

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: P1590478

Luminaire Tested: HCDLS1525CSD4TRH-ME-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2603928A002)
Test Lab: INNOVATION CENTER
Issue Date: 9/4/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HCDLS1525CSD4TRH-ME-3000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 2000 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

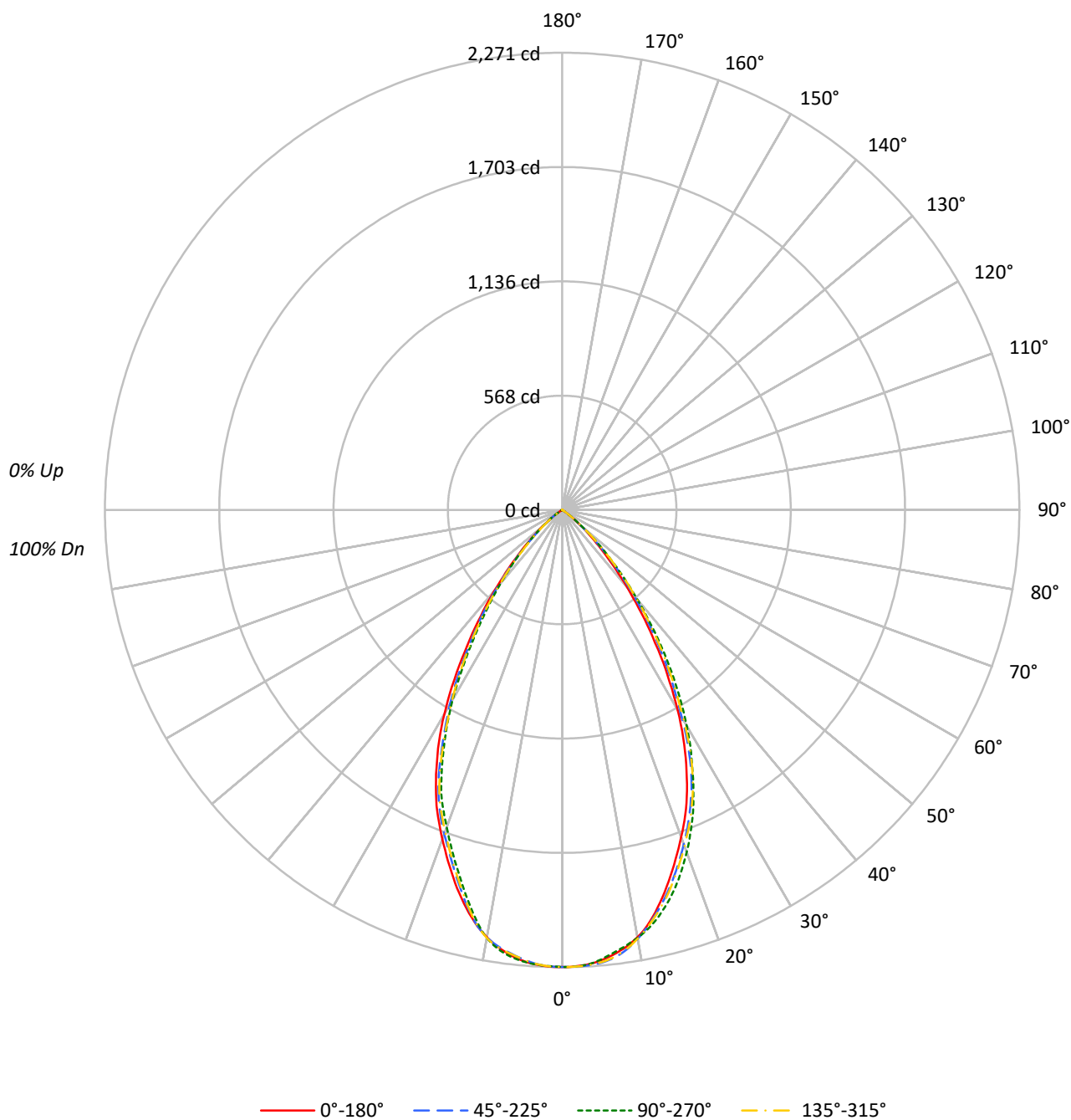
Lumens per Lamp: N/A
Luminaire Lumens: 2220.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

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°	280007	280007	280007	280007
5°	277919	277325	278241	278613
10°	269948	270299	269898	270249
15°	250937	257986	251805	245318
20°	226951	237387	228408	220205
25°	199450	209929	201845	192237
30°	163193	176296	166725	154591
35°	121169	136408	123744	112346
40°	80830	93905	84067	75871
45°	47412	56884	50151	46348
50°	23200	26615	24850	23852
55°	7570	8021	8064	8172
60°	1776	1949	1826	2023
65°	846	992	905	1022
70°	505	613	541	613
75°	286	381	334	381
80°	142	213	142	213
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 56884 cd/sqm

