

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: P1590480

Luminaire Tested: HCDLS1525CSD4TRH-ME-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590480
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-4000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 2000 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

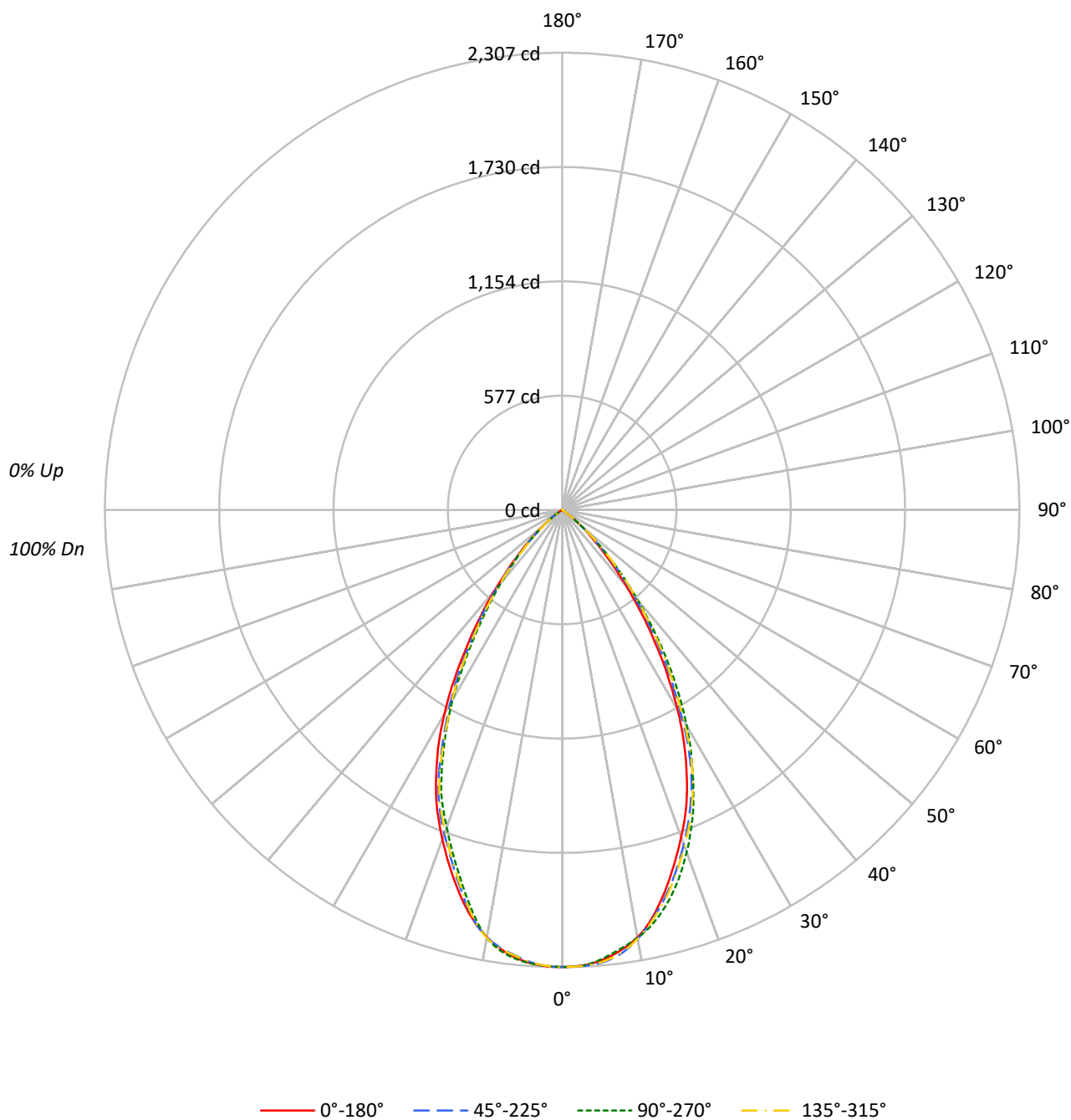
Lumens per Lamp: N/A
Luminaire Lumens: 2255.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	284423	284423	284423	284423
5°	282302	281696	282624	283008
10°	274206	274557	274156	274507
15°	254896	262059	255764	249188
20°	230535	241128	232018	223670
25°	202594	213237	205030	195272
30°	165771	179074	169346	157026
35°	123082	138561	125687	114107
40°	82102	95386	85387	77078
45°	48162	57774	50953	47081
50°	23564	27038	25234	24236
55°	7677	8150	8193	8301
60°	1801	1974	1850	2072
65°	876	1022	934	1051
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: 57774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	9.5
10°-20°	558.4	24.8
20°-30°	682.2	30.3
30°-40°	519.7	23.0
40°-50°	231.7	10.3
50°-60°	42.0	1.9
60°-70°	3.7	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°	1455.6	64.6
0°-40°	1975.4	87.6
0°-60°	2249.1	99.7
0°-90°	2253.6	99.9
90°-120°	0.0	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2255.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2306	2306	2306	2306	2306	
5°	2280	2275	2283	2286	2280	215
15°	1996	2052	2003	1951	1996	557
25°	1489	1567	1506	1435	1489	677
35°	817	920	835	758	817	511
45°	276	331	292	270	276	220
55°	36	38	38	39	36	40
65°	3	4	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9
0.5°	2306.3	2305.5	2305.7	2306.3	2305.5	2305.7	2306.7	2306.3	2306.3	2305.5	2305.5
1°	2305.3	2305.3	2305.7	2306.3	2305.5	2305.7	2306.1	2306.1	2305.5	2304.7	2304.7
1.5°	2304.1	2304.5	2305.3	2305.5	2304.7	2305.3	2305.5	2305.3	2304.7	2303.5	2303.5
2°	2302.5	2303.3	2304.7	2304.5	2303.3	2303.9	2304.7	2304.5	2303.1	2301.2	2301.7
2.5°	2300.4	2302.5	2303.7	2302.7	2301.2	2301.9	2303.9	2303.3	2301.0	2298.8	2299.2
3°	2298.2	2301.2	2302.3	2300.2	2298.2	2299.4	2301.9	2301.9	2298.8	2295.4	2295.8
3.5°	2294.6	2299.8	2300.6	2297.2	2294.2	2296.2	2299.6	2299.8	2296.2	2291.1	2291.5
4°	2290.5	2297.8	2299.0	2293.1	2288.7	2291.7	2297.4	2297.8	2292.3	2285.9	2286.5
