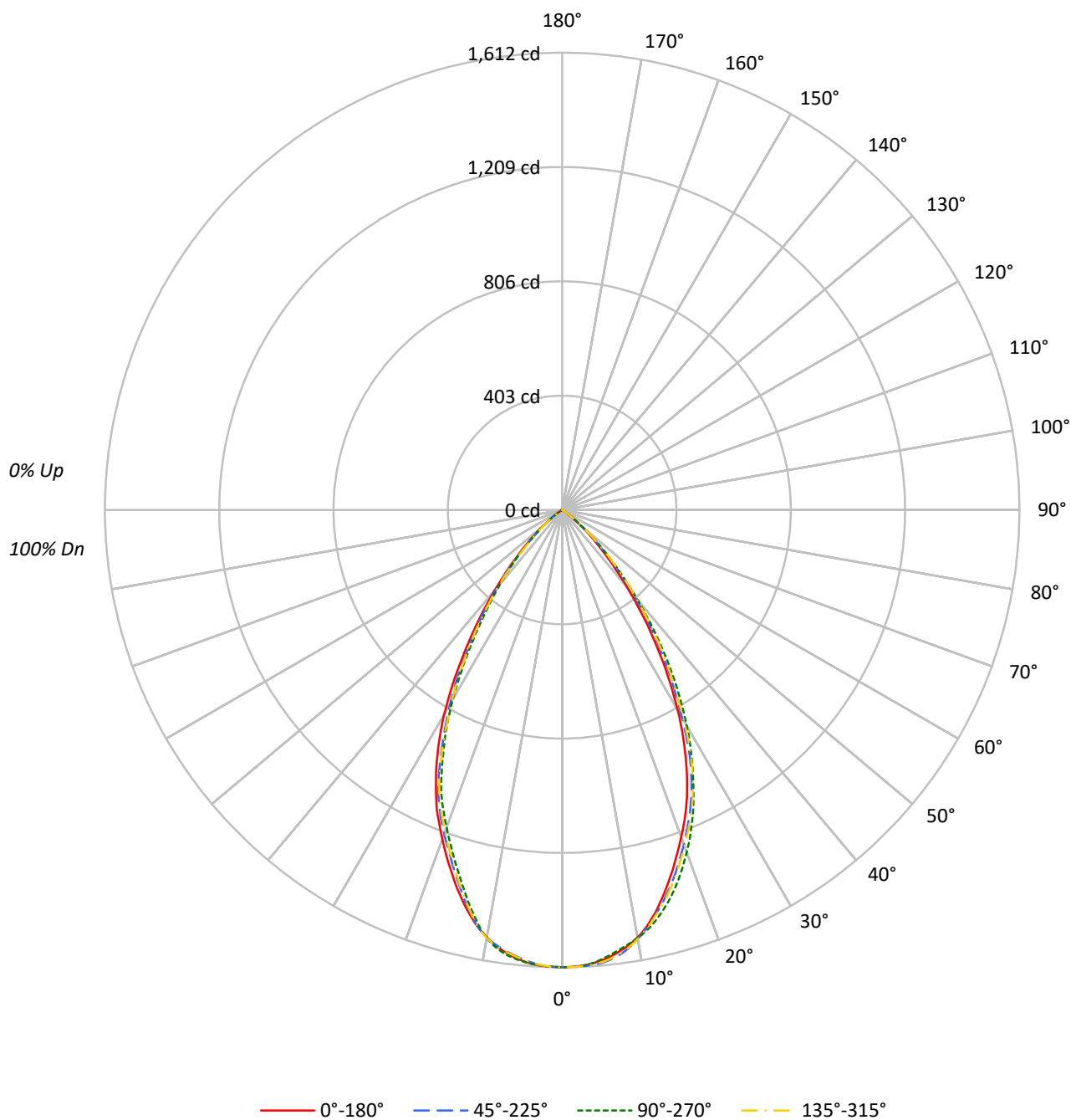
Lumens per Lamp: N/A
Luminaire Lumens: 1576.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	198821	198821	198821	198821
5°	197339	196918	197574	197834
10°	191680	191931	191643	191893
15°	178175	183194	178788	174191
20°	161150	168553	162187	156359
25°	141622	149067	143324	136505
30°	115879	125179	118386	109769
35°	86040	96851	87862	79776
40°	57386	66677	59689	53876
45°	33666	40382	35620	32916
50°	16464	18901	17635	16944
55°	5376	5699	5720	5806
60°	1258	1381	1307	1431
65°	613	700	642	730
70°	361	433	397	433
75°	191	238	238	286
80°	71	142	71	142
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 40382 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	9.5
10°-20°	390.3	24.8
20°-30°	476.9	30.3
30°-40°	363.3	23.0
40°-50°	162.0	10.3
50°-60°	29.3	1.9
60°-70°	2.6	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°	1017.6	64.6
0°-40°	1380.9	87.6
0°-60°	1572.2	99.7
0°-90°	1575.4	99.9
90°-120°	0.0	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.1
0°-180°	1576.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1612	1612	1612	1612	1612	
5°	1594	1590	1596	1598	1594	150
15°	1395	1435	1400	1364	1395	389
25°	1041	1095	1053	1003	1041	473
35°	571	643	584	530	571	357
45°	193	232	204	189	193	154
55°	25	26	27	27	25	28
65°	2	2	2	2	2	2
75°	0	0	0	1	0	0
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°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
0.5°	1612.2	1611.7	1611.8	1612.2	1611.7	1611.8	1612.5	1612.2	1612.2	1611.7	1611.7
1°	1611.5	1611.5	1611.8	1612.2	1611.7	1611.8	1612.1	1612.1	1611.7	1611.1	1611.1
1.5°	1610.7	1610.9	1611.5	1611.7	1611.1	1611.5	1611.7	1611.5	1611.1	1610.2	1610.2
2°	1609.5	1610.1	1611.1	1610.9	1610.1	1610.5	1611.1	1610.9	1610.0	1608.7	1609.0
2.5°	1608.1	1609.5	1610.4	1609.7	1608.7	1609.1	1610.5	1610.1	1608.5	1607.0	1607.3
3°	1606.6	1608.7	1609.4	1608.0	1606.6	1607.4	1609.1	1609.1	1607.0	1604.6	1604.9
3.5°	1604.0	1607.7	1608.3	1605.8	1603.7	1605.1	1607.5	1607.7	1605.1	1601.6	1601.9
4°	1601.2	1606.3	1607.1	1603.0	1599.9	1602.0	1606.0	1606.3	1602.5	1597.9	1598.3
4.5°	1597.6	1604.3	1605.3	1599.5	1595.4	1598.2	1603.6	1604.3	1599.5	1593.7	1594.4
5°	1593.8	1601.9	1602.5	1595.1	1590.4	1593.5	1600.6	1602.0	1595.7	1589.0	1590.0
5.5°	1589.4	1598.6	1599.3	1590.6	1585.0	1588.7	1597.1	1598.9	1591.7	1583.9	1585.5
6°	1584.9	1594.7	1595.5	1585.3	1579.4	1583.3	1593.1	1595.2	1586.9	1578.7	1580.5
6.5°	1579.7	1590.1	1591.1	1580.1	1573.6	1577.8	1588.4	1590.8	1581.5	1573.3	1575.6
7°	1574.1	1584.6	1585.6	1574.4	1567.9	1572.2	1583.1	1585.6	1575.7	1567.5	1570.5
7.5°	1568.1	1578.4	1579.4	1568.3	1562.2	1566.1	1577.1	1579.5	1569.9	1561.7	1564.9
8°	1562.0	1571.6	1572.3	1561.7	1556.4	1559.8	1570.3	1572.3	1563.0	1555.7	1559.3
8.5°	1554.9	1563.8	1564.5	1554.7	1550.6	1553.8	1562.7	1564.8	1555.6	1549.1	1553.0
9°	1547.4	1555.2	1555.7	1547.5	1544.7	1546.8	1554.2	1556.0	1547.8	1542.3	1546.3
9.5°	1539.0	1545.7	1546.4	1539.7	1538.7	1539.6	1545.3	1546.4	1539.6	1534.8	1538.9
10°	1530.4	1535.6	1536.2	1531.4	1532.4	1531.8	1535.5	1536.2	1530.1	1526.9	1530.5
10.5°	1520.8	1524.7	1525.3	1522.5	1525.4	1523.9	1525.3	1525.0	1520.1	1517.4	1520.6
