

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: P1590490

Luminaire Tested: HCDLS1525CSD4TRMW-LO-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590490
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-4000K
Description: 4" Selectable Round Trim+Matte White (paintable) 1500 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

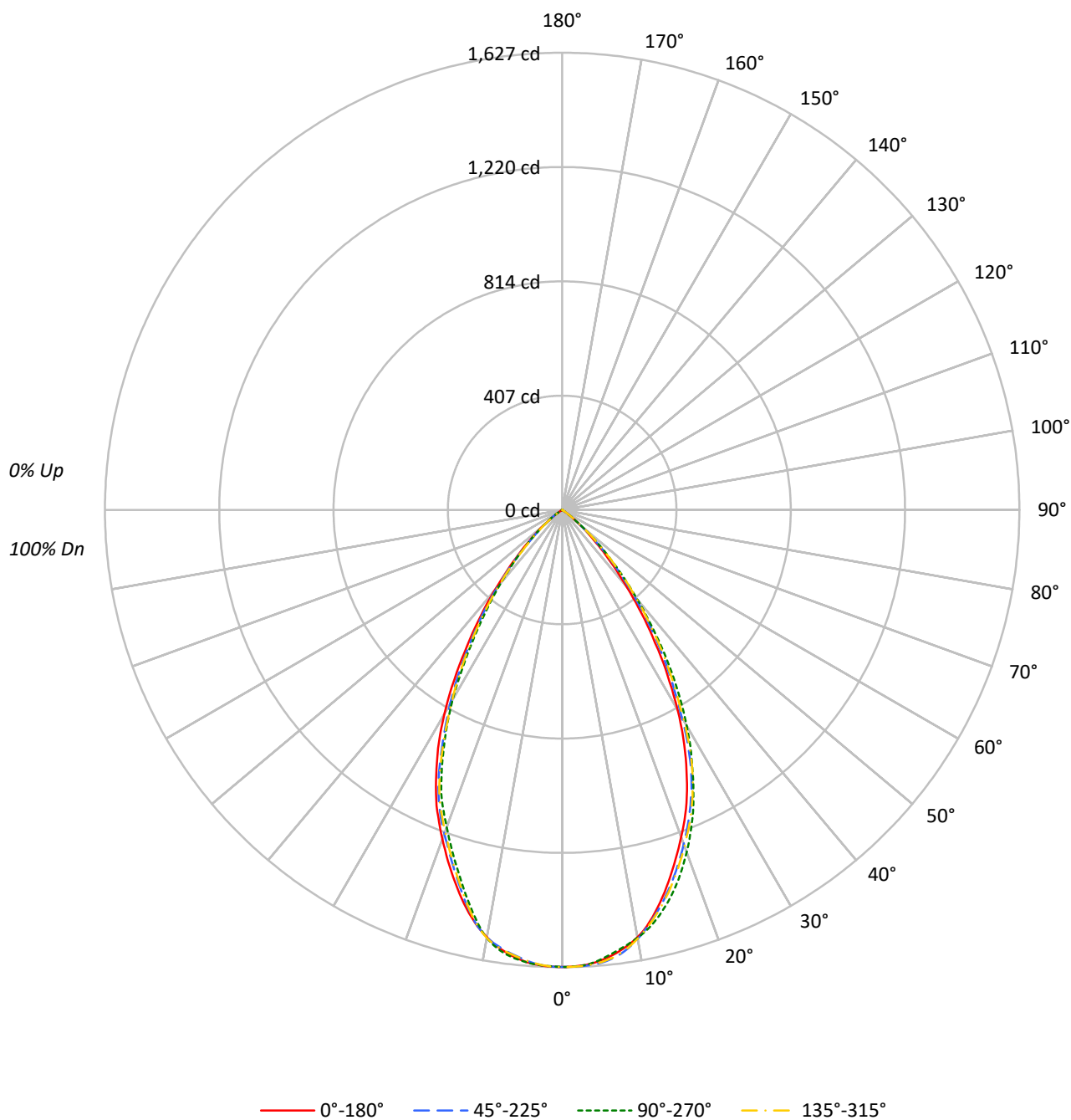
Lumens per Lamp: N/A
Luminaire Lumens: 1590.3 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	200585	200585	200585	200585
5°	199085	198664	199320	199580
10°	193371	193622	193346	193597
15°	179759	184816	180372	175736
20°	162581	170049	163618	157737
25°	142874	150387	144589	137716
30°	116904	126290	119425	110737
35°	86793	97710	88645	80484
40°	57901	67273	60220	54359
45°	33963	40748	35934	33213
50°	16618	19055	17808	17078
55°	5419	5742	5763	5849
60°	1258	1406	1307	1455
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: 40748 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	9.5
10°-20°	393.8	24.8
20°-30°	481.1	30.3
30°-40°	366.5	23.0
40°-50°	163.4	10.3
50°-60°	29.6	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°	1026.6	64.6
0°-40°	1393.1	87.6
0°-60°	1586.1	99.7
0°-90°	1589.3	99.9
90°-120°	0.0	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.1
0°-180°	1590.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1608	1604	1610	1612	1608	151
15°	1408	1447	1412	1376	1408	393
25°	1050	1105	1062	1012	1050	477
35°	576	649	589	534	576	360
45°	195	234	206	190	195	155
55°	25	27	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°	1626.2	1626.2	1626.2	1626.2	1626.2	1626.2	1626.2	1626.2	1626.2	1626.2	1626.2
0.5°	1626.5	1625.9	1626.1	1626.5	1625.9	1626.1	1626.8	1626.5	1626.5	1625.9	1625.9
1°	1625.8	1625.8	1626.1	1626.5	1625.9	1626.1	1626.3	1626.3	1625.9	1625.3	1625.3
1.5°	1624.9	1625.2	1625.8	1625.9	1625.3	1625.8	1625.9	1625.8	1625.3	1624.5	1624.5
2°	1623.8	1624.3	1625.3	1625.2	1624.3	1624.8	1625.3	1625.2	1624.2	1622.9	1623.2
2.5°	1622.3	1623.8	1624.6	1623.9	1622.9	1623.3	1624.8	1624.3	1622.8	1621.2	1621.5
3°	1620.8	1622.9	1623.6	1622.2	1620.8	1621.6	1623.3	1623.3	1621.2	1618.8	1619.1
3.5°	1618.2	1621.9	1622.5	1620.1	1617.9	1619.3	1621.8	1621.9	1619.3	1615.8	1616.1
4°	1615.3	1620.5	1621.3	1617.2	1614.1	1616.2	1620.2	1620.5	1616.6	1612.1	1612.5
4.5°	1611.8	1618.5	1619.5	1613.6	1609.5	1612.3	1617.8	1618.5	1613.6	1607.8	1608.5
5°	1607.9	1616.1	1616.6	1609.2	1604.5	1607.6	1614.8	1616.2	1609.8	1603.1	1604.1
5.5°	1603.5	1612.8	1613.5	1604.6	1599.1	1602.8	1611.2	1613.1	1605.8	1597.9	1599.5
6°	1598.9	1608.8	1609.6	1599.4	1593.4	1597.4	1607.2	1609.3	1600.9	1592.6	1594.5
6.5°	1593.6	1604.2	1605.2	1594.1	1587.5	1591.8	1602.5	1604.9	1595.5	1587.2	1589.5
7°	1588.1	1598.6	1599.6	1588.4	1581.8	1586.1	1597.1	1599.6	1589.6	1581.4	1584.4
7.5°	1581.9	1592.4	1593.4	1582.2	1576.1	1579.9	1591.1	1593.5	1583.8	1575.5	1578.8
8°	1575.8	1585.5	1586.2	1575.5	1570.2	1573.6	1584.2	1586.2	1576.8	1569.5	1573.1
8.5°	1568.6	1577.6	1578.4	1568.5	1564.4	1567.5	1576.5	1578.6	1569.4	1562.8	1566.8