4.5°	2285.5	2295.0	2296.4	2288.1	2282.2	2286.3	2294.0	2295.0	2288.1	2279.8	2280.8
5°	2280.0	2291.5	2292.3	2281.8	2275.1	2279.6	2289.7	2291.7	2282.6	2273.1	2274.5
5.5°	2273.7	2286.9	2287.9	2275.3	2267.4	2272.7	2284.6	2287.3	2276.9	2265.8	2268.0
6°	2267.2	2281.2	2282.4	2267.8	2259.3	2265.0	2279.0	2282.0	2270.1	2258.3	2261.0
6.5°	2259.7	2274.7	2276.1	2260.3	2251.0	2257.1	2272.3	2275.7	2262.4	2250.6	2253.9
7°	2251.8	2266.8	2268.2	2252.2	2242.9	2249.0	2264.6	2268.2	2254.1	2242.3	2246.6
7.5°	2243.1	2257.9	2259.3	2243.5	2234.8	2240.3	2256.1	2259.5	2245.8	2234.0	2238.7
8°	2234.4	2248.2	2249.2	2234.0	2226.5	2231.4	2246.4	2249.2	2235.8	2225.5	2230.6
8.5°	2224.3	2237.1	2238.1	2224.1	2218.2	2222.7	2235.4	2238.5	2225.3	2216.0	2221.7
9°	2213.6	2224.7	2225.5	2213.8	2209.7	2212.8	2223.3	2225.9	2214.2	2206.3	2211.9
9.5°	2201.6	2211.1	2212.1	2202.6	2201.2	2202.4	2210.5	2212.1	2202.4	2195.5	2201.4
10°	2189.3	2196.8	2197.6	2190.7	2192.1	2191.3	2196.6	2197.6	2188.9	2184.2	2189.5
10.5°	2175.5	2181.2	2182.0	2177.9	2182.2	2179.9	2182.0	2181.6	2174.5	2170.6	2175.3
11°	2160.1	2164.8	2165.6	2164.4	2171.2	2167.4	2166.4	2165.6	2159.5	2156.5	2159.7
11.5°	2143.3	2146.9	2149.0	2150.2	2159.5	2154.4	2150.4	2148.6	2143.3	2140.7	2142.3
12°	2124.5	2128.5	2131.6	2134.4	2147.1	2140.5	2134.2	2130.9	2126.1	2122.2	2122.0
12.5°	2105.0	2109.5	2112.9	2119.2	2133.0	2125.1	2117.2	2112.7	2106.6	2102.4	2099.4
13°	2084.6	2090.2	2094.7	2102.6	2118.8	2109.9	2099.6	2093.3	2088.2	2081.7	2077.3
13.5°	2063.3	2069.8	2075.9	2086.0	2103.2	2094.3	2081.5	2074.4	2067.8	2059.9	2054.0
14°	2041.2	2048.9	2056.8	2068.0	2086.6	2077.1	2063.1	2054.2	2047.1	2037.4	2029.7
14.5°	2019.0	2027.9	2037.4	2050.1	2069.6	2059.7	2043.7	2034.1	2024.8	2014.1	2005.2
15°	1996.1	2006.4	2017.0	2031.3	2052.2	2041.0	2025.0	2013.6	2002.9	1990.5	1979.9
15.5°	1972.4	1984.4	1996.6	2011.7	2033.9	2022.2	2004.6	1992.4	1980.6	1966.7	1954.6
16°	1949.1	1961.8	1975.4	1990.6	2014.4	2002.4	1984.1	1970.3	1957.6	1941.9	1929.7
16.5°	1925.7	1939.6	1954.0	1970.4	1994.6	1982.0	1962.4	1948.1	1934.2	1917.5	1905.0
17°	1901.8	1917.0	1932.2	1949.2	1974.1	1960.9	1940.6	1925.4	1910.5	1893.2	1880.3
17.5°	1877.3	1893.9	1909.4	1927.4	1952.9	1939.4	1918.8	1901.9	1886.6	1868.9	1855.7
18°	1852.9	1870.3	1886.5	1904.6	1930.3	1917.6	1895.8	1878.8	1863.1	1844.7	1831.4