11°	1510.0	1513.3	1513.8	1513.0	1517.8	1515.1	1514.4	1513.8	1509.6	1507.5	1509.7
11.5°	1498.3	1500.8	1502.2	1503.1	1509.6	1506.0	1503.2	1501.9	1498.3	1496.4	1497.6
12°	1485.1	1487.9	1490.1	1492.0	1501.0	1496.3	1491.9	1489.6	1486.2	1483.5	1483.4
12.5°	1471.5	1474.6	1477.0	1481.4	1491.0	1485.5	1480.0	1476.9	1472.6	1469.7	1467.5
13°	1457.2	1461.2	1464.3	1469.8	1481.1	1474.9	1467.7	1463.3	1459.8	1455.2	1452.1
13.5°	1442.3	1446.9	1451.1	1458.2	1470.2	1464.0	1455.1	1450.1	1445.5	1439.9	1435.8
14°	1426.9	1432.3	1437.8	1445.6	1458.6	1452.0	1442.2	1436.0	1431.0	1424.2	1418.8
14.5°	1411.4	1417.6	1424.2	1433.1	1446.7	1439.8	1428.6	1422.0	1415.5	1407.9	1401.8
15°	1395.3	1402.6	1410.0	1420.0	1434.6	1426.8	1415.6	1407.6	1400.1	1391.4	1384.0
15.5°	1378.8	1387.2	1395.7	1406.3	1421.8	1413.6	1401.3	1392.8	1384.5	1374.8	1366.3
16°	1362.5	1371.4	1380.9	1391.6	1408.2	1399.7	1387.0	1377.4	1368.4	1357.5	1348.9
16.5°	1346.2	1355.9	1366.0	1377.4	1394.3	1385.5	1371.8	1361.8	1352.1	1340.5	1331.7
17°	1329.5	1340.1	1350.7	1362.6	1380.0	1370.8	1356.6	1346.0	1335.5	1323.4	1314.4
17.5°	1312.4	1323.9	1334.8	1347.3	1365.2	1355.7	1341.3	1329.5	1318.8	1306.5	1297.2
18°	1295.3	1307.4	1318.8	1331.4	1349.4	1340.5	1325.3	1313.4	1302.4	1289.6	1280.2
18.5°	1278.4	1290.7	1302.8	1315.5	1333.7	1324.5	1309.4	1297.4	1285.7	1272.6	1263.5
19°	1261.5	1274.0	1287.0	1299.4	1317.3	1308.4	1293.6	1281.0	1268.5	1256.1	1246.7
19.5°	1244.7	1257.5	1270.9	1283.1	1301.2	1292.2	1277.7	1264.3	1251.9	1239.7	1231.8
20°	1227.7	1240.6	1254.6	1266.7	1284.1	1276.1	1261.8	1248.3	1235.6	1223.2	1215.7
20.5°	1210.9	1224.2	1238.2	1250.1	1267.4	1259.6	1245.4	1232.6	1218.5	1206.8	1199.6
21°	1193.9	1207.1	1221.5	1233.1	1250.3	1242.4	1229.1	1216.2	1201.4	1190.4	1183.5
21.5°	1177.1	1190.3	1205.1	1215.8	1232.0	1224.6	1212.9	1199.8	1184.3	1173.9	1167.3
22°	1159.4	1172.7	1187.8	1197.7	1213.7	1206.8	1196.6	1183.4	1167.3	1157.5	1149.6

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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°	1141.6	1155.8	1170.6	1180.4	1195.4	1189.0	1180.3	1167.0	1151.6	1139.3	1132.1
23°	1122.3	1137.5	1153.2	1160.9	1177.1	1171.2	1164.1	1148.8	1133.0	1120.0	1113.8
23.5°	1103.1	1119.4	1135.4	1142.7	1158.8	1153.5	1145.6	1130.9	1113.7	1100.5	1094.3
24°	1082.7	1100.5	1116.7	1122.4	1137.5	1133.5	1127.6	1112.5	1093.7	1080.6	1073.3
24.5°	1062.1	1080.9	1098.6	1103.0	1116.8	1113.6	1109.0	1093.4	1073.6	1059.4	1051.3
25°	1040.6	1060.6	1079.3	1081.8	1095.3	1093.1	1089.8	1074.1	1053.1	1037.9	1028.6
25.5°	1019.5	1040.4	1059.7	1061.8	1074.3	1072.4	1070.0	1054.4	1032.3	1015.7	1004.8
26°	998.0	1019.2	1039.2	1040.5	1053.2	1051.4	1049.9	1034.0	1011.5	993.5	979.8
26.5°	977.2	997.9	1018.3	1019.1	1031.8	1030.1	1028.7	1012.4	989.9	970.6	954.8
27°	954.7	976.1	995.5	997.6	1010.3	1008.4	1006.8	990.7	968.5	947.4	930.1
27.5°	932.6	954.2	971.9	975.6	989.5	987.1	984.3	968.6	947.1	923.5	906.2
28°	909.6	932.0	947.5	953.3	968.1	965.5	960.1	945.7	924.8	900.1	882.5
28.5°	886.6	907.9	922.1	930.3	946.5	943.0	936.0	922.1	902.1	876.2	858.7
29°	862.4	884.9	896.4	907.4	924.7	921.1	910.9	897.8	878.9	852.8	836.1
29.5°	838.8	860.9	869.8	884.3	902.4	898.2	885.3	872.6	855.2	829.7	813.3
