

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: P1590493

Luminaire Tested: HCDLS1525CSD4TRMW-ME-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590493
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-ME-3000K
Description: 4" Selectable Round Trim+Matte White (paintable) 2000 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

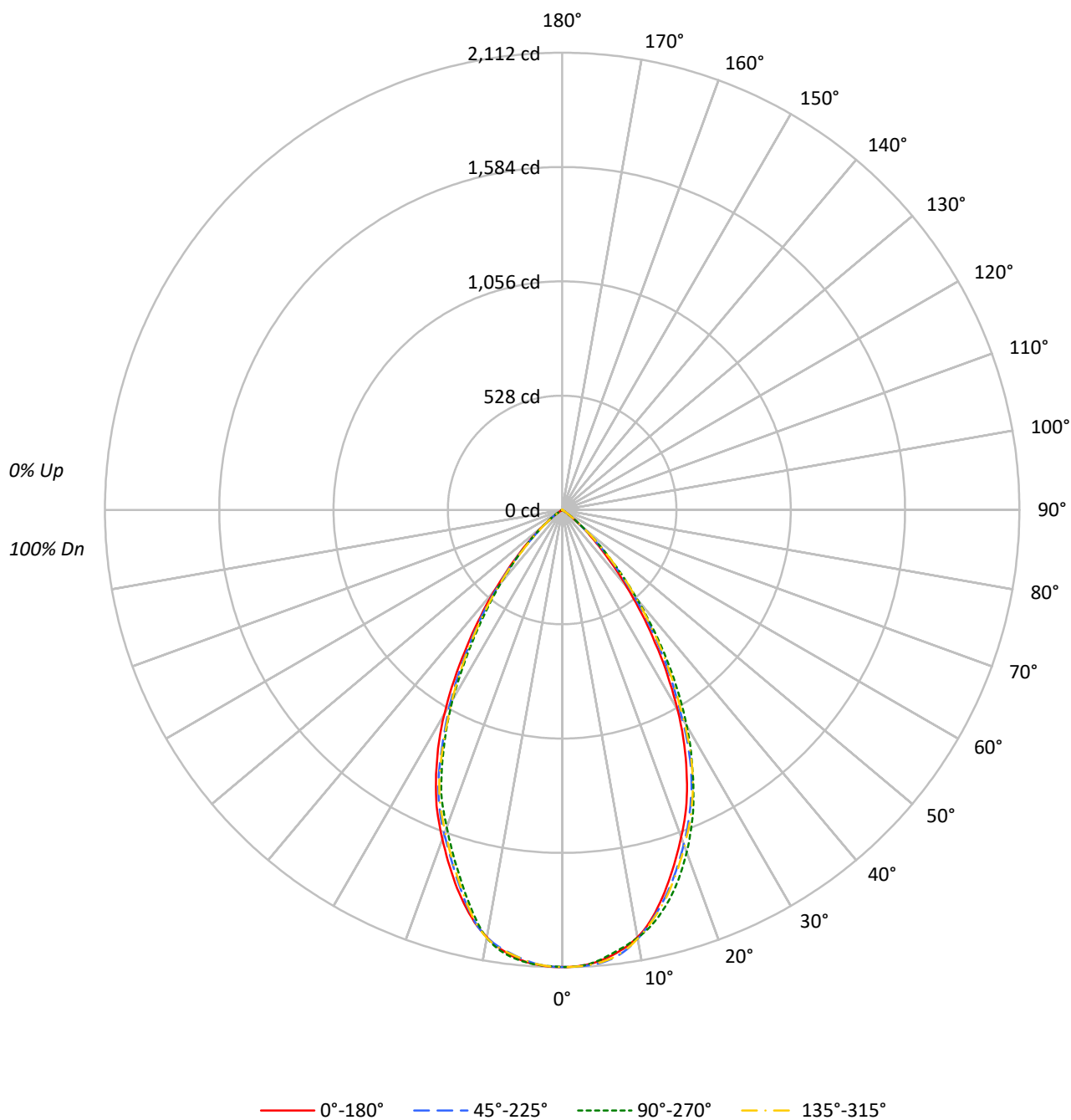
Lumens per Lamp: N/A
Luminaire Lumens: 2064.6 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
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			102
1	113	110	108	106	111	108	106	104		104	102	101			100	99	98			97
2	107	102	98	95	105	101	97	94		97	94	91			94	92	90			92
3	102	95	90	86	100	94	89	85		91	87	84			88	85	82			86
4	96	88	82	78	94	87	82	78		85	80	77			83	79	76			81
5	91	82	76	72	89	81	76	71		79	74	71			78	73	70			76
6	86	77	71	66	85	76	70	66		74	69	65			73	68	65			72
7	82	72	66	61	80	71	65	61		70	65	61			69	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	73	63	57	53	72	63	57	53		62	56	53			61	56	53			60
10	70	60	54	50	69	59	53	50		58	53	49			58	53	49			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	260407	260407	260407	260407
5°	258468	257910	258765	259111
10°	251048	251374	250998	251324
15°	233366	239929	234170	228143
20°	211069	220769	212421	204794
25°	185500	195231	187718	178790
30°	151770	163962	155046	143766
35°	112692	126861	115071	104486
40°	75162	87335	78173	70557
45°	44098	52889	46644	43103
50°	21569	24754	23104	22183
55°	7032	7462	7484	7591
60°	1653	1826	1702	1875
65°	788	934	846	963
70°	469	541	505	577
75°	238	334	286	334
80°	142	142	142	142
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 52889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	9.5
10°-20°	511.2	24.8
20°-30°	624.6	30.3
30°-40°	475.9	23.0
40°-50°	212.2	10.3
50°-60°	38.4	1.9
60°-70°	3.3	0.2
70°-80°	0.7	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°	1332.7	64.6
0°-40°	1808.6	87.6
0°-60°	2059.2	99.7
0°-90°	2063.3	99.9
90°-120°	0.0	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	2064.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2111	2111	2111	2111	2111	
5°	2088	2083	2090	2093	2088	197
15°	1828	1879	1834	1787	1828	510
25°	1363	1434	1379	1314	1363	619
35°	748	842	764	694	748	468
45°	253	303	267	247	253	201
55°	33	35	35	35	33	36
65°	3	3	3	3	3	3
75°	0	1	1	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	1	1	0	0	0
155°	0	1	1	0	0	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	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°	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2
0.5°	2111.6	2110.8	2111.0	2111.6	2110.8	2111.0	2111.9	2111.6	2111.6	2110.8	2110.8
1°	2110.7	2110.7	2111.0	2111.6	2110.8	2111.0	2111.4	2111.4	2110.8	2110.1	2110.1
1.5°	2109.5	2109.9	2110.7	2110.8	2110.1	2110.7	2110.8	2110.7	2110.1	2109.0	2109.0
2°	2108.1	2108.8	2110.1	2109.9	2108.8	2109.4	2110.1	2109.9	2108.6	2106.9	2107.3
2.5°	2106.2	2108.1	2109.2	2108.2	2106.9	2107.5	2109.4	2108.8	2106.8	2104.7	2105.1
3°	2104.2	2106.9	2107.9	2106.0	2104.2	2105.3	2107.5	2107.5	2104.7	2101.6	2101.9
3.5°	2100.8	2105.6	2106.4	2103.2	2100.5	2102.3	2105.5	2105.6	2102.3	2097.7	2098.0
4°	2097.1	2103.8	2104.9	2099.5	2095.4	2098.2	2103.4	2103.8	2098.8	2092.9	2093.4
4.5°	2092.5	2101.2	2102.5	2094.9	2089.5	2093.2	2100.3	2101.2	2094.9	2087.3	2088.2
5°	2087.5	2098.0	2098.8	2089.1	2083.0	2087.1	2096.4	2098.2	2089.9	2081.2	2082.5
5.5°	2081.7	2093.8	2094.7	2083.2	2076.0	2080.8	2091.7	2094.2	2084.7	2074.5	2076.5
6°	2075.8	2088.6	2089.7	2076.4	2068.6	2073.8	2086.5	2089.3	2078.4	2067.6	2070.0
6.5°	2068.9	2082.7	2084.0	2069.5	2061.0	2066.5	2080.4	2083.6	2071.3	2060.6	2063.6
7°	2061.7	2075.4	2076.7	2062.1	2053.5	2059.1	2073.4	2076.7	2063.7	2053.0	2056.9
7.5°	2053.7	2067.3	2068.6	2054.1	2046.1	2051.1	2065.6	2068.8	2056.1	2045.4	2049.7
8°	2045.8	2058.4	2059.3	2045.4	2038.5	2043.0	2056.7	2059.3	2047.1	2037.6	2042.2