18.5°	1828.7	1846.4	1863.6	1881.8	1907.9	1894.8	1873.1	1855.9	1839.2	1820.4	1807.5
19°	1804.5	1822.5	1841.1	1858.9	1884.4	1871.8	1850.5	1832.6	1814.6	1796.8	1783.5
19.5°	1780.6	1798.9	1818.0	1835.5	1861.4	1848.6	1827.8	1808.6	1790.9	1773.4	1762.1
20°	1756.3	1774.7	1794.8	1812.0	1837.0	1825.5	1805.0	1785.8	1767.6	1749.9	1739.0
20.5°	1732.2	1751.3	1771.3	1788.3	1813.1	1801.9	1781.6	1763.3	1743.1	1726.4	1716.0
21°	1707.9	1726.7	1747.4	1763.9	1788.5	1777.3	1758.3	1739.8	1718.7	1702.9	1692.9
21.5°	1683.8	1702.7	1723.9	1739.3	1762.4	1751.9	1735.0	1716.3	1694.2	1679.3	1669.9
22°	1658.5	1677.6	1699.2	1713.4	1736.2	1726.4	1711.8	1692.8	1669.8	1655.9	1644.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1633.1	1653.4	1674.5	1688.5	1710.0	1700.9	1688.5	1669.4	1647.4	1629.8	1619.5
23°	1605.5	1627.2	1649.6	1660.7	1683.9	1675.5	1665.2	1643.4	1620.7	1602.1	1593.3
23.5°	1578.0	1601.3	1624.2	1634.6	1657.7	1650.0	1638.8	1617.8	1593.2	1574.3	1565.4
24°	1548.9	1574.3	1597.5	1605.6	1627.2	1621.5	1613.0	1591.5	1564.6	1545.9	1535.3
24.5°	1519.4	1546.3	1571.6	1577.8	1597.6	1593.0	1586.4	1564.1	1535.8	1515.5	1504.0
25°	1488.6	1517.2	1544.0	1547.6	1566.8	1563.7	1559.0	1536.5	1506.5	1484.7	1471.5
25.5°	1458.4	1488.3	1515.9	1518.9	1536.9	1534.1	1530.6	1508.3	1476.8	1453.0	1437.5
26°	1427.7	1458.0	1486.6	1488.4	1506.6	1504.1	1501.8	1479.1	1447.0	1421.2	1401.7
26.5°	1397.9	1427.5	1456.6	1457.8	1476.0	1473.6	1471.6	1448.3	1416.0	1388.5	1365.9
27°	1365.8	1396.4	1424.1	1427.0	1445.2	1442.5	1440.2	1417.3	1385.5	1355.3	1330.6
27.5°	1334.1	1365.0	1390.3	1395.6	1415.4	1412.1	1408.1	1385.6	1354.9	1321.1	1296.4
28°	1301.3	1333.2	1355.4	1363.7	1384.9	1381.2	1373.4	1352.8	1322.9	1287.7	1262.5
28.5°	1268.3	1298.8	1319.1	1330.8	1354.0	1349.0	1339.0	1319.1	1290.5	1253.4	1228.3
29°	1233.7	1265.9	1282.4	1298.1	1322.8	1317.6	1303.1	1284.3	1257.3	1219.9	1196.0
29.5°	1199.9	1231.5	1244.3	1265.1	1290.9	1284.9	1266.4	1248.3	1223.4	1186.9	1163.4
30°	1163.9	1195.7	1207.2	1230.7	1257.3	1251.8	1228.2	1211.2	1189.0	1153.6	1130.8
30.5°	1129.1	1158.4	1170.4	1195.0	1224.0	1217.1	1190.7	1173.6	1153.3	1120.1	1097.7
31°	1094.3	1122.4	1134.9	1159.7	1190.2	1182.9	1154.5	1136.2	1118.5	1087.6	1064.0
31.5°	1060.0	1084.4	1100.1	1124.1	1156.6	1148.0	1119.1	1098.5	1082.4	1055.0	1030.3
