

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: P1590469

Luminaire Tested: HCDLS1525CSD4TRH-HI-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590469
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-HI-3500K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 2500 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

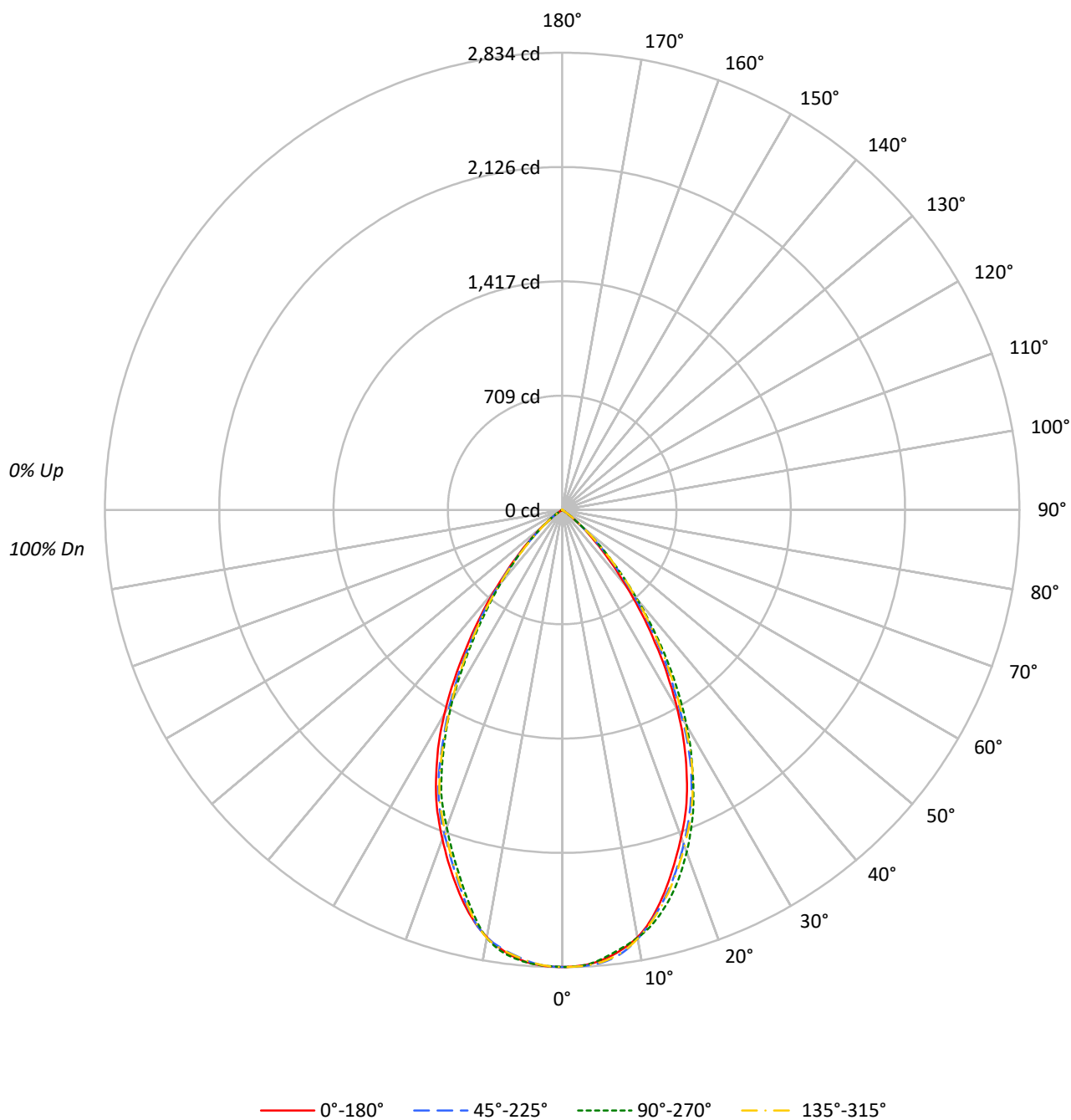
Lumens per Lamp: N/A
Luminaire Lumens: 2770.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	113	110	108	106	111	108	106	104		104	102	101			100	99	98			93
2	107	102	98	95	105	101	97	94		97	94	91			94	92	90			86
3	102	95	90	86	100	94	89	85		91	87	84			88	85	82			79
4	96	88	82	78	94	87	82	78		85	80	77			83	79	76			73
5	91	82	76	72	89	81	76	71		79	74	71			78	73	70			68
6	86	77	71	66	85	76	70	66		74	69	65			73	68	65			63
7	82	72	66	61	80	71	65	61		70	65	61			69	64	60			58
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			55
9	73	63	57	53	72	63	57	53		62	56	53			61	56	53			51
10	70	60	54	50	69	59	53	50		58	53	49			58	53	49			48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	349376	349376	349376	349376
5°	346774	346031	347170	347640
10°	336831	337256	336768	337194
15°	313100	321898	314185	306089
20°	283171	296192	285008	274757
25°	248867	261932	251861	239871
30°	203628	219979	208029	192889
35°	151195	170197	154402	140172
40°	100844	117172	104886	94678
45°	59169	70961	62571	57843
50°	28937	33197	31010	29762
55°	9441	10021	10064	10193
60°	2196	2442	2270	2541
65°	1051	1255	1138	1284
70°	613	757	685	757
75°	334	429	381	477
80°	142	213	213	213
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 70961 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	9.5
10°-20°	685.9	24.8
20°-30°	838.0	30.3
30°-40°	638.4	23.0
40°-50°	284.7	10.3
50°-60°	51.5	1.9
60°-70°	4.5	0.2
70°-80°	1.0	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°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1788.1	64.6
0°-40°	2426.5	87.6
0°-60°	2762.7	99.7
0°-90°	2768.3	99.9
90°-120°	0.0	0.0
90°-150°	0.9	0.0
90°-180°	2.0	0.1
0°-180°	2770.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2832	2832	2832	2832	2832	
5°	2801	2795	2804	2808	2801	264
15°	2452	2521	2460	2397	2452	684
25°	1829	1925	1851	1762	1829	831
35°	1004	1130	1025	931	1004	627
45°	339	407	359	332	339	270
55°	44	47	47	47	44	49
65°	4	4	4	4	4	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°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	2	2	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°	2832.5	2832.5	2832.5	2832.5	2832.5	2832.5	2832.5	2832.5	2832.5	2832.5	2832.5
0.5°	2833.0	2832.0	2832.3	2833.0	2832.0	2832.3	2833.5	2833.0	2833.0	2832.0	2832.0
1°	2831.8	2831.8	2832.3	2833.0	2832.0	2832.3	2832.8	2832.8	2832.0	2831.0	2831.0
1.5°	2830.3	2830.8	2831.8	2832.0	2831.0	2831.8	2832.0	2831.8	2831.0	2829.5	2829.5
2°	2828.3	2829.3	2831.0	2830.8	2829.3	2830.0	2831.0	2830.8	2829.1	2826.8	2827.3
2.5°	2825.8	2828.3	2829.8	2828.6	2826.8	2827.6	2830.0	2829.3	2826.6	2823.8	2824.3
3°	2823.1	2826.8	2828.1	2825.6	2823.1	2824.6	2827.6	2827.6	2823.8	2819.6	2820.1
3.5°	2818.6	2825.1	2826.1	2821.8	2818.1	2820.6	2824.8	2825.1	2820.6	2814.4	2814.9