9°	1561.1	1568.9	1569.5	1561.2	1558.4	1560.5	1567.9	1569.8	1561.5	1555.9	1559.9
9.5°	1552.7	1559.4	1560.1	1553.4	1552.4	1553.2	1558.9	1560.1	1553.2	1548.4	1552.5
10°	1543.9	1549.2	1549.8	1544.9	1545.9	1545.4	1549.1	1549.8	1543.7	1540.4	1544.1
10.5°	1534.2	1538.2	1538.8	1535.9	1538.9	1537.4	1538.8	1538.5	1533.5	1530.8	1534.1
11°	1523.4	1526.7	1527.2	1526.4	1531.2	1528.5	1527.8	1527.2	1522.9	1520.8	1523.1
11.5°	1511.5	1514.1	1515.5	1516.4	1522.9	1519.4	1516.5	1515.2	1511.5	1509.7	1510.8
12°	1498.2	1501.1	1503.2	1505.2	1514.2	1509.5	1505.1	1502.8	1499.4	1496.7	1496.5
12.5°	1484.5	1487.7	1490.1	1494.5	1504.2	1498.7	1493.1	1490.0	1485.7	1482.7	1480.5
13°	1470.1	1474.1	1477.2	1482.8	1494.2	1488.0	1480.7	1476.2	1472.7	1468.1	1465.0
13.5°	1455.1	1459.7	1464.0	1471.1	1483.2	1477.0	1468.0	1463.0	1458.3	1452.7	1448.5
14°	1439.5	1445.0	1450.5	1458.4	1471.5	1464.8	1455.0	1448.7	1443.7	1436.8	1431.4
14.5°	1423.9	1430.1	1436.8	1445.8	1459.5	1452.5	1441.3	1434.5	1428.0	1420.4	1414.2
15°	1407.7	1415.0	1422.5	1432.5	1447.3	1439.4	1428.1	1420.0	1412.5	1403.8	1396.3
15.5°	1391.0	1399.5	1408.1	1418.7	1434.4	1426.1	1413.7	1405.1	1396.8	1387.0	1378.4
16°	1374.6	1383.5	1393.1	1403.9	1420.6	1412.1	1399.3	1389.5	1380.5	1369.5	1360.9
16.5°	1358.1	1367.9	1378.1	1389.6	1406.7	1397.7	1383.9	1373.9	1364.1	1352.3	1343.5
17°	1341.2	1351.9	1362.7	1374.6	1392.2	1382.9	1368.6	1357.9	1347.3	1335.2	1326.1
17.5°	1324.0	1335.6	1346.6	1359.3	1377.3	1367.7	1353.2	1341.3	1330.5	1318.0	1308.7
18°	1306.7	1319.0	1330.4	1343.2	1361.3	1352.3	1337.0	1325.0	1313.9	1301.0	1291.5
18.5°	1289.7	1302.1	1314.3	1327.1	1345.5	1336.3	1320.9	1308.8	1297.1	1283.8	1274.7
19°	1272.6	1285.3	1298.4	1310.9	1328.9	1320.0	1305.1	1292.4	1279.7	1267.2	1257.8
19.5°	1255.7	1268.6	1282.1	1294.5	1312.7	1303.7	1289.0	1275.5	1263.0	1250.6	1242.7
20°	1238.6	1251.5	1265.7	1277.9	1295.5	1287.4	1273.0	1259.4	1246.5	1234.1	1226.4
20.5°	1221.6	1235.1	1249.2	1261.2	1278.6	1270.8	1256.4	1243.5	1229.3	1217.5	1210.2
21°	1204.5	1217.8	1232.3	1244.0	1261.3	1253.4	1240.0	1227.0	1212.1	1200.9	1193.9
21.5°	1187.5	1200.8	1215.8	1226.6	1242.9	1235.5	1223.6	1210.4	1194.8	1184.3	1177.7
22°	1169.6	1183.1	1198.3	1208.3	1224.4	1217.5	1207.2	1193.9	1177.6	1167.8	1159.8

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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°	1151.7	1166.0	1180.9	1190.8	1206.0	1199.6	1190.8	1177.3	1161.8	1149.4	1142.1
23°	1132.2	1147.6	1163.4	1171.2	1187.5	1181.6	1174.4	1159.0	1143.0	1129.9	1123.6
23.5°	1112.8	1129.3	1145.5	1152.8	1169.0	1163.7	1155.7	1140.9	1123.5	1110.2	1104.0
24°	1092.3	1110.3	1126.6	1132.4	1147.5	1143.5	1137.6	1122.4	1103.4	1090.2	1082.8
24.5°	1071.5	1090.5	1108.4	1112.7	1126.7	1123.5	1118.8	1103.1	1083.1	1068.8	1060.7
25°	1049.8	1070.0	1088.9	1091.4	1105.0	1102.8	1099.4	1083.6	1062.4	1047.1	1037.7
25.5°	1028.5	1049.6	1069.1	1071.2	1083.8	1081.9	1079.5	1063.7	1041.5	1024.7	1013.7
26°	1006.9	1028.2	1048.4	1049.7	1062.5	1060.7	1059.2	1043.1	1020.5	1002.3	988.5
26.5°	985.9	1006.7	1027.3	1028.1	1040.9	1039.2	1037.8	1021.4	998.6	979.2	963.3