30°	813.6	835.9	843.9	860.3	878.9	875.0	858.5	846.7	831.2	806.4	790.5
30.5°	789.3	809.8	818.2	835.4	855.6	850.8	832.4	820.4	806.2	783.0	767.4
31°	765.0	784.6	793.3	810.7	832.0	826.9	807.0	794.2	781.9	760.3	743.8
31.5°	741.0	758.0	769.0	785.8	808.5	802.5	782.3	767.9	756.6	737.5	720.2
32°	716.7	732.3	745.5	760.6	784.6	777.7	758.5	742.7	732.8	714.9	696.3
32.5°	693.2	706.1	722.0	735.8	761.6	753.1	734.7	718.0	706.9	691.8	672.6
33°	669.7	682.0	699.5	711.2	738.4	728.0	712.4	693.8	681.7	669.4	648.5
33.5°	646.0	656.4	676.6	686.5	715.0	703.3	689.6	670.3	656.4	646.0	624.3
34°	622.7	633.2	653.9	663.2	691.0	679.2	667.2	647.2	632.2	622.8	601.6
34.5°	599.0	609.0	630.4	640.1	667.1	655.5	644.6	624.5	607.2	599.2	578.3
35°	571.4	585.7	607.1	617.6	643.2	632.3	621.9	602.4	583.5	575.2	556.7
35.5°	549.5	563.4	584.6	595.7	619.5	609.4	598.9	579.6	560.4	551.7	535.6
36°	527.6	541.0	562.5	574.7	595.1	587.0	576.2	556.7	538.2	528.6	514.9
36.5°	505.7	518.6	540.3	552.9	571.4	564.3	553.5	534.0	515.2	505.8	494.0
37°	483.8	496.3	518.1	531.0	547.7	542.3	531.0	511.6	493.4	483.7	474.1
37.5°	461.1	473.9	495.9	509.2	524.4	520.6	508.7	488.9	472.1	461.6	453.6
38°	438.9	453.6	473.8	487.4	501.7	499.1	487.9	467.2	451.1	440.6	433.6
38.5°	417.4	432.8	453.3	465.8	478.8	477.4	466.9	446.1	430.2	420.1	413.2
39°	396.8	413.1	433.7	445.0	456.9	457.1	447.1	425.5	410.2	400.1	393.6
39.5°	376.3	393.2	413.5	424.2	435.3	435.9	427.3	405.9	390.3	379.7	374.1
40°	356.4	374.2	393.8	403.7	414.1	415.7	407.8	387.0	370.7	360.0	355.0
40.5°	337.6	355.9	374.7	383.7	393.7	394.6	388.3	368.1	351.3	340.8	336.1
41°	319.2	337.4	355.5	364.3	373.4	374.9	369.1	349.9	332.5	322.2	318.1
41.5°	301.1	319.4	336.1	345.3	354.1	355.0	350.1	332.1	314.4	303.9	300.8
42°	284.2	302.7	318.1	327.1	335.1	336.1	331.1	315.1	296.9	285.8	284.1
42.5°	267.7	285.7	300.0	308.9	316.8	317.0	312.3	297.8	280.1	268.8	267.2
43°	251.7	269.1	282.5	290.4	298.8	298.8	294.1	281.3	263.9	252.4	250.9
43.5°	235.9	252.3	265.2	272.6	281.1	280.6	276.4	264.9	247.7	236.6	234.5
44°	221.3	236.6	249.4	255.1	263.8	263.7	259.5	249.1	232.8	221.6	219.5
44.5°	206.9	221.2	233.4	238.1	247.3	246.6	242.7	233.3	218.1	207.2	203.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	193.0	206.7	218.2	221.7	231.5	230.5	226.8	218.3	204.2	193.2	189.1
45.5°	179.7	192.2	203.6	205.4	215.6	214.2	211.5	203.7	190.6	179.9	174.8
46°	167.4	178.7	189.1	190.2	200.5	199.0	196.5	189.6	177.3	167.2	162.0
46.5°	155.1	165.2	174.9	175.4	185.6	183.8	182.3	175.6	165.0	156.2	150.5
47°	143.7	153.1	161.3	161.4	171.9	169.5	168.1	162.5	154.0	145.2	139.1
47.5°	132.6	140.8	148.0	147.9	159.4	157.1	155.7	150.8	143.0	134.1	127.6
48°	122.5	129.7	135.4	135.3	146.8	144.7	143.4	139.2	132.1	123.1	116.2
48.5°	112.4	118.5	123.3	123.3	134.3	132.2	131.1	127.5	121.2	112.2	106.8
49°	103.2	108.5	111.8	112.2	121.7	119.8	118.8	115.9	110.2	102.9	98.3
49.5°	94.4	98.8	100.8	101.7	109.3	107.4	106.5	104.4	100.9	94.2	90.5
50°	85.8	89.6	90.6	91.6	98.5	97.1	96.2	94.6	91.9	86.1	83.1
50.5°	77.7	80.5	81.1	82.1	88.2	87.3	86.5	85.4	83.5	78.4	76.2
51°	70.4	72.5	72.5	73.4	78.9	78.4	77.5	76.7	75.4	71.3	69.6
51.5°	63.2	64.8	64.4	65.2	70.1	69.9	69.3	68.6	67.9	64.6	63.5
52°	56.6	57.7	57.1	57.8	62.0	62.0	61.5	61.1	60.6	58.2	57.6