4°	2813.6	2822.6	2824.1	2816.9	2811.4	2815.1	2822.1	2822.6	2815.9	2807.9	2808.7
4.5°	2807.4	2819.1	2820.8	2810.6	2803.4	2808.4	2817.9	2819.1	2810.6	2800.4	2801.7
5°	2800.7	2814.9	2815.9	2802.9	2794.7	2800.2	2812.6	2815.1	2803.9	2792.2	2794.0
5.5°	2793.0	2809.2	2810.4	2795.0	2785.3	2791.7	2806.4	2809.6	2797.0	2783.3	2786.0
6°	2785.0	2802.2	2803.7	2785.8	2775.3	2782.3	2799.4	2803.2	2788.5	2774.1	2777.3
6.5°	2775.8	2794.2	2796.0	2776.6	2765.1	2772.6	2791.2	2795.5	2779.1	2764.6	2768.6
7°	2766.1	2784.5	2786.3	2766.6	2755.2	2762.6	2781.8	2786.3	2768.9	2754.4	2759.6
7.5°	2755.4	2773.6	2775.3	2755.9	2745.2	2751.9	2771.3	2775.6	2758.7	2744.2	2749.9
8°	2744.7	2761.6	2762.9	2744.2	2735.0	2741.0	2759.4	2762.9	2746.5	2733.8	2740.0
8.5°	2732.3	2748.0	2749.2	2732.0	2724.8	2730.3	2746.0	2749.7	2733.5	2722.1	2729.1
9°	2719.1	2732.8	2733.8	2719.4	2714.4	2718.1	2731.0	2734.3	2719.8	2710.1	2717.1
9.5°	2704.4	2716.1	2717.4	2705.7	2703.9	2705.4	2715.4	2717.4	2705.4	2697.0	2704.2
10°	2689.3	2698.5	2699.5	2691.0	2692.7	2691.7	2698.2	2699.5	2688.8	2683.0	2689.5
10.5°	2672.3	2679.3	2680.3	2675.3	2680.5	2677.8	2680.3	2679.8	2671.1	2666.4	2672.1
11°	2653.4	2659.2	2660.1	2658.7	2667.1	2662.4	2661.1	2660.1	2652.7	2649.0	2652.9
11.5°	2632.8	2637.3	2639.8	2641.2	2652.7	2646.5	2641.5	2639.3	2632.8	2629.6	2631.5
12°	2609.7	2614.6	2618.4	2621.8	2637.5	2629.3	2621.6	2617.6	2611.6	2606.9	2606.7
12.5°	2585.8	2591.2	2595.5	2603.2	2620.1	2610.4	2600.7	2595.2	2587.8	2582.5	2578.8
13°	2560.6	2567.6	2573.1	2582.8	2602.7	2591.7	2579.1	2571.3	2565.1	2557.2	2551.7
13.5°	2534.5	2542.5	2550.0	2562.4	2583.5	2572.6	2556.9	2548.2	2540.0	2530.3	2523.1
14°	2507.4	2516.9	2526.6	2540.2	2563.1	2551.4	2534.3	2523.3	2514.6	2502.7	2493.2
14.5°	2480.2	2491.0	2502.7	2518.4	2542.2	2530.1	2510.4	2498.7	2487.3	2474.1	2463.2
15°	2451.9	2464.7	2477.6	2495.2	2520.8	2507.2	2487.5	2473.4	2460.4	2445.1	2432.1
15.5°	2422.9	2437.6	2452.6	2471.1	2498.5	2484.1	2462.4	2447.4	2433.0	2415.8	2400.9
16°	2394.3	2409.9	2426.6	2445.3	2474.5	2459.7	2437.2	2420.3	2404.6	2385.4	2370.4
16.5°	2365.6	2382.6	2400.3	2420.4	2450.2	2434.6	2410.6	2393.0	2376.0	2355.5	2340.1
17°	2336.2	2354.8	2373.5	2394.4	2424.9	2408.8	2383.8	2365.2	2346.8	2325.6	2309.8
17.5°	2306.1	2326.4	2345.5	2367.6	2398.9	2382.3	2357.0	2336.2	2317.5	2295.7	2279.5
18°	2276.1	2297.4	2317.3	2339.6	2371.2	2355.5	2328.8	2307.9	2288.6	2266.1	2249.6
18.5°	2246.3	2268.1	2289.2	2311.5	2343.7	2327.5	2300.8	2279.8	2259.3	2236.2	2220.3
19°	2216.7	2238.7	2261.5	2283.4	2314.7	2299.2	2273.2	2251.1	2229.0	2207.2	2190.8
19.5°	2187.3	2209.7	2233.2	2254.7	2286.5	2270.8	2245.2	2221.6	2199.9	2178.4	2164.5
20°	2157.3	2180.0	2204.7	2225.8	2256.5	2242.4	2217.3	2193.6	2171.3	2149.5	2136.2
20.5°	2127.8	2151.3	2175.8	2196.8	2227.1	2213.4	2188.4	2166.0	2141.2	2120.6	2107.9
21°	2098.0	2121.1	2146.5	2166.8	2197.0	2183.2	2159.9	2137.1	2111.2	2091.8	2079.6
21.5°	2068.4	2091.6	2117.6	2136.5	2164.9	2151.9	2131.3	2108.3	2081.2	2062.9	2051.3
22°	2037.3	2060.8	2087.2	2104.7	2132.7	2120.7	2102.7	2079.5	2051.1	2034.0	2020.1

