

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: P1590495

Luminaire Tested: HCDLS1525CSD4TRMW-ME-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590495
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-4000K
Description: 4" Selectable Round Trim+Matte White (paintable) 2000 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

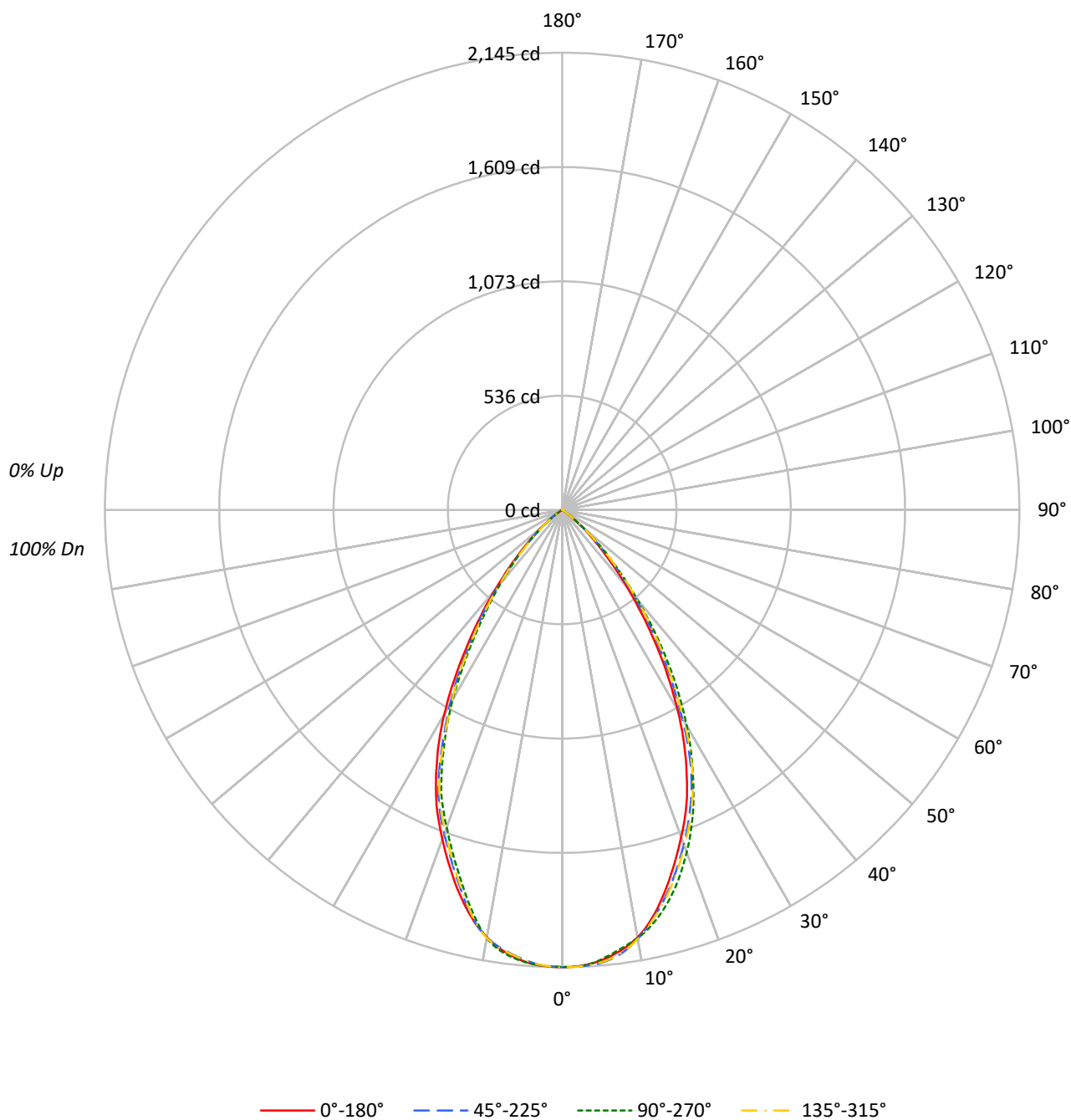
Lumens per Lamp: N/A
Luminaire Lumens: 2097.2 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

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	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93		93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86		86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79		79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73		73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68		68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63		63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	58		58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		55
9	73	63	57	53	72	63	57	53	62	56	53	61	56	53	60	56	52	51		51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	264515	264515	264515	264515
5°	262541	261984	262838	263197
10°	255006	255344	254956	255294
15°	237044	243709	237861	231744
20°	214390	224247	215768	208024
25°	188412	198307	190672	181608
30°	154163	166540	157496	146031
35°	114469	128849	116893	106127
40°	76354	88704	79413	71684
45°	44795	53727	47377	43784
50°	21914	25138	23468	22528
55°	7140	7591	7613	7720
60°	1678	1850	1727	1924
65°	817	934	846	963
70°	469	577	505	577
75°	286	334	286	334
80°	142	142	142	213
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53727 cd/sqm