52.5°	50.9	51.9	51.3	51.8	54.4	54.7	54.2	53.9	53.7	52.2	51.8
53°	45.1	46.0	45.5	45.9	47.5	48.0	47.6	47.4	47.3	46.3	46.3
53.5°	39.4	40.2	39.7	40.0	41.2	41.6	41.5	41.2	41.4	40.8	41.1
54°	33.7	34.4	33.9	34.0	35.6	36.1	36.0	35.6	35.9	35.7	36.1
54.5°	29.1	28.6	28.1	28.1	30.7	31.2	31.1	30.6	30.9	31.0	31.5
55°	25.0	24.5	24.1	24.2	26.5	27.0	26.9	26.5	26.6	26.7	27.3
55.5°	21.3	20.7	20.4	20.3	22.7	23.1	23.0	22.6	22.7	22.9	23.5
56°	17.6	17.0	16.7	16.6	18.9	19.2	19.2	20.1	19.9	20.4	19.7
56.5°	14.3	13.7	13.5	13.5	16.7	16.9	16.9	17.7	17.1	17.8	17.3
57°	11.6	11.1	10.9	11.1	14.5	14.8	14.7	15.2	14.4	15.2	14.9
57.5°	9.5	9.2	9.1	9.3	12.3	12.6	12.6	12.7	11.6	12.7	12.6
58°	8.1	7.8	7.7	7.9	10.1	10.4	10.4	10.3	8.8	10.1	10.3
58.5°	7.0	6.8	6.7	6.9	7.9	8.3	8.2	7.8	7.6	7.6	7.9
59°	6.1	5.9	5.9	6.1	7.0	7.3	7.2	6.8	6.6	6.6	6.8
59.5°	5.6	5.4	5.4	5.6	6.2	6.5	6.4	6.1	5.9	5.8	6.0
60°	5.1	4.9	4.9	5.1	5.6	5.9	5.7	5.4	5.3	5.2	5.4
60.5°	4.6	4.4	4.4	4.6	5.1	5.3	5.2	4.9	4.7	4.7	4.8
61°	4.1	4.0	4.0	4.1	4.6	4.8	4.7	4.4	4.3	4.2	4.4
61.5°	3.7	3.6	3.6	3.8	4.2	4.4	4.3	4.1	3.9	3.8	4.0
62°	3.4	3.3	3.3	3.4	3.9	4.0	4.0	3.7	3.6	3.5	3.6
62.5°	3.1	3.0	3.0	3.2	3.6	3.7	3.6	3.4	3.3	3.2	3.3
63°	2.8	2.8	2.8	2.9	3.3	3.4	3.4	3.1	3.0	3.0	3.1
63.5°	2.6	2.6	2.6	2.7	3.0	3.2	3.1	2.9	2.8	2.7	2.8
64°	2.4	2.4	2.4	2.5	2.8	2.9	2.9	2.7	2.6	2.5	2.6
64.5°	2.2	2.2	2.2	2.3	2.6	2.7	2.7	2.5	2.4	2.3	2.4
65°	2.1	2.0	2.1	2.1	2.4	2.5	2.5	2.3	2.2	2.2	2.2
65.5°	1.9	1.9	1.9	2.0	2.3	2.4	2.3	2.1	2.0	2.0	2.1
66°	1.8	1.7	1.8	1.9	2.1	2.2	2.1	2.0	1.9	1.9	1.9
66.5°	1.7	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.8	1.7	1.8
67°	1.5	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.7

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.4	1.4	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.6
68°	1.3	1.3	1.3	1.4	1.6	1.7	1.6	1.5	1.4	1.4	1.4
68.5°	1.2	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.3	1.3	1.3
69°	1.1	1.1	1.1	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.3
69.5°	1.0	1.0	1.0	1.1	1.3	1.3	1.3	1.2	1.1	1.1	1.2
70°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.1	1.0	1.1
70.5°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.0	1.0	1.0	1.0
71°	0.8	0.8	0.8	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
71.5°	0.8	0.8	0.8	0.8	0.9	1.0	1.0	0.9	0.8	0.8	0.9
72°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
72.5°	0.7	0.6	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.7
73°	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.7
73.5°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
74°	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6
74.5°	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
75°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
75.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4
76°	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4
76.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4
77°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
77.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
78°	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
79.5°	0.1	0.1	0.1	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	0.1	0.1	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	0.1	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	0.0	0.0	0.1