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	9.5
10°-20°	549.7	24.8
20°-30°	671.6	30.3
30°-40°	511.7	23.0
40°-50°	228.1	10.3
50°-60°	41.3	1.9
60°-70°	3.6	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°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1433.0	64.6
0°-40°	1944.7	87.6
0°-60°	2214.2	99.7
0°-90°	2218.6	99.9
90°-120°	0.0	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2220.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2270	2270	2270	2270	2270	
5°	2245	2240	2247	2250	2245	211
15°	1965	2020	1972	1921	1965	548
25°	1466	1542	1483	1412	1466	666
35°	805	906	822	746	805	503
45°	272	326	288	266	272	217
55°	35	37	38	38	35	39
65°	3	3	3	4	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	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1
0.5°	2270.5	2269.7	2269.9	2270.5	2269.7	2269.9	2270.9	2270.5	2270.5	2269.7	2269.7
1°	2269.5	2269.5	2269.9	2270.5	2269.7	2269.9	2270.3	2270.3	2269.7	2268.9	2268.9
1.5°	2268.3	2268.7	2269.5	2269.7	2268.9	2269.5	2269.7	2269.5	2268.9	2267.7	2267.7
2°	2266.7	2267.5	2268.9	2268.7	2267.5	2268.1	2268.9	2268.7	2267.3	2265.5	2265.9
2.5°	2264.7	2266.7	2267.9	2266.9	2265.5	2266.1	2268.1	2267.5	2265.3	2263.1	2263.5
3°	2262.5	2265.5	2266.5	2264.5	2262.5	2263.7	2266.1	2266.1	2263.1	2259.7	2260.1
3.5°	2259.0	2264.1	2264.9	2261.5	2258.6	2260.5	2263.9	2264.1	2260.5	2255.6	2256.0
4°	2255.0	2262.1	2263.3	2257.6	2253.2	2256.2	2261.7	2262.1	2256.8	2250.4	2251.0
4.5°	2250.0	2259.4	2260.7	2252.6	2246.8	2250.8	2258.4	2259.4	2252.6	2244.4	2245.4
5°	2244.6	2256.0	2256.8	2246.4	2239.8	2244.2	2254.2	2256.2	2247.2	2237.8	2239.2
5.5°	2238.4	2251.4	2252.4	2240.0	2232.2	2237.4	2249.2	2251.8	2241.6	2230.6	2232.8
6°	2232.0	2245.8	2247.0	2232.6	2224.3	2229.8	2243.6	2246.6	2234.8	2223.3	2225.9
6.5°	2224.7	2239.4	2240.8	2225.3	2216.1	2222.1	2237.0	2240.4	2227.3	2215.7	2218.9
7°	2216.9	2231.6	2233.0	2217.3	2208.1	2214.1	2229.4	2233.0	2219.1	2207.5	2211.7
7.5°	2208.3	2222.9	2224.3	2208.7	2200.1	2205.5	2221.1	2224.5	2210.9	2199.3	2203.9
8°	2199.7	2213.3	2214.3	2199.3	2192.0	2196.8	2211.5	2214.3	2201.1	2191.0	2196.0
8.5°	2189.8	2202.3	2203.3	2189.6	2183.8	2188.2	2200.7	2203.7	2190.8	2181.6	2187.2
9°	2179.2	2190.2	2191.0	2179.4	2175.4	2178.4	2188.8	2191.4	2179.8	2172.0	2177.6
9.5°	2167.4	2176.8	2177.8	2168.4	2167.0	2168.2	2176.2	2177.8	2168.2	2161.5	2167.2
10°	2155.3	2162.7	2163.5	2156.7	2158.1	2157.3	2162.5	2163.5	2154.9	2150.3	2155.5
10.5°	2141.7	2147.3	2148.1	2144.1	2148.3	2146.1	2148.1	2147.7	2140.7	2136.9	2141.5
11°	2126.6	2131.2	2132.0	2130.8	2137.5	2133.8	2132.8	2132.0	2126.0	2123.0	2126.2
11.5°	2110.0	2113.6	2115.6	2116.8	2126.0	2121.0	2117.0	2115.2	2110.0	2107.4	2109.0
12°	2091.5	2095.5	2098.5	2101.3	2113.8	2107.2	2101.1	2097.9	2093.1	2089.3	2089.1
12.5°	2072.4	2076.7	2080.1	2086.3	2099.9	2092.1	2084.3	2079.9	2073.9	2069.8	2066.8
13°	2052.2	2057.8	2062.2	2070.0	2085.9	2077.1	2067.0	2060.8	2055.8	2049.4	2045.0
13.5°	2031.3	2037.7	2043.6	2053.6	2070.6	2061.8	2049.2	2042.2	2035.7	2027.9	2022.1
14°	2009.6	2017.1	2024.9	2035.9	2054.2	2044.8	2031.1	2022.3	2015.3	2005.8	1998.2
14.5°	1987.7	1996.4	2005.8	2018.3	2037.5	2027.7	2011.9	2002.6	1993.4	1982.8	1974.1
15°	1965.1	1975.3	1985.7	1999.8	2020.3	2009.4	1993.6	1982.3	1971.9	1959.6	1949.2
15.5°	1941.8	1953.6	1965.7	1980.4	2002.4	1990.8	1973.5	1961.5	1949.9	1936.2	1924.2
16°	1918.9	1931.4	1944.8	1959.8	1983.2	1971.3	1953.3	1939.8	1927.2	1911.7	1899.7
16.5°	1895.9	1909.5	1923.7	1939.8	1963.7	1951.2	1931.9	1917.8	1904.2	1887.8	1875.5
17°	1872.3	1887.2	1902.2	1918.9	1943.4	1930.5	1910.5	1895.6	1880.8	1863.8	1851.2
17.5°	1848.2	1864.5	1879.8	1897.5	1922.6	1909.3	1889.0	1872.4	1857.3	1839.9	1826.9
18°	1824.1	1841.3	1857.2	1875.0	1900.4	1887.8	1866.4	1849.6	1834.2	1816.1	1803.0
18.5°	1800.3	1817.7	1834.7	1852.6	1878.3	1865.4	1844.0	1827.1	1810.7	1792.2	1779.5
19°	1776.5	1794.2	1812.5	1830.0	1855.1	1842.7	1821.8	1804.1	1786.4	1768.9	1755.8
19.5°	1753.0	1770.9	1789.8	1807.0	1832.5	1819.9	1799.4	1780.5	1763.1	1745.8	1734.7
20°	1729.0	1747.1	1766.9	1783.9	1808.5	1797.2	1777.0	1758.1	1740.1	1722.7	1712.0
20.5°	1705.3	1724.1	1743.8	1760.6	1784.9	1773.9	1753.9	1735.9	1716.1	1699.6	1689.4
21°	1681.4	1699.9	1720.3	1736.5	1760.8	1749.7	1731.0	1712.8	1692.0	1676.4	1666.7
21.5°	1657.7	1676.3	1697.2	1712.3	1735.0	1724.7	1708.1	1689.7	1667.9	1653.3	1644.0
22°	1632.8	1651.6	1672.8	1686.8	1709.3	1699.6	1685.2	1666.6	1643.9	1630.1	1619.0