32°	1025.2	1047.6	1066.5	1088.0	1122.5	1112.5	1085.1	1062.4	1048.2	1022.7	996.1
32.5°	991.7	1010.1	1032.9	1052.6	1089.5	1077.3	1051.1	1027.1	1011.2	989.6	962.2
33°	958.0	975.6	1000.7	1017.4	1056.4	1041.4	1019.1	992.4	975.1	957.5	927.7
33.5°	924.1	939.0	967.8	982.0	1022.8	1006.1	986.5	958.8	939.0	924.1	893.1
34°	890.8	905.8	935.4	948.7	988.5	971.6	954.4	925.8	904.3	890.9	860.6
34.5°	856.9	871.2	901.8	915.7	954.3	937.8	922.1	893.3	868.6	857.2	827.3
35°	817.4	837.9	868.5	883.5	920.2	904.5	889.7	861.8	834.7	822.8	796.4
35.5°	786.1	805.9	836.3	852.2	886.2	871.7	856.8	829.1	801.6	789.2	766.2
36°	754.8	773.9	804.6	822.1	851.4	839.7	824.2	796.3	769.9	756.2	736.6
36.5°	723.4	741.9	772.9	790.9	817.4	807.2	791.8	763.9	737.1	723.6	706.6
37°	692.1	709.9	741.2	759.7	783.4	775.8	759.5	731.9	705.8	691.9	678.2
37.5°	659.7	677.9	709.5	728.4	750.2	744.7	727.7	699.3	675.3	660.3	648.9
38°	627.9	648.9	677.7	697.2	717.7	714.0	698.0	668.4	645.3	630.4	620.2
38.5°	597.1	619.2	648.5	666.3	685.0	683.0	667.9	638.2	615.4	601.0	591.1
39°	567.6	590.9	620.3	636.6	653.6	653.9	639.5	608.7	586.8	572.4	563.1
39.5°	538.3	562.4	591.5	606.8	622.7	623.5	611.3	580.6	558.4	543.2	535.1
40°	509.9	535.3	563.4	577.5	592.4	594.7	583.4	553.6	530.3	515.0	507.8
40.5°	483.0	509.1	536.0	548.9	563.2	564.5	555.4	526.5	502.5	487.5	480.8
41°	456.6	482.7	508.5	521.2	534.1	536.3	528.0	500.5	475.6	460.9	455.0
41.5°	430.7	457.0	480.8	494.0	506.5	507.8	500.8	475.1	449.8	434.7	430.3
42°	406.5	433.1	455.1	467.9	479.4	480.7	473.7	450.8	424.8	408.9	406.4
42.5°	383.0	408.7	429.2	441.8	453.2	453.4	446.8	426.1	400.6	384.5	382.2
43°	360.0	384.9	404.1	415.4	427.5	427.5	420.8	402.5	377.5	361.1	358.9
43.5°	337.5	361.0	379.4	389.9	402.1	401.5	395.4	378.9	354.4	338.4	335.5
44°	316.6	338.4	356.7	365.0	377.4	377.2	371.2	356.4	333.0	317.0	314.0
44.5°	296.0	316.5	333.9	340.7	353.7	352.7	347.2	333.7	312.0	296.4	291.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	276.1	295.7	312.2	317.1	331.2	329.7	324.5	312.3	292.1	276.4	270.6
45.5°	257.0	274.9	291.2	293.8	308.4	306.4	302.6	291.4	272.7	257.3	250.1
46°	239.5	255.6	270.5	272.0	286.9	284.7	281.1	271.2	253.6	239.2	231.8
46.5°	221.9	236.3	250.2	250.9	265.5	263.0	260.8	251.2	236.0	223.4	215.3
47°	205.6	219.1	230.7	230.9	246.0	242.5	240.5	232.4	220.2	207.7	199.0
