

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: P1590463

Luminaire Tested: HCDLS1525CSD4TRC-ME-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590463
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: HCDLS1525CSD4TRC-ME-3000K
Description: 4" Selectable Round Trim + Specular Clear 2000 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

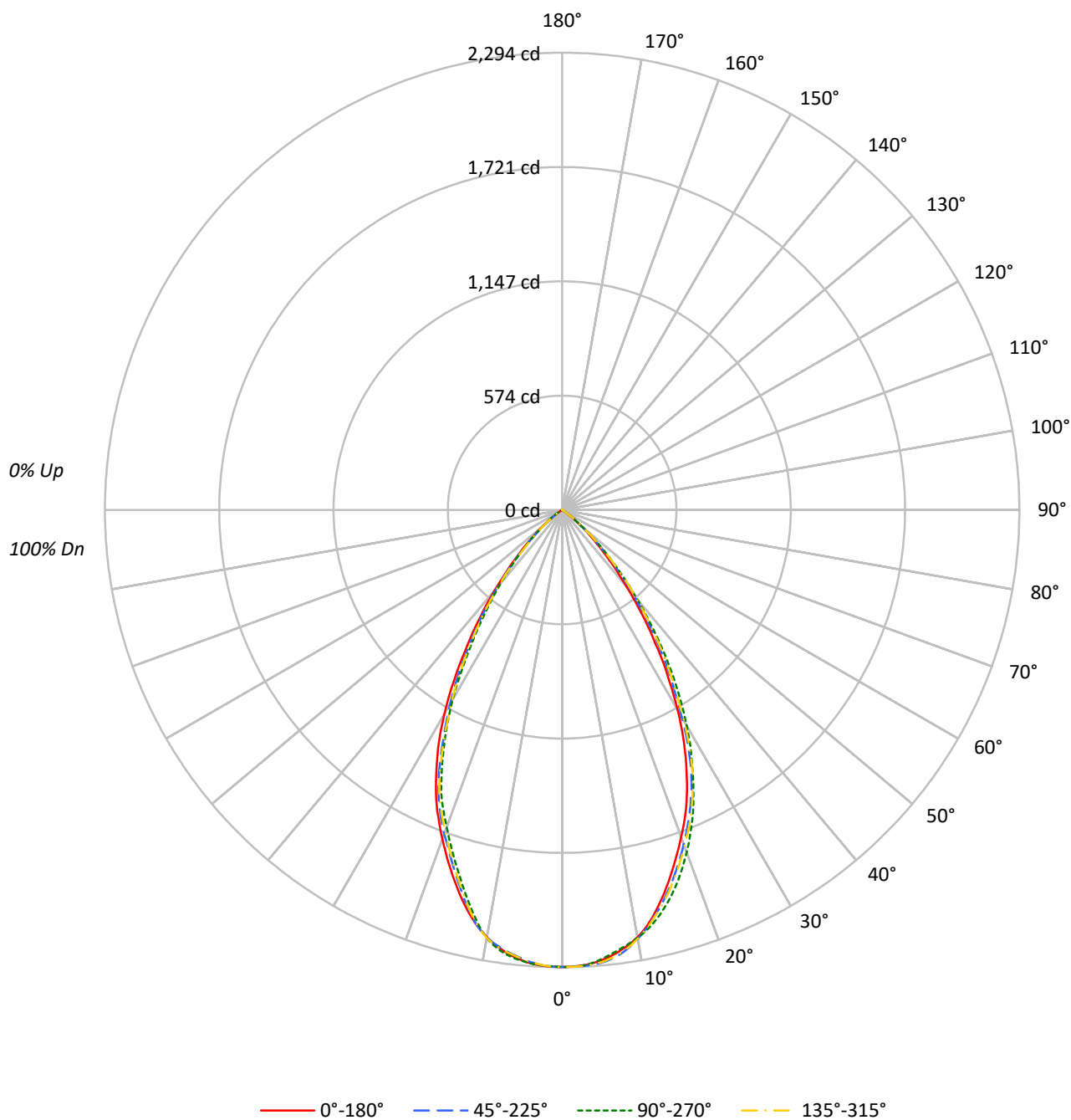
Lumens per Lamp: N/A
Luminaire Lumens: 2242.2 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	282807	282807	282807	282807
5°	280693	280098	281027	281398
10°	272641	273004	272591	272954
15°	253440	260565	254321	247770
20°	229222	239749	230692	222410
25°	201451	212025	203873	194169
30°	164831	178063	168392	156129
35°	122374	137763	124979	113460
40°	81635	94839	84904	76628
45°	47883	57442	50657	46819
50°	23430	26884	25099	24082
55°	7634	8107	8129	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: 57442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	9.5
10°-20°	555.2	24.8
20°-30°	678.3	30.3
30°-40°	516.8	23.0
40°-50°	230.4	10.3
50°-60°	41.7	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°	1447.4	64.6
0°-40°	1964.2	87.6
0°-60°	2236.3	99.7
0°-90°	2240.8	99.9
90°-120°	0.0	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2242.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2293	2293	2293	2293	2293	
5°	2267	2262	2270	2273	2267	214
15°	1985	2040	1992	1940	1985	554
25°	1480	1558	1498	1427	1480	673
35°	813	915	830	754	813	508
45°	274	329	290	268	274	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°	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8
0.5°	2293.2	2292.4	2292.6	2293.2	2292.4	2292.6	2293.6	2293.2	2293.2	2292.4	2292.4
1°	2292.2	2292.2	2292.6	2293.2	2292.4	2292.6	2293.0	2293.0	2292.4	2291.6	2291.6
1.5°	2291.0	2291.4	2292.2	2292.4	2291.6	2292.2	2292.4	2292.2	2291.6	2290.4	2290.4
2°	2289.4	2290.2	2291.6	2291.4	2290.2	2290.8	2291.6	2291.4	2290.0	2288.2	2288.6
2.5°	2287.4	2289.4	2290.6	2289.6	2288.2	2288.8	2290.8	2290.2	2288.0	2285.8	2286.2
3°	2285.2	2288.2	2289.2	2287.2	2285.2	2286.4	2288.8	2288.8	2285.8	2282.3	2282.7
3.5°	2281.5	2286.8	2287.6	2284.2	2281.1	2283.2	2286.6	2286.8	2283.2	2278.1	2278.5
4°	2277.5	2284.8	2286.0	2280.1	2275.7	2278.7	2284.4	2284.8	2279.3	2272.9	2273.5
4.5°	2272.5	2281.9	2283.4	2275.1	2269.3	2273.3	2280.9	2281.9	2275.1	2266.8	2267.8
5°	2267.0	2278.5	2279.3	2268.9	2262.2	2266.6	2276.7	2278.7	2269.7	2260.2	2261.6
5.5°	2260.8	2273.9	2274.9	2262.4	2254.6	2259.8	2271.7	2274.3	2264.0	2252.9	2255.2