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1607.7	1627.8	1648.6	1662.3	1683.5	1674.5	1662.3	1643.4	1621.8	1604.5	1594.3
23°	1580.5	1602.0	1624.0	1634.9	1657.7	1649.5	1639.4	1617.9	1595.6	1577.3	1568.5
23.5°	1553.5	1576.5	1599.0	1609.3	1631.9	1624.4	1613.4	1592.7	1568.4	1549.8	1541.1
24°	1524.8	1549.9	1572.7	1580.7	1601.9	1596.3	1588.0	1566.8	1540.3	1521.9	1511.5
24.5°	1495.8	1522.3	1547.2	1553.3	1572.8	1568.3	1561.8	1539.8	1511.9	1492.0	1480.6
25°	1465.5	1493.7	1520.0	1523.6	1542.5	1539.4	1534.8	1512.6	1483.1	1461.7	1448.6
25.5°	1435.8	1465.2	1492.4	1495.3	1513.0	1510.3	1506.9	1484.9	1453.9	1430.5	1415.1
26°	1405.6	1435.4	1463.5	1465.3	1483.3	1480.7	1478.5	1456.2	1424.5	1399.1	1379.9
26.5°	1376.2	1405.4	1434.0	1435.2	1453.1	1450.7	1448.7	1425.8	1394.1	1367.0	1344.7
27°	1344.6	1374.7	1402.0	1404.9	1422.8	1420.1	1417.9	1395.3	1364.0	1334.3	1309.9
27.5°	1313.4	1343.8	1368.8	1373.9	1393.5	1390.2	1386.3	1364.1	1333.9	1300.6	1276.3
28°	1281.1	1312.5	1334.4	1342.6	1363.4	1359.8	1352.1	1331.8	1302.4	1267.7	1242.9
28.5°	1248.7	1278.6	1298.6	1310.2	1333.0	1328.1	1318.2	1298.7	1270.5	1233.9	1209.3
29°	1214.6	1246.2	1262.4	1277.9	1302.3	1297.1	1282.8	1264.4	1237.8	1201.0	1177.5
29.5°	1181.3	1212.4	1224.9	1245.4	1270.8	1265.0	1246.8	1228.9	1204.4	1168.5	1145.4
30°	1145.8	1177.1	1188.4	1211.6	1237.8	1232.3	1209.1	1192.4	1170.6	1135.7	1113.2
30.5°	1111.6	1140.4	1152.3	1176.5	1205.0	1198.2	1172.3	1155.4	1135.4	1102.7	1080.7
31°	1077.3	1105.0	1117.3	1141.7	1171.7	1164.6	1136.6	1118.5	1101.1	1070.7	1047.5
31.5°	1043.5	1067.6	1083.0	1106.6	1138.6	1130.2	1101.7	1081.5	1065.6	1038.6	1014.3
32°	1009.3	1031.4	1049.9	1071.1	1105.0	1095.2	1068.2	1045.9	1032.0	1006.8	980.6
32.5°	976.3	994.4	1016.8	1036.2	1072.6	1060.6	1034.8	1011.2	995.5	974.2	947.3
33°	943.1	960.5	985.1	1001.6	1040.0	1025.2	1003.3	977.0	960.0	942.7	913.3
33.5°	909.8	924.5	952.8	966.8	1006.9	990.5	971.1	944.0	924.4	909.7	879.2
34°	876.9	891.8	920.9	934.0	973.1	956.6	939.6	911.5	890.3	877.0	847.2
34.5°	843.6	857.6	887.8	901.4	939.4	923.2	907.8	879.5	855.2	843.9	814.5
35°	804.7	824.9	855.0	869.8	905.9	890.4	875.9	848.4	821.8	810.0	784.0
35.5°	773.9	793.4	823.3	838.9	872.4	858.2	843.5	816.2	789.2	776.9	754.3
36°	743.0	761.9	792.1	809.4	838.2	826.7	811.5	784.0	758.0	744.5	725.1
36.5°	712.2	730.4	760.9	778.6	804.7	794.7	779.5	752.1	725.6	712.4	695.7
37°	681.4	698.9	729.7	747.9	771.3	763.7	747.8	720.5	694.8	681.2	667.6
37.5°	649.4	667.4	698.4	717.1	738.5	733.1	716.4	688.5	664.8	650.0	638.9
38°	618.1	638.8	667.2	686.4	706.6	702.9	687.1	658.0	635.3	620.6	610.6
38.5°	587.8	609.5	638.4	656.0	674.4	672.4	657.6	628.3	605.9	591.6	581.9
39°	558.8	581.8	610.7	626.7	643.4	643.8	629.6	599.3	577.7	563.5	554.4
39.5°	529.9	553.7	582.3	597.4	613.0	613.8	601.8	571.6	549.7	534.7	526.8
40°	502.0	526.9	554.6	568.6	583.2	585.5	574.3	545.1	522.1	507.0	499.9
40.5°	475.5	501.2	527.6	540.4	554.5	555.7	546.8	518.3	494.7	480.0	473.3
41°	449.5	475.2	500.6	513.1	525.8	527.9	519.8	492.7	468.3	453.7	448.0
41.5°	424.0	449.9	473.3	486.3	498.7	499.9	493.0	467.8	442.8	427.9	423.6
42°	400.2	426.3	448.0	460.7	471.9	473.3	466.3	443.8	418.2	402.5	400.1
42.5°	377.0	402.4	422.5	435.0	446.2	446.4	439.8	419.5	394.4	378.6	376.3
43°	354.4	379.0	397.8	408.9	420.8	420.8	414.3	396.2	371.7	355.5	353.3
43.5°	332.2	355.4	373.5	383.9	395.9	395.2	389.3	373.1	348.9	333.2	330.3
44°	311.6	333.2	351.2	359.3	371.5	371.4	365.4	350.9	327.8	312.1	309.1
44.5°	291.4	311.6	328.7	335.4	348.2	347.3	341.8	328.6	307.2	291.8	287.0