8.5°	2036.5	2048.2	2049.1	2036.3	2030.9	2035.0	2046.7	2049.5	2037.4	2028.9	2034.1
9°	2026.7	2036.9	2037.6	2026.8	2023.1	2025.9	2035.6	2038.0	2027.2	2020.0	2025.2
9.5°	2015.7	2024.4	2025.4	2016.7	2015.4	2016.5	2023.9	2025.4	2016.5	2010.2	2015.5
10°	2004.4	2011.3	2012.0	2005.7	2007.0	2006.3	2011.1	2012.0	2004.0	1999.8	2004.6
10.5°	1991.8	1997.0	1997.7	1994.0	1997.9	1995.9	1997.7	1997.4	1990.9	1987.4	1991.6
11°	1977.7	1982.0	1982.7	1981.6	1987.9	1984.4	1983.5	1982.7	1977.2	1974.4	1977.3
11.5°	1962.3	1965.7	1967.5	1968.6	1977.2	1972.5	1968.8	1967.1	1962.3	1959.9	1961.4
12°	1945.1	1948.8	1951.6	1954.2	1965.9	1959.7	1954.0	1951.0	1946.6	1943.0	1942.9
12.5°	1927.3	1931.4	1934.5	1940.3	1952.9	1945.6	1938.4	1934.3	1928.8	1924.9	1922.1
13°	1908.6	1913.8	1917.8	1925.1	1939.9	1931.7	1922.3	1916.5	1911.9	1906.0	1901.9
13.5°	1889.1	1895.0	1900.6	1909.9	1925.6	1917.5	1905.8	1899.3	1893.2	1885.9	1880.6
14°	1868.9	1875.9	1883.2	1893.4	1910.4	1901.7	1888.9	1880.7	1874.3	1865.4	1858.3
14.5°	1848.6	1856.6	1865.4	1877.0	1894.8	1885.8	1871.1	1862.4	1853.9	1844.0	1835.9
15°	1827.5	1837.0	1846.7	1859.8	1878.9	1868.7	1854.1	1843.5	1833.8	1822.4	1812.7
15.5°	1805.9	1816.8	1828.1	1841.8	1862.2	1851.5	1835.3	1824.2	1813.4	1800.6	1789.5
16°	1784.5	1796.2	1808.6	1822.6	1844.3	1833.3	1816.6	1804.0	1792.3	1777.9	1766.7
16.5°	1763.1	1775.9	1789.0	1804.0	1826.2	1814.6	1796.7	1783.6	1770.9	1755.6	1744.2
17°	1741.3	1755.1	1769.1	1784.6	1807.4	1795.4	1776.8	1762.9	1749.2	1733.4	1721.6
17.5°	1718.8	1734.0	1748.2	1764.6	1788.0	1775.6	1756.8	1741.3	1727.3	1711.1	1699.0
18°	1696.5	1712.4	1727.2	1743.8	1767.4	1755.7	1735.7	1720.2	1705.8	1689.0	1676.7
18.5°	1674.3	1690.5	1706.3	1722.9	1746.8	1734.8	1714.9	1699.2	1683.9	1666.7	1654.9
19°	1652.2	1668.6	1685.6	1701.9	1725.3	1713.7	1694.3	1677.8	1661.4	1645.1	1632.9
19.5°	1630.3	1647.0	1664.5	1680.5	1704.2	1692.5	1673.4	1655.9	1639.7	1623.6	1613.3
20°	1608.0	1624.8	1643.2	1659.0	1681.9	1671.4	1652.6	1635.0	1618.3	1602.1	1592.2
20.5°	1585.9	1603.4	1621.7	1637.3	1660.0	1649.8	1631.1	1614.4	1595.9	1580.6	1571.1
21°	1563.7	1580.9	1599.9	1615.0	1637.5	1627.2	1609.8	1592.9	1573.6	1559.1	1550.0
21.5°	1541.7	1558.9	1578.4	1592.4	1613.6	1603.9	1588.5	1571.4	1551.2	1537.5	1528.9
22°	1518.5	1536.0	1555.7	1568.7	1589.6	1580.6	1567.2	1549.9	1528.8	1516.0	1505.7

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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°	1495.2	1513.8	1533.2	1546.0	1565.7	1557.3	1545.9	1528.4	1508.3	1492.2	1482.7
23°	1469.9	1489.8	1510.3	1520.5	1541.7	1534.0	1524.6	1504.6	1483.9	1466.9	1458.7
23.5°	1444.7	1466.1	1487.1	1496.6	1517.7	1510.7	1500.4	1481.2	1458.6	1441.4	1433.2
24°	1418.1	1441.4	1462.6	1470.1	1489.8	1484.6	1476.8	1457.1	1432.5	1415.3	1405.7
24.5°	1391.1	1415.7	1438.9	1444.6	1462.7	1458.5	1452.4	1432.1	1406.1	1387.5	1377.0
25°	1363.0	1389.1	1413.6	1416.9	1434.5	1431.6	1427.3	1406.8	1379.3	1359.3	1347.2
25.5°	1335.3	1362.7	1387.9	1390.6	1407.1	1404.6	1401.4	1381.0	1352.1	1330.3	1316.1
26°	1307.2	1334.9	1361.1	1362.8	1379.4	1377.1	1375.0	1354.3	1324.8	1301.2	1283.3
26.5°	1279.9	1307.0	1333.7	1334.7	1351.4	1349.2	1347.3	1326.0	1296.5	1271.3	1250.5
27°	1250.4	1278.5	1303.8	1306.5	1323.2	1320.7	1318.6	1297.6	1268.5	1240.9	1218.2
27.5°	1221.5	1249.8	1273.0	1277.8	1295.9	1292.9	1289.2	1268.6	1240.5	1209.6	1186.9
28°	1191.4	1220.6	1241.0	1248.6	1267.9	1264.6	1257.5	1238.6	1211.2	1178.9	1155.9
28.5°	1161.2	1189.1	1207.7	1218.5	1239.7	1235.1	1226.0	1207.8	1181.5	1147.6	1124.6
29°	1129.6	1159.0	1174.1	1188.5	1211.1	1206.3	1193.0	1175.9	1151.1	1116.9	1095.0
29.5°	1098.6	1127.5	1139.2	1158.2	1181.9	1176.4	1159.5	1142.9	1120.1	1086.7	1065.2
30°	1065.6	1094.7	1105.2	1126.8	1151.2	1146.1	1124.5	1108.9	1088.6	1056.2	1035.3
30.5°	1033.8	1060.6	1071.6	1094.1	1120.6	1114.3	1090.2	1074.5	1056.0	1025.6	1005.0
31°	1001.9	1027.6	1039.0	1061.8	1089.7	1083.0	1057.0	1040.2	1024.1	995.8	974.2