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	9.5
10°-20°	519.3	24.8
20°-30°	634.4	30.3
30°-40°	483.4	23.0
40°-50°	215.5	10.3
50°-60°	39.0	1.9
60°-70°	3.4	0.2
70°-80°	0.8	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°	1353.7	64.6
0°-40°	1837.1	87.6
0°-60°	2091.6	99.7
0°-90°	2095.8	99.9
90°-120°	0.0	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	2097.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2144	2144	2144	2144	2144	
5°	2120	2116	2123	2126	2120	200
15°	1856	1908	1863	1815	1856	518
25°	1384	1457	1401	1334	1384	629
35°	760	856	776	705	760	475
45°	257	308	272	251	257	205
55°	33	35	35	36	33	37
65°	3	3	3	3	3	3
75°	1	1	1	1	1	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°	1	1	1	0	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5
0.5°	2144.9	2144.1	2144.3	2144.9	2144.1	2144.3	2145.2	2144.9	2144.9	2144.1	2144.1
1°	2143.9	2143.9	2144.3	2144.9	2144.1	2144.3	2144.7	2144.7	2144.1	2143.4	2143.4
1.5°	2142.8	2143.2	2143.9	2144.1	2143.4	2143.9	2144.1	2143.9	2143.4	2142.2	2142.2
2°	2141.3	2142.0	2143.4	2143.2	2142.0	2142.6	2143.4	2143.2	2141.9	2140.2	2140.5
2.5°	2139.4	2141.3	2142.4	2141.5	2140.2	2140.7	2142.6	2142.0	2140.0	2137.9	2138.3
3°	2137.3	2140.2	2141.1	2139.2	2137.3	2138.5	2140.7	2140.7	2137.9	2134.7	2135.1
3.5°	2133.9	2138.8	2139.6	2136.4	2133.6	2135.5	2138.7	2138.8	2135.5	2130.7	2131.1
4°	2130.2	2137.0	2138.1	2132.6	2128.5	2131.3	2136.6	2137.0	2131.9	2125.8	2126.4
4.5°	2125.5	2134.3	2135.6	2127.9	2122.5	2126.2	2133.4	2134.3	2127.9	2120.2	2121.1
5°	2120.4	2131.1	2131.9	2122.1	2115.9	2120.0	2129.4	2131.3	2122.8	2114.0	2115.3
5.5°	2114.5	2126.8	2127.7	2116.1	2108.7	2113.6	2124.7	2127.2	2117.6	2107.2	2109.3
6°	2108.5	2121.5	2122.6	2109.1	2101.2	2106.5	2119.4	2122.3	2111.2	2100.2	2102.7
6.5°	2101.6	2115.5	2116.8	2102.1	2093.5	2099.1	2113.2	2116.4	2104.0	2093.1	2096.1
7°	2094.2	2108.1	2109.5	2094.6	2085.9	2091.6	2106.1	2109.5	2096.3	2085.4	2089.3
7.5°	2086.1	2099.9	2101.2	2086.5	2078.4	2083.5	2098.2	2101.4	2088.6	2077.6	2082.0
8°	2078.0	2090.8	2091.8	2077.6	2070.7	2075.2	2089.1	2091.8	2079.3	2069.7	2074.4
8.5°	2068.6	2080.5	2081.4	2068.4	2062.9	2067.1	2079.0	2081.8	2069.5	2060.9	2066.1
9°	2058.6	2069.0	2069.7	2058.8	2055.0	2057.9	2067.7	2070.1	2059.2	2051.8	2057.1
9.5°	2047.5	2056.4	2057.3	2048.4	2047.1	2048.3	2055.8	2057.3	2048.3	2041.9	2047.3
10°	2036.0	2043.0	2043.7	2037.3	2038.7	2037.9	2042.8	2043.7	2035.6	2031.3	2036.2
10.5°	2023.2	2028.5	2029.2	2025.5	2029.4	2027.4	2029.2	2028.9	2022.3	2018.7	2023.0
11°	2008.9	2013.2	2014.0	2012.9	2019.3	2015.7	2014.7	2014.0	2008.3	2005.5	2008.5
11.5°	1993.3	1996.7	1998.5	1999.7	2008.3	2003.6	1999.9	1998.2	1993.3	1990.8	1992.3
12°	1975.8	1979.5	1982.3	1985.0	1996.8	1990.6	1984.8	1981.8	1977.3	1973.7	1973.5
12.5°	1957.7	1961.8	1965.0	1970.9	1983.7	1976.3	1969.0	1964.8	1959.2	1955.2	1952.4
13°	1938.7	1943.9	1948.1	1955.4	1970.5	1962.2	1952.6	1946.7	1942.0	1936.0	1931.9
13.5°	1918.9	1924.9	1930.6	1940.0	1956.0	1947.7	1935.8	1929.2	1923.0	1915.7	1910.2
14°	1898.3	1905.5	1912.8	1923.2	1940.5	1931.7	1918.7	1910.4	1903.8	1894.8	1887.6
14.5°	1877.7	1885.9	1894.8	1906.6	1924.7	1915.5	1900.6	1891.8	1883.1	1873.1	1864.9
15°	1856.3	1866.0	1875.8	1889.1	1908.5	1898.2	1883.3	1872.6	1862.7	1851.2	1841.3
15.5°	1834.4	1845.5	1856.9	1870.9	1891.6	1880.7	1864.3	1852.9	1842.0	1829.0	1817.7
16°	1812.7	1824.5	1837.2	1851.3	1873.4	1862.2	1845.2	1832.4	1820.5	1806.0	1794.6
16.5°	1790.9	1803.9	1817.3	1832.5	1855.0	1843.2	1825.0	1811.7	1798.8	1783.3	1771.7
17°	1768.7	1782.8	1797.0	1812.8	1835.9	1823.7	1804.8	1790.7	1776.7	1760.7	1748.7
17.5°	1745.9	1761.3	1775.8	1792.5	1816.2	1803.6	1784.5	1768.8	1754.6	1738.1	1725.8
18°	1723.2	1739.4	1754.4	1771.3	1795.2	1783.4	1763.1	1747.3	1732.7	1715.6	1703.2
18.5°	1700.7	1717.1	1733.2	1750.1	1774.4	1762.1	1741.9	1726.0	1710.5	1693.0	1681.0
19°	1678.2	1694.9	1712.2	1728.7	1752.5	1740.7	1721.0	1704.3	1687.6	1671.1	1658.6
19.5°	1656.0	1672.9	1690.8	1707.0	1731.1	1719.2	1699.8	1682.0	1665.5	1649.2	1638.7
20°	1633.3	1650.4	1669.1	1685.1	1708.4	1697.7	1678.7	1660.8	1643.8	1627.4	1617.3
20.5°	1610.9	1628.7	1647.3	1663.2	1686.2	1675.8	1656.9	1639.8	1621.1	1605.5	1595.9
21°	1588.4	1605.9	1625.1	1640.5	1663.3	1652.9	1635.2	1618.0	1598.4	1583.7	1574.4
21.5°	1566.0	1583.5	1603.2	1617.5	1639.0	1629.2	1613.6	1596.2	1575.6	1561.8	1553.0
22°	1542.4	1560.2	1580.2	1593.5	1614.7	1605.6	1591.9	1574.3	1552.9	1539.9	1529.4