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	271.8	291.1	307.3	312.2	326.1	324.6	319.5	307.5	287.5	272.1	266.4
45.5°	253.0	270.7	286.7	289.3	303.6	301.6	297.9	286.8	268.4	253.3	246.2
46°	235.8	251.7	266.3	267.8	282.4	280.3	276.8	267.0	249.6	235.5	228.2
46.5°	218.5	232.7	246.3	247.0	261.4	258.9	256.8	247.3	232.3	220.0	212.0
47°	202.4	215.7	227.1	227.4	242.1	238.7	236.7	228.8	216.8	204.4	195.9
47.5°	186.7	198.3	208.4	208.3	224.5	221.2	219.3	212.4	201.4	188.9	179.7
48°	172.4	182.7	190.7	190.5	206.8	203.7	202.0	196.0	186.0	173.4	163.6
48.5°	158.3	166.9	173.7	173.7	189.1	186.2	184.7	179.6	170.6	157.9	150.5
49°	145.3	152.7	157.5	158.1	171.4	168.7	167.3	163.2	155.2	144.9	138.4
49.5°	133.0	139.1	141.9	143.2	153.9	151.3	150.0	147.0	142.0	132.6	127.4
50°	120.9	126.2	127.5	129.0	138.7	136.8	135.4	133.3	129.5	121.2	117.1
50.5°	109.5	113.3	114.3	115.7	124.2	123.0	121.8	120.2	117.6	110.5	107.3
51°	99.1	102.1	102.1	103.3	111.1	110.4	109.2	108.0	106.2	100.4	98.1
51.5°	89.0	91.2	90.7	91.8	98.7	98.4	97.6	96.6	95.6	91.0	89.5
52°	79.7	81.3	80.4	81.4	87.3	87.4	86.6	86.0	85.3	82.0	81.1
52.5°	71.6	73.1	72.3	73.0	76.6	77.0	76.4	76.0	75.7	73.4	73.0
53°	63.5	64.8	64.1	64.7	67.0	67.6	67.1	66.7	66.6	65.2	65.2
53.5°	55.5	56.6	55.9	56.3	58.0	58.6	58.5	58.1	58.4	57.4	57.9
54°	47.5	48.4	47.8	47.9	50.1	50.8	50.8	50.1	50.5	50.2	50.9
54.5°	41.0	40.2	39.6	39.6	43.2	43.9	43.8	43.1	43.6	43.6	44.4
55°	35.2	34.5	34.0	34.1	37.3	38.0	37.9	37.3	37.5	37.6	38.4
55.5°	30.0	29.2	28.7	28.6	31.9	32.5	32.4	31.8	32.0	32.3	33.0
56°	24.8	23.9	23.5	23.4	26.6	27.0	27.0	28.3	28.0	28.7	27.7
56.5°	20.1	19.4	19.0	19.0	23.5	23.9	23.9	24.9	24.1	25.1	24.3
57°	16.3	15.7	15.3	15.6	20.5	20.8	20.8	21.4	20.2	21.5	21.0
57.5°	13.4	13.0	12.8	13.0	17.4	17.8	17.7	17.9	16.3	17.9	17.7
58°	11.4	11.0	10.9	11.2	14.3	14.7	14.6	14.5	12.4	14.3	14.5
58.5°	9.8	9.5	9.4	9.7	11.2	11.7	11.5	11.0	10.7	10.7	11.2
59°	8.6	8.3	8.3	8.5	9.9	10.3	10.1	9.6	9.4	9.3	9.6
59.5°	7.9	7.6	7.6	7.8	8.8	9.2	9.0	8.6	8.3	8.2	8.5
60°	7.2	6.9	6.9	7.2	7.9	8.2	8.1	7.7	7.4	7.3	7.6
60.5°	6.4	6.3	6.2	6.5	7.2	7.5	7.3	6.9	6.6	6.6	6.8
61°	5.7	5.6	5.6	5.8	6.5	6.8	6.6	6.3	6.0	5.9	6.1
61.5°	5.2	5.1	5.1	5.3	5.9	6.2	6.1	5.7	5.5	5.4	5.6
62°	4.8	4.6	4.6	4.8	5.5	5.7	5.6	5.2	5.0	4.9	5.1
62.5°	4.4	4.3	4.3	4.5	5.0	5.2	5.1	4.8	4.6	4.5	4.7
63°	4.0	3.9	3.9	4.1	4.6	4.8	4.7	4.4	4.2	4.2	4.3
63.5°	3.7	3.6	3.6	3.8	4.3	4.5	4.4	4.1	3.9	3.9	4.0
64°	3.4	3.3	3.4	3.5	4.0	4.1	4.0	3.8	3.6	3.6	3.7
64.5°	3.2	3.1	3.1	3.3	3.7	3.9	3.7	3.5	3.3	3.3	3.4
65°	2.9	2.9	2.9	3.0	3.4	3.6	3.5	3.2	3.1	3.1	3.2
65.5°	2.7	2.7	2.7	2.8	3.2	3.3	3.2	3.0	2.9	2.8	2.9
66°	2.5	2.5	2.5	2.6	3.0	3.1	3.0	2.8	2.7	2.6	2.7
66.5°	2.3	2.3	2.3	2.4	2.7	2.9	2.8	2.6	2.5	2.5	2.5
67°	2.2	2.1	2.1	2.3	2.6	2.7	2.6	2.4	2.3	2.3	2.4