6°	2254.4	2268.3	2269.5	2255.0	2246.5	2252.1	2266.0	2269.1	2257.2	2245.5	2248.1
6.5°	2246.9	2261.8	2263.2	2247.5	2238.3	2244.3	2259.4	2262.8	2249.5	2237.8	2241.1
7°	2239.1	2254.0	2255.4	2239.5	2230.2	2236.2	2251.7	2255.4	2241.3	2229.6	2233.8
7.5°	2230.4	2245.1	2246.5	2230.8	2222.1	2227.6	2243.3	2246.7	2233.0	2221.3	2226.0
8°	2221.7	2235.4	2236.4	2221.3	2213.9	2218.7	2233.6	2236.4	2223.1	2212.9	2217.9
8.5°	2211.7	2224.4	2225.4	2211.5	2205.6	2210.1	2222.7	2225.8	2212.7	2203.4	2209.1
9°	2201.0	2212.1	2212.9	2201.2	2197.2	2200.2	2210.7	2213.3	2201.6	2193.8	2199.4
9.5°	2189.1	2198.6	2199.6	2190.1	2188.7	2189.9	2198.0	2199.6	2189.9	2183.1	2188.9
10°	2176.8	2184.3	2185.1	2178.2	2179.7	2178.9	2184.1	2185.1	2176.4	2171.8	2177.0
10.5°	2163.1	2168.8	2169.6	2165.6	2169.8	2167.6	2169.6	2169.2	2162.1	2158.3	2162.9
11°	2147.8	2152.5	2153.3	2152.1	2158.9	2155.1	2154.1	2153.3	2147.2	2144.2	2147.4
11.5°	2131.1	2134.8	2136.8	2138.0	2147.2	2142.2	2138.2	2136.4	2131.1	2128.5	2130.1
12°	2112.4	2116.4	2119.5	2122.3	2135.0	2128.3	2122.1	2118.8	2114.0	2110.2	2110.0
12.5°	2093.1	2097.5	2100.9	2107.2	2120.9	2113.0	2105.2	2100.7	2094.7	2090.5	2087.4
13°	2072.7	2078.4	2082.8	2090.7	2106.8	2097.9	2087.6	2081.4	2076.4	2069.9	2065.5
13.5°	2051.6	2058.0	2064.1	2074.1	2091.3	2082.4	2069.7	2062.7	2056.0	2048.2	2042.3
14°	2029.6	2037.3	2045.2	2056.2	2074.8	2065.3	2051.4	2042.5	2035.5	2025.8	2018.2
14.5°	2007.6	2016.4	2025.8	2038.5	2057.8	2048.0	2032.1	2022.6	2013.3	2002.7	1993.9
15°	1984.7	1995.1	2005.5	2019.8	2040.5	2029.4	2013.5	2002.1	1991.6	1979.2	1968.7
15.5°	1961.2	1973.1	1985.3	2000.3	2022.4	2010.7	1993.2	1981.1	1969.4	1955.5	1943.5
16°	1938.1	1950.7	1964.2	1979.3	2003.0	1991.0	1972.8	1959.2	1946.4	1930.9	1918.7
16.5°	1914.8	1928.6	1942.9	1959.2	1983.3	1970.7	1951.2	1937.0	1923.3	1906.7	1894.2
17°	1891.0	1906.1	1921.2	1938.1	1962.9	1949.8	1929.6	1914.5	1899.6	1882.5	1869.7
17.5°	1866.7	1883.2	1898.6	1916.4	1941.8	1928.4	1907.9	1891.1	1875.9	1858.3	1845.2
18°	1842.4	1859.7	1875.8	1893.8	1919.4	1906.7	1885.0	1868.1	1852.6	1834.3	1821.0
18.5°	1818.3	1835.9	1853.0	1871.1	1897.1	1884.0	1862.4	1845.4	1828.8	1810.1	1797.2
19°	1794.3	1812.1	1830.6	1848.3	1873.7	1861.1	1840.0	1822.2	1804.3	1786.6	1773.4
19.5°	1770.5	1788.6	1807.7	1825.1	1850.8	1838.1	1817.4	1798.3	1780.7	1763.3	1752.1
20°	1746.3	1764.6	1784.6	1801.7	1826.5	1815.1	1794.8	1775.6	1757.5	1739.9	1729.2