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1518.8	1537.7	1557.3	1570.3	1590.3	1581.9	1570.3	1552.5	1532.0	1515.7	1506.1
23°	1493.1	1513.3	1534.1	1544.5	1566.0	1558.2	1548.7	1528.4	1507.3	1490.0	1481.7
23.5°	1467.5	1489.2	1510.5	1520.2	1541.6	1534.5	1524.1	1504.6	1481.6	1464.1	1455.8
24°	1440.5	1464.1	1485.7	1493.3	1513.3	1508.0	1500.1	1480.1	1455.1	1437.6	1427.9
24.5°	1413.0	1438.0	1461.6	1467.4	1485.8	1481.5	1475.3	1454.6	1428.3	1409.4	1398.7
25°	1384.4	1411.0	1435.9	1439.2	1457.1	1454.2	1449.8	1428.9	1401.0	1380.8	1368.4
25.5°	1356.3	1384.2	1409.8	1412.6	1429.3	1426.7	1423.5	1402.8	1373.4	1351.3	1336.8
26°	1327.8	1355.9	1382.5	1384.2	1401.2	1398.8	1396.7	1375.6	1345.7	1321.7	1303.6
26.5°	1300.1	1327.6	1354.7	1355.8	1372.7	1370.4	1368.5	1346.9	1316.9	1291.3	1270.3
27°	1270.2	1298.6	1324.4	1327.1	1344.1	1341.5	1339.4	1318.1	1288.5	1260.5	1237.4
27.5°	1240.7	1269.5	1293.0	1297.9	1316.4	1313.3	1309.5	1288.6	1260.0	1228.7	1205.6
28°	1210.2	1239.9	1260.6	1268.3	1287.9	1284.5	1277.3	1258.1	1230.3	1197.5	1174.1
28.5°	1179.6	1207.9	1226.7	1237.7	1259.2	1254.6	1245.3	1226.8	1200.2	1165.7	1142.4
29°	1147.4	1177.3	1192.6	1207.2	1230.2	1225.4	1211.9	1194.4	1169.3	1134.5	1112.3
29.5°	1115.9	1145.3	1157.2	1176.5	1200.5	1195.0	1177.8	1160.9	1137.7	1103.8	1082.0
30°	1082.4	1112.0	1122.7	1144.5	1169.3	1164.2	1142.2	1126.4	1105.8	1072.9	1051.6
30.5°	1050.1	1077.3	1088.5	1111.4	1138.3	1131.9	1107.4	1091.5	1072.6	1041.7	1020.9
31°	1017.7	1043.8	1055.4	1078.5	1106.9	1100.1	1073.7	1056.6	1040.2	1011.5	989.5
31.5°	985.8	1008.5	1023.1	1045.4	1075.6	1067.6	1040.8	1021.6	1006.6	981.1	958.2
32°	953.4	974.3	991.8	1011.9	1043.9	1034.6	1009.1	988.0	974.9	951.1	926.4
32.5°	922.3	939.4	960.6	978.9	1013.2	1001.9	977.5	955.2	940.4	920.3	894.8
33°	890.9	907.3	930.6	946.1	982.4	968.5	947.8	923.0	906.9	890.5	862.8
33.5°	859.4	873.3	900.1	913.3	951.2	935.7	917.4	891.7	873.3	859.4	830.6
34°	828.4	842.4	870.0	882.3	919.3	903.6	887.6	861.0	841.0	828.5	800.3
34.5°	796.9	810.2	838.7	851.6	887.5	872.1	857.6	830.8	807.8	797.2	769.4
35°	760.2	779.3	807.7	821.7	855.7	841.2	827.4	801.5	776.3	765.2	740.6
35.5°	731.0	749.5	777.8	792.5	824.1	810.7	796.8	771.0	745.5	733.9	712.5
36°	701.9	719.8	748.3	764.6	791.8	781.0	766.6	740.6	716.0	703.3	685.0
36.5°	672.8	690.0	718.8	735.5	760.2	750.7	736.3	710.5	685.5	673.0	657.2
37°	643.6	660.2	689.3	706.5	728.6	721.5	706.4	680.7	656.4	643.5	630.7
37.5°	613.5	630.5	659.8	677.4	697.7	692.5	676.8	650.4	628.0	614.1	603.5
38°	583.9	603.5	630.3	648.4	667.5	664.0	649.1	621.6	600.1	586.2	576.8
38.5°	555.3	575.8	603.1	619.7	637.0	635.2	621.2	593.5	572.4	558.9	549.7
39°	527.9	549.6	576.9	592.1	607.8	608.2	594.8	566.1	545.8	532.3	523.7
39.5°	500.6	523.0	550.1	564.3	579.1	579.9	568.5	539.9	519.3	505.2	497.7
40°	474.2	497.8	523.9	537.1	550.9	553.1	542.5	514.9	493.2	479.0	472.2
40.5°	449.1	473.5	498.4	510.5	523.8	525.0	516.6	489.7	467.4	453.4	447.1
41°	424.7	448.9	472.9	484.7	496.7	498.7	491.0	465.5	442.3	428.6	423.2
41.5°	400.6	425.0	447.1	459.4	471.1	472.2	465.7	441.9	418.3	404.3	400.2
42°	378.0	402.7	423.2	435.2	445.8	447.1	440.5	419.2	395.0	380.3	378.0
42.5°	356.1	380.1	399.1	410.9	421.5	421.7	415.5	396.2	372.6	357.6	355.5
43°	334.8	358.0	375.8	386.3	397.6	397.6	391.3	374.3	351.1	335.8	333.8
43.5°	313.8	335.7	352.8	362.6	374.0	373.4	367.8	352.4	329.6	314.7	312.0
44°	294.4	314.7	331.8	339.4	351.0	350.8	345.2	331.4	309.7	294.8	292.0
44.5°	275.2	294.3	310.5	316.8	329.0	328.0	322.9	310.4	290.2	275.6	271.1