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.0	2.0	2.0	2.1	2.4	2.5	2.4	2.3	2.1	2.1	2.2
68°	1.9	1.8	1.9	2.0	2.2	2.3	2.3	2.1	2.0	2.0	2.0
68.5°	1.7	1.7	1.7	1.8	2.1	2.2	2.1	1.9	1.9	1.8	1.9
69°	1.6	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.7	1.7	1.8
69.5°	1.5	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.6
70°	1.4	1.3	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.5
70.5°	1.3	1.2	1.3	1.3	1.5	1.6	1.6	1.5	1.4	1.4	1.4
71°	1.2	1.1	1.2	1.3	1.4	1.5	1.5	1.3	1.3	1.3	1.3
71.5°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2
72°	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.2	1.1	1.1	1.1
72.5°	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.1	1.0	1.0	1.0
73°	0.8	0.8	0.8	0.9	1.1	1.1	1.1	1.0	0.9	0.9	1.0
73.5°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9
74°	0.7	0.7	0.7	0.8	0.9	1.0	0.9	0.8	0.8	0.8	0.8
74.5°	0.6	0.6	0.6	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.7
75°	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.7
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	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5	0.5	0.6
76.5°	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
77°	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.4	0.4	0.5
77.5°	0.3	0.3	0.3	0.4	0.5	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	0.4	0.4	0.4
78.5°	0.3	0.3	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	0.3	0.3	0.4	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	0.3	0.2	0.2	0.3
80°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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	0.2	0.1	0.1	0.2
81.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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	0.1	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	0.1	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.1	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: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.1	0.1	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	0.1	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	0.2
128°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
128.5°	0.2	0.2	0.2	0.2	0.1	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	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	0.3
132°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
132.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
134.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
135.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
136°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	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	0.5
138.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5
139°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
139.5°	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
140°	0.4	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
140.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
141°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6
141.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
142°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	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	0.7	0.7
144°	0.4	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.7
144.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145.5°	0.5	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
146°	0.5	0.5	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.8
146.5°	0.5	0.5	0.4	0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8
147°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
148°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
148.5°	0.5	0.5	0.5	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	0.9	0.9	0.9
149.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
150°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
150.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	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°	0.6	0.5	0.5	0.5	0.9	0.9	0.9	0.9	1.0	1.0	1.0
152.5°	0.6	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
153°	0.6	0.6	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
153.5°	0.6	0.6	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
154°	0.6	0.6	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
154.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.1	1.0
155.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.1	1.1	1.1
156°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
156.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
158°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	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	1.2	1.1
159.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.2	1.2
160°	0.6	0.6	0.6	0.6	1.1	1.2	1.2	1.2	1.2	1.2	1.2
160.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
161°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
161.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
162°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
163°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
163.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
164°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
164.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
166°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
166.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
168°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
168.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
169°	0.7	0.6	0.6	0.6	1.1	1.1	1.2	1.2	1.2	1.2	1.2
169.5°	0.7	0.6	0.6	0.6	1.1	1.1	1.2	1.2	1.2	1.2	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	1.1	1.1	1.1	1.1	1.1	1.1	1.1
171°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
171.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
172°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
173°	0.6	0.6	0.6	0.6	1.0	1.0	1.1	1.1	1.1	1.1	1.1
173.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.1	1.1	1.1	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175.5°	0.7	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
176°	0.7	0.7	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
176.5°	0.7	0.7	0.7	0.7	0.9	1.0	1.0	1.0	1.0	1.0	1.0
177°	0.7	0.7	0.7	0.7	0.9	0.9	1.0	1.0	1.0	0.9	0.9
177.5°	0.7	0.7	0.7	0.7	0.9	0.9	1.0	1.0	0.9	0.9	0.9
178°	0.8	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
178.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
179°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
179.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1
0.5°	2270.3	2268.7	2269.5	2270.3	2270.1	2270.5
1°	2269.7	2268.1	2268.9	2269.3	2269.1	2269.5
1.5°	2268.7	2267.1	2268.1	2267.9	2267.5	2268.3
2°	2267.5	2265.9	2266.3	2265.5	2265.3	2266.7
2.5°	2265.3	2264.5	2264.5	2263.1	2262.9	2264.7
3°	2263.3	2263.1	2262.5	2259.7	2259.0	2262.5
3.5°	2260.3	2260.7	2259.6	2255.8	2254.4	2259.0
4°	2257.0	2257.8	2256.2	2251.0	2249.4	2255.0
4.5°	2252.4	2254.4	2252.2	2245.8	2243.8	2250.0
5°	2247.6	2250.2	2247.8	2239.8	2237.4	2244.6
5.5°	2242.6	2245.6	2242.8	2233.8	2230.8	2238.4
6°	2236.8	2240.2	2237.4	2227.7	2223.7	2232.0
6.5°	2230.4	2234.4	2231.2	2221.3	2217.1	2224.7
7°	2223.7	2227.1	2224.7	2214.5	2209.5	2216.9
7.5°	2216.3	2219.3	2216.7	2207.7	2202.3	2208.3
8°	2207.9	2210.1	2208.1	2199.3	2194.4	2199.7
8.5°	2199.1	2199.7	2198.1	2191.2	2186.0	2189.8
9°	2188.6	2187.4	2187.0	2181.2	2176.6	2179.2
9.5°	2177.0	2173.8	2174.0	2170.4	2166.2	2167.4
10°	2163.5	2157.7	2159.1	2157.3	2154.9	2155.3
10.5°	2147.9	2139.9	2141.7	2143.3	2142.1	2141.7
11°	2130.6	2119.8	2122.6	2126.6	2127.6	2126.6
11.5°	2110.0	2097.3	2100.9	2107.6	2111.0	2110.0
12°	2088.3	2073.1	2077.7	2086.1	2091.7	2091.5
12.5°	2065.0	2049.2	2053.6	2064.0	2071.0	2072.4
13°	2041.3	2023.9	2028.5	2040.3	2050.0	2052.2
13.5°	2016.7	1999.4	2003.4	2015.9	2027.7	2031.3
14°	1991.7	1973.2	1977.9	1991.1	2004.2	2009.6
14.5°	1966.1	1947.5	1952.2	1966.5	1980.4	1987.7
15°	1940.6	1921.1	1926.0	1940.6	1956.3	1965.1
15.5°	1915.7	1895.8	1900.8	1916.5	1931.6	1941.8
16°	1891.0	1870.9	1876.3	1891.3	1906.9	1918.9
16.5°	1866.0	1847.0	1851.9	1867.1	1883.6	1895.9
17°	1842.0	1822.1	1827.1	1843.2	1859.2	1872.3
17.5°	1818.3	1797.7	1803.7	1818.8	1835.6	1848.2
18°	1794.6	1773.2	1779.1	1794.8	1811.0	1824.1
18.5°	1770.2	1749.0	1754.9	1771.2	1787.0	1800.3
19°	1747.3	1725.0	1731.8	1747.4	1762.6	1776.5
19.5°	1724.8	1700.5	1708.3	1724.1	1739.1	1753.0
20°	1702.4	1677.6	1685.7	1700.7	1714.8	1729.0
20.5°	1680.0	1653.7	1662.1	1678.1	1691.3	1705.3
21°	1657.6	1630.9	1639.0	1654.2	1667.4	1681.4
21.5°	1635.2	1607.2	1615.9	1630.8	1643.1	1657.7
22°	1612.2	1584.0	1592.8	1607.0	1619.6	1632.8

