

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: P1590485

Luminaire Tested: HCDLS1525CSD4TRMW-HI-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2603928A002)
Test Lab: INNOVATION CENTER
Issue Date: 9/4/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HCDLS1525CSD4TRMW-HI-4000K
Description: 4" Selectable Round Trim+Matte White (paintable) 2500 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

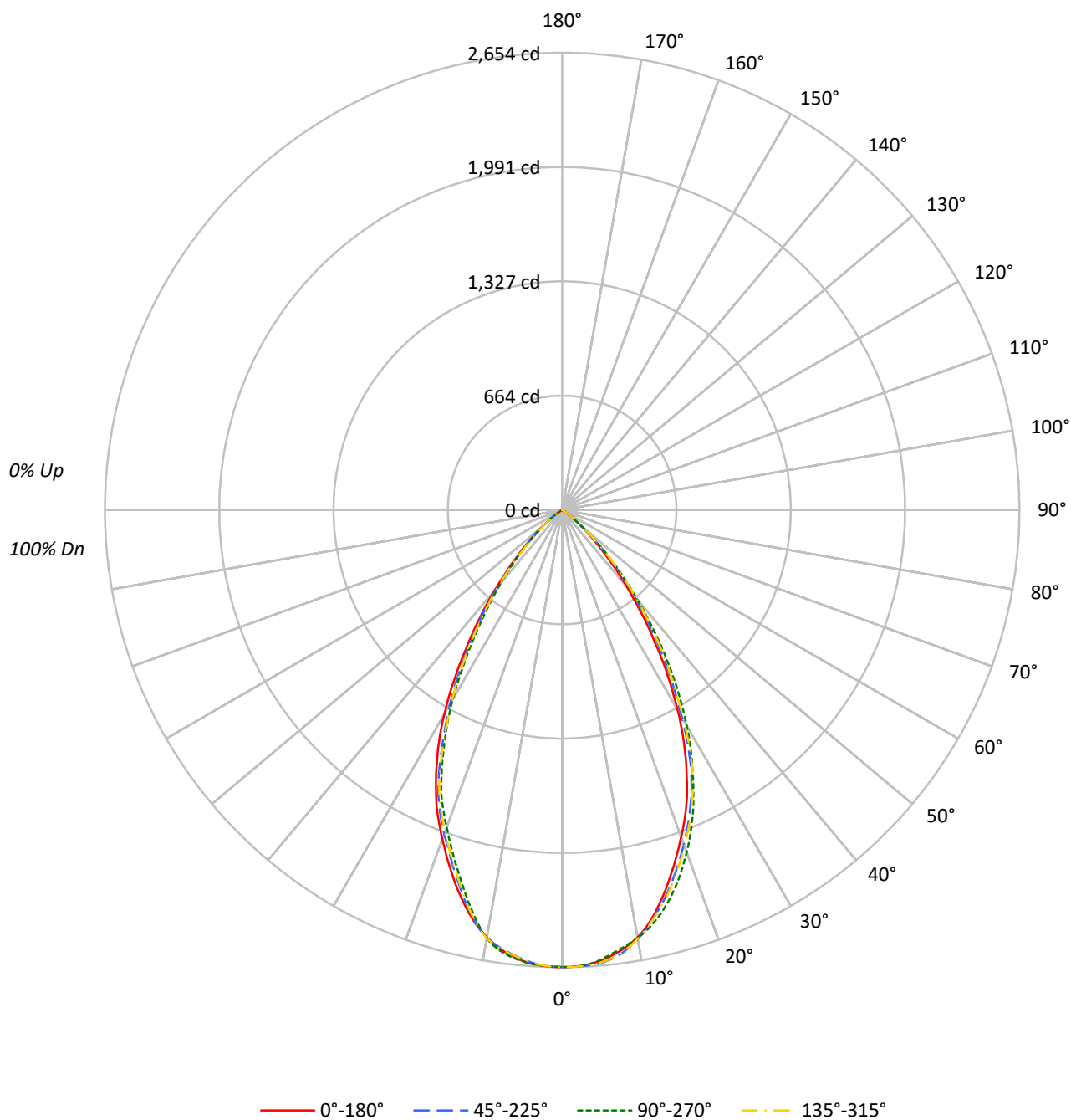
Lumens per Lamp: N/A
Luminaire Lumens: 2594.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			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°	327273	327273	327273	327273
5°	324833	324140	325205	325638
10°	315513	315914	315451	315864
15°	293281	301530	294303	286718
20°	265254	277448	266960	257365
25°	233120	245355	235910	224682
30°	190739	206050	194869	180683
35°	141618	159431	144629	131303
40°	94468	109749	98252	88688
45°	55419	66478	58611	54180
50°	27114	31106	29033	27882
55°	8838	9376	9419	9548
60°	2072	2294	2122	2368
65°	992	1167	1051	1197
70°	577	685	613	721
75°	334	429	381	429
80°	142	213	142	213
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 66478 cd/sqm

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	9.5
10°-20°	642.5	24.8
20°-30°	785.0	30.3
30°-40°	598.0	23.0
40°-50°	266.7	10.3
50°-60°	48.3	1.9
60°-70°	4.2	0.2
70°-80°	0.9	0.0
80°-90°	0.1	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°	0.3	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°	1674.9	64.6
0°-40°	2272.9	87.6
0°-60°	2587.9	99.7
0°-90°	2593.1	99.9
90°-120°	0.0	0.0
90°-150°	0.8	0.0
90°-180°	2.0	0.1
0°-180°	2594.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2653	2653	2653	2653	2653	
5°	2624	2618	2626	2630	2624	247
15°	2297	2361	2305	2245	2297	641
25°	1713	1803	1733	1651	1713	778
35°	940	1059	960	872	940	588
45°	318	381	336	311	318	253
55°	41	44	44	44	41	46
65°	3	4	4	4	3	4
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	1	1	0	0	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3
0.5°	2653.7	2652.8	2653.0	2653.7	2652.8	2653.0	2654.2	2653.7	2653.7	2652.8	2652.8
1°	2652.6	2652.6	2653.0	2653.7	2652.8	2653.0	2653.5	2653.5	2652.8	2651.9	2651.9
1.5°	2651.2	2651.6	2652.6	2652.8	2651.9	2652.6	2652.8	2652.6	2651.9	2650.5	2650.5
2°	2649.3	2650.2	2651.9	2651.6	2650.2	2650.9	2651.9	2651.6	2650.0	2647.9	2648.4
2.5°	2647.0	2649.3	2650.7	2649.5	2647.9	2648.6	2650.9	2650.2	2647.7	2645.1	2645.6
3°	2644.4	2647.9	2649.1	2646.8	2644.4	2645.8	2648.6	2648.6	2645.1	2641.2	2641.6
3.5°	2640.2	2646.3	2647.2	2643.3	2639.8	2642.1	2646.1	2646.3	2642.1	2636.3	2636.7
4°	2635.6	2644.0	2645.4	2638.6	2633.5	2637.0	2643.5	2644.0	2637.7	2630.2	2630.9
4.5°	2629.7	2640.7	2642.3	2632.8	2626.0	2630.7	2639.5	2640.7	2632.8	2623.2	2624.4
5°	2623.5	2636.7	2637.7	2625.5	2617.9	2623.0	2634.6	2637.0	2626.5	2615.5	2617.2
5.5°	2616.2	2631.4	2632.5	2618.1	2609.0	2615.1	2628.8	2631.8	2620.0	2607.1	2609.7
6°	2608.8	2624.8	2626.2	2609.5	2599.7	2606.2	2622.3	2625.8	2612.0	2598.5	2601.5
6.5°	2600.1	2617.4	2619.0	2600.8	2590.1	2597.1	2614.6	2618.6	2603.2	2589.7	2593.4
7°	2591.1	2608.3	2609.9	2591.5	2580.8	2587.8	2605.7	2609.9	2593.6	2580.1	2585.0
7.5°	2581.0	2598.1	2599.7	2581.5	2571.5	2577.8	2596.0	2599.9	2584.1	2570.6	2575.9
8°	2571.0	2586.9	2588.0	2570.6	2561.9	2567.5	2584.8	2588.0	2572.7	2560.8	2566.6
8.5°	2559.4	2574.1	2575.2	2559.1	2552.4	2557.5	2572.2	2575.7	2560.5	2549.8	2556.3
9°	2547.0	2559.8	2560.8	2547.3	2542.6	2546.1	2558.2	2561.2	2547.7	2538.6	2545.2
9.5°	2533.3	2544.2	2545.4	2534.4	2532.8	2534.2	2543.5	2545.4	2534.2	2526.3	2533.0
10°	2519.1	2527.7	2528.6	2520.7	2522.3	2521.4	2527.5	2528.6	2518.6	2513.2	2519.3
10.5°	2503.2	2509.7	2510.7	2506.0	2510.9	2508.3	2510.7	2510.2	2502.1	2497.6	2503.0
11°	2485.5	2490.9	2491.8	2490.4	2498.3	2493.9	2492.7	2491.8	2484.8	2481.3	2485.0
11.5°	2466.2	2470.4	2472.7	2474.1	2484.8	2479.0	2474.3	2472.2	2466.2	2463.1	2465.0