47.5°	189.6	201.5	211.7	211.6	228.0	224.7	222.8	215.7	204.6	191.9	182.6
48°	175.2	185.6	193.8	193.5	210.1	206.9	205.2	199.1	189.0	176.1	166.2
48.5°	160.8	169.5	176.4	176.4	192.1	189.2	187.6	182.4	173.3	160.4	152.8
49°	147.6	155.1	159.9	160.5	174.1	171.4	170.0	165.8	157.7	147.2	140.6
49.5°	135.1	141.3	144.2	145.5	156.3	153.7	152.4	149.3	144.3	134.7	129.4
50°	122.8	128.2	129.6	131.0	140.9	139.0	137.6	135.4	131.5	123.2	118.9
50.5°	111.2	115.1	116.1	117.5	126.2	124.9	123.7	122.1	119.5	112.2	109.0
51°	100.7	103.7	103.7	105.0	112.9	112.2	110.9	109.7	107.8	102.0	99.6
51.5°	90.4	92.7	92.1	93.3	100.2	100.0	99.1	98.1	97.1	92.5	90.9
52°	80.9	82.6	81.7	82.7	88.6	88.8	87.9	87.4	86.7	83.3	82.4
52.5°	72.7	74.2	73.4	74.2	77.8	78.2	77.6	77.2	76.9	74.6	74.2
53°	64.5	65.9	65.1	65.7	68.0	68.6	68.1	67.7	67.6	66.2	66.2
53.5°	56.4	57.5	56.8	57.2	58.9	59.6	59.4	59.0	59.3	58.3	58.8
54°	48.2	49.2	48.5	48.7	50.9	51.6	51.6	50.9	51.3	51.0	51.7
54.5°	41.6	40.9	40.2	40.3	43.9	44.6	44.5	43.8	44.3	44.3	45.1
55°	35.7	35.1	34.5	34.6	37.9	38.6	38.5	37.8	38.1	38.1	39.0
55.5°	30.5	29.7	29.2	29.1	32.4	33.0	33.0	32.3	32.5	32.8	33.6
56°	25.2	24.3	23.8	23.8	27.1	27.4	27.4	28.8	28.5	29.1	28.1
56.5°	20.4	19.7	19.3	19.3	23.9	24.2	24.2	25.3	24.5	25.5	24.7
57°	16.5	15.9	15.6	15.8	20.8	21.1	21.1	21.8	20.5	21.8	21.4
57.5°	13.6	13.2	13.0	13.3	17.6	18.0	18.0	18.2	16.6	18.1	18.0
58°	11.6	11.2	11.0	11.3	14.5	14.9	14.8	14.7	12.6	14.5	14.7
58.5°	10.0	9.7	9.6	9.8	11.4	11.8	11.7	11.2	10.9	10.8	11.3
59°	8.7	8.5	8.4	8.7	10.0	10.4	10.3	9.8	9.5	9.5	9.8
59.5°	8.0	7.7	7.7	8.0	8.9	9.3	9.2	8.7	8.4	8.3	8.6
60°	7.3	7.1	7.0	7.3	8.0	8.4	8.2	7.8	7.5	7.4	7.7
60.5°	6.5	6.4	6.3	6.6	7.3	7.6	7.4	7.0	6.7	6.7	6.9
61°	5.8	5.7	5.7	5.9	6.6	6.9	6.8	6.4	6.1	6.0	6.2
61.5°	5.3	5.2	5.2	5.4	6.0	6.3	6.2	5.8	5.6	5.5	5.7
62°	4.8	4.7	4.7	4.9	5.5	5.8	5.7	5.3	5.1	5.0	5.2
62.5°	4.4	4.3	4.3	4.5	5.1	5.3	5.2	4.9	4.7	4.6	4.8
63°	4.1	4.0	4.0	4.2	4.7	4.9	4.8	4.5	4.3	4.2	4.4
63.5°	3.8	3.7	3.7	3.9	4.3	4.5	4.4	4.1	4.0	3.9	4.0
64°	3.5	3.4	3.4	3.6	4.0	4.2	4.1	3.8	3.7	3.6	3.7
64.5°	3.2	3.1	3.2	3.3	3.7	3.9	3.8	3.6	3.4	3.4	3.5
65°	3.0	2.9	2.9	3.1	3.5	3.6	3.5	3.3	3.2	3.1	3.2
65.5°	2.8	2.7	2.7	2.9	3.2	3.4	3.3	3.1	2.9	2.9	3.0
66°	2.5	2.5	2.5	2.7	3.0	3.1	3.1	2.8	2.7	2.7	2.8
66.5°	2.4	2.3	2.3	2.5	2.8	2.9	2.8	2.6	2.5	2.5	2.6
67°	2.2	2.1	2.2	2.3	2.6	2.7	2.6	2.5	2.3	2.3	2.4

