

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: P1590479

Luminaire Tested: HCDLS1525CSD4TRH-ME-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590479
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-3500K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 2000 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

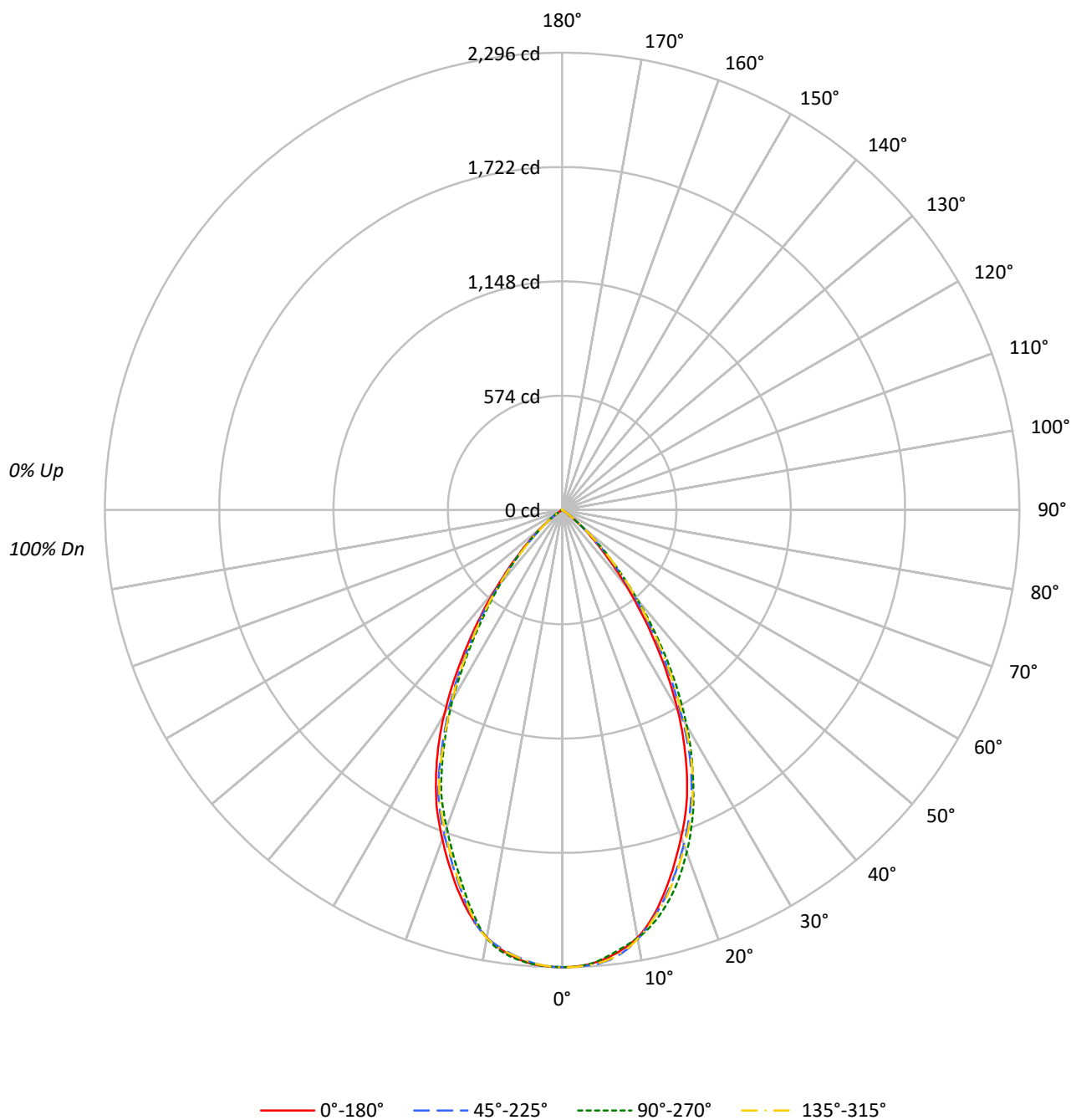
Lumens per Lamp: N/A
Luminaire Lumens: 2245.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	283165	283165	283165	283165
5°	281052	280445	281374	281745
10°	272991	273342	272941	273292
15°	253759	260897	254640	248077
20°	229511	240051	230981	222685
25°	201696	212297	204118	194401
30°	165030	178276	168605	156328
35°	122540	137944	125130	113611
40°	81732	94967	85000	76724
45°	47953	57512	50726	46871
50°	23468	26903	25119	24121
55°	7656	8129	8150	8258
60°	1776	1974	1850	2048
65°	876	1022	905	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: 57512 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	9.5
10°-20°	555.9	24.8
20°-30°	679.2	30.3
30°-40°	517.4	23.0
40°-50°	230.7	10.3
50°-60°	41.8	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°	1449.2	64.6
0°-40°	1966.6	87.6
0°-60°	2239.1	99.7
0°-90°	2243.6	99.9
90°-120°	0.0	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2245.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2296	2296	2296	2296	2296	
5°	2270	2265	2272	2276	2270	214
15°	1987	2043	1994	1943	1987	554
25°	1482	1560	1500	1428	1482	674
35°	814	916	831	754	814	508
45°	275	330	291	269	275	219
55°	36	38	38	38	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°	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7
0.5°	2296.1	2295.3	2295.5	2296.1	2295.3	2295.5	2296.5	2296.1	2296.1	2295.3	2295.3
1°	2295.1	2295.1	2295.5	2296.1	2295.3	2295.5	2295.9	2295.9	2295.3	2294.5	2294.5
1.5°	2293.9	2294.3	2295.1	2295.3	2294.5	2295.1	2295.3	2295.1	2294.5	2293.3	2293.3
2°	2292.3	2293.1	2294.5	2294.3	2293.1	2293.7	2294.5	2294.3	2292.9	2291.0	2291.4
2.5°	2290.2	2292.3	2293.5	2292.5	2291.0	2291.6	2293.7	2293.1	2290.8	2288.6	2289.0
3°	2288.0	2291.0	2292.1	2290.0	2288.0	2289.2	2291.6	2291.6	2288.6	2285.2	2285.6
3.5°	2284.4	2289.6	2290.4	2287.0	2284.0	2286.0	2289.4	2289.6	2286.0	2281.0	2281.4
4°	2280.4	2287.6	2288.8	2283.0	2278.5	2281.6	2287.2	2287.6	2282.2	2275.7	2276.3
4.5°	2275.3	2284.8	2286.2	2277.9	2272.1	2276.1	2283.8	2284.8	2277.9	2269.7	2270.7
5°	2269.9	2281.4	2282.2	2271.7	2265.0	2269.5	2279.6	2281.6	2272.5	2263.0	2264.4
5.5°	2263.6	2276.7	2277.7	2265.2	2257.4	2262.6	2274.5	2277.1	2266.9	2255.8	2258.0
6°	2257.2	2271.1	2272.3	2257.8	2249.3	2255.0	2268.9	2271.9	2260.0	2248.3	2250.9
6.5°	2249.7	2264.6	2266.0	2250.3	2241.0	2247.1	2262.2	2265.6	2252.3	2240.6	2243.9