27°	963.2	984.8	1004.3	1006.4	1019.2	1017.3	1015.7	999.5	977.1	955.8	938.4
27.5°	940.9	962.7	980.5	984.2	998.2	995.9	993.0	977.1	955.5	931.7	914.3
28°	917.7	940.2	955.9	961.8	976.6	974.1	968.6	954.0	933.0	908.1	890.3
28.5°	894.5	915.9	930.2	938.5	954.9	951.4	944.3	930.3	910.1	883.9	866.3
29°	870.1	892.7	904.4	915.4	932.9	929.2	919.0	905.7	886.7	860.3	843.5
29.5°	846.2	868.5	877.5	892.2	910.4	906.2	893.1	880.3	862.8	837.0	820.5
30°	820.8	843.2	851.3	867.9	886.7	882.8	866.1	854.1	838.5	813.6	797.5
30.5°	796.3	817.0	825.4	842.8	863.2	858.3	839.7	827.7	813.4	790.0	774.1
31°	771.8	791.6	800.3	817.9	839.4	834.2	814.2	801.3	788.8	767.0	750.4
31.5°	747.5	764.7	775.8	792.7	815.6	809.6	789.2	774.7	763.3	744.0	726.6
32°	723.0	738.8	752.1	767.3	791.6	784.6	765.2	749.2	739.3	721.2	702.5
32.5°	699.4	712.3	728.4	742.3	768.3	759.8	741.3	724.4	713.1	697.9	678.6
33°	675.6	688.0	705.7	717.5	745.0	734.4	718.7	699.9	687.7	675.3	654.3
33.5°	651.7	662.2	682.6	692.6	721.3	709.5	695.7	676.2	662.2	651.7	629.8
34°	628.2	638.8	659.7	669.1	697.1	685.2	673.1	652.9	637.8	628.3	606.9
34.5°	604.3	614.4	636.0	645.8	673.0	661.3	650.3	630.0	612.6	604.5	583.4
35°	576.4	590.9	612.5	623.1	648.9	637.9	627.4	607.8	588.7	580.2	561.6
35.5°	554.4	568.4	589.8	601.0	624.9	614.8	604.2	584.7	565.3	556.5	540.3
36°	532.3	545.8	567.4	579.8	600.4	592.2	581.3	561.6	543.0	533.3	519.5
36.5°	510.2	523.2	545.1	557.8	576.5	569.3	558.4	538.8	519.8	510.3	498.3
37°	488.1	500.7	522.7	535.7	552.5	547.1	535.7	516.2	497.7	487.9	478.3
37.5°	465.2	478.1	500.3	513.7	529.0	525.2	513.2	493.2	476.2	465.7	457.7
38°	442.8	457.6	478.0	491.7	506.1	503.5	492.2	471.4	455.1	444.5	437.4
38.5°	421.1	436.6	457.3	469.9	483.1	481.6	471.0	450.1	434.0	423.8	416.9
39°	400.3	416.8	437.5	449.0	460.9	461.2	451.0	429.3	413.9	403.6	397.1
39.5°	379.6	396.6	417.1	427.9	439.1	439.7	431.1	409.4	393.8	383.1	377.4
40°	359.6	377.5	397.3	407.3	417.8	419.4	411.4	390.4	374.0	363.2	358.1
40.5°	340.6	359.0	378.0	387.1	397.2	398.1	391.7	371.3	354.4	343.8	339.1
41°	322.0	340.4	358.6	367.6	376.7	378.2	372.4	353.0	335.4	325.0	320.9
41.5°	303.8	322.3	339.1	348.4	357.2	358.1	353.2	335.1	317.2	306.6	303.5
42°	286.7	305.4	321.0	330.0	338.1	339.0	334.1	317.9	299.5	288.4	286.6
42.5°	270.1	288.2	302.7	311.6	319.6	319.8	315.1	300.5	282.5	271.2	269.5
43°	253.9	271.5	285.0	292.9	301.5	301.5	296.7	283.8	266.2	254.6	253.1
43.5°	238.0	254.6	267.5	275.0	283.6	283.1	278.9	267.2	249.9	238.7	236.6
44°	223.2	238.7	251.6	257.4	266.1	266.0	261.8	251.3	234.9	223.6	221.4
44.5°	208.7	223.2	235.5	240.2	249.5	248.8	244.9	235.4	220.1	209.0	205.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	194.7	208.5	220.2	223.6	233.6	232.5	228.9	220.3	206.0	194.9	190.8
45.5°	181.3	193.9	205.4	207.2	217.5	216.1	213.4	205.5	192.3	181.4	176.3
46°	168.9	180.3	190.8	191.9	202.3	200.8	198.3	191.2	178.8	168.7	163.5
46.5°	156.5	166.7	176.4	176.9	187.3	185.5	183.9	177.2	166.4	157.6	151.9
47°	145.0	154.5	162.7	162.9	173.5	171.0	169.6	163.9	155.3	146.5	140.3
47.5°	133.7	142.1	149.3	149.2	160.8	158.5	157.1	152.1	144.3	135.3	128.8