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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°	2006.0	2031.0	2057.0	2074.2	2100.6	2089.4	2074.1	2050.6	2023.6	2002.0	1989.3
23°	1972.1	1998.8	2026.4	2040.0	2068.4	2058.1	2045.5	2018.7	1990.9	1968.0	1957.1
23.5°	1938.3	1967.1	1995.2	2008.0	2036.2	2026.9	2013.1	1987.3	1957.0	1933.8	1922.9
24°	1902.6	1933.9	1962.4	1972.4	1998.8	1991.8	1981.4	1955.0	1922.0	1898.9	1886.0
24.5°	1866.4	1899.4	1930.5	1938.1	1962.5	1956.9	1948.7	1921.3	1886.5	1861.6	1847.5
25°	1828.6	1863.7	1896.6	1901.0	1924.6	1920.8	1915.0	1887.4	1850.6	1823.8	1807.5
25.5°	1791.5	1828.2	1862.2	1865.8	1887.8	1884.5	1880.2	1852.8	1814.1	1784.8	1765.7
26°	1753.8	1791.0	1826.1	1828.4	1850.7	1847.6	1844.8	1817.0	1777.5	1745.8	1721.8
26.5°	1717.2	1753.5	1789.3	1790.7	1813.1	1810.1	1807.6	1779.1	1739.4	1705.6	1677.8
27°	1677.7	1715.3	1749.3	1752.9	1775.3	1771.9	1769.2	1741.0	1702.0	1664.9	1634.5
27.5°	1638.8	1676.8	1707.9	1714.3	1738.7	1734.6	1729.7	1702.0	1664.3	1622.9	1592.5
28°	1598.5	1637.7	1665.0	1675.2	1701.1	1696.7	1687.1	1661.7	1625.0	1581.7	1550.8
28.5°	1558.0	1595.4	1620.3	1634.8	1663.2	1657.1	1644.8	1620.4	1585.2	1539.6	1508.9
29°	1515.5	1555.0	1575.2	1594.5	1624.9	1618.5	1600.7	1577.6	1544.4	1498.5	1469.2
29.5°	1473.9	1512.7	1528.4	1554.0	1585.7	1578.4	1555.6	1533.4	1502.8	1457.9	1429.2
30°	1429.7	1468.8	1482.9	1511.7	1544.5	1537.7	1508.7	1487.8	1460.6	1417.1	1389.1
30.5°	1387.0	1423.0	1437.8	1467.9	1503.5	1495.1	1462.7	1441.7	1416.7	1375.9	1348.4
31°	1344.3	1378.8	1394.1	1424.5	1462.0	1453.1	1418.2	1395.6	1374.0	1336.0	1307.0
31.5°	1302.1	1332.0	1351.3	1380.8	1420.7	1410.1	1374.7	1349.4	1329.6	1295.9	1265.6
32°	1259.3	1286.9	1310.0	1336.5	1378.8	1366.6	1332.9	1305.0	1287.6	1256.2	1223.6
32.5°	1218.2	1240.7	1268.8	1292.9	1338.3	1323.4	1291.1	1261.7	1242.1	1215.6	1181.9
33°	1176.8	1198.4	1229.2	1249.7	1297.6	1279.2	1251.9	1219.1	1197.8	1176.2	1139.6
33.5°	1135.2	1153.5	1188.9	1206.3	1256.3	1235.8	1211.7	1177.8	1153.4	1135.1	1097.0
34°	1094.2	1112.7	1149.1	1165.4	1214.2	1193.5	1172.3	1137.3	1110.9	1094.3	1057.1
34.5°	1052.5	1070.1	1107.8	1124.8	1172.2	1151.9	1132.7	1097.3	1067.0	1053.0	1016.2
35°	1004.1	1029.3	1066.9	1085.3	1130.3	1111.0	1092.9	1058.6	1025.4	1010.7	978.3
35.5°	965.6	990.0	1027.3	1046.8	1088.5	1070.8	1052.5	1018.4	984.7	969.4	941.1
36°	927.1	950.7	988.4	1009.9	1045.8	1031.5	1012.5	978.2	945.8	928.9	904.8
36.5°	888.6	911.4	949.4	971.5	1004.1	991.6	972.6	938.4	905.4	888.9	868.0
37°	850.2	872.1	910.4	933.1	962.4	953.0	933.0	899.1	866.9	849.9	833.0
37.5°	810.3	832.8	871.5	894.8	921.5	914.7	893.9	859.1	829.5	811.1	797.1
38°	771.3	797.1	832.5	856.4	881.6	877.0	857.4	821.0	792.6	774.3	761.9
38.5°	733.4	760.6	796.6	818.5	841.4	838.9	820.5	783.9	756.0	738.2	726.1
39°	697.3	725.9	762.0	782.0	802.8	803.3	785.6	747.7	720.9	703.1	691.7
39.5°	661.2	690.9	726.5	745.4	764.9	765.9	750.9	713.2	685.9	667.2	657.3
40°	626.3	657.5	692.0	709.4	727.7	730.5	716.6	680.1	651.4	632.6	623.7
40.5°	593.2	625.4	658.4	674.3	691.8	693.4	682.3	646.8	617.3	598.9	590.6
41°	560.9	592.9	624.6	640.2	656.1	658.7	648.6	614.8	584.3	566.1	558.9