20.5°	1722.4	1741.3	1761.2	1778.2	1802.8	1791.7	1771.5	1753.3	1733.2	1716.6	1706.3
21°	1698.2	1716.9	1737.5	1753.9	1778.4	1767.2	1748.3	1729.9	1708.9	1693.2	1683.3
21.5°	1674.3	1693.0	1714.1	1729.4	1752.4	1741.9	1725.2	1706.6	1684.6	1669.8	1660.4
22°	1649.1	1668.1	1689.5	1703.7	1726.3	1716.6	1702.0	1683.2	1660.3	1646.5	1635.2

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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°	1623.8	1644.0	1665.0	1678.9	1700.3	1691.3	1678.9	1659.9	1638.0	1620.6	1610.3
23°	1596.4	1618.0	1640.2	1651.3	1674.3	1666.0	1655.8	1634.1	1611.5	1593.0	1584.2
23.5°	1569.0	1592.2	1615.0	1625.4	1648.2	1640.7	1629.5	1608.6	1584.1	1565.3	1556.5
24°	1540.1	1565.4	1588.5	1596.5	1617.9	1612.3	1603.9	1582.5	1555.7	1537.1	1526.6
24.5°	1510.7	1537.5	1562.7	1568.8	1588.5	1584.0	1577.4	1555.2	1527.1	1506.9	1495.4
25°	1480.2	1508.6	1535.2	1538.8	1557.9	1554.8	1550.1	1527.8	1498.0	1476.3	1463.1
25.5°	1450.2	1479.9	1507.3	1510.3	1528.1	1525.4	1522.0	1499.8	1468.4	1444.8	1429.3
26°	1419.6	1449.7	1478.2	1480.0	1498.1	1495.6	1493.3	1470.7	1438.8	1413.1	1393.7
26.5°	1390.0	1419.4	1448.4	1449.5	1467.6	1465.2	1463.2	1440.1	1408.0	1380.6	1358.1
27°	1358.0	1388.4	1416.0	1418.9	1437.0	1434.3	1432.1	1409.2	1377.7	1347.6	1323.0
27.5°	1326.5	1357.3	1382.5	1387.7	1407.4	1404.1	1400.1	1377.7	1347.2	1313.6	1289.0
28°	1293.9	1325.6	1347.7	1356.0	1377.0	1373.4	1365.6	1345.1	1315.4	1280.3	1255.3
28.5°	1261.1	1291.4	1311.6	1323.3	1346.3	1341.4	1331.4	1311.7	1283.2	1246.3	1221.4
29°	1226.7	1258.7	1275.1	1290.7	1315.3	1310.1	1295.7	1277.0	1250.2	1213.0	1189.2
29.5°	1193.1	1224.5	1237.2	1257.9	1283.6	1277.6	1259.2	1241.2	1216.4	1180.1	1156.8
30°	1157.3	1188.9	1200.3	1223.7	1250.2	1244.7	1221.2	1204.3	1182.3	1147.1	1124.4
30.5°	1122.7	1151.8	1163.8	1188.2	1217.0	1210.2	1184.0	1167.0	1146.8	1113.8	1091.5
31°	1088.1	1116.0	1128.4	1153.1	1183.4	1176.2	1147.9	1129.7	1112.2	1081.4	1058.0
31.5°	1054.0	1078.2	1093.8	1117.7	1150.0	1141.5	1112.8	1092.3	1076.2	1049.0	1024.5
32°	1019.4	1041.7	1060.4	1081.9	1116.1	1106.2	1078.9	1056.4	1042.3	1016.9	990.4
32.5°	986.1	1004.3	1027.0	1046.6	1083.3	1071.2	1045.1	1021.3	1005.5	984.0	956.7
33°	952.5	970.1	995.0	1011.6	1050.4	1035.5	1013.3	986.8	969.6	952.1	922.5
33.5°	918.9	933.7	962.4	976.4	1017.0	1000.4	980.9	953.4	933.7	918.8	888.0
34°	885.7	900.7	930.1	943.3	982.9	966.1	949.0	920.6	899.2	885.8	855.7
34.5°	852.0	866.2	896.7	910.5	948.8	932.4	916.9	888.3	863.7	852.3	822.6
35°	812.7	833.2	863.6	878.5	914.9	899.3	884.6	856.9	830.0	818.1	791.9