7°	2241.9	2256.8	2258.2	2242.3	2233.0	2239.0	2254.6	2258.2	2244.1	2232.4	2236.6
7.5°	2233.2	2247.9	2249.3	2233.6	2224.9	2230.4	2246.1	2249.5	2235.8	2224.1	2228.7
8°	2224.5	2238.2	2239.2	2224.1	2216.7	2221.5	2236.4	2239.2	2225.9	2215.6	2220.7
8.5°	2214.4	2227.1	2228.1	2214.2	2208.4	2212.8	2225.5	2228.5	2215.4	2206.2	2211.8
9°	2203.7	2214.8	2215.6	2204.0	2199.9	2202.9	2213.4	2216.0	2204.4	2196.5	2202.1
9.5°	2191.9	2201.3	2202.3	2192.9	2191.5	2192.7	2200.7	2202.3	2192.7	2185.8	2191.7
10°	2179.6	2187.0	2187.8	2181.0	2182.4	2181.6	2186.8	2187.8	2179.2	2174.5	2179.8
10.5°	2165.8	2171.5	2172.3	2168.3	2172.5	2170.3	2172.3	2171.9	2164.8	2161.0	2165.6
11°	2150.5	2155.2	2156.0	2154.8	2161.6	2157.8	2156.8	2156.0	2149.9	2146.9	2150.1
11.5°	2133.8	2137.4	2139.4	2140.6	2149.9	2144.9	2140.8	2139.0	2133.8	2131.2	2132.8
12°	2115.0	2119.1	2122.1	2124.9	2137.6	2131.0	2124.7	2121.5	2116.7	2112.8	2112.6
12.5°	2095.7	2100.1	2103.6	2109.8	2123.5	2115.6	2107.8	2103.3	2097.3	2093.1	2090.0
13°	2075.3	2081.0	2085.4	2093.3	2109.4	2100.5	2090.2	2084.0	2079.0	2072.5	2068.1
13.5°	2054.2	2060.6	2066.7	2076.7	2093.9	2085.0	2072.3	2065.2	2058.6	2050.7	2044.9
14°	2032.2	2039.8	2047.7	2058.8	2077.3	2067.9	2054.0	2045.1	2038.0	2028.4	2020.7
14.5°	2010.1	2018.9	2028.4	2041.1	2060.4	2050.5	2034.6	2025.1	2015.9	2005.2	1996.4
15°	1987.2	1997.5	2008.1	2022.3	2043.1	2032.0	2016.1	2004.6	1994.1	1981.7	1971.1
15.5°	1963.7	1975.6	1987.8	2002.7	2024.9	2013.3	1995.7	1983.6	1971.8	1958.0	1945.9
16°	1940.5	1953.1	1966.7	1981.8	2005.5	1993.5	1975.3	1961.6	1948.9	1933.3	1921.1
16.5°	1917.2	1931.0	1945.4	1961.7	1985.8	1973.2	1953.7	1939.4	1925.7	1909.0	1896.6
17°	1893.4	1908.5	1923.6	1940.6	1965.3	1952.2	1932.0	1916.9	1902.0	1884.8	1872.0
17.5°	1869.0	1885.5	1901.0	1918.8	1944.3	1930.8	1910.3	1893.5	1878.3	1860.6	1847.5
18°	1844.7	1862.0	1878.1	1896.1	1921.8	1909.1	1887.4	1870.5	1854.9	1836.6	1823.3
18.5°	1820.6	1838.2	1855.4	1873.4	1899.5	1886.4	1864.7	1847.7	1831.1	1812.4	1799.5
19°	1796.5	1814.4	1832.9	1850.6	1876.0	1863.5	1842.3	1824.4	1806.5	1788.9	1775.6
19.5°	1772.7	1790.9	1810.0	1827.4	1853.1	1840.4	1819.7	1800.5	1783.0	1765.5	1754.3
20°	1748.5	1766.8	1786.8	1803.9	1828.8	1817.4	1797.0	1777.9	1759.7	1742.1	1731.3
20.5°	1724.5	1743.5	1763.4	1780.4	1805.0	1793.9	1773.7	1755.5	1735.4	1718.7	1708.4
21°	1700.3	1719.1	1739.7	1756.1	1780.6	1769.4	1750.5	1732.1	1711.1	1695.3	1685.4
21.5°	1676.4	1695.1	1716.3	1731.6	1754.6	1744.1	1727.3	1708.7	1686.7	1671.9	1662.5
22°	1651.1	1670.2	1691.6	1705.8	1728.5	1718.7	1704.2	1685.3	1662.4	1648.5	1637.3

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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°	1625.8	1646.1	1667.1	1681.0	1702.5	1693.4	1681.0	1662.0	1640.1	1622.6	1612.3