31.5°	970.5	992.8	1007.2	1029.2	1058.9	1051.0	1024.6	1005.8	991.0	965.9	943.3
32°	938.6	959.2	976.4	996.2	1027.7	1018.6	993.5	972.7	959.7	936.3	912.0
32.5°	907.9	924.8	945.7	963.7	997.5	986.4	962.3	940.4	925.8	906.0	881.0
33°	877.1	893.2	916.2	931.5	967.2	953.5	933.1	908.7	892.8	876.7	849.4
33.5°	846.1	859.7	886.1	899.1	936.4	921.1	903.2	877.9	859.7	846.1	817.7
34°	815.5	829.4	856.5	868.6	905.0	889.6	873.8	847.7	828.0	815.7	787.9
34.5°	784.5	797.6	825.7	838.3	873.7	858.6	844.2	817.9	795.3	784.8	757.5
35°	748.4	767.2	795.2	808.9	842.5	828.1	814.6	789.0	764.2	753.3	729.1
35.5°	719.7	737.9	765.7	780.2	811.3	798.1	784.4	759.1	733.9	722.5	701.5
36°	691.0	708.6	736.7	752.7	779.5	768.8	754.7	729.1	704.9	692.4	674.4
36.5°	662.3	679.3	707.6	724.1	748.4	739.1	724.9	699.4	674.8	662.5	647.0
37°	633.7	650.0	678.6	695.5	717.3	710.3	695.4	670.1	646.2	633.5	620.9
37.5°	604.0	620.7	649.5	666.9	686.8	681.8	666.3	640.3	618.3	604.5	594.1
38°	574.9	594.1	620.5	638.3	657.1	653.7	639.0	611.9	590.8	577.1	567.9
38.5°	546.7	566.9	593.7	610.1	627.2	625.3	611.5	584.3	563.5	550.2	541.2
39°	519.7	541.0	568.0	582.9	598.4	598.7	585.5	557.3	537.3	524.0	515.6
39.5°	492.8	514.9	541.5	555.6	570.1	570.9	559.7	531.6	511.2	497.3	489.9
40°	466.8	490.1	515.8	528.8	542.4	544.5	534.1	506.9	485.5	471.5	464.9
40.5°	442.2	466.1	490.7	502.6	515.6	516.8	508.5	482.1	460.1	446.4	440.2
41°	418.1	442.0	465.6	477.2	489.0	491.0	483.4	458.2	435.5	422.0	416.6
41.5°	394.4	418.4	440.2	452.3	463.8	464.9	458.5	435.0	411.8	398.0	394.0
42°	372.2	396.5	416.7	428.4	438.9	440.2	433.7	412.7	388.9	374.4	372.1
42.5°	350.6	374.2	392.9	404.5	415.0	415.2	409.0	390.1	366.8	352.1	349.9
43°	329.6	352.4	370.0	380.3	391.4	391.4	385.3	368.5	345.7	330.6	328.6
43.5°	309.0	330.5	347.3	357.0	368.2	367.6	362.1	346.9	324.4	309.8	307.1
44°	289.8	309.8	326.6	334.1	345.5	345.4	339.8	326.3	304.9	290.3	287.5
44.5°	271.0	289.8	305.7	311.9	323.9	323.0	317.9	305.6	285.7	271.4	266.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	252.8	270.7	285.8	290.3	303.2	301.8	297.1	286.0	267.4	253.0	247.7
45.5°	235.3	251.7	266.6	269.0	282.3	280.5	277.0	266.8	249.6	235.6	228.9
46°	219.3	234.0	247.6	249.1	262.6	260.6	257.4	248.3	232.2	219.0	212.2
46.5°	203.2	216.4	229.0	229.7	243.1	240.8	238.8	230.0	216.1	204.6	197.2
47°	188.2	200.6	211.2	211.4	225.2	222.0	220.2	212.8	201.6	190.1	182.2
47.5°	173.6	184.5	193.8	193.7	208.7	205.7	204.0	197.5	187.3	175.7	167.2
48°	160.4	169.9	177.4	177.2	192.3	189.5	187.9	182.3	173.0	161.3	152.2
48.5°	147.2	155.2	161.5	161.5	175.9	173.2	171.7	167.0	158.7	146.9	139.9
49°	135.1	142.0	146.4	147.0	159.4	156.9	155.6	151.8	144.4	134.8	128.8
49.5°	123.7	129.4	132.0	133.2	143.1	140.7	139.5	136.7	132.1	123.3	118.5
50°	112.4	117.3	118.6	120.0	129.0	127.2	126.0	123.9	120.4	112.8	108.9
50.5°	101.8	105.4	106.3	107.6	115.5	114.4	113.2	111.8	109.4	102.7	99.8
51°	92.2	94.9	95.0	96.1	103.3	102.7	101.5	100.5	98.7	93.4	91.2
51.5°	82.7	84.9	84.4	85.4	91.8	91.6	90.7	89.8	88.9	84.7	83.2
52°	74.1	75.6	74.8	75.7	81.1	81.3	80.5	80.0	79.4	76.3	75.5
52.5°	66.6	67.9	67.2	67.9	71.3	71.6	71.0	70.7	70.4	68.3	67.9
53°	59.1	60.3	59.6	60.1	62.3	62.9	62.4	62.0	61.9	60.6	60.7
53.5°	51.6	52.7	52.0	52.4	53.9	54.5	54.4	54.0	54.3	53.4	53.8
54°	44.1	45.0	44.4	44.6	46.6	47.2	47.2	46.6	47.0	46.7	47.3
54.5°	38.1	37.4	36.8	36.9	40.2	40.8	40.8	40.1	40.5	40.6	41.3
55°	32.7	32.1	31.6	31.7	34.7	35.3	35.2	34.7	34.8	34.9	35.7
55.5°	27.9	27.2	26.7	26.6	29.7	30.2	30.2	29.6	29.8	30.0	30.7
56°	23.1	22.3	21.8	21.8	24.8	25.1	25.1	26.4	26.1	26.7	25.8
56.5°	18.7	18.0	17.6	17.7	21.9	22.2	22.2	23.1	22.4	23.3	22.6
57°	15.1	14.6	14.3	14.5	19.0	19.3	19.3	19.9	18.8	20.0	19.6
57.5°	12.5	12.1	11.9	12.1	16.1	16.5	16.4	16.7	15.2	16.6	16.5
58°	10.6	10.2	10.1	10.4	13.3	13.7	13.6	13.5	11.5	13.3	13.4
58.5°	9.1	8.8	8.8	9.0	10.4	10.8	10.7	10.2	10.0	9.9	10.4
59°	8.0	7.7	7.7	7.9	9.2	9.6	9.4	9.0	8.7	8.7	9.0