83°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	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: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	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	0.0	0.1
124.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	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	0.1	0.1	0.2
130.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
131°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
131.5°	0.2	0.2	0.1	0.1	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	0.2	0.2

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
135.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
139°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
139.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4
140°	0.3	0.3	0.2	0.2	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	0.4	0.4
142.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
143°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5
143.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	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	0.5	0.5
146°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
146.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
147°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
147.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
148°	0.4	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
148.5°	0.4	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
149°	0.4	0.4	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
149.5°	0.4	0.4	0.3	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
150°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
150.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
151°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	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	0.7	0.7
153.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
154°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
154.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.8	0.8	0.8
156°	0.4	0.4	0.4	0.4	0.7	0.7	0.8	0.8	0.8	0.8	0.8
156.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1590489
CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

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: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
0.5°	1612.1	1610.9	1611.5	1612.1	1611.9	1612.2
1°	1611.7	1610.5	1611.1	1611.4	1611.2	1611.5
1.5°	1610.9	1609.8	1610.5	1610.4	1610.1	1610.7
2°	1610.1	1609.0	1609.2	1608.7	1608.5	1609.5
2.5°	1608.5	1608.0	1608.0	1607.0	1606.8	1608.1
3°	1607.1	1607.0	1606.6	1604.6	1604.0	1606.6
3.5°	1605.0	1605.3	1604.4	1601.7	1600.8	1604.0
4°	1602.6	1603.2	1602.0	1598.3	1597.2	1601.2
4.5°	1599.3	1600.8	1599.2	1594.7	1593.3	1597.6
5°	1595.9	1597.8	1596.1	1590.4	1588.7	1593.8
5.5°	1592.4	1594.5	1592.5	1586.2	1584.0	1589.4
6°	1588.3	1590.7	1588.7	1581.8	1579.0	1584.9
6.5°	1583.8	1586.6	1584.3	1577.3	1574.3	1579.7
7°	1579.0	1581.4	1579.7	1572.4	1568.9	1574.1
7.5°	1573.7	1575.8	1574.0	1567.6	1563.8	1568.1
8°	1567.8	1569.3	1567.9	1561.7	1558.1	1562.0
8.5°	1561.5	1562.0	1560.8	1555.9	1552.2	1554.9