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1588.4	1560.0	1568.4	1583.3	1594.3	1607.7
23°	1562.4	1534.2	1542.3	1557.5	1567.7	1580.5
23.5°	1534.3	1506.4	1514.9	1530.2	1540.9	1553.5
24°	1505.8	1476.4	1485.8	1501.0	1511.9	1524.8
24.5°	1476.2	1443.5	1455.6	1469.7	1481.3	1495.8
25°	1445.2	1412.5	1424.0	1437.5	1449.3	1465.5
25.5°	1412.8	1380.8	1391.9	1403.8	1417.3	1435.8
26°	1380.3	1349.4	1359.4	1369.2	1384.3	1405.6
26.5°	1346.5	1316.6	1326.3	1334.4	1350.5	1376.2
27°	1311.8	1285.6	1292.9	1299.1	1315.2	1344.6
27.5°	1276.6	1253.9	1258.3	1263.8	1280.8	1313.4
28°	1240.6	1221.1	1223.8	1229.1	1248.0	1281.1
28.5°	1205.1	1188.2	1189.9	1194.5	1215.2	1248.7
29°	1170.6	1154.9	1156.0	1161.0	1183.0	1214.6
29.5°	1136.7	1120.3	1122.0	1127.8	1151.3	1181.3
30°	1102.8	1085.4	1086.9	1095.3	1120.2	1145.8
30.5°	1068.9	1049.2	1052.2	1062.5	1088.1	1111.6
31°	1035.9	1014.6	1017.5	1029.7	1056.2	1077.3
31.5°	1002.8	979.1	983.3	997.0	1023.7	1043.5
32°	970.3	944.6	949.6	964.0	990.0	1009.3
32.5°	938.0	910.8	916.3	931.1	956.6	976.3
33°	905.5	877.5	883.9	898.1	922.8	943.1
33.5°	872.7	843.5	852.3	864.4	888.5	909.8
34°	840.6	806.1	822.4	832.3	854.2	876.9
34.5°	808.5	776.1	791.3	801.7	821.3	843.6
35°	777.5	746.1	760.2	771.2	790.1	804.7
35.5°	746.2	716.1	729.0	740.7	759.0	773.9
36°	716.5	686.1	697.9	710.2	727.8	743.0
36.5°	686.4	657.0	666.9	679.6	696.6	712.2
37°	656.9	628.3	637.3	650.9	665.5	681.4
37.5°	627.8	600.4	608.2	622.4	636.5	649.4
38°	599.4	573.8	579.4	595.1	607.9	618.1
38.5°	571.9	547.5	551.6	567.1	578.9	587.8
39°	545.0	522.2	526.2	540.1	551.1	558.8
39.5°	518.3	496.4	500.5	512.6	523.0	529.9
40°	491.8	471.2	475.3	486.2	495.2	502.0
40.5°	466.8	447.4	451.0	459.9	467.3	475.5
41°	442.2	424.4	427.8	434.4	441.1	449.5
41.5°	418.4	402.1	404.9	409.9	414.9	424.0
42°	395.2	380.6	382.7	386.1	390.2	400.2
42.5°	372.2	360.0	361.2	362.1	366.0	377.0
43°	350.5	340.0	340.2	340.5	343.4	354.4
43.5°	329.5	320.4	320.0	318.1	321.0	332.2
44°	309.5	301.6	300.7	297.0	299.8	311.6
44.5°	290.1	283.3	282.2	276.3	279.0	291.4