48°	123.5	130.9	136.6	136.5	148.1	145.9	144.7	140.4	133.3	124.2	117.2
48.5°	113.4	119.5	124.4	124.4	135.5	133.4	132.3	128.7	122.2	113.1	107.8
49°	104.1	109.4	112.8	113.2	122.8	120.9	119.9	116.9	111.2	103.8	99.2
49.5°	95.2	99.6	101.7	102.6	110.2	108.4	107.5	105.3	101.8	95.0	91.3
50°	86.6	90.4	91.4	92.4	99.3	98.0	97.0	95.5	92.8	86.8	83.9
50.5°	78.4	81.2	81.8	82.9	89.0	88.1	87.2	86.1	84.3	79.1	76.8
51°	71.0	73.1	73.2	74.0	79.6	79.1	78.2	77.4	76.1	72.0	70.2
51.5°	63.7	65.4	65.0	65.8	70.7	70.5	69.9	69.2	68.5	65.2	64.1
52°	57.1	58.2	57.6	58.3	62.5	62.6	62.0	61.6	61.1	58.7	58.1
52.5°	51.3	52.3	51.8	52.3	54.9	55.2	54.7	54.4	54.2	52.6	52.3
53°	45.5	46.5	45.9	46.3	48.0	48.4	48.1	47.8	47.7	46.7	46.7
53.5°	39.7	40.6	40.1	40.3	41.5	42.0	41.9	41.6	41.8	41.1	41.5
54°	34.0	34.7	34.2	34.3	35.9	36.4	36.4	35.9	36.2	36.0	36.4
54.5°	29.4	28.8	28.4	28.4	30.9	31.4	31.4	30.9	31.2	31.2	31.8
55°	25.2	24.7	24.3	24.4	26.7	27.2	27.1	26.7	26.8	26.9	27.5
55.5°	21.5	20.9	20.6	20.5	22.9	23.3	23.2	22.8	22.9	23.1	23.7
56°	17.8	17.2	16.8	16.8	19.1	19.3	19.3	20.3	20.1	20.5	19.9
56.5°	14.4	13.9	13.6	13.6	16.9	17.1	17.1	17.8	17.3	18.0	17.4
57°	11.7	11.2	11.0	11.2	14.6	14.9	14.9	15.3	14.5	15.4	15.1
57.5°	9.6	9.3	9.2	9.3	12.4	12.7	12.7	12.9	11.7	12.8	12.7
58°	8.2	7.9	7.8	8.0	10.2	10.5	10.5	10.4	8.9	10.2	10.4
58.5°	7.0	6.8	6.8	6.9	8.0	8.3	8.3	7.9	7.7	7.6	8.0
59°	6.2	6.0	5.9	6.1	7.1	7.4	7.3	6.9	6.7	6.7	6.9
59.5°	5.6	5.5	5.4	5.6	6.3	6.6	6.5	6.1	5.9	5.9	6.1
60°	5.1	5.0	5.0	5.1	5.7	5.9	5.8	5.5	5.3	5.2	5.4
60.5°	4.6	4.5	4.5	4.6	5.1	5.4	5.3	5.0	4.8	4.7	4.9
61°	4.1	4.0	4.0	4.1	4.7	4.9	4.8	4.5	4.3	4.3	4.4
61.5°	3.7	3.6	3.6	3.8	4.3	4.4	4.4	4.1	3.9	3.9	4.0
62°	3.4	3.3	3.3	3.5	3.9	4.1	4.0	3.7	3.6	3.5	3.7
62.5°	3.1	3.1	3.1	3.2	3.6	3.8	3.7	3.4	3.3	3.2	3.4
63°	2.9	2.8	2.8	2.9	3.3	3.5	3.4	3.2	3.0	3.0	3.1
63.5°	2.6	2.6	2.6	2.7	3.1	3.2	3.1	2.9	2.8	2.8	2.8
64°	2.4	2.4	2.4	2.5	2.8	3.0	2.9	2.7	2.6	2.6	2.6
64.5°	2.3	2.2	2.2	2.3	2.6	2.8	2.7	2.5	2.4	2.4	2.4
65°	2.1	2.0	2.1	2.2	2.4	2.6	2.5	2.3	2.2	2.2	2.3
65.5°	1.9	1.9	1.9	2.0	2.3	2.4	2.3	2.2	2.1	2.0	2.1
66°	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.0	1.9	1.9	1.9
66.5°	1.7	1.6	1.7	1.7	2.0	2.1	2.0	1.9	1.8	1.8	1.8
67°	1.5	1.5	1.5	1.6	1.8	1.9	1.9	1.7	1.7	1.6	1.7

TEST NUMBER: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

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	1.5
68.5°	1.2	1.2	1.2	1.3	1.5	1.6	1.5	1.4	1.3	1.3	1.4
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°	1.1	1.0	1.1	1.1	1.3	1.4	1.3	1.2	1.2	1.1	1.2
70°	1.0	1.0	1.0	1.0	1.2	1.3	1.2	1.1	1.1	1.1	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	1.0	1.0	1.0	0.9	0.9	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	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
73.5°	0.6	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