12°	2444.5	2449.2	2452.7	2455.9	2470.6	2462.9	2455.7	2452.0	2446.4	2441.9	2441.7
12.5°	2422.1	2427.3	2431.2	2438.4	2454.3	2445.2	2436.1	2431.0	2424.0	2419.1	2415.6
13°	2398.6	2405.1	2410.2	2419.3	2438.0	2427.7	2415.8	2408.6	2402.8	2395.3	2390.2
13.5°	2374.1	2381.6	2388.6	2400.2	2420.0	2409.8	2395.1	2386.9	2379.3	2370.2	2363.4
14°	2348.7	2357.6	2366.7	2379.5	2400.9	2390.0	2373.9	2363.6	2355.5	2344.3	2335.5
14.5°	2323.2	2333.4	2344.3	2359.0	2381.4	2369.9	2351.5	2340.6	2329.9	2317.5	2307.3
15°	2296.7	2308.7	2320.8	2337.3	2361.3	2348.5	2330.1	2316.9	2304.7	2290.3	2278.2
15.5°	2269.6	2283.3	2297.4	2314.7	2340.3	2326.9	2306.6	2292.5	2279.0	2263.0	2249.0
16°	2242.7	2257.3	2273.0	2290.5	2317.9	2304.0	2283.0	2267.2	2252.5	2234.4	2220.3
16.5°	2215.8	2231.8	2248.4	2267.2	2295.1	2280.5	2258.0	2241.5	2225.6	2206.4	2192.0
17°	2188.3	2205.8	2223.3	2242.8	2271.5	2256.3	2233.0	2215.5	2198.3	2178.4	2163.6
17.5°	2160.2	2179.2	2197.1	2217.7	2247.1	2231.5	2207.8	2188.4	2170.8	2150.4	2135.3
18°	2132.0	2152.0	2170.7	2191.5	2221.1	2206.5	2181.4	2161.8	2143.8	2122.6	2107.3
18.5°	2104.2	2124.5	2144.4	2165.3	2195.3	2180.2	2155.2	2135.5	2116.3	2094.7	2079.8
19°	2076.4	2097.0	2118.4	2138.9	2168.2	2153.7	2129.3	2108.6	2087.9	2067.5	2052.2
19.5°	2048.8	2069.8	2091.9	2112.0	2141.8	2127.0	2103.1	2081.0	2060.7	2040.5	2027.5
20°	2020.8	2042.0	2065.1	2084.9	2113.7	2100.5	2077.0	2054.8	2033.8	2013.5	2001.0
20.5°	1993.1	2015.1	2038.1	2057.8	2086.2	2073.4	2049.9	2028.9	2005.7	1986.4	1974.5
21°	1965.2	1986.9	2010.6	2029.6	2058.0	2045.0	2023.2	2001.9	1977.6	1959.4	1948.0
21.5°	1937.5	1959.2	1983.6	2001.3	2027.9	2015.8	1996.4	1974.9	1949.4	1932.3	1921.5
22°	1908.3	1930.4	1955.1	1971.5	1997.8	1986.5	1969.6	1947.9	1921.3	1905.3	1892.3

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1879.1	1902.5	1926.8	1942.9	1967.6	1957.2	1942.9	1920.8	1895.5	1875.3	1863.4
23°	1847.3	1872.3	1898.1	1910.9	1937.5	1927.9	1916.1	1891.0	1864.9	1843.5	1833.3
23.5°	1815.7	1842.6	1868.9	1880.9	1907.4	1898.6	1885.7	1861.5	1833.2	1811.4	1801.2
24°	1782.2	1811.5	1838.2	1847.5	1872.3	1865.8	1856.0	1831.2	1800.3	1778.7	1766.6
24.5°	1748.2	1779.2	1808.4	1815.5	1838.3	1833.0	1825.4	1799.7	1767.1	1743.8	1730.5
25°	1712.9	1745.8	1776.6	1780.7	1802.8	1799.2	1793.8	1768.0	1733.4	1708.4	1693.1
25.5°	1678.1	1712.5	1744.3	1747.7	1768.4	1765.2	1761.2	1735.6	1699.3	1671.9	1654.0
26°	1642.8	1677.6	1710.5	1712.7	1733.6	1730.7	1728.1	1702.0	1665.0	1635.3	1612.8
26.5°	1608.5	1642.6	1676.1	1677.4	1698.4	1695.6	1693.2	1666.5	1629.4	1597.7	1571.6
27°	1571.5	1606.7	1638.6	1642.0	1662.9	1659.8	1657.2	1630.8	1594.2	1559.5	1531.0
27.5°	1535.1	1570.7	1599.8	1605.8	1628.7	1624.8	1620.2	1594.3	1559.0	1520.2	1491.7
28°	1497.3	1534.0	1559.6	1569.2	1593.5	1589.3	1580.3	1556.6	1522.2	1481.6	1452.6
28.5°	1459.4	1494.4	1517.8	1531.3	1558.0	1552.3	1540.7	1517.9	1484.9	1442.2	1413.4
29°	1419.6	1456.6	1475.5	1493.6	1522.1	1516.1	1499.4	1477.8	1446.7	1403.7	1376.2
29.5°	1380.6	1417.0	1431.7	1455.6	1485.3	1478.5	1457.2	1436.3	1407.7	1365.7	1338.7
30°	1339.2	1375.8	1389.0	1416.1	1446.7	1440.3	1413.2	1393.6	1368.2	1327.4	1301.1
30.5°	1299.2	1332.9	1346.8	1375.0	1408.4	1400.5	1370.1	1350.4	1327.1	1288.9	1263.1
31°	1259.2	1291.5	1305.8	1334.4	1369.5	1361.1	1328.4	1307.3	1287.0	1251.4	1224.3
31.5°	1219.7	1247.7	1265.8	1293.4	1330.8	1320.9	1287.7	1264.0	1245.4	1213.9	1185.5
32°	1179.6	1205.4	1227.1	1251.9	1291.5	1280.1	1248.5	1222.4	1206.1	1176.7	1146.1
32.5°	1141.1	1162.2	1188.5	1211.1	1253.6	1239.6	1209.4	1181.9	1163.5	1138.7	1107.1
33°	1102.3	1122.6	1151.4	1170.6	1215.5	1198.3	1172.6	1142.0	1122.0	1101.8	1067.5
33.5°	1063.3	1080.5	1113.6	1130.0	1176.8	1157.6	1135.1	1103.3	1080.4	1063.3	1027.6
34°	1024.9	1042.3	1076.4	1091.6	1137.4	1118.0	1098.1	1065.3	1040.6	1025.1	990.2
34.5°	985.9	1002.4	1037.7	1053.6	1098.0	1079.0	1061.0	1027.9	999.5	986.3	951.9