23°	1598.3	1620.0	1642.3	1653.3	1676.4	1668.1	1657.8	1636.1	1613.5	1595.0	1586.2
23.5°	1571.0	1594.2	1617.0	1627.4	1650.3	1642.7	1631.5	1610.6	1586.1	1567.3	1558.5
24°	1542.0	1567.3	1590.4	1598.5	1620.0	1614.3	1605.9	1584.4	1557.7	1539.0	1528.5
24.5°	1512.6	1539.4	1564.6	1570.8	1590.5	1586.0	1579.4	1557.2	1529.0	1508.8	1497.3
25°	1482.0	1510.5	1537.1	1540.7	1559.9	1556.7	1552.1	1529.7	1499.8	1478.1	1464.9
25.5°	1452.0	1481.7	1509.2	1512.2	1530.0	1527.3	1523.9	1501.7	1470.2	1446.6	1431.1
26°	1421.4	1451.5	1480.0	1481.8	1500.0	1497.4	1495.2	1472.6	1440.6	1414.9	1395.5
26.5°	1391.7	1421.2	1450.2	1451.3	1469.5	1467.0	1465.0	1441.9	1409.8	1382.3	1359.8
27°	1359.7	1390.2	1417.7	1420.7	1438.8	1436.1	1433.9	1411.0	1379.4	1349.3	1324.7
27.5°	1328.2	1359.0	1384.2	1389.4	1409.2	1405.8	1401.9	1379.4	1348.9	1315.3	1290.6
28°	1295.5	1327.3	1349.4	1357.7	1378.7	1375.1	1367.3	1346.8	1317.0	1281.9	1256.9
28.5°	1262.7	1293.0	1313.2	1324.9	1348.0	1343.1	1333.1	1313.3	1284.8	1247.8	1222.9
29°	1228.3	1260.3	1276.7	1292.3	1316.9	1311.7	1297.3	1278.6	1251.7	1214.5	1190.7
29.5°	1194.6	1226.0	1238.7	1259.4	1285.2	1279.2	1260.8	1242.7	1217.9	1181.6	1158.3
30°	1158.7	1190.4	1201.8	1225.2	1251.7	1246.2	1222.7	1205.8	1183.8	1148.5	1125.8
30.5°	1124.1	1153.3	1165.3	1189.7	1218.5	1211.7	1185.5	1168.4	1148.2	1115.2	1092.8
31°	1089.5	1117.4	1129.8	1154.6	1184.9	1177.7	1149.4	1131.1	1113.5	1082.8	1059.3
31.5°	1055.3	1079.6	1095.2	1119.1	1151.4	1142.9	1114.2	1093.6	1077.6	1050.3	1025.7
32°	1020.6	1043.0	1061.8	1083.2	1117.5	1107.6	1080.3	1057.7	1043.6	1018.1	991.7
32.5°	987.3	1005.6	1028.3	1047.9	1084.6	1072.5	1046.4	1022.6	1006.7	985.2	957.9
33°	953.7	971.3	996.2	1012.8	1051.7	1036.8	1014.6	988.0	970.8	953.3	923.6
33.5°	920.0	934.9	963.6	977.7	1018.2	1001.6	982.1	954.6	934.8	920.0	889.1
34°	886.8	901.8	931.3	944.5	984.1	967.3	950.1	921.7	900.3	886.9	856.8
34.5°	853.1	867.3	897.8	911.6	950.0	933.6	918.0	889.4	864.8	853.4	823.6
35°	813.8	834.2	864.7	879.6	916.1	900.5	885.8	858.0	831.0	819.1	792.9
35.5°	782.6	802.3	832.6	848.4	882.2	867.9	853.0	825.4	798.1	785.7	762.8
36°	751.4	770.5	801.0	818.5	847.6	836.0	820.6	792.8	766.5	752.9	733.3
36.5°	720.2	738.6	769.5	787.4	813.8	803.7	788.3	760.6	733.8	720.4	703.5
37°	689.0	706.8	737.9	756.3	780.0	772.4	756.2	728.7	702.6	688.8	675.2
37.5°	656.7	674.9	706.3	725.2	746.8	741.4	724.5	696.2	672.3	657.4	646.1
38°	625.1	646.0	674.7	694.1	714.5	710.8	694.9	665.4	642.4	627.6	617.5
38.5°	594.4	616.4	645.6	663.4	682.0	679.9	665.0	635.4	612.7	598.3	588.5
39°	565.1	588.3	617.6	633.8	650.7	651.0	636.7	606.0	584.2	569.8	560.6
39.5°	535.9	559.9	588.8	604.1	619.9	620.7	608.6	578.0	555.9	540.8	532.7