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	256.8	275.0	290.3	294.9	308.0	306.6	301.8	290.5	271.6	257.0	251.6
45.5°	239.0	255.7	270.8	273.3	286.8	284.9	281.4	271.0	253.6	239.3	232.5
46°	222.7	237.7	251.5	253.0	266.8	264.8	261.4	252.2	235.8	222.5	215.6
46.5°	206.4	219.8	232.6	233.3	246.9	244.6	242.5	233.6	219.5	207.8	200.3
47°	191.2	203.7	214.5	214.8	228.7	225.5	223.6	216.1	204.8	193.1	185.0
47.5°	176.4	187.4	196.9	196.8	212.0	209.0	207.2	200.6	190.3	178.5	169.8
48°	162.9	172.6	180.2	180.0	195.4	192.5	190.8	185.1	175.7	163.8	154.6
48.5°	149.5	157.6	164.1	164.0	178.7	175.9	174.5	169.7	161.2	149.2	142.1
49°	137.3	144.3	148.7	149.3	162.0	159.4	158.1	154.2	146.7	136.9	130.8
49.5°	125.6	131.4	134.1	135.3	145.4	142.9	141.7	138.8	134.2	125.3	120.4
50°	114.2	119.2	120.5	121.9	131.0	129.2	128.0	125.9	122.3	114.5	110.6
50.5°	103.4	107.1	107.9	109.3	117.3	116.2	115.0	113.6	111.1	104.3	101.3
51°	93.6	96.4	96.5	97.6	105.0	104.3	103.1	102.0	100.3	94.9	92.6
51.5°	84.0	86.2	85.7	86.7	93.2	93.0	92.2	91.2	90.3	86.0	84.5
52°	75.3	76.8	76.0	76.9	82.4	82.5	81.8	81.2	80.6	77.5	76.7
52.5°	67.7	69.0	68.3	69.0	72.4	72.7	72.1	71.8	71.5	69.4	69.0
53°	60.0	61.3	60.5	61.1	63.3	63.8	63.4	63.0	62.9	61.6	61.6
53.5°	52.4	53.5	52.8	53.2	54.8	55.4	55.2	54.9	55.1	54.3	54.7
54°	44.8	45.7	45.1	45.3	47.3	48.0	48.0	47.3	47.7	47.4	48.0
54.5°	38.7	38.0	37.4	37.4	40.8	41.4	41.4	40.7	41.2	41.2	41.9
55°	33.2	32.6	32.1	32.2	35.3	35.9	35.8	35.2	35.4	35.5	36.3
55.5°	28.3	27.6	27.1	27.1	30.2	30.7	30.7	30.1	30.2	30.5	31.2
56°	23.4	22.6	22.2	22.1	25.2	25.5	25.5	26.8	26.5	27.1	26.2
56.5°	19.0	18.3	17.9	18.0	22.2	22.5	22.5	23.5	22.8	23.7	23.0
57°	15.4	14.8	14.5	14.7	19.3	19.7	19.6	20.2	19.1	20.3	19.9
57.5°	12.7	12.3	12.1	12.3	16.4	16.8	16.7	17.0	15.4	16.9	16.8
58°	10.8	10.4	10.3	10.5	13.5	13.9	13.8	13.7	11.7	13.5	13.7
58.5°	9.3	9.0	8.9	9.1	10.6	11.0	10.9	10.4	10.1	10.1	10.6
59°	8.1	7.9	7.8	8.1	9.3	9.7	9.6	9.1	8.8	8.8	9.1
59.5°	7.4	7.2	7.2	7.4	8.3	8.7	8.5	8.1	7.8	7.8	8.0
60°	6.8	6.6	6.5	6.8	7.5	7.8	7.6	7.2	7.0	6.9	7.2
60.5°	6.1	5.9	5.9	6.1	6.8	7.1	6.9	6.5	6.3	6.2	6.4
61°	5.4	5.3	5.3	5.5	6.1	6.4	6.3	5.9	5.7	5.6	5.8
61.5°	4.9	4.8	4.8	5.0	5.6	5.9	5.7	5.4	5.2	5.1	5.3
62°	4.5	4.4	4.4	4.6	5.2	5.4	5.3	4.9	4.7	4.7	4.8
62.5°	4.1	4.0	4.0	4.2	4.7	4.9	4.8	4.5	4.3	4.3	4.4
63°	3.8	3.7	3.7	3.9	4.4	4.6	4.5	4.2	4.0	3.9	4.1
63.5°	3.5	3.4	3.4	3.6	4.0	4.2	4.1	3.9	3.7	3.6	3.7
64°	3.2	3.2	3.2	3.3	3.7	3.9	3.8	3.6	3.4	3.4	3.5
64.5°	3.0	2.9	2.9	3.1	3.5	3.6	3.5	3.3	3.2	3.1	3.2
65°	2.8	2.7	2.7	2.9	3.2	3.4	3.3	3.1	2.9	2.9	3.0
65.5°	2.6	2.5	2.5	2.7	3.0	3.1	3.1	2.9	2.7	2.7	2.8
66°	2.4	2.3	2.3	2.5	2.8	2.9	2.8	2.6	2.5	2.5	2.6
66.5°	2.2	2.2	2.2	2.3	2.6	2.7	2.6	2.5	2.3	2.3	2.4
67°	2.0	2.0	2.0	2.1	2.4	2.5	2.5	2.3	2.2	2.2	2.2