35°	940.5	964.1	999.4	1016.6	1058.8	1040.7	1023.7	991.6	960.5	946.7	916.4
35.5°	904.5	927.3	962.3	980.5	1019.6	1003.1	985.9	954.0	922.4	908.0	881.6
36°	868.4	890.5	925.8	946.0	979.6	966.2	948.4	916.3	885.9	870.1	847.5
36.5°	832.4	853.7	889.3	910.0	940.5	928.8	911.0	879.0	848.1	832.6	813.1
37°	796.4	816.9	852.8	874.1	901.5	892.7	874.0	842.2	812.1	796.1	780.3
37.5°	759.1	780.1	816.3	838.2	863.2	856.8	837.4	804.7	777.0	759.7	746.7
38°	722.5	746.7	779.8	802.2	825.8	821.5	803.1	769.0	742.5	725.3	713.7
38.5°	687.0	712.4	746.2	766.7	788.2	785.8	768.5	734.3	708.2	691.5	680.1
39°	653.1	680.0	713.8	732.5	752.0	752.5	735.9	700.4	675.2	658.6	648.0
39.5°	619.4	647.1	680.5	698.2	716.5	717.4	703.4	668.0	642.5	625.0	615.7
40°	586.7	615.9	648.2	664.5	681.6	684.3	671.3	637.0	610.2	592.6	584.3
40.5°	555.7	585.8	616.7	631.6	648.0	649.5	639.1	605.8	578.2	561.0	553.2
41°	525.4	555.4	585.1	599.7	614.6	617.1	607.5	575.9	547.3	530.3	523.6
41.5°	495.6	525.8	553.2	568.4	582.8	584.3	576.2	546.7	517.6	500.2	495.1
42°	467.7	498.3	523.7	538.4	551.6	553.2	545.0	518.7	488.7	470.5	467.6
42.5°	440.6	470.3	493.8	508.4	521.5	521.8	514.1	490.3	461.0	442.5	439.8
43°	414.2	442.9	465.0	477.9	491.9	491.9	484.2	463.1	434.4	415.5	413.0
43.5°	388.3	415.4	436.5	448.7	462.7	461.9	455.0	436.0	407.7	389.4	386.0
44°	364.2	389.4	410.5	419.9	434.2	434.1	427.1	410.1	383.2	364.8	361.3
44.5°	340.5	364.2	384.2	392.0	407.0	405.9	399.5	384.0	359.0	341.0	335.5

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	317.7	340.2	359.2	364.9	381.1	379.3	373.4	359.4	336.0	318.0	311.3
45.5°	295.7	316.4	335.1	338.1	354.8	352.5	348.1	335.3	313.7	296.0	287.7
46°	275.6	294.1	311.2	313.0	330.1	327.6	323.5	312.0	291.8	275.2	266.7
46.5°	255.4	271.9	287.8	288.7	305.5	302.6	300.1	289.0	271.5	257.1	247.8
47°	236.6	252.1	265.4	265.7	283.0	279.0	276.7	267.4	253.4	239.0	228.9
47.5°	218.2	231.8	243.6	243.4	262.3	258.6	256.3	248.2	235.4	220.8	210.1
48°	201.6	213.5	222.9	222.6	241.7	238.1	236.1	229.1	217.4	202.7	191.2
48.5°	185.0	195.0	203.0	203.0	221.0	217.7	215.8	209.9	199.4	184.6	175.8
49°	169.8	178.5	184.0	184.7	200.4	197.2	195.6	190.8	181.5	169.4	161.8
49.5°	155.4	162.6	165.9	167.4	179.9	176.8	175.3	171.8	166.0	155.0	148.9
50°	141.3	147.5	149.1	150.8	162.1	159.9	158.3	155.8	151.3	141.7	136.8
50.5°	127.9	132.5	133.5	135.2	145.2	143.7	142.3	140.5	137.5	129.1	125.4
51°	115.8	119.3	119.4	120.8	129.9	129.1	127.6	126.2	124.1	117.4	114.6
51.5°	104.0	106.6	106.0	107.3	115.3	115.1	114.0	112.9	111.7	106.4	104.6
52°	93.1	95.0	94.0	95.1	102.0	102.1	101.2	100.5	99.7	95.8	94.8
52.5°	83.7	85.4	84.4	85.3	89.5	90.0	89.3	88.8	88.5	85.8	85.3
53°	74.3	75.8	74.9	75.6	78.3	79.0	78.4	77.9	77.8	76.2	76.2
53.5°	64.8	66.2	65.4	65.8	67.8	68.5	68.3	67.9	68.2	67.1	67.6
54°	55.5	56.6	55.8	56.0	58.5	59.4	59.3	58.5	59.0	58.7	59.4
54.5°	47.9	47.0	46.3	46.3	50.5	51.3	51.2	50.4	50.9	51.0	51.9
55°	41.1	40.3	39.7	39.8	43.6	44.4	44.3	43.5	43.8	43.9	44.9
55.5°	35.1	34.1	33.6	33.5	37.3	38.0	37.9	37.2	37.4	37.7	38.6
56°	29.0	28.0	27.4	27.4	31.1	31.5	31.5	33.1	32.8	33.5	32.4
56.5°	23.5	22.6	22.2	22.2	27.5	27.9	27.9	29.1	28.2	29.3	28.4
57°	19.0	18.3	17.9	18.2	23.9	24.3	24.3	25.0	23.6	25.1	24.6
57.5°	15.7	15.2	14.9	15.3	20.3	20.8	20.7	21.0	19.1	20.9	20.7
58°	13.3	12.9	12.7	13.1	16.7	17.2	17.1	16.9	14.5	16.7	16.9
58.5°	11.5	11.1	11.0	11.3	13.1	13.6	13.5	12.9	12.5	12.5	13.1
59°	10.1	9.7	9.7	10.0	11.5	12.0	11.8	11.3	10.9	10.9	11.3
59.5°	9.2	8.9	8.9	9.2	10.3	10.7	10.5	10.0	9.7	9.6	9.9
60°	8.4	8.1	8.1	8.4	9.3	9.6	9.5	9.0	8.6	8.6	8.8
60.5°	7.5	7.3	7.3	7.6	8.4	8.7	8.6	8.1	7.8	7.7	7.9
61°	6.7	6.5	6.5	6.8	7.6	7.9	7.8	7.3	7.0	7.0	7.2
61.5°	6.1	5.9	5.9	6.2	6.9	7.2	7.1	6.7	6.4	6.3	6.5
62°	5.6	5.4	5.4	5.7	6.4	6.6	6.5	6.1	5.9	5.8	6.0
62.5°	5.1	5.0	5.0	5.2	5.9	6.1	6.0	5.6	5.4	5.3	5.5
63°	4.7	4.6	4.6	4.8	5.4	5.6	5.5	5.2	4.9	4.9	5.0
63.5°	4.3	4.2	4.2	4.4	5.0	5.2	5.1	4.8	4.6	4.5	4.6
64°	4.0	3.9	3.9	4.1	4.6	4.8	4.7	4.4	4.2	4.2	4.3