74°	0.5	0.5	0.5	0.6	0.6	0.7	0.7	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	0.6	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	0.5	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	0.4	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°	0.3	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-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	0.0	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-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	0.0	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	0.1	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	0.1	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-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	0.2	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	0.3	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°	0.2	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	0.4	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	0.4	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	0.5	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	0.5	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	0.6
147°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.6	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	0.4	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	0.4	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	0.7	0.7
151°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	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	0.7	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	0.8	0.7
155.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.8	0.8	0.8	0.8
156°	0.4	0.4	0.4	0.4	0.8	0.8	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

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°	0.5	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	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.9	0.8
161°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.9	0.9	0.9
161.5°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.9	0.9	0.9	0.9
162°	0.5	0.5	0.4	0.4	0.8	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.5	0.5	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
163°	0.5	0.5	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
163.5°	0.5	0.5	0.5	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164°	0.5	0.5	0.5	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164.5°	0.5	0.5	0.5	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.5	0.5	0.5	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165.5°	0.5	0.5	0.5	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166°	0.5	0.5	0.5	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166.5°	0.5	0.5	0.5	0.4	0.8	0.9	0.9	0.9	0.9	0.9	0.9
167°	0.5	0.5	0.5	0.4	0.8	0.8	0.9	0.9	0.9	0.9	0.9
167.5°	0.5	0.5	0.5	0.4	0.8	0.8	0.9	0.9	0.9	0.9	0.9
168°	0.5	0.5	0.5	0.4	0.8	0.8	0.8	0.9	0.9	0.8	0.8
168.5°	0.5	0.5	0.5	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
169°	0.5	0.5	0.5	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
169.5°	0.5	0.5	0.5	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.5	0.5	0.5	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	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
173°	0.5	0.5	0.4	0.4	0.7	0.8	0.8	0.8	0.8	0.8	0.8
173.5°	0.5	0.5	0.4	0.4	0.7	0.7	0.8	0.8	0.8	0.7	0.7
174°	0.5	0.5	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