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.9	1.9	1.9	2.0	2.3	2.4	2.3	2.1	2.0	2.0	2.1
68°	1.8	1.7	1.7	1.8	2.1	2.2	2.1	2.0	1.9	1.9	1.9
68.5°	1.6	1.6	1.6	1.7	2.0	2.1	2.0	1.8	1.8	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	1.7
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	1.6	1.7	1.6	1.5	1.4	1.4	1.4
70.5°	1.2	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.3	1.3	1.3
71°	1.1	1.1	1.1	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.2
71.5°	1.0	1.0	1.0	1.1	1.3	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	1.1
72.5°	0.9	0.8	0.9	0.9	1.1	1.1	1.1	1.0	1.0	0.9	1.0
73°	0.8	0.8	0.8	0.9	1.0	1.1	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	0.9	0.8	0.8	0.8
74°	0.7	0.6	0.7	0.7	0.9	0.9	0.9	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°	0.6	0.5	0.6	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.6
75.5°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
76°	0.5	0.4	0.5	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	0.6	0.5	0.5	0.5	0.5
77°	0.4	0.4	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	0.5	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	0.4
78.5°	0.3	0.2	0.3	0.3	0.4	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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-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°	0.1	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	0.2	0.1	0.1	0.1	0.1	0.2	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	0.3
132.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
133°	0.2	0.2	0.2	0.2	0.3	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°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.3	0.3	0.3	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	0.4	0.4	0.4
136.5°	0.3	0.3	0.3	0.3	0.4	0.4	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	0.5	0.5
139.5°	0.3	0.3	0.3	0.3	0.4	0.5	0.5	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	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
141.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6
142°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	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	0.7	0.7
145°	0.4	0.4	0.4	0.4	0.6	0.6	0.7	0.7	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°	0.5	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	0.8	0.8	0.8
148°	0.5	0.5	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
148.5°	0.5	0.5	0.4	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
149°	0.5	0.5	0.5	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	0.9	0.9	0.9
151°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	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	1.0	0.9
154°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	1.0	1.0	1.0	1.0
154.5°	0.6	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	0.6	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	0.6	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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