59.5°	7.3	7.1	7.1	7.3	8.2	8.5	8.4	8.0	7.7	7.6	7.9
60°	6.7	6.5	6.4	6.7	7.4	7.7	7.5	7.1	6.9	6.8	7.0
60.5°	6.0	5.8	5.8	6.0	6.7	6.9	6.8	6.4	6.2	6.1	6.3
61°	5.3	5.2	5.2	5.4	6.1	6.3	6.2	5.8	5.6	5.5	5.7
61.5°	4.9	4.7	4.7	4.9	5.5	5.8	5.6	5.3	5.1	5.0	5.2
62°	4.4	4.3	4.3	4.5	5.1	5.3	5.2	4.9	4.7	4.6	4.7
62.5°	4.1	4.0	4.0	4.1	4.7	4.9	4.8	4.5	4.3	4.2	4.4
63°	3.7	3.6	3.7	3.8	4.3	4.5	4.4	4.1	3.9	3.9	4.0
63.5°	3.4	3.4	3.4	3.5	4.0	4.2	4.1	3.8	3.6	3.6	3.7
64°	3.2	3.1	3.1	3.3	3.7	3.9	3.8	3.5	3.4	3.3	3.4
64.5°	2.9	2.9	2.9	3.0	3.4	3.6	3.5	3.3	3.1	3.1	3.2
65°	2.7	2.7	2.7	2.8	3.2	3.3	3.2	3.0	2.9	2.8	2.9
65.5°	2.5	2.5	2.5	2.6	3.0	3.1	3.0	2.8	2.7	2.6	2.7
66°	2.3	2.3	2.3	2.4	2.7	2.9	2.8	2.6	2.5	2.5	2.5
66.5°	2.2	2.1	2.1	2.3	2.6	2.7	2.6	2.4	2.3	2.3	2.4
67°	2.0	2.0	2.0	2.1	2.4	2.5	2.4	2.2	2.2	2.1	2.2

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.9	1.8	1.9	2.0	2.2	2.3	2.3	2.1	2.0	2.0	2.0
68°	1.7	1.7	1.7	1.8	2.1	2.2	2.1	1.9	1.9	1.8	1.9
68.5°	1.6	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.7	1.7	1.8
69°	1.5	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.6
69.5°	1.4	1.4	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.5
70°	1.3	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.4
70.5°	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.3
71°	1.1	1.1	1.1	1.2	1.3	1.4	1.4	1.3	1.2	1.2	1.2
71.5°	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.2	1.1	1.1	1.1
72°	0.9	0.9	0.9	1.0	1.2	1.2	1.2	1.1	1.0	1.0	1.0
72.5°	0.9	0.8	0.9	0.9	1.1	1.1	1.1	1.0	0.9	0.9	1.0
73°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9
73.5°	0.7	0.7	0.7	0.8	0.9	1.0	0.9	0.8	0.8	0.8	0.8
74°	0.7	0.6	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
74.5°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6
75.5°	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6
76°	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
76.5°	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5
77°	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
77.5°	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
78°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3
78.5°	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3
79°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
80.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
81.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
82°	0.1	0.1	0.1	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	0.1	0.1
83°	0.0	0.0	0.0	0.0	0.1	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: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.1	0.1	0.1	0.1	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	0.1	0.1
124°	0.1	0.1	0.1	0.1	0.0	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	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	0.2
128.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
129°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
129.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
130°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
130.5°	0.2	0.2	0.2	0.2	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	0.3	0.3
133°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
133.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
134°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
134.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
135.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
136°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
136.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
137°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
137.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
138°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
138.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	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	0.5
139.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5