174.5°	0.5	0.5	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	0.5	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	0.7	0.7	0.7	0.7	0.7	0.7	0.7
178.5°	0.6	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.6
179°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1626.2	1626.2	1626.2	1626.2	1626.2	1626.2
0.5°	1626.3	1625.2	1625.8	1626.3	1626.2	1626.5
1°	1625.9	1624.8	1625.3	1625.6	1625.5	1625.8
1.5°	1625.2	1624.1	1624.8	1624.6	1624.3	1624.9
2°	1624.3	1623.2	1623.5	1622.9	1622.8	1623.8
2.5°	1622.8	1622.2	1622.2	1621.2	1621.1	1622.3
3°	1621.3	1621.2	1620.8	1618.8	1618.2	1620.8
3.5°	1619.2	1619.5	1618.6	1615.9	1614.9	1618.2
4°	1616.8	1617.3	1616.2	1612.5	1611.3	1615.3
4.5°	1613.5	1614.9	1613.3	1608.8	1607.3	1611.8
5°	1610.1	1611.9	1610.2	1604.5	1602.8	1607.9
5.5°	1606.5	1608.6	1606.6	1600.2	1598.1	1603.5
6°	1602.4	1604.8	1602.8	1595.8	1592.9	1598.9
6.5°	1597.8	1600.6	1598.4	1591.2	1588.2	1593.6
7°	1592.9	1595.4	1593.6	1586.4	1582.8	1588.1
7.5°	1587.6	1589.8	1587.9	1581.5	1577.6	1581.9
8°	1581.6	1583.2	1581.8	1575.5	1571.9	1575.8
8.5°	1575.4	1575.8	1574.6	1569.6	1565.9	1568.6
9°	1567.8	1566.9	1566.6	1562.5	1559.2	1561.1
9.5°	1559.5	1557.2	1557.4	1554.8	1551.8	1552.7
10°	1549.8	1545.7	1546.7	1545.4	1543.7	1543.9
10.5°	1538.7	1532.9	1534.2	1535.4	1534.5	1534.2
11°	1526.2	1518.5	1520.5	1523.4	1524.1	1523.4
11.5°	1511.5	1502.4	1505.0	1509.8	1512.2	1511.5
12°	1496.0	1485.1	1488.4	1494.4	1498.4	1498.2
12.5°	1479.2	1468.0	1471.1	1478.5	1483.5	1484.5
13°	1462.3	1449.8	1453.1	1461.5	1468.5	1470.1
13.5°	1444.7	1432.3	1435.1	1444.1	1452.5	1455.1
14°	1426.8	1413.5	1416.9	1426.3	1435.7	1439.5
14.5°	1408.4	1395.1	1398.5	1408.7	1418.7	1423.9
15°	1390.1	1376.2	1379.7	1390.2	1401.4	1407.7
15.5°	1372.3	1358.1	1361.7	1372.9	1383.7	1391.0
16°	1354.6	1340.2	1344.1	1354.8	1366.0	1374.6
16.5°	1336.7	1323.1	1326.6	1337.5	1349.3	1358.1
17°	1319.5	1305.3	1308.8	1320.4	1331.8	1341.2
17.5°	1302.5	1287.8	1292.0	1302.9	1314.9	1324.0
18°	1285.6	1270.2	1274.5	1285.7	1297.3	1306.7
18.5°	1268.1	1252.9	1257.1	1268.8	1280.1	1289.7
19°	1251.7	1235.7	1240.6	1251.8	1262.7	1272.6
19.5°	1235.6	1218.2	1223.7	1235.1	1245.8	1255.7
20°	1219.5	1201.7	1207.5	1218.3	1228.4	1238.6
20.5°	1203.5	1184.6	1190.7	1202.1	1211.6	1221.6
21°	1187.5	1168.3	1174.1	1185.0	1194.4	1204.5
21.5°	1171.4	1151.3	1157.6	1168.2	1177.1	1187.5
22°	1154.9	1134.7	1141.0	1151.2	1160.2	1169.6

TEST NUMBER: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1137.9	1117.5	1123.5	1134.2	1142.1	1151.7
23°	1119.2	1099.0	1104.8	1115.7	1123.0	1132.2
23.5°	1099.1	1079.1	1085.2	1096.2	1103.8	1112.8
24°	1078.7	1057.6	1064.4	1075.3	1083.1	1092.3
24.5°	1057.5	1034.1	1042.7	1052.9	1061.2	1071.5
25°	1035.3	1011.9	1020.0	1029.7	1038.2	1049.8
25.5°	1012.0	989.1	997.1	1005.6	1015.3	1028.5
26°	988.8	966.6	973.8	980.8	991.7	1006.9
26.5°	964.6	943.1	950.1	955.9	967.4	985.9
27°	939.7	921.0	926.2	930.6	942.1	963.2
27.5°	914.5	898.2	901.4	905.3	917.5	940.9
28°	888.7	874.8	876.7	880.4	894.0	917.7
28.5°	863.2	851.2	852.4	855.7	870.5	894.5
29°	838.5	827.3	828.1	831.7	847.5	870.1