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	0.6	0.5	1.0	1.0	1.0	1.0	1.0	1.1	1.0
158°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.1	1.1	1.1
158.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
159°	0.6	0.6	0.6	0.6	1.1	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	1.2	1.1
163°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.2	1.2
163.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.2	1.2
164°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.2	1.2
164.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.2	1.2
165°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.1	1.1
165.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	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	1.1	1.1	1.1	1.1	1.1	1.1	1.1
170.5°	0.6	0.6	0.6	0.6	1.0	1.1	1.1	1.1	1.1	1.1	1.1
171°	0.6	0.6	0.6	0.6	1.0	1.0	1.1	1.1	1.1	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0
174.5°	0.6	0.6	0.6	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0
175°	0.6	0.6	0.6	0.6	0.9	0.9	1.0	1.0	1.0	0.9	0.9
175.5°	0.6	0.6	0.6	0.6	0.9	0.9	1.0	1.0	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	0.7	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9
178.5°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.8
179°	0.8	0.7	0.7	0.7	0.8	0.8	0.9	0.9	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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5
0.5°	2144.7	2143.2	2143.9	2144.7	2144.5	2144.9
1°	2144.1	2142.6	2143.4	2143.7	2143.6	2143.9
1.5°	2143.2	2141.7	2142.6	2142.4	2142.0	2142.8
2°	2142.0	2140.5	2140.9	2140.2	2140.0	2141.3
2.5°	2140.0	2139.2	2139.2	2137.9	2137.7	2139.4
3°	2138.1	2137.9	2137.3	2134.7	2133.9	2137.3
3.5°	2135.3	2135.6	2134.5	2130.9	2129.6	2133.9
4°	2132.1	2132.8	2131.3	2126.4	2124.9	2130.2
4.5°	2127.7	2129.6	2127.5	2121.5	2119.6	2125.5
5°	2123.2	2125.7	2123.4	2115.9	2113.6	2120.4
5.5°	2118.5	2121.3	2118.7	2110.2	2107.4	2114.5
6°	2113.0	2116.2	2113.6	2104.4	2100.6	2108.5
6.5°	2107.0	2110.8	2107.8	2098.4	2094.4	2101.6
7°	2100.6	2103.8	2101.6	2091.9	2087.2	2094.2
7.5°	2093.6	2096.5	2094.0	2085.5	2080.5	2086.1
8°	2085.7	2087.8	2085.9	2077.6	2072.9	2078.0
8.5°	2077.4	2078.0	2076.5	2069.9	2065.0	2068.6
9°	2067.5	2066.3	2066.0	2060.5	2056.2	2058.6
9.5°	2056.5	2053.5	2053.7	2050.3	2046.4	2047.5
10°	2043.7	2038.3	2039.6	2037.9	2035.6	2036.0
10.5°	2029.0	2021.5	2023.2	2024.7	2023.6	2023.2
11°	2012.7	2002.5	2005.1	2008.9	2009.8	2008.9
11.5°	1993.3	1981.2	1984.6	1991.0	1994.2	1993.3
12°	1972.7	1958.4	1962.8	1970.7	1975.9	1975.8
12.5°	1950.7	1935.8	1940.0	1949.8	1956.4	1957.7
13°	1928.3	1911.9	1916.2	1927.4	1936.6	1938.7
13.5°	1905.1	1888.7	1892.5	1904.4	1915.5	1918.9
14°	1881.5	1864.0	1868.4	1880.9	1893.3	1898.3
14.5°	1857.3	1839.8	1844.2	1857.7	1870.9	1877.7
15°	1833.2	1814.8	1819.5	1833.2	1848.1	1856.3
15.5°	1809.6	1790.9	1795.6	1810.4	1824.7	1834.4
16°	1786.3	1767.3	1772.5	1786.6	1801.4	1812.7
16.5°	1762.8	1744.8	1749.4	1763.8	1779.4	1790.9
17°	1740.1	1721.3	1726.0	1741.2	1756.3	1768.7
17.5°	1717.7	1698.2	1703.8	1718.2	1734.0	1745.9
18°	1695.3	1675.0	1680.7	1695.4	1710.8	1723.2
18.5°	1672.3	1652.2	1657.8	1673.2	1688.1	1700.7
19°	1650.6	1629.6	1636.0	1650.7	1665.1	1678.2
19.5°	1629.4	1606.4	1613.7	1628.7	1642.8	1656.0
20°	1608.2	1584.8	1592.4	1606.6	1619.9	1633.3
20.5°	1587.1	1562.2	1570.2	1585.3	1597.7	1610.9
21°	1565.9	1540.7	1548.3	1562.7	1575.1	1588.4
21.5°	1544.7	1518.3	1526.5	1540.6	1552.2	1566.0
22°	1523.0	1496.4	1504.7	1518.1	1530.0	1542.4