140°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
140.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
141°	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
141.5°	0.4	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
142°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6
142.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
143°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
143.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
144°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
144.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
145°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7
145.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
146°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
146.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.5	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.8
148°	0.5	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.8	0.8	0.8
148.5°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
149°	0.5	0.5	0.4	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
149.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
151°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.9	0.9	0.9
151.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
153°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
153.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
154°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	1.0	0.9
154.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	1.0	1.0	1.0
155°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155.5°	0.6	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
156°	0.6	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
156.5°	0.6	0.6	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
157°	0.6	0.6	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.6	0.6	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
158°	0.6	0.6	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
158.5°	0.6	0.6	0.6	0.5	1.0	1.0	1.0	1.0	1.1	1.1	1.1
159°	0.6	0.6	0.6	0.6	1.0	1.1	1.1	1.1	1.1	1.1	1.1
159.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
161°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
161.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
162°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
163°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
163.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
164°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
164.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
165°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
165.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
166°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
166.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
167°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
167.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
168°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
168.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
169°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
169.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
170°	0.6	0.6	0.6	0.6	1.0	1.0	1.1	1.1	1.1	1.1	1.1
170.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.1	1.1	1.1	1.0	1.0
171°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
171.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
172°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
173°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
173.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
174°	0.6	0.6	0.6	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0
174.5°	0.6	0.6	0.6	0.6	0.9	0.9	1.0	1.0	1.0	0.9	0.9
175°	0.6	0.6	0.6	0.6	0.9	0.9	1.0	0.9	0.9	0.9	0.9
175.5°	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9
176°	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9