9°	1554.0	1553.2	1552.9	1548.8	1545.5	1547.4
9.5°	1545.8	1543.6	1543.7	1541.2	1538.2	1539.0
10°	1536.2	1532.1	1533.1	1531.8	1530.1	1530.4
10.5°	1525.2	1519.5	1520.8	1521.9	1521.1	1520.8
11°	1512.8	1505.2	1507.2	1510.0	1510.7	1510.0
11.5°	1498.3	1489.2	1491.8	1496.6	1499.0	1498.3
12°	1482.8	1472.1	1475.3	1481.3	1485.2	1485.1
12.5°	1466.3	1455.1	1458.2	1465.6	1470.5	1471.5
13°	1449.4	1437.1	1440.4	1448.7	1455.7	1457.2
13.5°	1432.0	1419.7	1422.5	1431.4	1439.8	1442.3
14°	1414.3	1401.1	1404.4	1413.8	1423.1	1426.9
14.5°	1396.1	1382.9	1386.2	1396.3	1406.3	1411.4
15°	1378.0	1364.1	1367.6	1378.0	1389.1	1395.3
15.5°	1360.2	1346.2	1349.7	1360.8	1371.5	1378.8
16°	1342.7	1328.4	1332.3	1342.9	1354.0	1362.5
16.5°	1325.0	1311.5	1315.0	1325.8	1337.5	1346.2
17°	1308.0	1293.8	1297.3	1308.8	1320.2	1329.5
17.5°	1291.1	1276.5	1280.7	1291.5	1303.4	1312.4
18°	1274.3	1259.1	1263.3	1274.4	1285.9	1295.3
18.5°	1257.0	1241.9	1246.1	1257.7	1268.9	1278.4
19°	1240.7	1224.9	1229.7	1240.8	1251.6	1261.5
19.5°	1224.8	1207.5	1213.0	1224.3	1234.9	1244.7
20°	1208.8	1191.2	1196.9	1207.6	1217.7	1227.7
20.5°	1192.9	1174.2	1180.2	1191.6	1200.9	1210.9
21°	1177.0	1158.1	1163.8	1174.6	1183.9	1193.9
21.5°	1161.1	1141.2	1147.4	1158.0	1166.7	1177.1
22°	1144.8	1124.8	1131.0	1141.1	1150.0	1159.4

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1127.9	1107.7	1113.7	1124.2	1132.1	1141.6
23°	1109.4	1089.4	1095.1	1106.0	1113.2	1122.3
23.5°	1089.5	1069.6	1075.7	1086.6	1094.2	1103.1
24°	1069.2	1048.3	1055.0	1065.8	1073.6	1082.7
24.5°	1048.2	1025.0	1033.6	1043.6	1051.9	1062.1
25°	1026.2	1003.0	1011.1	1020.7	1029.1	1040.6
25.5°	1003.2	980.5	988.3	996.8	1006.4	1019.5
26°	980.1	958.2	965.3	972.2	983.0	998.0
26.5°	956.1	934.8	941.8	947.5	959.0	977.2
27°	931.4	912.9	918.1	922.5	933.9	954.7
27.5°	906.5	890.4	893.5	897.4	909.4	932.6
28°	880.9	867.1	869.0	872.7	886.2	909.6
28.5°	855.7	843.7	844.9	848.2	862.9	886.6
29°	831.2	820.1	820.8	824.4	840.0	862.4
29.5°	807.1	795.5	796.7	800.8	817.5	838.8
30°	783.1	770.7	771.8	777.8	795.5	813.6
30.5°	759.0	745.0	747.1	754.5	772.6	789.3
31°	735.6	720.5	722.5	731.1	750.0	765.0
31.5°	712.0	695.2	698.2	707.9	726.9	741.0
32°	689.0	670.8	674.3	684.5	703.0	716.7
32.5°	666.0	646.7	650.6	661.2	679.2	693.2
33°	642.9	623.1	627.7	637.7	655.2	669.7
33.5°	619.7	599.0	605.2	613.8	630.9	646.0
34°	596.9	572.4	583.9	591.0	606.6	622.7
34.5°	574.1	551.1	561.8	569.3	583.2	599.0
35°	552.1	529.8	539.8	547.6	561.1	571.4
35.5°	529.9	508.5	517.7	525.9	538.9	549.5
36°	508.8	487.2	495.6	504.3	516.8	527.6
36.5°	487.4	466.5	473.5	482.6	494.7	505.7
37°	466.4	446.2	452.5	462.2	472.5	483.8
37.5°	445.8	426.3	431.9	442.0	452.0	461.1
38°	425.6	407.5	411.4	422.5	431.6	438.9
38.5°	406.1	388.8	391.6	402.7	411.1	417.4
39°	387.0	370.8	373.7	383.5	391.3	396.8
39.5°	368.1	352.5	355.4	364.0	371.4	376.3
40°	349.2	334.6	337.5	345.3	351.6	356.4
40.5°	331.4	317.7	320.2	326.5	331.8	337.6
41°	314.0	301.4	303.8	308.4	313.2	319.2
41.5°	297.1	285.5	287.5	291.0	294.6	301.1
42°	280.6	270.3	271.7	274.2	277.1	284.2
42.5°	264.3	255.6	256.5	257.1	259.9	267.7
43°	248.9	241.4	241.5	241.8	243.8	251.7
43.5°	234.0	227.5	227.2	225.9	228.0	235.9
44°	219.8	214.1	213.5	210.9	212.8	221.3