40°	507.6	532.9	560.9	575.0	589.8	592.1	580.8	551.2	527.9	512.7	505.5
40.5°	480.8	506.8	533.6	546.5	560.7	562.0	553.0	524.2	500.3	485.4	478.7
41°	454.6	480.6	506.2	518.9	531.7	533.9	525.6	498.3	473.5	458.8	453.0
41.5°	428.8	454.9	478.7	491.8	504.3	505.5	498.6	473.0	447.8	432.8	428.4
42°	404.7	431.1	453.1	465.8	477.3	478.6	471.6	448.8	422.9	407.1	404.6
42.5°	381.3	406.9	427.3	439.9	451.2	451.4	444.8	424.2	398.9	382.8	380.5
43°	358.4	383.2	402.3	413.5	425.6	425.6	418.9	400.7	375.9	359.5	357.3
43.5°	336.0	359.4	377.7	388.2	400.3	399.7	393.7	377.3	352.8	336.9	334.0
44°	315.1	336.9	355.1	363.3	375.7	375.6	369.5	354.8	331.5	315.6	312.6
44.5°	294.6	315.1	332.4	339.1	352.2	351.2	345.7	332.3	310.7	295.1	290.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	274.9	294.3	310.8	315.7	329.7	328.2	323.1	310.9	290.8	275.2	269.4
45.5°	255.9	273.7	289.9	292.5	307.0	305.0	301.2	290.1	271.5	256.1	248.9
46°	238.4	254.5	269.3	270.8	285.6	283.4	279.9	270.0	252.5	238.1	230.8
46.5°	220.9	235.3	249.0	249.7	264.3	261.8	259.6	250.1	234.9	222.5	214.4
47°	204.7	218.1	229.6	229.9	244.9	241.4	239.4	231.4	219.3	206.7	198.1
47.5°	188.8	200.6	210.8	210.6	227.0	223.7	221.8	214.8	203.7	191.0	181.8
48°	174.4	184.8	192.9	192.6	209.1	206.0	204.3	198.2	188.1	175.4	165.5
48.5°	160.1	168.7	175.6	175.6	191.2	188.3	186.7	181.6	172.6	159.7	152.1
49°	147.0	154.5	159.2	159.8	173.4	170.6	169.2	165.0	157.0	146.6	140.0
49.5°	134.5	140.7	143.5	144.8	155.6	153.0	151.7	148.6	143.6	134.1	128.9
50°	122.3	127.6	129.0	130.5	140.2	138.3	137.0	134.8	130.9	122.6	118.4
50.5°	110.7	114.6	115.5	117.0	125.6	124.4	123.1	121.6	119.0	111.7	108.5
51°	100.2	103.2	103.3	104.5	112.4	111.7	110.4	109.2	107.4	101.6	99.2
51.5°	90.0	92.3	91.7	92.9	99.8	99.6	98.7	97.6	96.7	92.1	90.5
52°	80.6	82.2	81.3	82.3	88.2	88.4	87.5	87.0	86.3	82.9	82.1
52.5°	72.4	73.9	73.1	73.8	77.5	77.9	77.2	76.8	76.5	74.3	73.8
53°	64.3	65.6	64.8	65.4	67.7	68.3	67.8	67.4	67.3	65.9	66.0
53.5°	56.1	57.3	56.6	56.9	58.6	59.3	59.1	58.7	59.0	58.1	58.5
54°	48.0	49.0	48.3	48.5	50.6	51.4	51.3	50.7	51.1	50.8	51.4
54.5°	41.5	40.7	40.1	40.1	43.7	44.4	44.3	43.6	44.1	44.1	44.9
55°	35.6	34.9	34.4	34.5	37.8	38.4	38.3	37.7	37.9	38.0	38.8
55.5°	30.3	29.5	29.1	29.0	32.3	32.9	32.8	32.2	32.4	32.7	33.4
56°	25.1	24.2	23.7	23.7	26.9	27.3	27.3	28.7	28.4	29.0	28.0
56.5°	20.3	19.6	19.2	19.2	23.8	24.1	24.1	25.2	24.4	25.4	24.6
57°	16.5	15.8	15.5	15.8	20.7	21.0	21.0	21.7	20.4	21.7	21.3
57.5°	13.6	13.1	12.9	13.2	17.6	18.0	17.9	18.1	16.5	18.1	17.9
58°	11.5	11.1	11.0	11.3	14.4	14.9	14.8	14.6	12.5	14.4	14.6
58.5°	9.9	9.6	9.5	9.8	11.3	11.8	11.6	11.1	10.8	10.8	11.3
59°	8.7	8.4	8.4	8.6	10.0	10.4	10.2	9.7	9.5	9.4	9.7