29.5°	814.2	802.5	803.7	807.9	824.8	846.2
30°	790.0	777.5	778.6	784.6	802.5	820.8
30.5°	765.7	751.6	753.7	761.1	779.5	796.3
31°	742.1	726.8	728.9	737.6	756.6	771.8
31.5°	718.3	701.4	704.4	714.2	733.3	747.5
32°	695.1	676.7	680.2	690.6	709.2	723.0
32.5°	671.9	652.4	656.4	667.0	685.3	699.4
33°	648.6	628.6	633.2	643.4	661.0	675.6
33.5°	625.1	604.3	610.5	619.2	636.5	651.7
34°	602.1	577.5	589.1	596.2	611.9	628.2
34.5°	579.1	555.9	566.8	574.3	588.4	604.3
35°	557.0	534.5	544.5	552.5	566.0	576.4
35.5°	534.6	513.0	522.2	530.6	543.7	554.4
36°	513.3	491.5	500.0	508.7	521.4	532.3
36.5°	491.7	470.7	477.7	486.8	499.0	510.2
37°	470.6	450.1	456.5	466.3	476.7	488.1
37.5°	449.7	430.1	435.7	445.9	456.0	465.2
38°	429.4	411.1	415.1	426.3	435.5	442.8
38.5°	409.7	392.2	395.1	406.3	414.7	421.1
39°	390.4	374.1	377.0	386.9	394.8	400.3
39.5°	371.3	355.6	358.5	367.2	374.7	379.6
40°	352.3	337.6	340.5	348.3	354.7	359.6
40.5°	334.4	320.5	323.1	329.4	334.7	340.6
41°	316.7	304.0	306.5	311.2	316.0	322.0
41.5°	299.7	288.1	290.1	293.6	297.2	303.8
42°	283.1	272.7	274.1	276.6	279.6	286.7
42.5°	266.6	257.9	258.7	259.4	262.2	270.1
43°	251.1	243.6	243.7	243.9	246.0	253.9
43.5°	236.0	229.5	229.3	227.9	230.0	238.0
44°	221.7	216.0	215.4	212.8	214.7	223.2
44.5°	207.8	202.9	202.2	197.9	199.8	208.7

TEST NUMBER: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	194.4	190.4	189.2	184.0	185.6	194.7
45.5°	181.6	178.3	177.0	170.4	172.2	181.3
46°	169.3	166.8	165.3	157.6	159.4	168.9
46.5°	157.7	155.5	154.0	145.5	147.1	156.5
47°	147.1	144.6	143.1	134.3	135.5	145.0
47.5°	136.5	134.3	132.6	123.9	124.8	133.7
48°	125.9	124.3	122.7	114.1	115.0	123.5
48.5°	115.3	115.0	113.3	105.2	105.8	113.4
49°	106.0	106.0	104.3	97.0	96.9	104.1
49.5°	97.2	97.3	95.7	89.4	89.3	95.2
50°	89.1	89.0	87.4	82.1	81.8	86.6
50.5°	81.3	81.1	79.8	75.3	74.9	78.4
51°	74.0	73.6	72.5	68.9	68.2	71.0
51.5°	67.1	66.4	65.7	62.7	62.2	63.7
52°	60.6	59.8	59.1	56.7	56.8	57.1
52.5°	54.3	54.1	53.6	51.4	51.3	51.3
53°	48.4	48.4	48.1	46.2	45.8	45.5
53.5°	43.0	42.8	42.6	40.9	40.4	39.7
54°	37.7	37.1	37.1	35.6	34.9	34.0
54.5°	32.8	31.5	31.7	31.1	30.2	29.4
55°	28.4	27.2	27.4	27.0	26.1	25.2
55.5°	24.6	23.4	23.7	23.2	22.5	21.5
56°	20.8	19.6	19.9	19.5	18.8	17.8
56.5°	18.3	16.1	16.5	16.1	15.3	14.4
57°	15.8	13.3	13.5	13.1	12.4	11.7
57.5°	13.4	11.1	11.3	11.0	10.3	9.6
58°	10.9	9.4	9.7	9.3	8.8	8.2
58.5°	8.5	8.2	8.4	8.1	7.6	7.0
59°	7.3	7.2	7.4	7.1	6.6	6.2
59.5°	6.5	6.4	6.6	6.3	5.8	5.6
60°	5.8	5.9	5.9	5.9	5.4	5.1
60.5°	5.2	5.4	5.5	5.4	4.9	4.6
61°	4.7	5.0	5.0	4.9	4.5	4.1
61.5°	4.3	4.5	4.6	4.5	4.0	3.7
62°	3.9	4.0	4.2	4.0	3.7	3.4
62.5°	3.6	3.7	3.9	3.7	3.4	3.1
63°	3.3	3.4	3.6	3.4	3.1	2.9
63.5°	3.0	3.2	3.3	3.1	2.9	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	2.3
65°	2.4	2.5	2.6	2.5	2.3	2.1
65.5°	2.2	2.3	2.4	2.3	2.1	1.9
66°	2.1	2.2	2.3	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	2.0	1.9	1.7	1.5

TEST NUMBER: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.7	1.8	1.8	1.7	1.5	1.4
68°	1.6	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°	1.3	1.3	1.4	1.3	1.1	1.1