44.5°	206.0	201.1	200.4	196.2	198.1	206.9

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	192.7	188.7	187.5	182.4	184.0	193.0
45.5°	180.0	176.7	175.4	168.9	170.7	179.7
46°	167.8	165.3	163.8	156.2	158.1	167.4
46.5°	156.3	154.1	152.6	144.2	145.8	155.1
47°	145.8	143.4	141.8	133.2	134.3	143.7
47.5°	135.3	133.1	131.4	122.8	123.7	132.6
48°	124.8	123.2	121.6	113.1	114.0	122.5
48.5°	114.3	114.0	112.3	104.3	104.9	112.4
49°	105.1	105.0	103.4	96.1	96.1	103.2
49.5°	96.3	96.4	94.9	88.6	88.5	94.4
50°	88.3	88.3	86.6	81.4	81.1	85.8
50.5°	80.5	80.4	79.1	74.6	74.3	77.7
51°	73.3	73.0	71.9	68.3	67.6	70.4
51.5°	66.5	65.9	65.1	62.2	61.6	63.2
52°	60.1	59.2	58.6	56.2	56.3	56.6
52.5°	53.9	53.6	53.1	51.0	50.9	50.9
53°	48.0	48.0	47.7	45.8	45.4	45.1
53.5°	42.6	42.4	42.3	40.5	40.0	39.4
54°	37.4	36.8	36.8	35.3	34.6	33.7
54.5°	32.5	31.2	31.4	30.8	30.0	29.1
55°	28.1	27.0	27.2	26.8	25.8	25.0
55.5°	24.3	23.2	23.5	23.0	22.3	21.3
56°	20.6	19.5	19.7	19.4	18.6	17.6
56.5°	18.1	16.0	16.3	15.9	15.2	14.3
57°	15.7	13.1	13.4	13.0	12.3	11.6
57.5°	13.3	11.0	11.2	10.9	10.2	9.5
58°	10.8	9.3	9.6	9.3	8.7	8.1
58.5°	8.4	8.1	8.3	8.0	7.5	7.0
59°	7.3	7.1	7.3	7.0	6.5	6.1
59.5°	6.4	6.3	6.5	6.3	5.8	5.6
60°	5.7	5.8	5.8	5.8	5.3	5.1
60.5°	5.2	5.4	5.4	5.3	4.9	4.6
61°	4.7	4.9	5.0	4.9	4.4	4.1
61.5°	4.2	4.5	4.6	4.4	4.0	3.7
62°	3.9	4.0	4.2	4.0	3.6	3.4
62.5°	3.6	3.7	3.8	3.6	3.3	3.1
63°	3.3	3.4	3.5	3.4	3.1	2.8
63.5°	3.0	3.1	3.3	3.1	2.8	2.6
64°	2.8	2.9	3.0	2.9	2.6	2.4
64.5°	2.6	2.7	2.8	2.7	2.4	2.2
65°	2.4	2.5	2.6	2.5	2.2	2.1
65.5°	2.2	2.3	2.4	2.3	2.1	1.9
66°	2.1	2.2	2.2	2.1	1.9	1.8
66.5°	1.9	2.0	2.1	2.0	1.8	1.7
67°	1.8	1.9	1.9	1.8	1.6	1.5

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.7	1.7	1.8	1.7	1.5	1.4
68°	1.5	1.6	1.7	1.6	1.4	1.3
68.5°	1.4	1.5	1.6	1.5	1.3	1.2
69°	1.3	1.4	1.5	1.4	1.2	1.1
69.5°	1.2	1.3	1.4	1.3	1.1	1.0
70°	1.2	1.2	1.3	1.2	1.1	1.0
70.5°	1.1	1.1	1.2	1.1	1.0	0.9
71°	1.0	1.0	1.1	1.0	0.9	0.8
71.5°	0.9	1.0	1.0	0.9	0.8	0.8
72°	0.9	0.9	0.9	0.9	0.8	0.7
72.5°	0.8	0.8	0.9	0.8	0.7	0.7
73°	0.7	0.8	0.8	0.7	0.7	0.6
73.5°	0.7	0.7	0.7	0.7	0.6	0.5
74°	0.6	0.7	0.7	0.6	0.6	0.5
74.5°	0.6	0.6	0.6	0.6	0.5	0.5
75°	0.5	0.6	0.6	0.5	0.5	0.4
75.5°	0.5	0.5	0.5	0.5	0.4	0.4
76°	0.4	0.5	0.5	0.4	0.4	0.3
76.5°	0.4	0.4	0.4	0.4	0.3	0.3
77°	0.4	0.4	0.4	0.4	0.3	0.3
77.5°	0.3	0.3	0.4	0.3	0.3	0.2
78°	0.3	0.3	0.3	0.3	0.3	0.2
78.5°	0.3	0.3	0.3	0.3	0.2	0.2
79°	0.2	0.2	0.3	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.1
80°	0.2	0.2	0.2	0.2	0.1	0.1
80.5°	0.1	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°	0.0	0.1	0.1	0.0	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: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.1	0.1	0.1	0.0	0.0
122.5°	0.0	0.1	0.1	0.1	0.1	0.0
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°	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.2	0.1	0.1	0.1	0.1	0.1
130.5°	0.2	0.1	0.1	0.1	0.1	0.1
131°	0.2	0.2	0.2	0.2	0.1	0.1
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°	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.3	0.2	0.2	0.2	0.2	0.2
135.5°	0.3	0.2	0.2	0.2	0.2	0.2
136°	0.3	0.2	0.2	0.2	0.2	0.2
136.5°	0.3	0.2	0.2	0.2	0.2	0.2
137°	0.3	0.2	0.2	0.2	0.2	0.2
137.5°	0.3	0.2	0.2	0.2	0.2	0.2