35.5°	781.6	801.3	831.6	847.3	881.1	866.8	851.9	824.4	797.1	784.7	761.8
36°	750.5	769.5	800.0	817.5	846.5	835.0	819.6	791.8	765.6	751.9	732.4
36.5°	719.3	737.7	768.5	786.4	812.8	802.7	787.3	759.6	732.9	719.5	702.6
37°	688.2	705.9	737.0	755.3	779.0	771.4	755.2	727.8	701.8	688.0	674.3
37.5°	655.9	674.1	705.4	724.3	745.9	740.4	723.6	695.4	671.5	656.5	645.3
38°	624.3	645.2	673.9	693.2	713.6	709.9	694.0	664.6	641.6	626.8	616.7
38.5°	593.7	615.6	644.8	662.5	681.1	679.1	664.1	634.6	612.0	597.6	587.7
39°	564.4	587.6	616.8	633.0	649.9	650.2	635.9	605.3	583.5	569.1	559.9
39.5°	535.2	559.2	588.1	603.4	619.1	620.0	607.8	577.3	555.2	540.1	532.1
40°	507.0	532.2	560.2	574.2	589.0	591.3	580.1	550.5	527.3	512.1	504.9
40.5°	480.2	506.2	532.9	545.8	560.0	561.3	552.3	523.5	499.7	484.8	478.1
41°	454.0	480.0	505.6	518.2	531.1	533.2	525.0	497.7	472.9	458.3	452.4
41.5°	428.3	454.4	478.1	491.2	503.6	504.9	497.9	472.4	447.2	432.2	427.9
42°	404.2	430.6	452.5	465.3	476.7	478.0	471.0	448.2	422.3	406.6	404.1
42.5°	380.8	406.4	426.7	439.3	450.7	450.9	444.2	423.6	398.4	382.4	380.0
43°	358.0	382.8	401.8	413.0	425.1	425.1	418.4	400.2	375.4	359.0	356.9
43.5°	335.5	358.9	377.2	387.7	399.8	399.2	393.2	376.8	352.3	336.5	333.6
44°	314.8	336.5	354.7	362.9	375.2	375.1	369.1	354.4	331.1	315.2	312.2
44.5°	294.3	314.7	332.0	338.7	351.7	350.7	345.3	331.9	310.3	294.7	289.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	274.5	294.0	310.4	315.3	329.3	327.8	322.7	310.5	290.4	274.8	269.0
45.5°	255.6	273.4	289.6	292.2	306.6	304.6	300.8	289.7	271.1	255.8	248.6
46°	238.1	254.2	268.9	270.5	285.2	283.1	279.5	269.6	252.1	237.8	230.5
46.5°	220.7	235.0	248.7	249.4	264.0	261.5	259.3	249.8	234.6	222.2	214.1
47°	204.4	217.8	229.4	229.6	244.6	241.1	239.1	231.1	219.0	206.5	197.8
47.5°	188.6	200.3	210.5	210.4	226.7	223.4	221.5	214.5	203.4	190.8	181.5
48°	174.2	184.5	192.7	192.4	208.9	205.8	204.0	197.9	187.9	175.1	165.3
48.5°	159.9	168.5	175.4	175.4	191.0	188.1	186.5	181.4	172.3	159.5	152.0
49°	146.8	154.3	159.0	159.6	173.2	170.4	169.0	164.8	156.8	146.4	139.8
49.5°	134.3	140.5	143.4	144.7	155.4	152.8	151.5	148.4	143.5	133.9	128.7
50°	122.1	127.4	128.8	130.3	140.1	138.2	136.8	134.6	130.8	122.5	118.2
50.5°	110.5	114.5	115.4	116.8	125.5	124.2	123.0	121.4	118.8	111.6	108.3
51°	100.1	103.1	103.2	104.4	112.2	111.5	110.3	109.1	107.2	101.4	99.0
51.5°	89.9	92.2	91.6	92.7	99.7	99.4	98.6	97.5	96.6	91.9	90.4
52°	80.5	82.1	81.2	82.2	88.1	88.2	87.4	86.9	86.2	82.8	82.0