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	1.1	1.1	1.0	0.9	0.8
71.5°	0.9	1.0	1.0	1.0	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	0.8	0.7	0.6
73.5°	0.7	0.7	0.7	0.7	0.6	0.6
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	0.5	0.4	0.3
76.5°	0.4	0.4	0.4	0.4	0.4	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	0.3
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	0.3	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°	0.2	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°	0.0	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-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	0.0	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	0.1
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°	0.1	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	0.2	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-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	0.2	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	0.3	0.2	0.2	0.2	0.2
139°	0.4	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°	0.6	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	0.4	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°	0.7	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°	0.7	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

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	0.5	0.4
159°	0.8	0.4	0.4	0.5	0.5	0.5
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°	0.9	0.4	0.4	0.5	0.5	0.5
162°	0.9	0.4	0.5	0.5	0.5	0.5
162.5°	0.9	0.4	0.5	0.5	0.5	0.5
163°	0.9	0.4	0.5	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°	0.9	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	0.5	0.5	0.5	0.5
170.5°	0.8	0.4	0.5	0.5	0.5	0.5
171°	0.8	0.4	0.5	0.5	0.5	0.5
171.5°	0.8	0.4	0.5	0.5	0.5	0.5
172°	0.8	0.4	0.5	0.5	0.5	0.5
172.5°	0.8	0.4	0.5	0.5	0.5	0.5
173°	0.8	0.4	0.5	0.5	0.5	0.5
173.5°	0.7	0.4	0.5	0.5	0.5	0.5
174°	0.7	0.4	0.5	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°	0.7	0.5	0.5	0.6	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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-LO-4000K

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: P1590490

CATALOG NUMBER: HCDLS1525CSD4TRMW-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	3.9	5.0	4.3	5.3	5.6	4.9	6.0	5.3	6.3	6.6
	3H	3.9	4.8	4.2	5.1	5.5	4.9	5.8	5.2	6.1	6.5
	4H	3.8	4.6	4.2	5.0	5.4	4.8	5.6	5.2	6.0	6.4
	6H	3.7	4.5	4.1	4.8	5.2	4.7	5.5	5.1	5.8	6.2
	8H	3.6	4.4	4.1	4.8	5.2	4.6	5.4	5.1	5.8	6.2
	12H	3.6	4.3	4.0	4.7	5.1	4.6	5.3	5.0	5.7	6.1
4H	2H	3.8	4.6	4.2	5.0	5.3	4.7	5.6	5.1	5.9	6.3
	3H	3.7	4.4	4.1	4.8	5.2	4.7	5.4	5.1	5.8	6.2
	4H	3.6	4.2	4.1	4.7	5.1	4.6	5.2	5.0	5.6	6.1
	6H	3.5	4.0	4.0	4.5	5.0	4.5	5.0	5.0	5.5	5.9
	8H	3.5	3.9	3.9	4.4	4.9	4.4	4.9	4.9	5.4	5.8
	12H	3.4	3.8	3.9	4.3	4.8	4.4	4.8	4.9	5.3	5.8
8H	4H	3.5	3.9	3.9	4.4	4.9	4.4	4.9	4.9	5.4	5.8
	6H	3.4	3.7	3.9	4.2	4.7	4.3	4.7	4.8	5.2	5.7
	8H	3.3	3.6	3.8	4.2	4.6	4.3	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	4.4	4.8	4.9	5.3	5.8
	6H	3.3	3.6	3.8	4.1	4.7	4.3	4.6	4.8	5.1	5.6
	8H	3.2	3.5	3.8	4.0	4.6	4.2	4.5	4.7	5.0	5.6

(END OF REPORT)