138°	0.3	0.2	0.2	0.2	0.2	0.2
138.5°	0.3	0.2	0.2	0.2	0.2	0.2
139°	0.3	0.3	0.3	0.3	0.2	0.2
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°	0.4	0.3	0.3	0.3	0.3	0.3
142.5°	0.4	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°	0.5	0.3	0.3	0.3	0.3	0.3
146°	0.5	0.3	0.3	0.3	0.3	0.3
146.5°	0.5	0.3	0.3	0.3	0.3	0.3
147°	0.6	0.3	0.3	0.3	0.3	0.3
147.5°	0.6	0.4	0.4	0.4	0.3	0.3
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°	0.6	0.4	0.4	0.4	0.4	0.4
149.5°	0.6	0.4	0.4	0.4	0.4	0.4
150°	0.6	0.4	0.4	0.4	0.4	0.4
150.5°	0.6	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°	0.7	0.4	0.4	0.4	0.4	0.4
153.5°	0.7	0.4	0.4	0.4	0.4	0.4
154°	0.7	0.4	0.4	0.4	0.4	0.4
154.5°	0.7	0.4	0.4	0.4	0.4	0.4
155°	0.7	0.4	0.4	0.4	0.4	0.4
155.5°	0.8	0.4	0.4	0.4	0.4	0.4
156°	0.8	0.4	0.4	0.4	0.4	0.4
156.5°	0.8	0.4	0.4	0.4	0.4	0.4
157°	0.8	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.8	0.4	0.4	0.4	0.4	0.4
158°	0.8	0.4	0.4	0.4	0.4	0.4
158.5°	0.8	0.4	0.4	0.4	0.4	0.4
159°	0.8	0.4	0.4	0.4	0.5	0.4
159.5°	0.8	0.4	0.4	0.5	0.5	0.5
160°	0.8	0.4	0.4	0.5	0.5	0.5
160.5°	0.8	0.4	0.4	0.5	0.5	0.5
161°	0.8	0.4	0.4	0.5	0.5	0.5
161.5°	0.8	0.4	0.4	0.5	0.5	0.5
162°	0.9	0.4	0.4	0.5	0.5	0.5
162.5°	0.9	0.4	0.4	0.5	0.5	0.5
163°	0.9	0.4	0.4	0.5	0.5	0.5
163.5°	0.9	0.4	0.5	0.5	0.5	0.5
164°	0.9	0.4	0.5	0.5	0.5	0.5
164.5°	0.9	0.4	0.5	0.5	0.5	0.5
165°	0.9	0.4	0.5	0.5	0.5	0.5
165.5°	0.9	0.4	0.5	0.5	0.5	0.5
166°	0.9	0.4	0.5	0.5	0.5	0.5
166.5°	0.9	0.4	0.5	0.5	0.5	0.5
167°	0.9	0.4	0.5	0.5	0.5	0.5
167.5°	0.8	0.4	0.5	0.5	0.5	0.5
168°	0.8	0.4	0.5	0.5	0.5	0.5
168.5°	0.8	0.4	0.5	0.5	0.5	0.5
169°	0.8	0.4	0.5	0.5	0.5	0.5
169.5°	0.8	0.4	0.5	0.5	0.5	0.5
170°	0.8	0.4	0.4	0.5	0.5	0.5
170.5°	0.8	0.4	0.4	0.5	0.5	0.5
171°	0.8	0.4	0.4	0.5	0.5	0.5
171.5°	0.8	0.4	0.4	0.5	0.5	0.5
172°	0.8	0.4	0.4	0.5	0.5	0.5
172.5°	0.8	0.4	0.4	0.5	0.5	0.5
173°	0.7	0.4	0.4	0.5	0.5	0.5
173.5°	0.7	0.4	0.4	0.5	0.5	0.5
174°	0.7	0.4	0.4	0.5	0.5	0.5
174.5°	0.7	0.4	0.5	0.5	0.5	0.5
175°	0.7	0.4	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	0.5	0.5	0.5	0.5	0.5
178°	0.6	0.5	0.5	0.5	0.5	0.5
178.5°	0.6	0.6	0.6	0.6	0.6	0.6
179°	0.6	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: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

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: P1590489

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	3.9	4.9	4.3	5.2	5.6	4.9	5.9	5.3	6.3	6.6
	3H	3.8	4.7	4.2	5.1	5.4	4.8	5.7	5.2	6.1	6.5
	4H	3.7	4.6	4.2	4.9	5.3	4.8	5.6	5.2	6.0	6.4
	6H	3.6	4.4	4.1	4.8	5.2	4.7	5.4	5.1	5.8	6.2
	8H	3.6	4.3	4.0	4.7	5.1	4.6	5.3	5.1	5.7	6.1
	12H	3.5	4.2	4.0	4.6	5.0	4.6	5.2	5.0	5.6	6.1
4H	2H	3.7	4.6	4.1	4.9	5.3	4.7	5.5	5.1	5.9	6.3
	3H	3.7	4.3	4.1	4.8	5.2	4.7	5.3	5.1	5.7	6.2
	4H	3.6	4.2	4.0	4.6	5.1	4.6	5.2	5.0	5.6	6.1
	6H	3.5	4.0	4.0	4.5	4.9	4.5	5.0	5.0	5.4	5.9
	8H	3.4	3.9	3.9	4.3	4.8	4.4	4.9	4.9	5.3	5.8
	12H	3.4	3.8	3.8	4.3	4.7	4.3	4.8	4.8	5.3	5.7
8H	4H	3.4	3.9	3.9	4.4	4.8	4.4	4.9	4.9	5.3	5.8
	6H	3.3	3.7	3.8	4.2	4.7	4.3	4.7	4.8	5.2	5.7
	8H	3.2	3.6	3.8	4.1	4.6	4.2	4.6	4.8	5.1	5.6
	12H	3.2	3.5	3.7	4.0	4.6	4.2	4.5	4.7	5.0	5.6
12H	4H	3.4	3.8	3.9	4.3	4.8	4.3	4.8	4.8	5.3	5.7
	6H	3.2	3.6	3.8	4.1	4.6	4.2	4.6	4.8	5.1	5.6
	8H	3.2	3.5	3.7	4.0	4.6	4.2	4.5	4.7	5.0	5.6

(END OF REPORT)