41.5°	529.1	561.3	590.6	606.8	622.2	623.7	615.1	583.6	552.5	534.0	528.6
42°	499.3	532.0	559.0	574.8	588.9	590.5	581.9	553.7	521.8	502.3	499.2
42.5°	470.4	502.1	527.2	542.7	556.8	557.0	548.8	523.4	492.1	472.4	469.5
43°	442.2	472.9	496.4	510.2	525.1	525.1	516.9	494.4	463.7	443.5	440.9
43.5°	414.5	443.4	466.0	479.0	493.9	493.1	485.8	465.5	435.3	415.7	412.1
44°	388.8	415.7	438.2	448.3	463.6	463.4	455.9	437.8	409.1	389.4	385.7
44.5°	363.6	388.8	410.2	418.4	434.5	433.3	426.5	410.0	383.3	364.1	358.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	339.2	363.2	383.5	389.5	406.8	405.0	398.6	383.6	358.7	339.5	332.4
45.5°	315.7	337.7	357.7	360.9	378.8	376.3	371.7	357.9	334.9	316.0	307.2
46°	294.2	314.0	332.3	334.2	352.4	349.7	345.3	333.1	311.5	293.8	284.7
46.5°	272.6	290.3	307.3	308.2	326.2	323.0	320.4	308.6	289.9	274.5	264.5
47°	252.6	269.1	283.4	283.7	302.1	297.9	295.4	285.5	270.5	255.1	244.4
47.5°	232.9	247.5	260.0	259.9	280.1	276.0	273.7	265.0	251.3	235.7	224.3
48°	215.2	228.0	238.0	237.7	258.0	254.2	252.0	244.5	232.1	216.4	204.2
48.5°	197.5	208.2	216.7	216.7	236.0	232.4	230.4	224.1	212.9	197.1	187.7
49°	181.3	190.6	196.5	197.2	213.9	210.5	208.8	203.6	193.7	180.8	172.7
49.5°	165.9	173.5	177.1	178.7	192.0	188.8	187.2	183.4	177.2	165.5	159.0
50°	150.8	157.4	159.1	161.0	173.0	170.7	169.0	166.3	161.6	151.3	146.1
50.5°	136.6	141.4	142.6	144.3	155.0	153.4	151.9	150.0	146.8	137.8	133.8
51°	123.7	127.4	127.4	128.9	138.7	137.8	136.2	134.8	132.5	125.3	122.4
51.5°	111.0	113.8	113.2	114.6	123.1	122.8	121.8	120.5	119.3	113.6	111.6
52°	99.4	101.4	100.3	101.5	108.9	109.0	108.0	107.3	106.5	102.3	101.3
52.5°	89.4	91.2	90.2	91.1	95.6	96.1	95.3	94.8	94.4	91.6	91.1
53°	79.3	80.9	80.0	80.7	83.6	84.3	83.7	83.2	83.1	81.3	81.4
53.5°	69.2	70.7	69.8	70.2	72.3	73.2	72.9	72.5	72.8	71.7	72.2
54°	59.2	60.4	59.6	59.8	62.5	63.4	63.3	62.5	63.0	62.7	63.5
54.5°	51.1	50.2	49.4	49.5	53.9	54.7	54.7	53.8	54.4	54.4	55.4
55°	43.9	43.1	42.4	42.5	46.6	47.4	47.2	46.5	46.8	46.9	47.9
55.5°	37.4	36.4	35.9	35.7	39.8	40.5	40.5	39.7	39.9	40.3	41.2
56°	30.9	29.9	29.3	29.2	33.2	33.7	33.7	35.4	35.0	35.8	34.6
56.5°	25.1	24.1	23.7	23.7	29.4	29.8	29.8	31.0	30.1	31.3	30.3
57°	20.3	19.6	19.1	19.4	25.5	26.0	25.9	26.7	25.2	26.8	26.2
57.5°	16.8	16.2	15.9	16.3	21.7	22.2	22.1	22.4	20.3	22.3	22.1
58°	14.2	13.7	13.6	13.9	17.8	18.3	18.2	18.1	15.5	17.8	18.0
58.5°	12.2	11.9	11.8	12.1	13.9	14.5	14.4	13.7	13.4	13.3	13.9
59°	10.7	10.4	10.3	10.6	12.3	12.8	12.6	12.0	11.7	11.6	12.0
59.5°	9.8	9.5	9.5	9.8	11.0	11.4	11.3	10.7	10.3	10.3	10.6
60°	8.9	8.7	8.6	8.9	9.9	10.3	10.1	9.6	9.2	9.1	9.4
60.5°	8.0	7.8	7.8	8.1	8.9	9.3	9.1	8.6	8.3	8.2	8.5
61°	7.1	7.0	6.9	7.2	8.1	8.4	8.3	7.8	7.5	7.4	7.7
61.5°	6.5	6.3	6.4	6.6	7.4	7.7	7.6	7.1	6.8	6.8	7.0
62°	5.9	5.8	5.8	6.0	6.8	7.1	6.9	6.5	6.2	6.2	6.4
62.5°	5.4	5.3	5.3	5.6	6.3	6.5	6.4	6.0	5.7	5.7	5.8
63°	5.0	4.9	4.9	5.1	5.8	6.0	5.9	5.5	5.3	5.2	5.4
63.5°	4.6	4.5	4.5	4.7	5.3	5.6	5.4	5.1	4.9	4.8	4.9
64°	4.3	4.2	4.2	4.4	4.9	5.2	5.0	4.7	4.5	4.4	4.6
64.5°	3.9	3.9	3.9	4.1	4.6	4.8	4.7	4.4	4.2	4.1	4.2
65°	3.6	3.6	3.6	3.8	4.3	4.5	4.3	4.0	3.9	3.8	3.9
65.5°	3.4	3.3	3.3	3.5	4.0	4.2	4.0	3.8	3.6	3.5	3.7