59.5°	8.0	7.7	7.7	7.9	8.9	9.3	9.1	8.7	8.4	8.3	8.6
60°	7.2	7.0	7.0	7.2	8.0	8.3	8.2	7.7	7.5	7.4	7.7
60.5°	6.5	6.3	6.3	6.5	7.2	7.6	7.4	7.0	6.7	6.6	6.9
61°	5.8	5.6	5.6	5.8	6.6	6.8	6.7	6.3	6.1	6.0	6.2
61.5°	5.3	5.1	5.1	5.3	6.0	6.3	6.1	5.8	5.5	5.5	5.7
62°	4.8	4.7	4.7	4.9	5.5	5.7	5.6	5.3	5.1	5.0	5.2
62.5°	4.4	4.3	4.3	4.5	5.1	5.3	5.2	4.8	4.6	4.6	4.7
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°	3.7	3.7	3.7	3.8	4.3	4.5	4.4	4.1	3.9	3.9	4.0
64°	3.5	3.4	3.4	3.5	4.0	4.2	4.1	3.8	3.6	3.6	3.7
64.5°	3.2	3.1	3.1	3.3	3.7	3.9	3.8	3.5	3.4	3.3	3.4
65°	3.0	2.9	2.9	3.1	3.5	3.6	3.5	3.3	3.1	3.1	3.2
65.5°	2.7	2.7	2.7	2.8	3.2	3.4	3.3	3.1	2.9	2.9	3.0
66°	2.5	2.5	2.5	2.6	3.0	3.1	3.0	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	2.4	2.3	2.3	2.4

TEST NUMBER: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	2.1	2.2
68°	1.9	1.8	1.9	2.0	2.2	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	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	1.7
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	1.6	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	0.6	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
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	0.6	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	0.4	0.5
77.5°	0.4	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	0.5	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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	0.2	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	0.2	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	0.3	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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	0.5
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	0.7	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	0.7	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	0.8	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	0.9	1.0	1.0
152°	0.6	0.5	0.5	0.5	0.9	0.9	0.9	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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	1.2	1.1
159°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	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°	0.6	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	0.6	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	0.6	0.6	0.6	1.1	1.1	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	1.1
170.5°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	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°	0.6	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	1.1	1.1	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	1.1	1.1