176.5°	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177°	0.7	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
178°	0.7	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.8
178.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.8
179°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
179.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P1590493
CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2
0.5°	2111.4	2109.9	2110.7	2111.4	2111.2	2111.6
1°	2110.8	2109.4	2110.1	2110.5	2110.3	2110.7
1.5°	2109.9	2108.4	2109.4	2109.2	2108.8	2109.5
2°	2108.8	2107.3	2107.7	2106.9	2106.8	2108.1
2.5°	2106.8	2106.0	2106.0	2104.7	2104.5	2106.2
3°	2104.9	2104.7	2104.2	2101.6	2100.8	2104.2
3.5°	2102.1	2102.5	2101.4	2097.9	2096.6	2100.8
4°	2099.0	2099.7	2098.2	2093.4	2091.9	2097.1
4.5°	2094.7	2096.6	2094.5	2088.6	2086.7	2092.5
5°	2090.3	2092.7	2090.4	2083.0	2080.8	2087.5
5.5°	2085.6	2088.4	2085.8	2077.5	2074.7	2081.7
6°	2080.2	2083.4	2080.8	2071.7	2068.0	2075.8
6.5°	2074.3	2078.0	2075.1	2065.8	2061.9	2068.9
7°	2068.0	2071.2	2068.9	2059.5	2054.8	2061.7
7.5°	2061.1	2063.9	2061.5	2053.2	2048.2	2053.7
8°	2053.4	2055.4	2053.5	2045.4	2040.8	2045.8
8.5°	2045.2	2045.8	2044.3	2037.8	2033.0	2036.5
9°	2035.4	2034.3	2033.9	2028.5	2024.3	2026.7
9.5°	2024.6	2021.7	2021.8	2018.5	2014.6	2015.7
10°	2012.0	2006.6	2007.9	2006.3	2004.0	2004.4
10.5°	1997.6	1990.1	1991.8	1993.3	1992.2	1991.8
11°	1981.4	1971.4	1974.0	1977.7	1978.6	1977.7
11.5°	1962.3	1950.5	1953.8	1960.1	1963.3	1962.3
12°	1942.1	1928.0	1932.3	1940.1	1945.3	1945.1
12.5°	1920.4	1905.8	1909.9	1919.5	1926.0	1927.3
13°	1898.4	1882.2	1886.5	1897.4	1906.5	1908.6
13.5°	1875.6	1859.4	1863.1	1874.8	1885.8	1889.1
14°	1852.3	1835.1	1839.4	1851.7	1863.9	1868.9
14.5°	1828.5	1811.2	1815.6	1828.8	1841.8	1848.6
15°	1804.8	1786.6	1791.2	1804.8	1819.4	1827.5
15.5°	1781.6	1763.1	1767.8	1782.3	1796.4	1805.9
16°	1758.6	1739.9	1745.0	1758.9	1773.4	1784.5
16.5°	1735.4	1717.7	1722.2	1736.4	1751.8	1763.1
17°	1713.1	1694.5	1699.2	1714.2	1729.1	1741.3
17.5°	1691.0	1671.9	1677.4	1691.5	1707.1	1718.8
18°	1669.0	1649.0	1654.6	1669.1	1684.2	1696.5
18.5°	1646.3	1626.6	1632.1	1647.2	1661.9	1674.3
19°	1625.0	1604.3	1610.6	1625.1	1639.2	1652.2
19.5°	1604.1	1581.5	1588.7	1603.5	1617.3	1630.3
20°	1583.3	1560.2	1567.7	1581.7	1594.8	1608.0
20.5°	1562.4	1537.9	1545.8	1560.7	1572.9	1585.9
21°	1541.6	1516.8	1524.3	1538.4	1550.7	1563.7
21.5°	1520.8	1494.7	1502.8	1516.7	1528.1	1541.7
22°	1499.4	1473.2	1481.3	1494.5	1506.2	1518.5

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1477.2	1450.8	1458.6	1472.4	1482.7	1495.2
23°	1453.0	1426.8	1434.3	1448.5	1457.9	1469.9
23.5°	1426.9	1400.9	1408.9	1423.1	1433.1	1444.7
24°	1400.4	1373.0	1381.8	1396.0	1406.1	1418.1
24.5°	1372.9	1342.5	1353.7	1366.9	1377.7	1391.1
25°	1344.1	1313.7	1324.3	1336.8	1347.8	1363.0
25.5°	1313.9	1284.1	1294.5	1305.5	1318.1	1335.3
26°	1283.7	1254.9	1264.2	1273.3	1287.4	1307.2
26.5°	1252.3	1224.4	1233.5	1241.0	1256.0	1279.9
27°	1219.9	1195.6	1202.4	1208.2	1223.1	1250.4
27.5°	1187.3	1166.1	1170.2	1175.3	1191.1	1221.5
28°	1153.7	1135.7	1138.2	1143.0	1160.6	1191.4
28.5°	1120.7	1105.1	1106.6	1110.9	1130.1	1161.2
29°	1088.6	1074.1	1075.1	1079.7	1100.2	1129.6
29.5°	1057.1	1041.9	1043.4	1048.9	1070.8	1098.6
30°	1025.6	1009.4	1010.8	1018.7	1041.8	1065.6
30.5°	994.0	975.7	978.5	988.2	1011.9	1033.8
31°	963.4	943.6	946.3	957.6	982.3	1001.9
31.5°	932.6	910.6	914.5	927.2	952.0	970.5
32°	902.4	878.5	883.1	896.5	920.7	938.6
32.5°	872.3	847.0	852.1	865.9	889.6	907.9
33°	842.1	816.1	822.1	835.3	858.2	877.1
33.5°	811.6	784.5	792.6	803.9	826.3	846.1
34°	781.7	749.7	764.8	774.0	794.4	815.5
34.5°	751.9	721.7	735.9	745.6	763.8	784.5
35°	723.1	693.9	706.9	717.2	734.8	748.4
35.5°	694.0	666.0	678.0	688.8	705.9	719.7
36°	666.4	638.1	649.1	660.5	676.9	691.0
36.5°	638.4	611.0	620.2	632.0	647.9	662.3
37°	610.9	584.4	592.7	605.3	618.9	633.7
37.5°	583.8	558.4	565.6	578.9	592.0	604.0