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	271.4	265.7	264.1	256.8	259.1	271.8
45.5°	253.5	248.8	247.1	237.9	240.4	253.0
46°	236.3	232.8	230.7	220.0	222.6	235.8
46.5°	220.2	217.0	214.9	203.1	205.3	218.5
47°	205.3	201.9	199.8	187.5	189.2	202.4
47.5°	190.6	187.4	185.1	172.9	174.3	186.7
48°	175.8	173.5	171.3	159.3	160.5	172.4
48.5°	161.0	160.5	158.1	146.8	147.7	158.3
49°	148.0	147.9	145.6	135.3	135.3	145.3
49.5°	135.6	135.8	133.6	124.7	124.6	133.0
50°	124.4	124.3	122.0	114.6	114.2	120.9
50.5°	113.4	113.2	111.3	105.1	104.6	109.5
51°	103.3	102.8	101.2	96.1	95.2	99.1
51.5°	93.7	92.7	91.6	87.5	86.8	89.0
52°	84.6	83.4	82.5	79.2	79.3	79.7
52.5°	75.9	75.5	74.8	71.8	71.6	71.6
53°	67.6	67.6	67.2	64.4	64.0	63.5
53.5°	60.0	59.7	59.5	57.1	56.3	55.5
54°	52.6	51.8	51.9	49.7	48.7	47.5
54.5°	45.7	44.0	44.2	43.4	42.2	41.0
55°	39.6	38.0	38.3	37.7	36.4	35.2
55.5°	34.3	32.7	33.1	32.4	31.4	30.0
56°	29.0	27.4	27.8	27.3	26.2	24.8
56.5°	25.5	22.5	23.0	22.4	21.4	20.1
57°	22.1	18.5	18.8	18.3	17.4	16.3
57.5°	18.7	15.4	15.8	15.3	14.4	13.4
58°	15.2	13.2	13.5	13.0	12.2	11.4
58.5°	11.8	11.4	11.7	11.3	10.6	9.8
59°	10.2	10.0	10.3	9.9	9.2	8.6
59.5°	9.0	8.9	9.2	8.8	8.1	7.9
60°	8.1	8.2	8.2	8.2	7.5	7.2
60.5°	7.3	7.6	7.6	7.5	6.9	6.4
61°	6.6	6.9	7.0	6.9	6.2	5.7
61.5°	6.0	6.3	6.4	6.2	5.6	5.2
62°	5.5	5.6	5.8	5.6	5.1	4.8
62.5°	5.0	5.2	5.4	5.1	4.7	4.4
63°	4.6	4.8	5.0	4.7	4.3	4.0
63.5°	4.2	4.4	4.6	4.4	4.0	3.7
64°	3.9	4.1	4.3	4.0	3.7	3.4
64.5°	3.6	3.8	3.9	3.7	3.4	3.2
65°	3.4	3.5	3.7	3.5	3.1	2.9
65.5°	3.1	3.3	3.4	3.2	2.9	2.7
66°	2.9	3.0	3.2	3.0	2.7	2.5
66.5°	2.7	2.8	2.9	2.8	2.5	2.3
67°	2.5	2.6	2.7	2.6	2.3	2.2

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.3	2.5	2.5	2.4	2.2	2.0
68°	2.2	2.3	2.4	2.2	2.0	1.9
68.5°	2.0	2.1	2.2	2.1	1.9	1.7
69°	1.9	2.0	2.1	1.9	1.7	1.6
69.5°	1.8	1.8	1.9	1.8	1.6	1.5
70°	1.6	1.7	1.8	1.7	1.5	1.4
70.5°	1.5	1.6	1.6	1.5	1.4	1.3
71°	1.4	1.5	1.5	1.4	1.3	1.2
71.5°	1.3	1.4	1.4	1.3	1.2	1.1
72°	1.2	1.3	1.3	1.2	1.1	1.0
72.5°	1.1	1.2	1.2	1.1	1.0	0.9
73°	1.0	1.1	1.1	1.1	0.9	0.8
73.5°	1.0	1.0	1.0	1.0	0.9	0.8
74°	0.9	0.9	1.0	0.9	0.8	0.7
74.5°	0.8	0.8	0.9	0.8	0.7	0.6
75°	0.7	0.8	0.8	0.8	0.7	0.6
75.5°	0.7	0.7	0.7	0.7	0.6	0.5
76°	0.6	0.7	0.7	0.6	0.5	0.5
76.5°	0.6	0.6	0.6	0.6	0.5	0.4
77°	0.5	0.5	0.6	0.5	0.4	0.4
77.5°	0.5	0.5	0.5	0.5	0.4	0.3
78°	0.4	0.4	0.5	0.4	0.4	0.3
78.5°	0.4	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	0.3	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	0.2	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: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.1	0.0	0.0	0.0
121°	0.0	0.1	0.1	0.1	0.1	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°	0.1	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	0.2	0.2	0.1	0.1	0.1
127.5°	0.2	0.2	0.2	0.2	0.1	0.1
128°	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.3	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	0.3	0.3	0.2	0.2	0.2
133.5°	0.3	0.3	0.3	0.3	0.3	0.2
134°	0.3	0.3	0.3	0.3	0.3	0.3
134.5°	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.4	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°	0.5	0.3	0.3	0.3	0.3	0.3
138.5°	0.5	0.3	0.3	0.3	0.3	0.3
139°	0.5	0.4	0.4	0.4	0.3	0.3
139.5°	0.5	0.4	0.4	0.4	0.4	0.4
140°	0.5	0.4	0.4	0.4	0.4	0.4
140.5°	0.5	0.4	0.4	0.4	0.4	0.4
141°	0.6	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°	0.7	0.4	0.4	0.4	0.4	0.4
144°	0.7	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	0.5	0.5	0.5	0.5	0.4
145.5°	0.7	0.5	0.5	0.5	0.5	0.5
146°	0.8	0.5	0.5	0.5	0.5	0.5
146.5°	0.8	0.5	0.5	0.5	0.5	0.5
147°	0.8	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°	0.9	0.5	0.5	0.5	0.5	0.5
149.5°	0.9	0.5	0.5	0.5	0.5	0.5
150°	0.9	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	0.6	0.5	0.5
152°	1.0	0.5	0.6	0.6	0.6	0.6
152.5°	1.0	0.6	0.6	0.6	0.6	0.6
153°	1.0	0.6	0.6	0.6	0.6	0.6
153.5°	1.0	0.6	0.6	0.6	0.6	0.6
154°	1.0	0.6	0.6	0.6	0.6	0.6
154.5°	1.0	0.6	0.6	0.6	0.6	0.6
155°	1.0	0.6	0.6	0.6	0.6	0.6
155.5°	1.1	0.6	0.6	0.6	0.6	0.6
156°	1.1	0.6	0.6	0.6	0.6	0.6
156.5°	1.1	0.6	0.6	0.6	0.6	0.6
157°	1.1	0.6	0.6	0.6	0.6	0.6