64.5°	3.7	3.6	3.6	3.8	4.3	4.5	4.4	4.1	3.9	3.9	4.0
65°	3.4	3.3	3.4	3.5	4.0	4.2	4.1	3.8	3.6	3.6	3.7
65.5°	3.2	3.1	3.1	3.3	3.7	3.9	3.8	3.5	3.4	3.3	3.4
66°	2.9	2.9	2.9	3.0	3.4	3.6	3.5	3.3	3.1	3.1	3.2
66.5°	2.7	2.7	2.7	2.8	3.2	3.4	3.3	3.0	2.9	2.9	3.0
67°	2.5	2.5	2.5	2.6	3.0	3.1	3.0	2.8	2.7	2.7	2.8

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.3	2.3	2.3	2.5	2.8	2.9	2.8	2.6	2.5	2.5	2.6
68°	2.2	2.1	2.2	2.3	2.6	2.7	2.6	2.4	2.3	2.3	2.4
68.5°	2.0	2.0	2.0	2.1	2.4	2.5	2.5	2.3	2.2	2.2	2.2
69°	1.9	1.8	1.9	2.0	2.2	2.4	2.3	2.1	2.0	2.0	2.1
69.5°	1.7	1.7	1.7	1.8	2.1	2.2	2.1	2.0	1.9	1.9	1.9
70°	1.6	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.7	1.7	1.8
70.5°	1.5	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.7
71°	1.4	1.3	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.5
71.5°	1.3	1.2	1.3	1.4	1.6	1.6	1.6	1.5	1.4	1.4	1.4
72°	1.2	1.1	1.2	1.3	1.4	1.5	1.5	1.3	1.3	1.3	1.3
72.5°	1.1	1.0	1.1	1.2	1.3	1.4	1.4	1.2	1.2	1.2	1.2
73°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.1	1.1	1.1	1.1
73.5°	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.1	1.0	1.0	1.0
74°	0.8	0.8	0.8	0.9	1.1	1.1	1.1	1.0	0.9	0.9	1.0
74.5°	0.8	0.7	0.7	0.8	1.0	1.0	1.0	0.9	0.8	0.8	0.9
75°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.8	0.8	0.8	0.8
75.5°	0.6	0.6	0.6	0.7	0.8	0.9	0.8	0.7	0.7	0.7	0.7
76°	0.6	0.5	0.6	0.6	0.7	0.8	0.8	0.7	0.6	0.6	0.7
76.5°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
77°	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5
77.5°	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.5
78°	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
78.5°	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4
79°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
79.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3
80.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
81°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2	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	0.1	0.0	0.1
83.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-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: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-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	0.1	0.1	0.1	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	0.1	0.1
123.5°	0.1	0.1	0.1	0.1	0.0	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	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°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
128°	0.2	0.2	0.2	0.2	0.2	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	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	0.3	0.3
131°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
131.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
132°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
132.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
133°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
133.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
134°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
134.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-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	0.4	0.4	0.4	0.4	0.4	0.4	0.4
135.5°	0.3	0.3	0.3	0.3	0.4	0.4	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	0.5
136.5°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5
137°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
137.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
138°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
138.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
139°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6
139.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
140°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
140.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
141°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.7
141.5°	0.5	0.4	0.4	0.4	0.6	0.6	0.7	0.7	0.7	0.7	0.7