38°	557.4	533.7	538.9	553.4	565.3	574.9
38.5°	531.8	509.2	512.9	527.4	538.4	546.7
39°	506.8	485.6	489.4	502.3	512.6	519.7
39.5°	482.1	461.6	465.4	476.8	486.4	492.8
40°	457.4	438.2	442.0	452.2	460.5	466.8
40.5°	434.1	416.1	419.4	427.7	434.6	442.2
41°	411.2	394.7	397.9	404.0	410.3	418.1
41.5°	389.1	374.0	376.6	381.2	385.8	394.4
42°	367.5	354.0	355.9	359.1	362.9	372.2
42.5°	346.2	334.8	335.9	336.8	340.3	350.6
43°	326.0	316.2	316.4	316.7	319.3	329.6
43.5°	306.4	298.0	297.6	295.9	298.6	309.0
44°	287.9	280.5	279.6	276.2	278.8	289.8
44.5°	269.8	263.4	262.4	256.9	259.4	271.0

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	252.4	247.1	245.6	238.8	241.0	252.8
45.5°	235.7	231.4	229.8	221.2	223.6	235.3
46°	219.8	216.5	214.6	204.6	207.0	219.3
46.5°	204.8	201.8	199.9	188.9	191.0	203.2
47°	190.9	187.8	185.8	174.4	175.9	188.2
47.5°	177.2	174.3	172.2	160.8	162.1	173.6
48°	163.5	161.4	159.3	148.1	149.3	160.4
48.5°	149.7	149.3	147.1	136.5	137.3	147.2
49°	137.6	137.6	135.4	125.9	125.8	135.1
49.5°	126.1	126.3	124.3	116.0	115.9	123.7
50°	115.7	115.6	113.5	106.6	106.2	112.4
50.5°	105.5	105.3	103.5	97.7	97.3	101.8
51°	96.1	95.6	94.2	89.4	88.6	92.2
51.5°	87.1	86.3	85.2	81.4	80.7	82.7
52°	78.7	77.6	76.7	73.7	73.7	74.1
52.5°	70.6	70.2	69.6	66.8	66.6	66.6
53°	62.9	62.9	62.5	59.9	59.5	59.1
53.5°	55.8	55.6	55.3	53.1	52.4	51.6
54°	48.9	48.2	48.2	46.2	45.3	44.1
54.5°	42.5	40.9	41.1	40.4	39.3	38.1
55°	36.9	35.3	35.6	35.1	33.8	32.7
55.5°	31.9	30.4	30.7	30.1	29.2	27.9
56°	27.0	25.5	25.8	25.4	24.4	23.1
56.5°	23.7	20.9	21.4	20.8	19.9	18.7
57°	20.5	17.2	17.5	17.0	16.2	15.1
57.5°	17.4	14.4	14.7	14.2	13.4	12.5
58°	14.2	12.2	12.6	12.1	11.4	10.6
58.5°	11.0	10.6	10.9	10.5	9.8	9.1
59°	9.5	9.3	9.6	9.2	8.6	8.0
59.5°	8.4	8.3	8.5	8.2	7.6	7.3
60°	7.5	7.6	7.6	7.6	7.0	6.7
60.5°	6.8	7.0	7.1	7.0	6.4	6.0
61°	6.1	6.4	6.5	6.4	5.8	5.3
61.5°	5.6	5.8	6.0	5.8	5.2	4.9
62°	5.1	5.3	5.4	5.2	4.8	4.4
62.5°	4.7	4.8	5.0	4.8	4.4	4.1
63°	4.3	4.4	4.6	4.4	4.0	3.7
63.5°	4.0	4.1	4.3	4.1	3.7	3.4
64°	3.7	3.8	4.0	3.8	3.4	3.2
64.5°	3.4	3.5	3.7	3.5	3.2	2.9
65°	3.1	3.3	3.4	3.2	2.9	2.7
65.5°	2.9	3.0	3.2	3.0	2.7	2.5
66°	2.7	2.8	2.9	2.8	2.5	2.3
66.5°	2.5	2.6	2.7	2.6	2.3	2.2
67°	2.3	2.4	2.5	2.4	2.2	2.0

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.2	2.3	2.4	2.2	2.0	1.9
68°	2.0	2.1	2.2	2.1	1.9	1.7
68.5°	1.9	2.0	2.1	1.9	1.7	1.6
69°	1.8	1.8	1.9	1.8	1.6	1.5
69.5°	1.6	1.7	1.8	1.7	1.5	1.4
70°	1.5	1.6	1.7	1.6	1.4	1.3
70.5°	1.4	1.5	1.5	1.4	1.3	1.2
71°	1.3	1.4	1.4	1.3	1.2	1.1
71.5°	1.2	1.3	1.3	1.2	1.1	1.0
72°	1.1	1.2	1.2	1.1	1.0	0.9
72.5°	1.0	1.1	1.1	1.1	0.9	0.9
73°	1.0	1.0	1.0	1.0	0.9	0.8
73.5°	0.9	0.9	1.0	0.9	0.8	0.7
74°	0.8	0.9	0.9	0.8	0.7	0.7
74.5°	0.8	0.8	0.8	0.8	0.7	0.6
75°	0.7	0.7	0.8	0.7	0.6	0.5
75.5°	0.6	0.7	0.7	0.6	0.6	0.5
76°	0.6	0.6	0.6	0.6	0.5	0.4
76.5°	0.5	0.6	0.6	0.5	0.5	0.4
77°	0.5	0.5	0.5	0.5	0.4	0.4
77.5°	0.4	0.5	0.5	0.4	0.4	0.3
78°	0.4	0.4	0.4	0.4	0.3	0.3
78.5°	0.3	0.4	0.4	0.4	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.2
79.5°	0.3	0.3	0.3	0.3	0.2	0.2
80°	0.2	0.2	0.3	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.1
81°	0.2	0.2	0.2	0.2	0.1	0.1
81.5°	0.1	0.2	0.2	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	0.1	0.0
83°	0.1	0.1	0.1	0.1	0.0	0.0
83.5°	0.0	0.0	0.1	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: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.1	0.0	0.0	0.0	0.0
121°	0.0	0.1	0.1	0.1	0.0	0.0
121.5°	0.0	0.1	0.1	0.1	0.1	0.1
122°	0.0	0.1	0.1	0.1	0.1	0.1
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°	0.1	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°	0.2	0.2	0.2	0.2	0.1	0.1
128.5°	0.2	0.2	0.2	0.2	0.2	0.2
129°	0.2	0.2	0.2	0.2	0.2	0.2
129.5°	0.2	0.2	0.2	0.2	0.2	0.2
130°	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.3	0.2	0.2	0.2	0.2	0.2
132.5°	0.3	0.2	0.2	0.2	0.2	0.2
133°	0.3	0.2	0.2	0.2	0.2	0.2
133.5°	0.3	0.2	0.2	0.2	0.2	0.2
134°	0.3	0.3	0.3	0.2	0.2	0.2
134.5°	0.3	0.3	0.3	0.3	0.3	0.2