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.1	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°	1.2	0.6	0.6	0.6	0.6	0.6
160°	1.2	0.6	0.6	0.6	0.6	0.6
160.5°	1.2	0.6	0.6	0.6	0.6	0.6
161°	1.2	0.6	0.6	0.6	0.6	0.6
161.5°	1.2	0.6	0.6	0.6	0.7	0.6
162°	1.2	0.6	0.6	0.7	0.7	0.6
162.5°	1.2	0.6	0.6	0.7	0.7	0.7
163°	1.2	0.6	0.6	0.7	0.7	0.7
163.5°	1.2	0.6	0.6	0.7	0.7	0.7
164°	1.2	0.6	0.6	0.7	0.7	0.7
164.5°	1.2	0.6	0.6	0.7	0.7	0.7
165°	1.2	0.6	0.6	0.7	0.7	0.7
165.5°	1.2	0.6	0.6	0.7	0.7	0.7
166°	1.2	0.6	0.6	0.7	0.7	0.7
166.5°	1.2	0.6	0.6	0.7	0.7	0.7
167°	1.2	0.6	0.6	0.7	0.7	0.7
167.5°	1.2	0.6	0.6	0.7	0.7	0.7
168°	1.2	0.6	0.6	0.7	0.7	0.7
168.5°	1.2	0.6	0.6	0.7	0.7	0.7
169°	1.2	0.6	0.6	0.7	0.7	0.7
169.5°	1.1	0.6	0.6	0.7	0.7	0.7
170°	1.1	0.6	0.6	0.7	0.7	0.6
170.5°	1.1	0.6	0.6	0.7	0.7	0.6
171°	1.1	0.6	0.6	0.7	0.7	0.6
171.5°	1.1	0.6	0.6	0.7	0.7	0.6
172°	1.1	0.6	0.6	0.7	0.6	0.6
172.5°	1.1	0.6	0.6	0.6	0.6	0.6
173°	1.1	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	0.7	0.7	0.6
175°	1.0	0.6	0.6	0.7	0.7	0.6
175.5°	1.0	0.6	0.7	0.7	0.7	0.7
176°	1.0	0.7	0.7	0.7	0.7	0.7
176.5°	1.0	0.7	0.7	0.7	0.7	0.7
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	0.8	0.8	0.8	0.8	0.8
178.5°	0.9	0.8	0.8	0.8	0.8	0.8
179°	0.9	0.8	0.8	0.8	0.8	0.8
179.5°	0.9	0.8	0.8	0.9	0.8	0.8



TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.9	0.9	0.9	0.9	0.9	0.9

TEST NUMBER: P1590478

CATALOG NUMBER: HCDLS1525CSD4TRH-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	5.1	6.1	5.5	6.4	6.8	6.1	7.1	6.5	7.5	7.8
	3H	5.0	5.9	5.4	6.3	6.6	6.0	7.0	6.4	7.3	7.7
	4H	4.9	5.8	5.4	6.1	6.5	6.0	6.8	6.4	7.2	7.6
	6H	4.8	5.6	5.3	6.0	6.4	5.9	6.6	6.3	7.0	7.4
	8H	4.8	5.5	5.2	5.9	6.3	5.8	6.5	6.3	6.9	7.3
	12H	4.7	5.4	5.2	5.8	6.2	5.8	6.5	6.2	6.8	7.3
4H	2H	4.9	5.8	5.3	6.1	6.5	5.9	6.7	6.3	7.1	7.5
	3H	4.9	5.5	5.3	6.0	6.4	5.9	6.5	6.3	6.9	7.4
	4H	4.8	5.4	5.2	5.8	6.3	5.8	6.4	6.2	6.8	7.3
	6H	4.7	5.2	5.2	5.7	6.1	5.7	6.2	6.2	6.7	7.1
	8H	4.6	5.1	5.1	5.5	6.0	5.6	6.1	6.1	6.5	7.0
	12H	4.6	5.0	5.0	5.5	5.9	5.5	6.0	6.0	6.5	6.9
8H	4H	4.6	5.1	5.1	5.6	6.0	5.6	6.1	6.1	6.5	7.0
	6H	4.5	4.9	5.0	5.4	5.9	5.5	5.9	6.0	6.4	6.9
	8H	4.4	4.8	5.0	5.3	5.8	5.4	5.8	6.0	6.3	6.8
	12H	4.4	4.7	4.9	5.2	5.8	5.4	5.7	5.9	6.2	6.8
12H	4H	4.6	5.0	5.1	5.5	5.9	5.5	6.0	6.0	6.5	6.9
	6H	4.4	4.8	5.0	5.3	5.8	5.4	5.8	6.0	6.3	6.8
	8H	4.4	4.7	4.9	5.2	5.8	5.4	5.7	5.9	6.2	6.8

(END OF REPORT)