52.5°	72.3	73.8	73.0	73.7	77.4	77.8	77.1	76.7	76.4	74.2	73.7
53°	64.2	65.5	64.7	65.3	67.6	68.3	67.8	67.4	67.2	65.8	65.9
53.5°	56.0	57.2	56.5	56.9	58.6	59.2	59.0	58.7	58.9	58.0	58.4
54°	47.9	48.9	48.2	48.4	50.6	51.3	51.3	50.6	51.0	50.7	51.4
54.5°	41.4	40.6	40.0	40.0	43.6	44.3	44.3	43.5	44.0	44.0	44.8
55°	35.5	34.9	34.3	34.4	37.7	38.3	38.2	37.6	37.8	37.9	38.8
55.5°	30.3	29.5	29.0	28.9	32.2	32.8	32.8	32.1	32.3	32.6	33.4
56°	25.0	24.2	23.7	23.7	26.9	27.3	27.2	28.6	28.3	29.0	28.0
56.5°	20.3	19.5	19.2	19.2	23.8	24.1	24.1	25.1	24.4	25.3	24.6
57°	16.4	15.8	15.5	15.7	20.7	21.0	21.0	21.6	20.4	21.7	21.2
57.5°	13.6	13.1	12.9	13.2	17.5	17.9	17.9	18.1	16.5	18.0	17.9
58°	11.5	11.1	11.0	11.3	14.4	14.9	14.7	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	9.4	9.4	9.7
59.5°	8.0	7.7	7.7	7.9	8.9	9.2	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	7.6
60.5°	6.5	6.3	6.3	6.5	7.2	7.5	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	4.1	4.7	4.9	4.8	4.5	4.3	4.2	4.3
63.5°	3.7	3.6	3.7	3.8	4.3	4.5	4.4	4.1	3.9	3.9	4.0
64°	3.4	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	2.7
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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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	2.2	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	1.3	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	0.5	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°	0.4	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	0.1	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	0.1
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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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°	0.1	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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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	0.4	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	0.4	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	0.8
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°	0.6	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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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	1.2	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	1.1	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	0.6	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	1.1	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°	0.6	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	1.1	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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8