66°	3.1	3.1	3.1	3.3	3.7	3.9	3.8	3.5	3.3	3.3	3.4
66.5°	2.9	2.8	2.9	3.0	3.4	3.6	3.5	3.2	3.1	3.1	3.2
67°	2.7	2.6	2.7	2.8	3.2	3.4	3.2	3.0	2.9	2.9	2.9

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.5	2.5	2.5	2.6	3.0	3.1	3.0	2.8	2.7	2.7	2.7
68°	2.3	2.3	2.3	2.4	2.8	2.9	2.8	2.6	2.5	2.5	2.5
68.5°	2.1	2.1	2.1	2.3	2.6	2.7	2.6	2.4	2.3	2.3	2.4
69°	2.0	2.0	2.0	2.1	2.4	2.5	2.4	2.3	2.2	2.1	2.2
69.5°	1.8	1.8	1.8	2.0	2.2	2.4	2.3	2.1	2.0	2.0	2.0
70°	1.7	1.7	1.7	1.8	2.1	2.2	2.1	1.9	1.9	1.8	1.9
70.5°	1.6	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.7	1.7	1.8
71°	1.5	1.4	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.6
71.5°	1.3	1.3	1.3	1.4	1.7	1.8	1.7	1.6	1.5	1.5	1.5
72°	1.2	1.2	1.2	1.3	1.5	1.6	1.6	1.4	1.4	1.4	1.4
72.5°	1.1	1.1	1.1	1.2	1.4	1.5	1.4	1.3	1.3	1.3	1.3
73°	1.1	1.0	1.1	1.1	1.3	1.4	1.3	1.2	1.2	1.2	1.2
73.5°	1.0	0.9	1.0	1.0	1.2	1.3	1.2	1.1	1.1	1.1	1.1
74°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.0	1.0	1.0	1.0
74.5°	0.8	0.8	0.8	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
75°	0.7	0.7	0.7	0.8	0.9	1.0	1.0	0.9	0.8	0.8	0.9
75.5°	0.7	0.6	0.7	0.7	0.9	0.9	0.9	0.8	0.8	0.7	0.8
76°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
76.5°	0.5	0.5	0.5	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.6
77°	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6
77.5°	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
78°	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.4	0.4	0.5
78.5°	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
79°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4
79.5°	0.3	0.2	0.2	0.3	0.4	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	0.3	0.3	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	0.3	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	0.2	0.1	0.1	0.2
82°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1
82.5°	0.1	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	0.1	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: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-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: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-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°	0.1	0.1	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	0.1	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°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
127°	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	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	0.3	0.3
130.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
131°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
131.5°	0.3	0.3	0.3	0.3	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	0.4
133°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
133.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
134°	0.3	0.3	0.3	0.3	0.4	0.4	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: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-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	0.4	0.4	0.4	0.4	0.4	0.4	0.4
135.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5