174°	0.6	0.6	0.6	0.6	1.0	1.0	1.1	1.1	1.1	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°	0.7	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175.5°	0.7	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
176°	0.7	0.7	0.7	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	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	0.7	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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7
0.5°	2295.9	2294.3	2295.1	2295.9	2295.7	2296.1
1°	2295.3	2293.7	2294.5	2294.9	2294.7	2295.1
1.5°	2294.3	2292.7	2293.7	2293.5	2293.1	2293.9
2°	2293.1	2291.4	2291.9	2291.0	2290.8	2292.3
2.5°	2290.8	2290.0	2290.0	2288.6	2288.4	2290.2
3°	2288.8	2288.6	2288.0	2285.2	2284.4	2288.0
3.5°	2285.8	2286.2	2285.0	2281.2	2279.8	2284.4
4°	2282.4	2283.2	2281.6	2276.3	2274.7	2280.4
4.5°	2277.7	2279.8	2277.5	2271.1	2269.1	2275.3
5°	2272.9	2275.5	2273.1	2265.0	2262.6	2269.9
5.5°	2267.9	2270.9	2268.1	2259.0	2256.0	2263.6
6°	2262.0	2265.4	2262.6	2252.7	2248.7	2257.2
6.5°	2255.6	2259.6	2256.4	2246.3	2242.1	2249.7
7°	2248.7	2252.1	2249.7	2239.4	2234.4	2241.9
7.5°	2241.2	2244.3	2241.7	2232.6	2227.1	2233.2
8°	2232.8	2235.0	2233.0	2224.1	2219.1	2224.5
8.5°	2223.9	2224.5	2222.9	2215.8	2210.6	2214.4
9°	2213.2	2212.0	2211.6	2205.8	2201.1	2203.7
9.5°	2201.5	2198.3	2198.5	2194.9	2190.6	2191.9
10°	2187.8	2182.0	2183.4	2181.6	2179.2	2179.6
10.5°	2172.1	2164.0	2165.8	2167.5	2166.3	2165.8
11°	2154.6	2143.7	2146.5	2150.5	2151.5	2150.5
11.5°	2133.8	2120.9	2124.5	2131.4	2134.8	2133.8
12°	2111.8	2096.5	2101.1	2109.6	2115.2	2115.0
12.5°	2088.2	2072.3	2076.7	2087.2	2094.3	2095.7
13°	2064.2	2046.7	2051.3	2063.2	2073.1	2075.3
13.5°	2039.4	2021.9	2025.9	2038.6	2050.5	2054.2
14°	2014.2	1995.4	2000.1	2013.5	2026.7	2032.2
14.5°	1988.3	1969.5	1974.2	1988.6	2002.7	2010.1
15°	1962.4	1942.7	1947.7	1962.5	1978.4	1987.2
15.5°	1937.2	1917.2	1922.2	1938.0	1953.3	1963.7
16°	1912.2	1891.9	1897.4	1912.5	1928.4	1940.5
16.5°	1887.0	1867.8	1872.7	1888.2	1904.8	1917.2
17°	1862.8	1842.6	1847.7	1863.9	1880.1	1893.4
17.5°	1838.8	1817.9	1824.0	1839.3	1856.3	1869.0
18°	1814.8	1793.1	1799.2	1815.0	1831.4	1844.7
18.5°	1790.2	1768.7	1774.7	1791.2	1807.1	1820.6
19°	1767.0	1744.5	1751.3	1767.1	1782.5	1796.5
19.5°	1744.3	1719.7	1727.5	1743.6	1758.6	1772.7
20°	1721.6	1696.5	1704.6	1719.9	1734.1	1748.5
20.5°	1699.0	1672.3	1680.9	1697.0	1710.4	1724.5
21°	1676.3	1649.3	1657.5	1672.9	1686.1	1700.3
21.5°	1653.6	1625.3	1634.1	1649.2	1661.7	1676.4
22°	1630.4	1601.9	1610.7	1625.1	1637.8	1651.1

TEST NUMBER: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1606.3	1577.5	1586.1	1601.1	1612.3	1625.8
23°	1580.0	1551.5	1559.6	1575.1	1585.3	1598.3
23.5°	1551.6	1523.3	1532.0	1547.5	1558.3	1571.0
24°	1522.7	1493.0	1502.5	1517.9	1528.9	1542.0