TEST NUMBER: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

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	2.5	2.3	2.2	2.2	2.2
68°	1.9	1.9	1.9	2.0	2.3	2.4	2.3	2.1	2.0	2.0	2.1
68.5°	1.7	1.7	1.7	1.8	2.1	2.2	2.1	2.0	1.9	1.9	1.9
69°	1.6	1.6	1.6	1.7	2.0	2.1	2.0	1.8	1.8	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	1.7
70°	1.4	1.4	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.5
70.5°	1.3	1.3	1.3	1.4	1.6	1.7	1.6	1.5	1.4	1.4	1.4
71°	1.2	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.3	1.3	1.3
71.5°	1.1	1.1	1.1	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.2
72°	1.0	1.0	1.0	1.1	1.3	1.3	1.3	1.2	1.1	1.1	1.1
72.5°	0.9	0.9	0.9	1.0	1.2	1.2	1.2	1.1	1.0	1.0	1.1
73°	0.9	0.8	0.9	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°	0.7	0.6	0.7	0.7	0.8	0.9	0.9	0.8	0.7	0.7	0.8
75°	0.6	0.6	0.6	0.7	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	0.7	0.6	0.6	0.6	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	0.5	0.5	0.5
77.5°	0.4	0.3	0.4	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	0.5	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	0.2	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	0.1
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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-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°	0.1	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	0.1	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	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2
128.5°	0.2	0.2	0.2	0.2	0.2	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	0.3	0.3
132°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	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°	0.3	0.3	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	0.3	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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.4	0.4
135.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	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	0.5	0.5
138.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.5	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	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
140°	0.4	0.4	0.4	0.4	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	0.6
141°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	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	0.7
143.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7
144°	0.4	0.4	0.4	0.4	0.7	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°	0.5	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145.5°	0.5	0.5	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	0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8
146.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	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	0.9	0.9
149°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.9	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°	0.6	0.5	0.5	0.5	0.9	0.9	0.9	0.9	1.0	1.0	1.0
152°	0.6	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	0.6	0.6	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	0.6	0.6	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	1.1	1.0
155°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.1	1.1	1.1
155.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.6	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	1.2	1.2	1.2
159°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.2	1.2	1.2	1.2
159.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
160°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
160.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
161°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
161.5°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
162°	0.7	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
163°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
163.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
164°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
164.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
166°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
166.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
168°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
168.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
169°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
169.5°	0.7	0.7	0.6	0.6	1.1	1.2	1.2	1.2	1.2	1.2	1.2
170°	0.7	0.6	0.6	0.6	1.1	1.1	1.2	1.2	1.2	1.2	1.2
170.5°	0.7	0.6	0.6	0.6	1.1	1.1	1.2	1.2	1.2	1.1	1.1
171°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
171.5°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
172°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
173°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
173.5°	0.7	0.6	0.6	0.6	1.0	1.1	1.1	1.1	1.1	1.1	1.1
174°	0.7	0.6	0.6	0.6	1.0	1.0	1.1	1.1	1.1	1.0	1.0
174.5°	0.7	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	0.7	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175.5°	0.7	0.7	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
176°	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
176.5°	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
177°	0.7	0.7	0.7	0.7	0.9	1.0	1.0	1.0	1.0	1.0	1.0
177.5°	0.7	0.7	0.7	0.7	0.9	0.9	1.0	1.0	1.0	0.9	0.9
178°	0.8	0.8	0.7	0.7	0.9	0.9	1.0	1.0	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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9
0.5°	2306.1	2304.5	2305.3	2306.1	2305.9	2306.3
1°	2305.5	2303.9	2304.7	2305.1	2304.9	2305.3
1.5°	2304.5	2302.9	2303.9	2303.7	2303.3	2304.1
2°	2303.3	2301.7	2302.1	2301.2	2301.0	2302.5
2.5°	2301.0	2300.2	2300.2	2298.8	2298.6	2300.4
3°	2299.0	2298.8	2298.2	2295.4	2294.6	2298.2
3.5°	2296.0	2296.4	2295.2	2291.3	2289.9	2294.6
4°	2292.5	2293.4	2291.7	2286.5	2284.8	2290.5
4.5°	2287.9	2289.9	2287.7	2281.2	2279.2	2285.5
5°	2283.0	2285.7	2283.2	2275.1	2272.7	2280.0
5.5°	2278.0	2281.0	2278.2	2269.1	2266.0	2273.7
6°	2272.1	2275.5	2272.7	2262.8	2258.7	2267.2
6.5°	2265.6	2269.7	2266.4	2256.3	2252.0	2259.7
7°	2258.7	2262.2	2259.7	2249.4	2244.3	2251.8
7.5°	2251.2	2254.3	2251.6	2242.5	2237.1	2243.1
8°	2242.7	2245.0	2242.9	2234.0	2229.0	2234.4
8.5°	2233.8	2234.4	2232.8	2225.7	2220.5	2224.3
9°	2223.1	2221.9	2221.5	2215.6	2210.9	2213.6
9.5°	2211.3	2208.1	2208.3	2204.7	2200.4	2201.6
10°	2197.6	2191.7	2193.1	2191.3	2188.9	2189.3
10.5°	2181.8	2173.7	2175.5	2177.1	2175.9	2175.5
11°	2164.2	2153.2	2156.1	2160.1	2161.1	2160.1
11.5°	2143.3	2130.3	2134.0	2140.9	2144.3	2143.3
12°	2121.2	2105.8	2110.5	2119.0	2124.7	2124.5
12.5°	2097.5	2081.5	2086.0	2096.5	2103.6	2105.0
13°	2073.4	2055.8	2060.5	2072.4	2082.3	2084.6
13.5°	2048.5	2030.9	2035.0	2047.7	2059.7	2063.3
14°	2023.1	2004.3	2009.1	2022.5	2035.8	2041.2
14.5°	1997.1	1978.2	1983.0	1997.5	2011.7	2019.0
15°	1971.2	1951.4	1956.4	1971.2	1987.2	1996.1
15.5°	1945.9	1925.7	1930.8	1946.7	1962.0	1972.4
16°	1920.8	1900.4	1905.9	1921.1	1937.0	1949.1
16.5°	1895.4	1876.1	1881.1	1896.6	1913.3	1925.7
17°	1871.1	1850.8	1855.9	1872.2	1888.5	1901.8
17.5°	1847.0	1826.0	1832.1	1847.5	1864.5	1877.3
18°	1822.9	1801.1	1807.2	1823.1	1839.5	1852.9
18.5°	1798.1	1776.6	1782.6	1799.1	1815.2	1828.7
19°	1774.8	1752.2	1759.1	1775.0	1790.4	1804.5
19.5°	1752.0	1727.3	1735.2	1751.3	1766.5	1780.6
20°	1729.3	1704.0	1712.2	1727.6	1741.9	1756.3
20.5°	1706.5	1679.7	1688.4	1704.6	1718.0	1732.2
21°	1683.8	1656.7	1664.9	1680.3	1693.7	1707.9
21.5°	1661.0	1632.5	1641.4	1656.5	1669.1	1683.8
22°	1637.6	1609.0	1617.9	1632.4	1645.1	1658.5