142°	0.5	0.5	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
142.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
143°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
143.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8
144°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
144.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.9	0.9
146°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.9	0.9	0.9	0.9
146.5°	0.6	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
147°	0.6	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
147.5°	0.6	0.6	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
148°	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.9	1.0	1.0	1.0
148.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
149°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
149.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.1	1.1	1.1
151°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
151.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152.5°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
153°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.2	1.2
153.5°	0.7	0.7	0.6	0.6	1.1	1.2	1.2	1.2	1.2	1.2	1.2
154°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
154.5°	0.7	0.7	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
155°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
155.5°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
156°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.3	1.3	1.3
156.5°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.3	1.3	1.3	1.3
157°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
158°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
158.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
159°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
159.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.4	1.4	1.4
160°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.4	1.4	1.4	1.4
160.5°	0.8	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
161°	0.8	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
161.5°	0.8	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
162°	0.8	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
162.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
163°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
163.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
164°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
164.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
165°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
165.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
166°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
166.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
167°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
167.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
168°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
168.5°	0.8	0.8	0.7	0.7	1.3	1.4	1.4	1.4	1.4	1.4	1.4
169°	0.8	0.8	0.7	0.7	1.3	1.3	1.4	1.4	1.4	1.4	1.4
169.5°	0.8	0.7	0.7	0.7	1.3	1.3	1.4	1.4	1.4	1.3	1.3
170°	0.8	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
170.5°	0.8	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
171°	0.8	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
171.5°	0.8	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
172°	0.8	0.7	0.7	0.7	1.2	1.3	1.3	1.3	1.3	1.3	1.3
172.5°	0.8	0.7	0.7	0.7	1.2	1.2	1.3	1.3	1.3	1.3	1.2
173°	0.7	0.7	0.7	0.7	1.2	1.2	1.3	1.3	1.2	1.2	1.2
173.5°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
174°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
174.5°	0.8	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
175°	0.8	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
175.5°	0.8	0.8	0.7	0.7	1.1	1.1	1.2	1.2	1.2	1.2	1.2
176°	0.8	0.8	0.8	0.8	1.1	1.1	1.2	1.2	1.2	1.1	1.1