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.3	0.3	0.3	0.3	0.3	0.3
135.5°	0.3	0.3	0.3	0.3	0.3	0.3
136°	0.4	0.3	0.3	0.3	0.3	0.3
136.5°	0.4	0.3	0.3	0.3	0.3	0.3
137°	0.4	0.3	0.3	0.3	0.3	0.3
137.5°	0.4	0.3	0.3	0.3	0.3	0.3
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°	0.5	0.3	0.3	0.3	0.3	0.3
139.5°	0.5	0.3	0.3	0.3	0.3	0.3
140°	0.5	0.3	0.3	0.3	0.3	0.3
140.5°	0.5	0.4	0.4	0.4	0.3	0.3
141°	0.5	0.4	0.4	0.4	0.4	0.4
141.5°	0.5	0.4	0.4	0.4	0.4	0.4
142°	0.6	0.4	0.4	0.4	0.4	0.4
142.5°	0.6	0.4	0.4	0.4	0.4	0.4
143°	0.6	0.4	0.4	0.4	0.4	0.4
143.5°	0.6	0.4	0.4	0.4	0.4	0.4
144°	0.6	0.4	0.4	0.4	0.4	0.4
144.5°	0.7	0.4	0.4	0.4	0.4	0.4
145°	0.7	0.4	0.4	0.4	0.4	0.4
145.5°	0.7	0.4	0.4	0.4	0.4	0.4
146°	0.7	0.4	0.4	0.4	0.4	0.4
146.5°	0.7	0.4	0.4	0.4	0.4	0.4
147°	0.7	0.5	0.5	0.5	0.5	0.4
147.5°	0.8	0.5	0.5	0.5	0.5	0.5
148°	0.8	0.5	0.5	0.5	0.5	0.5
148.5°	0.8	0.5	0.5	0.5	0.5	0.5
149°	0.8	0.5	0.5	0.5	0.5	0.5
149.5°	0.8	0.5	0.5	0.5	0.5	0.5
150°	0.8	0.5	0.5	0.5	0.5	0.5
150.5°	0.8	0.5	0.5	0.5	0.5	0.5
151°	0.9	0.5	0.5	0.5	0.5	0.5
151.5°	0.9	0.5	0.5	0.5	0.5	0.5
152°	0.9	0.5	0.5	0.5	0.5	0.5
152.5°	0.9	0.5	0.5	0.5	0.5	0.5
153°	0.9	0.5	0.5	0.5	0.5	0.5
153.5°	0.9	0.5	0.5	0.5	0.5	0.5
154°	0.9	0.5	0.5	0.5	0.5	0.5
154.5°	1.0	0.5	0.5	0.5	0.5	0.5
155°	1.0	0.5	0.5	0.6	0.6	0.5
155.5°	1.0	0.5	0.5	0.6	0.6	0.6
156°	1.0	0.5	0.5	0.6	0.6	0.6
156.5°	1.0	0.5	0.6	0.6	0.6	0.6
157°	1.0	0.5	0.6	0.6	0.6	0.6

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.0	0.5	0.6	0.6	0.6	0.6
158°	1.0	0.6	0.6	0.6	0.6	0.6
158.5°	1.1	0.6	0.6	0.6	0.6	0.6
159°	1.1	0.6	0.6	0.6	0.6	0.6
159.5°	1.1	0.6	0.6	0.6	0.6	0.6
160°	1.1	0.6	0.6	0.6	0.6	0.6
160.5°	1.1	0.6	0.6	0.6	0.6	0.6
161°	1.1	0.6	0.6	0.6	0.6	0.6
161.5°	1.1	0.6	0.6	0.6	0.6	0.6
162°	1.1	0.6	0.6	0.6	0.6	0.6
162.5°	1.1	0.6	0.6	0.6	0.6	0.6
163°	1.1	0.6	0.6	0.6	0.6	0.6
163.5°	1.1	0.6	0.6	0.6	0.6	0.6
164°	1.1	0.6	0.6	0.6	0.6	0.6
164.5°	1.1	0.6	0.6	0.6	0.6	0.6
165°	1.1	0.6	0.6	0.6	0.6	0.6
165.5°	1.1	0.6	0.6	0.6	0.6	0.6
166°	1.1	0.6	0.6	0.6	0.6	0.6
166.5°	1.1	0.6	0.6	0.6	0.6	0.6
167°	1.1	0.6	0.6	0.6	0.6	0.6
167.5°	1.1	0.6	0.6	0.6	0.6	0.6
168°	1.1	0.6	0.6	0.6	0.6	0.6
168.5°	1.1	0.6	0.6	0.6	0.6	0.6
169°	1.1	0.6	0.6	0.6	0.6	0.6
169.5°	1.1	0.6	0.6	0.6	0.6	0.6
170°	1.1	0.6	0.6	0.6	0.6	0.6
170.5°	1.0	0.6	0.6	0.6	0.6	0.6
171°	1.0	0.6	0.6	0.6	0.6	0.6
171.5°	1.0	0.6	0.6	0.6	0.6	0.6
172°	1.0	0.6	0.6	0.6	0.6	0.6
172.5°	1.0	0.6	0.6	0.6	0.6	0.6
173°	1.0	0.6	0.6	0.6	0.6	0.6
173.5°	1.0	0.6	0.6	0.6	0.6	0.6
174°	1.0	0.6	0.6	0.6	0.6	0.6
174.5°	0.9	0.6	0.6	0.6	0.6	0.6
175°	0.9	0.6	0.6	0.6	0.6	0.6
175.5°	0.9	0.6	0.6	0.6	0.6	0.6
176°	0.9	0.6	0.6	0.6	0.6	0.6
176.5°	0.9	0.6	0.6	0.6	0.6	0.6
177°	0.9	0.7	0.7	0.7	0.7	0.7
177.5°	0.9	0.7	0.7	0.7	0.7	0.7
178°	0.8	0.7	0.7	0.7	0.7	0.7
178.5°	0.8	0.7	0.7	0.7	0.7	0.7
179°	0.8	0.8	0.8	0.8	0.8	0.7
179.5°	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.8	0.8	0.8	0.8	0.8	0.8

TEST NUMBER: P1590493

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-3000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	4.8	5.9	5.2	6.2	6.5	5.8	6.9	6.2	7.2	7.5
	3H	4.8	5.7	5.2	6.0	6.4	5.8	6.7	6.2	7.0	7.4
	4H	4.7	5.5	5.1	5.9	6.3	5.7	6.5	6.1	6.9	7.3
	6H	4.6	5.4	5.0	5.8	6.1	5.6	6.4	6.0	6.8	7.2
	8H	4.5	5.3	5.0	5.7	6.1	5.6	6.3	6.0	6.7	7.1
	12H	4.5	5.2	4.9	5.6	6.0	5.5	6.2	5.9	6.6	7.0
4H	2H	4.7	5.5	5.1	5.9	6.3	5.6	6.5	6.0	6.8	7.2
	3H	4.6	5.3	5.0	5.7	6.1	5.6	6.3	6.0	6.7	7.1
	4H	4.5	5.1	5.0	5.6	6.0	5.5	6.1	5.9	6.5	7.0
	6H	4.4	5.0	4.9	5.4	5.9	5.4	5.9	5.9	6.4	6.9
	8H	4.4	4.9	4.8	5.3	5.8	5.3	5.8	5.8	6.3	6.8
	12H	4.3	4.7	4.8	5.2	5.7	5.3	5.7	5.8	6.2	6.7
8H	4H	4.4	4.9	4.9	5.3	5.8	5.3	5.8	5.8	6.3	6.8
	6H	4.3	4.7	4.8	5.2	5.6	5.2	5.6	5.8	6.1	6.6
	8H	4.2	4.5	4.7	5.1	5.6	5.2	5.5	5.7	6.0	6.5
	12H	4.1	4.4	4.7	4.9	5.5	5.1	5.4	5.6	5.9	6.5
12H	4H	4.3	4.7	4.8	5.2	5.7	5.3	5.7	5.8	6.2	6.7
	6H	4.2	4.5	4.7	5.0	5.6	5.2	5.5	5.7	6.0	6.5
	8H	4.1	4.4	4.7	4.9	5.5	5.1	5.4	5.6	5.9	6.5

(END OF REPORT)