136°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
136.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	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	0.6	0.6
138.5°	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6
139°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	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°	0.5	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.7
140.5°	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.7	0.7	0.7	0.7
141°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
141.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
142°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.8
142.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.8	0.8	0.8	0.8
143°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
143.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	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	0.9	0.9	0.9
145°	0.6	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
145.5°	0.6	0.6	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
146°	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9
146.5°	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	1.0	1.0
147°	0.6	0.6	0.6	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
148°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	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	1.1	1.1	1.1
149.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
150°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
150.5°	0.7	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
151°	0.7	0.7	0.6	0.6	1.1	1.1	1.1	1.1	1.2	1.2	1.2
151.5°	0.7	0.7	0.6	0.6	1.1	1.1	1.1	1.2	1.2	1.2	1.2
152°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
152.5°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
153°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
153.5°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.3	1.3	1.3
154°	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.3	1.3	1.3	1.3
154.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
156°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
156.5°	0.8	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.4	1.4	1.4
157°	0.8	0.7	0.7	0.7	1.3	1.3	1.3	1.4	1.4	1.4	1.4

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
158°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
158.5°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
159°	0.8	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
159.5°	0.8	0.8	0.8	0.7	1.4	1.4	1.4	1.4	1.4	1.5	1.4
160°	0.8	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.5	1.5	1.5
160.5°	0.8	0.8	0.8	0.8	1.4	1.5	1.5	1.5	1.5	1.5	1.5
161°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
161.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
162°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
162.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
163°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
163.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
164°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
164.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