176.5°	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177°	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177.5°	0.9	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
178°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
178.5°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.0
179°	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.0	1.0
179.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3
0.5°	2653.5	2651.6	2652.6	2653.5	2653.3	2653.7
1°	2652.8	2650.9	2651.9	2652.3	2652.1	2652.6
1.5°	2651.6	2649.8	2650.9	2650.7	2650.2	2651.2
2°	2650.2	2648.4	2648.8	2647.9	2647.7	2649.3
2.5°	2647.7	2646.8	2646.8	2645.1	2644.9	2647.0
3°	2645.4	2645.1	2644.4	2641.2	2640.2	2644.4
3.5°	2641.9	2642.3	2640.9	2636.5	2634.9	2640.2
4°	2637.9	2638.8	2637.0	2630.9	2629.0	2635.6
4.5°	2632.5	2634.9	2632.3	2624.8	2622.5	2629.7
5°	2626.9	2630.0	2627.2	2617.9	2615.1	2623.5
5.5°	2621.1	2624.6	2621.4	2610.9	2607.4	2616.2
6°	2614.4	2618.3	2615.1	2603.6	2599.0	2608.8
6.5°	2606.9	2611.6	2607.8	2596.2	2591.3	2600.1
7°	2599.0	2602.9	2600.1	2588.3	2582.4	2591.1
7.5°	2590.4	2593.9	2590.8	2580.3	2574.1	2581.0
8°	2580.6	2583.1	2580.8	2570.6	2564.7	2571.0
8.5°	2570.3	2571.0	2569.2	2561.0	2554.9	2559.4
9°	2558.0	2556.6	2556.1	2549.4	2544.0	2547.0
9.5°	2544.5	2540.7	2541.0	2536.8	2531.9	2533.3
10°	2528.6	2521.9	2523.5	2521.4	2518.6	2519.1
10.5°	2510.4	2501.1	2503.2	2505.1	2503.7	2503.2
11°	2490.2	2477.6	2480.8	2485.5	2486.7	2485.5
11.5°	2466.2	2451.3	2455.5	2463.4	2467.3	2466.2
12°	2440.8	2423.1	2428.4	2438.2	2444.7	2444.5
12.5°	2413.5	2395.1	2400.2	2412.3	2420.5	2422.1
13°	2385.8	2365.5	2370.9	2384.6	2396.0	2398.6
13.5°	2357.1	2336.8	2341.5	2356.2	2369.9	2374.1
14°	2327.9	2306.2	2311.7	2327.1	2342.4	2348.7
14.5°	2298.0	2276.2	2281.7	2298.4	2314.7	2323.2
15°	2268.1	2245.3	2251.1	2268.2	2286.5	2296.7
15.5°	2239.0	2215.8	2221.6	2239.9	2257.6	2269.6
16°	2210.1	2186.6	2193.0	2210.5	2228.8	2242.7
16.5°	2181.0	2158.7	2164.4	2182.3	2201.5	2215.8
17°	2152.9	2129.6	2135.5	2154.3	2173.0	2188.3
17.5°	2125.2	2101.1	2108.1	2125.8	2145.4	2160.2
18°	2097.5	2072.5	2079.4	2097.7	2116.6	2132.0
18.5°	2069.0	2044.2	2051.1	2070.2	2088.6	2104.2
19°	2042.2	2016.2	2024.1	2042.3	2060.1	2076.4
19.5°	2016.0	1987.5	1996.6	2015.2	2032.6	2048.8
20°	1989.8	1960.7	1970.2	1987.8	2004.3	2020.8
20.5°	1963.6	1932.8	1942.7	1961.4	1976.8	1993.1
21°	1937.4	1906.2	1915.7	1933.4	1948.8	1965.2
21.5°	1911.2	1878.5	1888.7	1906.1	1920.5	1937.5
22°	1884.3	1851.4	1861.7	1878.3	1892.9	1908.3

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1856.5	1823.3	1833.2	1850.5	1863.4	1879.1
23°	1826.1	1793.2	1802.6	1820.4	1832.3	1847.3
23.5°	1793.3	1760.6	1770.6	1788.5	1801.0	1815.7
24°	1759.9	1725.6	1736.6	1754.4	1767.1	1782.2
24.5°	1725.4	1687.2	1701.3	1717.8	1731.4	1748.2
25°	1689.2	1650.9	1664.3	1680.1	1693.9	1712.9
25.5°	1651.2	1613.8	1626.8	1640.7	1656.6	1678.1
26°	1613.2	1577.1	1588.8	1600.3	1618.0	1642.8
26.5°	1573.8	1538.8	1550.2	1559.6	1578.5	1608.5
27°	1533.2	1502.6	1511.2	1518.4	1537.2	1571.5
27.5°	1492.1	1465.5	1470.7	1477.1	1496.9	1535.1
28°	1450.0	1427.3	1430.4	1436.5	1458.6	1497.3
28.5°	1408.4	1388.8	1390.8	1396.2	1420.3	1459.4
29°	1368.2	1349.8	1351.1	1357.0	1382.7	1419.6
29.5°	1328.5	1309.4	1311.3	1318.2	1345.7	1380.6
30°	1289.0	1268.6	1270.4	1280.2	1309.3	1339.2
30.5°	1249.3	1226.3	1229.8	1241.9	1271.8	1299.2
31°	1210.8	1185.9	1189.2	1203.5	1234.5	1259.2
31.5°	1172.0	1144.4	1149.3	1165.3	1196.4	1219.7
32°	1134.1	1104.1	1109.9	1126.7	1157.1	1179.6
32.5°	1096.3	1064.5	1070.9	1088.3	1118.0	1141.1
33°	1058.3	1025.6	1033.1	1049.7	1078.5	1102.3
33.5°	1020.0	985.9	996.1	1010.3	1038.5	1063.3
34°	982.4	942.2	961.2	972.8	998.4	1024.9
34.5°	944.9	907.1	924.8	937.1	960.0	985.9
35°	908.7	872.0	888.5	901.4	923.5	940.5
35.5°	872.2	836.9	852.1	865.7	887.1	904.5
36°	837.5	801.9	815.7	830.0	850.6	868.4
36.5°	802.3	767.9	779.4	794.3	814.2	832.4
37°	767.7	734.4	744.9	760.8	777.8	796.4
37.5°	733.7	701.8	710.8	727.5	744.0	759.1