TEST NUMBER: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1613.4	1584.5	1593.2	1608.2	1619.5	1633.1
23°	1587.0	1558.4	1566.6	1582.1	1592.4	1605.5
23.5°	1558.5	1530.1	1538.8	1554.4	1565.2	1578.0
24°	1529.5	1499.7	1509.2	1524.7	1535.7	1548.9
24.5°	1499.5	1466.3	1478.5	1492.9	1504.7	1519.4
25°	1468.0	1434.8	1446.4	1460.1	1472.1	1488.6
25.5°	1435.0	1402.6	1413.8	1425.9	1439.7	1458.4
26°	1402.0	1370.7	1380.8	1390.8	1406.1	1427.7
26.5°	1367.7	1337.3	1347.2	1355.5	1371.8	1397.9
27°	1332.5	1305.9	1313.3	1319.6	1335.9	1365.8
27.5°	1296.8	1273.7	1278.2	1283.7	1300.9	1334.1
28°	1260.1	1240.4	1243.1	1248.4	1267.7	1301.3
28.5°	1224.1	1207.0	1208.7	1213.4	1234.4	1268.3
29°	1189.0	1173.1	1174.2	1179.3	1201.7	1233.7
29.5°	1154.6	1138.0	1139.6	1145.6	1169.5	1199.9
30°	1120.2	1102.5	1104.1	1112.6	1137.9	1163.9
30.5°	1085.7	1065.7	1068.8	1079.3	1105.3	1129.1
31°	1052.2	1030.6	1033.5	1045.9	1072.9	1094.3
31.5°	1018.6	994.5	998.8	1012.7	1039.8	1060.0
32°	985.6	959.5	964.6	979.2	1005.7	1025.2
32.5°	952.7	925.1	930.7	945.8	971.7	991.7
33°	919.8	891.3	897.9	912.3	937.3	958.0
33.5°	886.4	856.8	865.7	878.0	902.5	924.1
34°	853.8	818.8	835.3	845.4	867.7	890.8
34.5°	821.2	788.3	803.7	814.4	834.3	856.9
35°	789.8	757.8	772.1	783.4	802.6	817.4
35.5°	758.0	727.4	740.5	752.4	771.0	786.1
36°	727.8	696.9	708.9	721.4	739.3	754.8
36.5°	697.3	667.4	677.4	690.3	707.6	723.4
37°	667.2	638.3	647.3	661.2	676.0	692.1
37.5°	637.7	609.9	617.8	632.3	646.6	659.7
38°	608.8	582.9	588.6	604.5	617.5	627.9
38.5°	580.9	556.2	560.2	576.1	588.1	597.1
39°	553.6	530.4	534.5	548.6	559.8	567.6
39.5°	526.5	504.2	508.4	520.7	531.3	538.3
40°	499.6	478.7	482.8	493.9	503.0	509.9
40.5°	474.1	454.5	458.1	467.1	474.6	483.0
41°	449.1	431.1	434.6	441.2	448.1	456.6
41.5°	425.0	408.4	411.3	416.3	421.4	430.7
42°	401.4	386.6	388.7	392.2	396.4	406.5
42.5°	378.1	365.6	366.9	367.8	371.7	383.0
43°	356.0	345.4	345.5	345.9	348.8	360.0
43.5°	334.7	325.5	325.1	323.2	326.1	337.5
44°	314.4	306.3	305.4	301.7	304.5	316.6
44.5°	294.7	287.7	286.6	280.6	283.4	296.0

TEST NUMBER: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	275.7	269.9	268.2	260.9	263.2	276.1
45.5°	257.5	252.8	251.0	241.6	244.2	257.0
46°	240.0	236.5	234.4	223.5	226.1	239.5
46.5°	223.6	220.4	218.3	206.3	208.6	221.9
47°	208.6	205.1	202.9	190.5	192.1	205.6
47.5°	193.6	190.4	188.0	175.7	177.0	189.6
48°	178.5	176.2	174.0	161.8	163.0	175.2
48.5°	163.5	163.1	160.6	149.1	150.0	160.8
49°	150.3	150.3	147.9	137.5	137.4	147.6
49.5°	137.8	138.0	135.7	126.7	126.6	135.1
50°	126.3	126.3	124.0	116.4	116.0	122.8
50.5°	115.2	115.0	113.1	106.7	106.2	111.2
51°	104.9	104.4	102.8	97.6	96.7	100.7
51.5°	95.2	94.2	93.1	88.9	88.1	90.4
52°	86.0	84.7	83.8	80.4	80.5	80.9
52.5°	77.1	76.7	76.0	72.9	72.8	72.7
53°	68.7	68.7	68.2	65.5	65.0	64.5
53.5°	61.0	60.7	60.4	58.0	57.2	56.4
54°	53.4	52.7	52.7	50.5	49.5	48.2
54.5°	46.4	44.6	44.9	44.1	42.9	41.6
55°	40.2	38.6	38.9	38.3	36.9	35.7
55.5°	34.8	33.2	33.6	32.9	31.9	30.5
56°	29.5	27.8	28.2	27.7	26.7	25.2
56.5°	25.9	22.9	23.4	22.8	21.8	20.4
57°	22.4	18.8	19.1	18.6	17.6	16.5
57.5°	19.0	15.7	16.0	15.5	14.6	13.6
58°	15.5	13.4	13.7	13.2	12.4	11.6
58.5°	12.0	11.6	11.9	11.5	10.7	10.0
59°	10.4	10.2	10.5	10.1	9.4	8.7
59.5°	9.2	9.0	9.3	9.0	8.3	8.0
60°	8.2	8.4	8.3	8.3	7.6	7.3
60.5°	7.4	7.7	7.7	7.7	7.0	6.5
61°	6.7	7.0	7.1	7.0	6.3	5.8
61.5°	6.1	6.4	6.5	6.3	5.7	5.3
62°	5.5	5.7	5.9	5.7	5.2	4.8
62.5°	5.1	5.3	5.5	5.2	4.8	4.4
63°	4.7	4.9	5.0	4.8	4.4	4.1
63.5°	4.3	4.5	4.7	4.4	4.0	3.8
64°	4.0	4.2	4.3	4.1	3.7	3.5
64.5°	3.7	3.9	4.0	3.8	3.4	3.2
65°	3.4	3.6	3.7	3.5	3.2	3.0
65.5°	3.2	3.3	3.5	3.3	3.0	2.8
66°	3.0	3.1	3.2	3.0	2.7	2.5
66.5°	2.7	2.9	3.0	2.8	2.5	2.4
67°	2.6	2.7	2.8	2.6	2.4	2.2