165°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
165.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
166°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
166.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
167°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
167.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
168°	0.8	0.8	0.8	0.8	1.4	1.5	1.5	1.5	1.5	1.5	1.5
168.5°	0.8	0.8	0.8	0.8	1.4	1.4	1.5	1.5	1.5	1.5	1.5
169°	0.8	0.8	0.8	0.8	1.4	1.4	1.5	1.5	1.5	1.5	1.5
169.5°	0.8	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
170°	0.8	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
170.5°	0.8	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
171°	0.8	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
171.5°	0.8	0.8	0.8	0.8	1.3	1.4	1.4	1.4	1.4	1.4	1.4
172°	0.8	0.8	0.8	0.8	1.3	1.3	1.4	1.4	1.4	1.4	1.3
172.5°	0.8	0.8	0.8	0.8	1.3	1.3	1.4	1.4	1.4	1.3	1.3
173°	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
173.5°	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
174°	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
174.5°	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
175°	0.8	0.8	0.8	0.8	1.2	1.2	1.3	1.3	1.3	1.3	1.2
175.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.3	1.3	1.3	1.2	1.2
176°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
176.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
177°	0.9	0.9	0.9	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
177.5°	0.9	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
178°	0.9	0.9	0.9	0.9	1.1	1.1	1.2	1.2	1.2	1.1	1.1
178.5°	1.0	1.0	1.0	0.9	1.1	1.1	1.1	1.2	1.1	1.1	1.1
179°	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
179.5°	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1



TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2832.5	2832.5	2832.5	2832.5	2832.5	2832.5
0.5°	2832.8	2830.8	2831.8	2832.8	2832.5	2833.0
1°	2832.0	2830.0	2831.0	2831.5	2831.3	2831.8
1.5°	2830.8	2828.8	2830.0	2829.8	2829.3	2830.3
2°	2829.3	2827.3	2827.8	2826.8	2826.6	2828.3
2.5°	2826.6	2825.6	2825.6	2823.8	2823.6	2825.8
3°	2824.1	2823.8	2823.1	2819.6	2818.6	2823.1
3.5°	2820.3	2820.8	2819.3	2814.6	2812.9	2818.6
4°	2816.1	2817.1	2815.1	2808.7	2806.7	2813.6
4.5°	2810.4	2812.9	2810.1	2802.2	2799.7	2807.4
5°	2804.4	2807.7	2804.7	2794.7	2791.7	2800.7
5.5°	2798.2	2801.9	2798.5	2787.3	2783.5	2793.0
6°	2791.0	2795.2	2791.7	2779.5	2774.6	2785.0
6.5°	2783.0	2788.0	2784.0	2771.6	2766.4	2775.8
7°	2774.6	2778.8	2775.8	2763.1	2756.9	2766.1
7.5°	2765.4	2769.1	2765.9	2754.7	2748.0	2755.4
8°	2754.9	2757.7	2755.2	2744.2	2738.0	2744.7
8.5°	2744.0	2744.7	2742.7	2734.0	2727.6	2732.3
9°	2730.8	2729.3	2728.8	2721.6	2715.9	2719.1
9.5°	2716.4	2712.4	2712.6	2708.2	2702.9	2704.4
10°	2699.5	2692.2	2694.0	2691.7	2688.8	2689.3
10.5°	2680.0	2670.1	2672.3	2674.3	2672.8	2672.3
11°	2658.4	2645.0	2648.5	2653.4	2654.7	2653.4
11.5°	2632.8	2616.9	2621.3	2629.8	2634.0	2632.8
12°	2605.7	2586.8	2592.5	2602.9	2609.9	2609.7
12.5°	2576.6	2556.9	2562.4	2575.3	2584.0	2585.8
13°	2547.0	2525.3	2531.0	2545.7	2557.9	2560.6