0.5°	2293.0	2291.4	2292.2	2293.0	2292.8	2293.2
1°	2292.4	2290.8	2291.6	2292.0	2291.8	2292.2
1.5°	2291.4	2289.8	2290.8	2290.6	2290.2	2291.0
2°	2290.2	2288.6	2289.0	2288.2	2288.0	2289.4
2.5°	2288.0	2287.2	2287.2	2285.8	2285.6	2287.4
3°	2286.0	2285.8	2285.2	2282.3	2281.5	2285.2
3.5°	2283.0	2283.4	2282.1	2278.3	2276.9	2281.5
4°	2279.5	2280.3	2278.7	2273.5	2271.9	2277.5
4.5°	2274.9	2276.9	2274.7	2268.3	2266.2	2272.5
5°	2270.1	2272.7	2270.3	2262.2	2259.8	2267.0
5.5°	2265.0	2268.1	2265.2	2256.2	2253.2	2260.8
6°	2259.2	2262.6	2259.8	2249.9	2245.9	2254.4
6.5°	2252.7	2256.8	2253.6	2243.5	2239.3	2246.9
7°	2245.9	2249.3	2246.9	2236.6	2231.6	2239.1
7.5°	2238.5	2241.5	2238.9	2229.8	2224.4	2230.4
8°	2230.0	2232.2	2230.2	2221.3	2216.3	2221.7
8.5°	2221.1	2221.7	2220.1	2213.1	2207.8	2211.7
9°	2210.5	2209.3	2208.9	2203.0	2198.4	2201.0
9.5°	2198.8	2195.6	2195.8	2192.1	2187.9	2189.1
10°	2185.1	2179.3	2180.7	2178.9	2176.4	2176.8
10.5°	2169.4	2161.3	2163.1	2164.8	2163.5	2163.1
11°	2151.9	2141.0	2143.8	2147.8	2148.8	2147.8
11.5°	2131.1	2118.2	2121.9	2128.7	2132.1	2131.1
12°	2109.2	2093.9	2098.5	2107.0	2112.6	2112.4
12.5°	2085.6	2069.7	2074.1	2084.6	2091.7	2093.1
13°	2061.7	2044.1	2048.8	2060.7	2070.5	2072.7
13.5°	2036.9	2019.4	2023.4	2036.1	2048.0	2051.6
14°	2011.6	1992.9	1997.7	2011.0	2024.2	2029.6
14.5°	1985.8	1967.0	1971.8	1986.2	2000.3	2007.6
15°	1960.0	1940.3	1945.3	1960.0	1975.9	1984.7
15.5°	1934.8	1914.8	1919.8	1935.6	1950.9	1961.2
16°	1909.9	1889.6	1895.1	1910.2	1926.0	1938.1
16.5°	1884.7	1865.4	1870.4	1885.8	1902.5	1914.8
17°	1860.5	1840.3	1845.3	1861.6	1877.8	1891.0
17.5°	1836.5	1815.7	1821.7	1837.0	1853.9	1866.7
18°	1812.5	1790.9	1796.9	1812.7	1829.1	1842.4
18.5°	1787.9	1766.5	1772.5	1788.9	1804.9	1818.3
19°	1764.7	1742.3	1749.1	1764.9	1780.3	1794.3
19.5°	1742.1	1717.5	1725.4	1741.4	1756.5	1770.5
20°	1719.5	1694.4	1702.5	1717.8	1732.0	1746.3
20.5°	1696.9	1670.2	1678.8	1694.9	1708.2	1722.4
21°	1674.2	1647.3	1655.4	1670.8	1684.0	1698.2
21.5°	1651.6	1623.3	1632.1	1647.1	1659.6	1674.3
22°	1628.3	1599.9	1608.7	1623.1	1635.8	1649.1

TEST NUMBER: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1604.3	1575.6	1584.1	1599.1	1610.3	1623.8
23°	1578.0	1549.6	1557.7	1573.1	1583.3	1596.4
23.5°	1549.7	1521.4	1530.1	1545.5	1556.3	1569.0
24°	1520.8	1491.1	1500.7	1516.1	1527.0	1540.1