38°	700.6	670.7	677.2	695.5	710.5	722.5
38.5°	668.4	639.9	644.6	662.9	676.7	687.0
39°	637.0	610.3	615.1	631.3	644.2	653.1
39.5°	605.8	580.1	584.9	599.2	611.3	619.4
40°	574.9	550.8	555.5	568.3	578.7	586.7
40.5°	545.6	523.0	527.1	537.5	546.2	555.7
41°	516.8	496.1	500.0	507.7	515.6	525.4
41.5°	489.0	470.0	473.3	479.1	484.9	495.6
42°	461.8	444.9	447.3	451.3	456.1	467.7
42.5°	435.1	420.7	422.1	423.2	427.7	440.6
43°	409.7	397.4	397.6	398.0	401.3	414.2
43.5°	385.1	374.5	374.0	371.8	375.2	388.3
44°	361.8	352.5	351.4	347.2	350.4	364.2
44.5°	339.1	331.1	329.8	322.9	326.0	340.5

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	317.2	310.6	308.6	300.2	302.8	317.7
45.5°	296.3	290.8	288.8	278.0	281.0	295.7
46°	276.2	272.1	269.7	257.1	260.2	275.6
46.5°	257.3	253.7	251.2	237.3	240.0	255.4
47°	240.0	236.0	233.5	219.2	221.1	236.6
47.5°	222.7	219.1	216.4	202.1	203.7	218.2
48°	205.4	202.8	200.2	186.2	187.6	201.6
48.5°	188.2	187.6	184.8	171.6	172.6	185.0
49°	173.0	172.9	170.2	158.2	158.1	169.8
49.5°	158.5	158.7	156.2	145.8	145.7	155.4
50°	145.4	145.3	142.6	134.0	133.5	141.3
50.5°	132.6	132.3	130.1	122.8	122.3	127.9
51°	120.7	120.1	118.3	112.3	111.3	115.8
51.5°	109.5	108.4	107.1	102.3	101.4	104.0
52°	98.9	97.5	96.4	92.6	92.7	93.1
52.5°	88.7	88.3	87.4	83.9	83.7	83.7
53°	79.0	79.0	78.5	75.3	74.8	74.3
53.5°	70.2	69.8	69.6	66.7	65.8	64.8
54°	61.5	60.6	60.6	58.1	56.9	55.5
54.5°	53.4	51.4	51.7	50.7	49.3	47.9
55°	46.3	44.4	44.7	44.1	42.5	41.1
55.5°	40.1	38.2	38.6	37.9	36.7	35.1
56°	33.9	32.0	32.5	31.9	30.7	29.0
56.5°	29.8	26.3	26.9	26.2	25.0	23.5
57°	25.8	21.6	22.0	21.4	20.3	19.0
57.5°	21.8	18.1	18.4	17.9	16.8	15.7
58°	17.8	15.4	15.8	15.2	14.3	13.3
58.5°	13.8	13.3	13.7	13.2	12.3	11.5
59°	11.9	11.7	12.1	11.6	10.8	10.1
59.5°	10.6	10.4	10.7	10.3	9.5	9.2
60°	9.4	9.6	9.6	9.6	8.8	8.4
60.5°	8.5	8.9	8.9	8.8	8.0	7.5
61°	7.7	8.1	8.2	8.0	7.3	6.7
61.5°	7.0	7.4	7.5	7.3	6.5	6.1
62°	6.4	6.6	6.8	6.5	6.0	5.6
62.5°	5.8	6.1	6.3	6.0	5.5	5.1
63°	5.4	5.6	5.8	5.5	5.0	4.7
63.5°	5.0	5.2	5.4	5.1	4.7	4.3
64°	4.6	4.8	5.0	4.7	4.3	4.0
64.5°	4.3	4.4	4.6	4.4	4.0	3.7
65°	3.9	4.1	4.3	4.1	3.7	3.4
65.5°	3.7	3.8	4.0	3.8	3.4	3.2
66°	3.4	3.6	3.7	3.5	3.1	2.9
66.5°	3.2	3.3	3.4	3.2	2.9	2.7
67°	2.9	3.1	3.2	3.0	2.7	2.5

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.7	2.9	3.0	2.8	2.5	2.3
68°	2.5	2.7	2.8	2.6	2.3	2.2
68.5°	2.4	2.5	2.6	2.4	2.2	2.0
69°	2.2	2.3	2.4	2.3	2.0	1.9
69.5°	2.0	2.1	2.2	2.1	1.9	1.7
70°	1.9	2.0	2.1	1.9	1.7	1.6
70.5°	1.8	1.8	1.9	1.8	1.6	1.5
71°	1.6	1.7	1.8	1.7	1.5	1.4
71.5°	1.5	1.6	1.7	1.6	1.4	1.3
72°	1.4	1.5	1.5	1.4	1.3	1.2
72.5°	1.3	1.4	1.4	1.3	1.2	1.1
73°	1.2	1.3	1.3	1.2	1.1	1.0
73.5°	1.1	1.2	1.2	1.1	1.0	0.9
74°	1.0	1.1	1.1	1.0	0.9	0.8
74.5°	0.9	1.0	1.0	1.0	0.8	0.8
75°	0.9	0.9	1.0	0.9	0.8	0.7
75.5°	0.8	0.8	0.9	0.8	0.7	0.6
76°	0.7	0.8	0.8	0.7	0.6	0.6
76.5°	0.7	0.7	0.7	0.7	0.6	0.5
77°	0.6	0.6	0.7	0.6	0.5	0.5
77.5°	0.5	0.6	0.6	0.5	0.5	0.4
78°	0.5	0.5	0.5	0.5	0.4	0.4
78.5°	0.4	0.5	0.5	0.4	0.4	0.3
79°	0.4	0.4	0.4	0.4	0.3	0.3
79.5°	0.3	0.4	0.4	0.3	0.3	0.2
80°	0.3	0.3	0.3	0.3	0.2	0.2
80.5°	0.2	0.3	0.3	0.3	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.1
81.5°	0.2	0.2	0.2	0.2	0.1	0.1
82°	0.1	0.2	0.2	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: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-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: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-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	0.1	0.1	0.0	0.0	0.0
120.5°	0.0	0.1	0.1	0.1	0.1	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	0.2	0.2	0.2	0.1	0.1
126.5°	0.2	0.2	0.2	0.2	0.2	0.2
127°	0.2	0.2	0.2	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.3	0.2	0.2	0.2	0.2	0.2
130.5°	0.3	0.2	0.2	0.2	0.2	0.2
131°	0.3	0.3	0.3	0.2	0.2	0.2
131.5°	0.3	0.3	0.3	0.3	0.3	0.2
132°	0.3	0.3	0.3	0.3	0.3	0.3
132.5°	0.3	0.3	0.3	0.3	0.3	0.3
133°	0.3	0.3	0.3	0.3	0.3	0.3
133.5°	0.4	0.3	0.3	0.3	0.3	0.3