24.5°	1492.8	1459.8	1472.0	1486.3	1498.0	1512.6
25°	1461.5	1428.4	1440.0	1453.7	1465.6	1482.0
25.5°	1428.7	1396.3	1407.6	1419.6	1433.3	1452.0
26°	1395.8	1364.6	1374.7	1384.6	1399.9	1421.4
26.5°	1361.7	1331.4	1341.2	1349.4	1365.7	1391.7
27°	1326.5	1300.1	1307.5	1313.7	1330.0	1359.7
27.5°	1291.0	1268.0	1272.5	1278.0	1295.2	1328.2
28°	1254.6	1234.9	1237.6	1242.9	1262.0	1295.5
28.5°	1218.6	1201.6	1203.3	1208.0	1228.9	1262.7
29°	1183.8	1167.9	1169.0	1174.1	1196.4	1228.3
29.5°	1149.5	1132.9	1134.6	1140.5	1164.3	1194.6
30°	1115.3	1097.6	1099.2	1107.7	1132.9	1158.7
30.5°	1080.9	1061.0	1064.0	1074.5	1100.4	1124.1
31°	1047.6	1026.1	1029.0	1041.3	1068.1	1089.5
31.5°	1014.1	990.1	994.4	1008.2	1035.2	1055.3
32°	981.2	955.3	960.3	974.9	1001.2	1020.6
32.5°	948.5	921.0	926.6	941.6	967.4	987.3
33°	915.7	887.4	893.9	908.2	933.2	953.7
33.5°	882.5	853.0	861.9	874.1	898.5	920.0
34°	850.0	815.2	831.6	841.7	863.9	886.8
34.5°	817.6	784.8	800.2	810.8	830.6	853.1
35°	786.3	754.5	768.7	779.9	799.0	813.8
35.5°	754.6	724.1	737.3	749.0	767.5	782.6
36°	724.6	693.8	705.8	718.2	736.0	751.4
36.5°	694.2	664.4	674.4	687.3	704.5	720.2
37°	664.3	635.4	644.5	658.2	673.0	689.0
37.5°	634.8	607.2	615.0	629.5	643.7	656.7
38°	606.1	580.3	586.0	601.8	614.7	625.1
38.5°	578.3	553.7	557.8	573.5	585.5	594.4
39°	551.1	528.0	532.2	546.2	557.3	565.1
39.5°	524.2	502.0	506.1	518.4	528.9	535.9
40°	497.4	476.5	480.6	491.7	500.7	507.6
40.5°	472.0	452.5	456.1	465.1	472.5	480.8
41°	447.1	429.2	432.6	439.3	446.1	454.6
41.5°	423.1	406.6	409.5	414.5	419.6	428.8
42°	399.6	384.9	387.0	390.5	394.6	404.7
42.5°	376.4	364.0	365.2	366.2	370.1	381.3
43°	354.4	343.9	344.0	344.4	347.2	358.4
43.5°	333.2	324.0	323.6	321.7	324.6	336.0
44°	313.0	305.0	304.1	300.4	303.1	315.1
44.5°	293.4	286.4	285.4	279.4	282.1	294.6

TEST NUMBER: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	274.4	268.7	267.0	259.7	262.0	274.9
45.5°	256.3	251.6	249.8	240.6	243.1	255.9
46°	239.0	235.4	233.3	222.5	225.1	238.4
46.5°	222.7	219.5	217.4	205.4	207.7	220.9
47°	207.6	204.2	202.0	189.6	191.3	204.7
47.5°	192.7	189.6	187.2	174.9	176.2	188.8
48°	177.8	175.5	173.2	161.1	162.3	174.4
48.5°	162.8	162.4	159.9	148.5	149.3	160.1
49°	149.7	149.6	147.2	136.9	136.8	147.0
49.5°	137.2	137.4	135.1	126.1	126.0	134.5
50°	125.8	125.7	123.4	115.9	115.5	122.3
50.5°	114.7	114.5	112.6	106.3	105.8	110.7
51°	104.5	104.0	102.4	97.2	96.3	100.2
51.5°	94.7	93.8	92.7	88.5	87.7	90.0
52°	85.6	84.4	83.4	80.1	80.2	80.6
52.5°	76.7	76.4	75.7	72.6	72.4	72.4
53°	68.4	68.4	67.9	65.2	64.7	64.3
53.5°	60.7	60.4	60.2	57.7	57.0	56.1
54°	53.2	52.4	52.4	50.3	49.2	48.0
54.5°	46.2	44.4	44.7	43.9	42.7	41.5
55°	40.1	38.4	38.7	38.1	36.8	35.6
55.5°	34.7	33.1	33.4	32.8	31.8	30.3