24.5°	1491.0	1458.0	1470.1	1484.4	1496.2	1510.7
25°	1459.7	1426.7	1438.2	1451.8	1463.8	1480.2
25.5°	1426.9	1394.6	1405.8	1417.8	1431.5	1450.2
26°	1394.1	1362.9	1373.0	1382.9	1398.2	1419.6
26.5°	1360.0	1329.7	1339.6	1347.8	1364.0	1390.0
27°	1324.9	1298.5	1305.9	1312.1	1328.4	1358.0
27.5°	1289.4	1266.4	1270.9	1276.4	1293.6	1326.5
28°	1253.0	1233.4	1236.1	1241.3	1260.5	1293.9
28.5°	1217.1	1200.1	1201.8	1206.5	1227.4	1261.1
29°	1182.3	1166.4	1167.6	1172.6	1194.9	1226.7
29.5°	1148.0	1131.5	1133.2	1139.1	1162.9	1193.1
30°	1113.9	1096.2	1097.8	1106.3	1131.4	1157.3
30.5°	1079.6	1059.7	1062.7	1073.2	1099.0	1122.7
31°	1046.3	1024.8	1027.7	1040.0	1066.8	1088.1
31.5°	1012.8	988.9	993.1	1007.0	1033.9	1054.0
32°	980.0	954.1	959.1	973.6	999.9	1019.4
32.5°	947.3	919.9	925.4	940.4	966.2	986.1
33°	914.5	886.3	892.8	907.1	932.0	952.5
33.5°	881.4	851.9	860.8	873.0	897.4	918.9
34°	849.0	814.2	830.6	840.6	862.8	885.7
34.5°	816.6	783.8	799.2	809.8	829.5	852.0
35°	785.3	753.5	767.8	778.9	798.0	812.7
35.5°	753.7	723.2	736.3	748.1	766.6	781.6
36°	723.7	692.9	704.9	717.3	735.1	750.5
36.5°	693.3	663.6	673.5	686.4	703.6	719.3
37°	663.4	634.6	643.7	657.4	672.1	688.2
37.5°	634.0	606.4	614.3	628.7	642.9	655.9
38°	605.4	579.6	585.2	601.0	614.0	624.3
38.5°	577.6	553.0	557.1	572.8	584.7	593.7
39°	550.4	527.4	531.5	545.5	556.6	564.4
39.5°	523.5	501.3	505.5	517.8	528.3	535.2
40°	496.8	475.9	480.0	491.1	500.1	507.0
40.5°	471.5	451.9	455.5	464.5	472.0	480.2
41°	446.6	428.7	432.1	438.7	445.6	454.0
41.5°	422.6	406.1	409.0	414.0	419.0	428.3
42°	399.1	384.4	386.5	390.0	394.2	404.2
42.5°	375.9	363.6	364.8	365.7	369.6	380.8
43°	354.0	343.4	343.6	343.9	346.8	358.0
43.5°	332.8	323.6	323.2	321.3	324.2	335.5
44°	312.6	304.6	303.7	300.0	302.8	314.8
44.5°	293.1	286.1	285.0	279.0	281.8	294.3

TEST NUMBER: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	274.1	268.4	266.7	259.4	261.7	274.5
45.5°	256.0	251.3	249.5	240.3	242.8	255.6
46°	238.7	235.1	233.0	222.2	224.8	238.1
46.5°	222.4	219.2	217.1	205.1	207.4	220.7
47°	207.4	203.9	201.8	189.4	191.0	204.4
47.5°	192.5	189.3	187.0	174.7	176.0	188.6
48°	177.5	175.2	173.0	160.9	162.1	174.2
48.5°	162.6	162.1	159.7	148.3	149.1	159.9
49°	149.5	149.4	147.0	136.7	136.6	146.8
49.5°	137.0	137.2	135.0	126.0	125.9	134.3
50°	125.6	125.5	123.3	115.8	115.4	122.1
50.5°	114.6	114.4	112.5	106.1	105.6	110.5
51°	104.3	103.8	102.3	97.1	96.2	100.1
51.5°	94.6	93.7	92.6	88.4	87.6	89.9
52°	85.5	84.3	83.3	80.0	80.1	80.5