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1500.5	1473.6	1481.6	1495.6	1506.1	1518.8
23°	1475.9	1449.3	1456.9	1471.4	1480.9	1493.1
23.5°	1449.4	1423.0	1431.1	1445.6	1455.6	1467.5
24°	1422.5	1394.7	1403.6	1418.0	1428.2	1440.5
24.5°	1394.5	1363.7	1375.0	1388.4	1399.4	1413.0
25°	1365.3	1334.4	1345.2	1357.9	1369.1	1384.4
25.5°	1334.6	1304.4	1314.9	1326.1	1338.9	1356.3
26°	1303.9	1274.7	1284.2	1293.4	1307.7	1327.8
26.5°	1272.0	1243.7	1252.9	1260.6	1275.8	1300.1
27°	1239.2	1214.5	1221.4	1227.2	1242.4	1270.2
27.5°	1206.0	1184.5	1188.7	1193.9	1209.9	1240.7
28°	1171.9	1153.6	1156.1	1161.0	1178.9	1210.2
28.5°	1138.4	1122.5	1124.1	1128.4	1148.0	1179.6
29°	1105.8	1091.0	1092.0	1096.7	1117.6	1147.4
29.5°	1073.8	1058.3	1059.9	1065.4	1087.6	1115.9
30°	1041.8	1025.3	1026.8	1034.7	1058.3	1082.4
30.5°	1009.7	991.1	993.9	1003.7	1027.9	1050.1
31°	978.6	958.5	961.2	972.7	997.8	1017.7
31.5°	947.3	924.9	928.9	941.8	967.0	985.8
32°	916.6	892.4	897.0	910.7	935.3	953.4
32.5°	886.0	860.4	865.6	879.6	903.7	922.3
33°	855.4	828.9	835.0	848.4	871.7	890.9
33.5°	824.4	796.8	805.1	816.5	839.4	859.4
34°	794.0	761.5	776.9	786.3	807.0	828.4
34.5°	763.7	733.1	747.5	757.4	775.9	796.9
35°	734.5	704.8	718.1	728.5	746.4	760.2
35.5°	704.9	676.5	688.7	699.7	717.0	731.0
36°	676.9	648.1	659.3	670.9	687.5	701.9
36.5°	648.5	620.7	630.0	642.0	658.1	672.8
37°	620.5	593.6	602.0	614.9	628.7	643.6
37.5°	593.0	567.2	574.5	588.0	601.3	613.5
38°	566.2	542.1	547.4	562.1	574.3	583.9
38.5°	540.2	517.2	521.0	535.8	546.9	555.3
39°	514.8	493.3	497.1	510.2	520.6	527.9
39.5°	489.7	468.9	472.8	484.3	494.1	500.6
40°	464.6	445.2	449.0	459.3	467.8	474.2
40.5°	441.0	422.7	426.0	434.4	441.4	449.1
41°	417.7	400.9	404.1	410.3	416.7	424.7
41.5°	395.2	379.9	382.5	387.2	391.9	400.6
42°	373.3	359.6	361.5	364.8	368.7	378.0
42.5°	351.6	340.0	341.2	342.1	345.7	356.1
43°	331.1	321.2	321.3	321.7	324.4	334.8
43.5°	311.3	302.7	302.3	300.5	303.3	313.8
44°	292.4	284.9	284.1	280.6	283.2	294.4
44.5°	274.1	267.6	266.6	261.0	263.5	275.2

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	256.4	251.0	249.4	242.6	244.8	256.8
45.5°	239.5	235.1	233.4	224.7	227.1	239.0
46°	223.2	219.9	218.0	207.8	210.3	222.7
46.5°	208.0	205.0	203.0	191.8	194.0	206.4
47°	194.0	190.7	188.7	177.1	178.7	191.2
47.5°	180.0	177.1	174.9	163.4	164.6	176.4
48°	166.0	163.9	161.8	150.5	151.6	162.9
48.5°	152.1	151.7	149.4	138.7	139.5	149.5
49°	139.8	139.7	137.5	127.9	127.8	137.3
49.5°	128.1	128.3	126.2	117.8	117.7	125.6
50°	117.5	117.4	115.3	108.3	107.9	114.2
50.5°	107.2	107.0	105.2	99.3	98.8	103.4
51°	97.6	97.1	95.6	90.8	90.0	93.6
51.5°	88.5	87.6	86.6	82.7	82.0	84.0
52°	80.0	78.8	77.9	74.8	74.9	75.3
52.5°	71.7	71.3	70.7	67.8	67.7	67.7
53°	63.9	63.9	63.4	60.9	60.4	60.0
53.5°	56.7	56.4	56.2	53.9	53.2	52.4
54°	49.7	49.0	49.0	47.0	46.0	44.8
54.5°	43.2	41.5	41.8	41.0	39.9	38.7
55°	37.4	35.9	36.2	35.6	34.4	33.2
55.5°	32.4	30.9	31.2	30.6	29.7	28.3
56°	27.4	25.9	26.2	25.8	24.8	23.4
56.5°	24.1	21.3	21.7	21.2	20.2	19.0
57°	20.9	17.5	17.8	17.3	16.4	15.4
57.5°	17.6	14.6	14.9	14.5	13.6	12.7
58°	14.4	12.4	12.8	12.3	11.5	10.8
58.5°	11.1	10.8	11.1	10.7	10.0	9.3
59°	9.7	9.5	9.8	9.4	8.7	8.1
59.5°	8.5	8.4	8.7	8.3	7.7	7.4
60°	7.6	7.8	7.8	7.7	7.1	6.8
60.5°	6.9	7.2	7.2	7.1	6.5	6.1
61°	6.2	6.6	6.6	6.5	5.9	5.4
61.5°	5.6	5.9	6.1	5.9	5.3	4.9
62°	5.2	5.3	5.5	5.3	4.8	4.5
62.5°	4.7	4.9	5.1	4.8	4.4	4.1
63°	4.3	4.5	4.7	4.5	4.1	3.8
63.5°	4.0	4.2	4.3	4.1	3.8	3.5
64°	3.7	3.9	4.0	3.8	3.5	3.2
64.5°	3.4	3.6	3.7	3.5	3.2	3.0
65°	3.2	3.3	3.5	3.3	3.0	2.8
65.5°	3.0	3.1	3.2	3.0	2.8	2.6
66°	2.8	2.9	3.0	2.8	2.5	2.4
66.5°	2.6	2.7	2.8	2.6	2.4	2.2
67°	2.4	2.5	2.6	2.4	2.2	2.0