TEST NUMBER: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.4	2.5	2.6	2.4	2.2	2.0
68°	2.2	2.3	2.4	2.3	2.0	1.9
68.5°	2.1	2.2	2.2	2.1	1.9	1.7
69°	1.9	2.0	2.1	2.0	1.8	1.6
69.5°	1.8	1.9	1.9	1.8	1.6	1.5
70°	1.7	1.7	1.8	1.7	1.5	1.4
70.5°	1.5	1.6	1.7	1.6	1.4	1.3
71°	1.4	1.5	1.6	1.5	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	1.3	1.1	1.0
72.5°	1.1	1.2	1.2	1.2	1.0	0.9
73°	1.1	1.1	1.1	1.1	0.9	0.9
73.5°	1.0	1.0	1.1	1.0	0.9	0.8
74°	0.9	0.9	1.0	0.9	0.8	0.7
74.5°	0.8	0.9	0.9	0.8	0.7	0.7
75°	0.8	0.8	0.8	0.8	0.7	0.6
75.5°	0.7	0.7	0.8	0.7	0.6	0.5
76°	0.6	0.7	0.7	0.6	0.6	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	0.5	0.4
77.5°	0.5	0.5	0.5	0.5	0.4	0.4
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	0.4	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	0.3	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	0.1	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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.1	0.1	0.0	0.0
121°	0.0	0.1	0.1	0.1	0.1	0.1
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	0.2	0.1	0.1
127.5°	0.2	0.2	0.2	0.2	0.2	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	0.3	0.2	0.2
133.5°	0.3	0.3	0.3	0.3	0.3	0.3
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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

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	0.4	0.4	0.4	0.3	0.3
139°	0.5	0.4	0.4	0.4	0.4	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°	0.6	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°	0.7	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	0.5	0.5	0.5	0.4	0.4
145°	0.7	0.5	0.5	0.5	0.5	0.5
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°	0.9	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	0.6	0.6	0.5
151.5°	1.0	0.6	0.6	0.6	0.6	0.6
152°	1.0	0.6	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°	1.1	0.6	0.6	0.6	0.6	0.6
155°	1.1	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: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

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°	1.2	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	0.7	0.6
160.5°	1.2	0.6	0.6	0.7	0.7	0.7
161°	1.2	0.6	0.6	0.7	0.7	0.7
161.5°	1.2	0.6	0.6	0.7	0.7	0.7
162°	1.2	0.6	0.6	0.7	0.7	0.7
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°	1.2	0.6	0.6	0.7	0.7	0.7
170°	1.2	0.6	0.6	0.7	0.7	0.7
170.5°	1.1	0.6	0.6	0.7	0.7	0.7
171°	1.1	0.6	0.6	0.7	0.7	0.7
171.5°	1.1	0.6	0.6	0.7	0.7	0.7
172°	1.1	0.6	0.6	0.7	0.7	0.7
172.5°	1.1	0.6	0.6	0.7	0.7	0.7
173°	1.1	0.6	0.6	0.7	0.7	0.7
173.5°	1.1	0.6	0.6	0.7	0.7	0.7
174°	1.0	0.6	0.6	0.7	0.7	0.7
174.5°	1.0	0.6	0.6	0.7	0.7	0.7
175°	1.0	0.6	0.7	0.7	0.7	0.7
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°	1.0	0.7	0.7	0.7	0.7	0.7
177.5°	0.9	0.7	0.7	0.8	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	0.9	0.9	0.9	0.9	0.8



TEST NUMBER: P1590480

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-4000K

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: P1590480

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

(END OF REPORT)