134°	0.4	0.3	0.3	0.3	0.3	0.3
134.5°	0.4	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-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°	0.5	0.4	0.4	0.4	0.3	0.3
136.5°	0.5	0.4	0.4	0.4	0.4	0.4
137°	0.5	0.4	0.4	0.4	0.4	0.4
137.5°	0.5	0.4	0.4	0.4	0.4	0.4
138°	0.5	0.4	0.4	0.4	0.4	0.4
138.5°	0.6	0.4	0.4	0.4	0.4	0.4
139°	0.6	0.4	0.4	0.4	0.4	0.4
139.5°	0.6	0.4	0.4	0.4	0.4	0.4
140°	0.6	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°	0.7	0.5	0.5	0.5	0.4	0.4
141.5°	0.7	0.5	0.5	0.5	0.5	0.5
142°	0.7	0.5	0.5	0.5	0.5	0.5
142.5°	0.7	0.5	0.5	0.5	0.5	0.5
143°	0.8	0.5	0.5	0.5	0.5	0.5
143.5°	0.8	0.5	0.5	0.5	0.5	0.5
144°	0.8	0.5	0.5	0.5	0.5	0.5
144.5°	0.8	0.5	0.5	0.5	0.5	0.5
145°	0.8	0.5	0.5	0.5	0.5	0.5
145.5°	0.9	0.5	0.5	0.5	0.5	0.5
146°	0.9	0.6	0.6	0.6	0.5	0.5
146.5°	0.9	0.6	0.6	0.6	0.6	0.6
147°	0.9	0.6	0.6	0.6	0.6	0.6
147.5°	0.9	0.6	0.6	0.6	0.6	0.6
148°	1.0	0.6	0.6	0.6	0.6	0.6
148.5°	1.0	0.6	0.6	0.6	0.6	0.6
149°	1.0	0.6	0.6	0.6	0.6	0.6
149.5°	1.0	0.6	0.6	0.6	0.6	0.6
150°	1.0	0.6	0.6	0.6	0.6	0.6
150.5°	1.1	0.6	0.6	0.6	0.6	0.6
151°	1.1	0.6	0.6	0.6	0.6	0.6
151.5°	1.1	0.6	0.6	0.6	0.6	0.6
152°	1.1	0.6	0.6	0.7	0.7	0.6
152.5°	1.1	0.6	0.7	0.7	0.7	0.7
153°	1.2	0.6	0.7	0.7	0.7	0.7
153.5°	1.2	0.7	0.7	0.7	0.7	0.7
154°	1.2	0.7	0.7	0.7	0.7	0.7
154.5°	1.2	0.7	0.7	0.7	0.7	0.7
155°	1.2	0.7	0.7	0.7	0.7	0.7
155.5°	1.2	0.7	0.7	0.7	0.7	0.7
156°	1.3	0.7	0.7	0.7	0.7	0.7
156.5°	1.3	0.7	0.7	0.7	0.7	0.7
157°	1.3	0.7	0.7	0.7	0.7	0.7

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.3	0.7	0.7	0.7	0.7	0.7
158°	1.3	0.7	0.7	0.7	0.7	0.7
158.5°	1.3	0.7	0.7	0.7	0.7	0.7
159°	1.3	0.7	0.7	0.7	0.7	0.7
159.5°	1.3	0.7	0.7	0.7	0.7	0.7
160°	1.4	0.7	0.7	0.7	0.8	0.7
160.5°	1.4	0.7	0.7	0.8	0.8	0.8
161°	1.4	0.7	0.7	0.8	0.8	0.8
161.5°	1.4	0.7	0.7	0.8	0.8	0.8
162°	1.4	0.7	0.7	0.8	0.8	0.8
162.5°	1.4	0.7	0.7	0.8	0.8	0.8
163°	1.4	0.7	0.7	0.8	0.8	0.8
163.5°	1.4	0.7	0.7	0.8	0.8	0.8
164°	1.4	0.7	0.7	0.8	0.8	0.8
164.5°	1.4	0.7	0.7	0.8	0.8	0.8
165°	1.4	0.7	0.7	0.8	0.8	0.8
165.5°	1.4	0.7	0.7	0.8	0.8	0.8
166°	1.4	0.7	0.7	0.8	0.8	0.8
166.5°	1.4	0.7	0.7	0.8	0.8	0.8
167°	1.4	0.7	0.7	0.8	0.8	0.8
167.5°	1.4	0.7	0.7	0.8	0.8	0.8
168°	1.4	0.7	0.7	0.8	0.8	0.8
168.5°	1.4	0.7	0.7	0.8	0.8	0.8
169°	1.4	0.7	0.7	0.8	0.8	0.8
169.5°	1.3	0.7	0.7	0.8	0.8	0.8
170°	1.3	0.7	0.7	0.8	0.8	0.8
170.5°	1.3	0.7	0.7	0.8	0.8	0.8
171°	1.3	0.7	0.7	0.8	0.8	0.8
171.5°	1.3	0.7	0.7	0.8	0.8	0.8
172°	1.3	0.7	0.7	0.8	0.8	0.8
172.5°	1.2	0.7	0.7	0.8	0.8	0.8
173°	1.2	0.7	0.7	0.8	0.8	0.7
173.5°	1.2	0.7	0.7	0.8	0.8	0.7
174°	1.2	0.7	0.7	0.8	0.8	0.7
174.5°	1.2	0.7	0.7	0.8	0.8	0.8
175°	1.2	0.7	0.8	0.8	0.8	0.8
175.5°	1.1	0.7	0.8	0.8	0.8	0.8
176°	1.1	0.8	0.8	0.8	0.8	0.8
176.5°	1.1	0.8	0.8	0.8	0.8	0.8
177°	1.1	0.8	0.8	0.8	0.8	0.8
177.5°	1.1	0.9	0.9	0.9	0.9	0.9
178°	1.1	0.9	0.9	0.9	0.9	0.9
178.5°	1.0	0.9	0.9	0.9	0.9	0.9
179°	1.0	1.0	1.0	1.0	1.0	0.9
179.5°	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.0	1.0	1.0	1.0	1.0	1.0

TEST NUMBER: P1590485

CATALOG NUMBER: HCDLS1525CSD4TRMW-HI-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	5.6	6.7	6.0	7.0	7.3	6.7	7.7	7.0	8.0	8.3
	3H	5.6	6.5	6.0	6.8	7.2	6.6	7.5	7.0	7.8	8.2
	4H	5.5	6.3	5.9	6.7	7.1	6.5	7.4	6.9	7.7	8.1
	6H	5.4	6.2	5.8	6.5	6.9	6.4	7.2	6.8	7.6	8.0
	8H	5.3	6.1	5.8	6.5	6.9	6.4	7.1	6.8	7.5	7.9
	12H	5.3	6.0	5.7	6.4	6.8	6.3	7.0	6.7	7.4	7.8
4H	2H	5.5	6.3	5.9	6.7	7.0	6.5	7.3	6.9	7.7	8.0
	3H	5.4	6.1	5.8	6.5	6.9	6.4	7.1	6.8	7.5	7.9
	4H	5.3	5.9	5.8	6.4	6.8	6.3	6.9	6.8	7.4	7.8
	6H	5.2	5.7	5.7	6.2	6.7	6.2	6.7	6.7	7.2	7.7
	8H	5.2	5.6	5.6	6.1	6.6	6.2	6.6	6.6	7.1	7.6
	12H	5.1	5.5	5.6	6.0	6.5	6.1	6.5	6.6	7.0	7.5
8H	4H	5.2	5.7	5.6	6.1	6.6	6.2	6.6	6.6	7.1	7.6
	6H	5.1	5.4	5.6	5.9	6.4	6.1	6.4	6.6	6.9	7.4
	8H	5.0	5.3	5.5	5.9	6.4	6.0	6.3	6.5	6.8	7.3
	12H	4.9	5.2	5.5	5.7	6.3	5.9	6.2	6.4	6.7	7.3
12H	4H	5.1	5.5	5.6	6.0	6.5	6.1	6.5	6.6	7.0	7.5
	6H	5.0	5.3	5.5	5.8	6.4	6.0	6.3	6.5	6.8	7.3
	8H	4.9	5.2	5.5	5.7	6.3	5.9	6.2	6.4	6.7	7.3

(END OF REPORT)