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.2	2.3	2.4	2.3	2.0	1.9
68°	2.1	2.2	2.2	2.1	1.9	1.8
68.5°	1.9	2.0	2.1	2.0	1.8	1.6
69°	1.8	1.9	1.9	1.8	1.6	1.5
69.5°	1.7	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	1.6	1.5	1.3	1.2
71°	1.3	1.4	1.4	1.4	1.2	1.1
71.5°	1.2	1.3	1.3	1.3	1.1	1.0
72°	1.1	1.2	1.2	1.2	1.0	0.9
72.5°	1.1	1.1	1.2	1.1	1.0	0.9
73°	1.0	1.0	1.1	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	0.6
75.5°	0.6	0.7	0.7	0.7	0.6	0.5
76°	0.6	0.6	0.6	0.6	0.5	0.5
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	0.4	0.3	0.3	0.2
79.5°	0.3	0.3	0.3	0.3	0.2	0.2
80°	0.2	0.3	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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-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	0.1	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	0.2	0.2	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	0.3	0.2	0.2
134.5°	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

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°	0.4	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	0.4	0.4	0.4	0.3	0.3
140.5°	0.5	0.4	0.4	0.4	0.4	0.3
141°	0.5	0.4	0.4	0.4	0.4	0.4
141.5°	0.6	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	0.5	0.5	0.5	0.4	0.4
147°	0.7	0.5	0.5	0.5	0.5	0.5
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°	0.9	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°	1.0	0.5	0.5	0.5	0.5	0.5
154°	1.0	0.5	0.5	0.5	0.5	0.5
154.5°	1.0	0.5	0.5	0.6	0.6	0.6
155°	1.0	0.5	0.5	0.6	0.6	0.6
155.5°	1.0	0.5	0.6	0.6	0.6	0.6
156°	1.0	0.5	0.6	0.6	0.6	0.6
156.5°	1.0	0.6	0.6	0.6	0.6	0.6
157°	1.0	0.6	0.6	0.6	0.6	0.6

TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.0	0.6	0.6	0.6	0.6	0.6
158°	1.1	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°	1.1	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°	1.0	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	0.7	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°	0.9	0.7	0.7	0.7	0.7	0.7
178.5°	0.8	0.7	0.7	0.8	0.7	0.7
179°	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



TEST NUMBER: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

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: P1590495

CATALOG NUMBER: HCDLS1525CSD4TRMW-ME-4000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	4.9	5.9	5.3	6.3	6.6	5.9	6.9	6.3	7.3	7.6
	3H	4.8	5.7	5.2	6.1	6.4	5.8	6.7	6.2	7.1	7.5
	4H	4.8	5.6	5.2	5.9	6.3	5.8	6.6	6.2	7.0	7.4
	6H	4.7	5.4	5.1	5.8	6.2	5.7	6.4	6.1	6.8	7.2
	8H	4.6	5.3	5.0	5.7	6.1	5.6	6.3	6.1	6.7	7.1
	12H	4.5	5.2	5.0	5.6	6.1	5.6	6.2	6.0	6.6	7.1
4H	2H	4.7	5.6	5.1	5.9	6.3	5.7	6.5	6.1	6.9	7.3
	3H	4.7	5.4	5.1	5.8	6.2	5.7	6.3	6.1	6.7	7.2
	4H	4.6	5.2	5.0	5.6	6.1	5.6	6.2	6.0	6.6	7.1
	6H	4.5	5.0	5.0	5.5	5.9	5.5	6.0	6.0	6.4	6.9
	8H	4.4	4.9	4.9	5.4	5.8	5.4	5.9	5.9	6.3	6.8
	12H	4.4	4.8	4.8	5.3	5.7	5.3	5.8	5.8	6.3	6.7
8H	4H	4.4	4.9	4.9	5.4	5.8	5.4	5.9	5.9	6.3	6.8
	6H	4.3	4.7	4.8	5.2	5.7	5.3	5.7	5.8	6.2	6.7
	8H	4.2	4.6	4.8	5.1	5.6	5.2	5.6	5.8	6.1	6.6
	12H	4.2	4.5	4.7	5.0	5.6	5.2	5.5	5.7	6.0	6.6
12H	4H	4.4	4.8	4.9	5.3	5.8	5.3	5.8	5.8	6.3	6.7
	6H	4.3	4.6	4.8	5.1	5.6	5.2	5.6	5.8	6.1	6.6
	8H	4.2	4.5	4.7	5.0	5.6	5.2	5.5	5.7	6.0	6.6

(END OF REPORT)