56°	29.3	27.7	28.1	27.6	26.5	25.1
56.5°	25.8	22.8	23.3	22.7	21.7	20.3
57°	22.3	18.7	19.1	18.5	17.6	16.5
57.5°	18.9	15.6	16.0	15.5	14.6	13.6
58°	15.4	13.3	13.6	13.2	12.4	11.5
58.5°	11.9	11.5	11.9	11.4	10.7	9.9
59°	10.3	10.1	10.4	10.0	9.3	8.7
59.5°	9.1	9.0	9.3	8.9	8.2	8.0
60°	8.2	8.3	8.3	8.3	7.6	7.2
60.5°	7.3	7.7	7.7	7.6	6.9	6.5
61°	6.6	7.0	7.1	7.0	6.3	5.8
61.5°	6.0	6.4	6.5	6.3	5.7	5.3
62°	5.5	5.7	5.9	5.6	5.2	4.8
62.5°	5.1	5.2	5.4	5.2	4.7	4.4
63°	4.7	4.8	5.0	4.8	4.4	4.1
63.5°	4.3	4.5	4.6	4.4	4.0	3.7
64°	4.0	4.1	4.3	4.1	3.7	3.5
64.5°	3.7	3.8	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	3.4	3.3	2.9	2.7
66°	2.9	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°	2.5	2.7	2.8	2.6	2.3	2.2

TEST NUMBER: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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°	2.0	2.1	2.2	2.1	1.9	1.7
69°	1.9	2.0	2.1	2.0	1.7	1.6
69.5°	1.8	1.9	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	1.7	1.6	1.4	1.3
71°	1.4	1.5	1.6	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	1.2	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	0.4	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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	0.1
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	0.1	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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	0.3	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	0.5	0.5
151.5°	1.0	0.5	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°	1.0	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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	0.6	0.6
160.5°	1.2	0.6	0.6	0.7	0.7	0.6
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°	1.1	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	0.6
173°	1.1	0.6	0.6	0.7	0.7	0.6
173.5°	1.0	0.6	0.6	0.7	0.7	0.6
174°	1.0	0.6	0.6	0.7	0.7	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	0.7
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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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: P1590479

CATALOG NUMBER: HCDLS1525CSD4TRH-ME-3500K

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	5.4	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	6.9	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	6.5	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	5.2	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	5.1	5.1	5.6	6.1	5.6	6.1	6.1	6.6	7.1
	6H	4.6	4.9	5.1	5.4	5.9	5.5	5.9	6.1	6.4	6.9
	8H	4.5	4.8	5.0	5.3	5.8	5.5	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	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	4.9	5.2	5.8	5.4	5.7	5.9	6.2	6.8

(END OF REPORT)