52.5°	76.6	76.3	75.6	72.5	72.3	72.3
53°	68.3	68.3	67.8	65.1	64.6	64.2
53.5°	60.6	60.3	60.1	57.6	56.9	56.0
54°	53.1	52.4	52.4	50.2	49.2	47.9
54.5°	46.2	44.4	44.6	43.8	42.6	41.4
55°	40.0	38.4	38.7	38.1	36.7	35.5
55.5°	34.6	33.1	33.4	32.7	31.7	30.3
56°	29.3	27.7	28.0	27.6	26.5	25.0
56.5°	25.8	22.7	23.2	22.6	21.6	20.3
57°	22.3	18.7	19.0	18.5	17.5	16.4
57.5°	18.8	15.6	15.9	15.5	14.6	13.6
58°	15.4	13.3	13.6	13.2	12.3	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°	8.1	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	6.9	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°	4.6	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	3.4
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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-ME-3000K

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	1.5	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	0.9
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	0.5	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	0.4
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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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	0.1
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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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	0.4	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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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°	1.2	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	0.6	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	0.6
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°	0.9	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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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: P1590463

CATALOG NUMBER: HCDLS1525CSD4TRC-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	6.2	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	6.8	6.4	7.2	7.6
	6H	4.9	5.7	5.3	6.0	6.4	5.9	6.7	6.3	7.0	7.4
	8H	4.8	5.6	5.3	5.9	6.4	5.8	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	6.1	6.5	5.9	6.8	6.3	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	5.8	6.3	5.8	6.4	6.2	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	5.6	6.1	6.1	6.6	7.0
	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	7.0
	6H	4.6	4.9	5.1	5.4	5.9	5.5	5.9	6.0	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)