13.5°	2516.4	2494.7	2499.7	2515.4	2530.1	2534.5
14°	2485.2	2462.0	2467.9	2484.4	2500.7	2507.4
14.5°	2453.2	2430.0	2435.9	2453.7	2471.1	2480.2
15°	2421.4	2397.0	2403.2	2421.4	2441.0	2451.9
15.5°	2390.3	2365.5	2371.7	2391.2	2410.1	2422.9
16°	2359.4	2334.4	2341.1	2359.8	2379.3	2394.3
16.5°	2328.3	2304.6	2310.7	2329.7	2350.3	2365.6
17°	2298.4	2273.5	2279.7	2299.8	2319.8	2336.2
17.5°	2268.8	2243.1	2250.5	2269.4	2290.4	2306.1
18°	2239.2	2212.5	2219.9	2239.4	2259.6	2276.1
18.5°	2208.8	2182.3	2189.7	2210.0	2229.7	2246.3
19°	2180.2	2152.4	2160.8	2180.3	2199.3	2216.7
19.5°	2152.2	2121.8	2131.5	2151.3	2169.9	2187.3
20°	2124.2	2093.2	2103.3	2122.1	2139.7	2157.3
20.5°	2096.3	2063.4	2073.9	2093.9	2110.3	2127.8
21°	2068.3	2035.0	2045.1	2064.1	2080.5	2098.0
21.5°	2040.4	2005.4	2016.3	2034.9	2050.2	2068.4
22°	2011.6	1976.5	1987.4	2005.2	2020.8	2037.3

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1981.9	1946.4	1957.0	1975.5	1989.3	2006.0
23°	1949.5	1914.3	1924.3	1943.4	1956.1	1972.1
23.5°	1914.4	1879.6	1890.2	1909.3	1922.7	1938.3
24°	1878.8	1842.2	1853.9	1872.9	1886.5	1902.6
24.5°	1841.9	1801.2	1816.2	1833.9	1848.3	1866.4
25°	1803.3	1762.5	1776.7	1793.6	1808.3	1828.6
25.5°	1762.8	1722.9	1736.7	1751.6	1768.5	1791.5
26°	1722.2	1683.7	1696.2	1708.4	1727.3	1753.8
26.5°	1680.1	1642.7	1654.9	1665.0	1685.1	1717.2
27°	1636.8	1604.1	1613.3	1621.0	1641.0	1677.7
27.5°	1592.9	1564.5	1570.1	1576.9	1598.1	1638.8
28°	1547.9	1523.7	1527.0	1533.6	1557.2	1598.5
28.5°	1503.6	1482.6	1484.7	1490.5	1516.3	1558.0
29°	1460.6	1441.0	1442.4	1448.6	1476.1	1515.5
29.5°	1418.3	1397.9	1399.9	1407.3	1436.6	1473.9
30°	1376.1	1354.3	1356.2	1366.7	1397.8	1429.7
30.5°	1333.7	1309.1	1312.8	1325.8	1357.7	1387.0
31°	1292.6	1266.0	1269.6	1284.8	1317.9	1344.3
31.5°	1251.2	1221.7	1226.9	1244.0	1277.3	1302.1
32°	1210.7	1178.7	1184.9	1202.8	1235.3	1259.3
32.5°	1170.3	1136.4	1143.3	1161.8	1193.6	1218.2
33°	1129.8	1094.9	1102.9	1120.6	1151.4	1176.8
33.5°	1088.9	1052.5	1063.4	1078.5	1108.7	1135.2
34°	1048.8	1005.8	1026.1	1038.5	1065.9	1094.2
34.5°	1008.8	968.3	987.3	1000.4	1024.8	1052.5
35°	970.1	930.9	948.5	962.3	985.9	1004.1
35.5°	931.1	893.5	909.7	924.2	947.0	965.6
36°	894.0	856.1	870.9	886.1	908.1	927.1
36.5°	856.5	819.8	832.1	848.0	869.2	888.6
37°	819.6	784.0	795.2	812.2	830.4	850.2
37.5°	783.3	749.2	758.9	776.7	794.2	810.3
38°	747.9	716.0	723.0	742.5	758.5	771.3
38.5°	713.5	683.2	688.2	707.6	722.4	733.4
39°	680.0	651.5	656.6	673.9	687.7	697.3
39.5°	646.8	619.3	624.5	639.6	652.6	661.2
40°	613.7	588.0	593.0	606.7	617.8	626.3
40.5°	582.4	558.3	562.7	573.8	583.0	593.2
41°	551.7	529.6	533.8	542.0	550.4	560.9
41.5°	522.1	501.7	505.3	511.4	517.7	529.1
42°	493.1	474.9	477.5	481.8	486.9	499.3
42.5°	464.4	449.1	450.7	451.8	456.6	470.4
43°	437.3	424.3	424.4	424.9	428.4	442.2
43.5°	411.1	399.8	399.3	397.0	400.6	414.5
44°	386.2	376.3	375.2	370.6	374.0	388.8
44.5°	362.0	353.4	352.1	344.7	348.1	363.6

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	338.6	331.6	329.5	320.4	323.3	339.2
45.5°	316.3	310.5	308.3	296.8	300.0	315.7
46°	294.8	290.5	287.9	274.5	277.7	294.2
46.5°	274.7	270.8	268.2	253.4	256.2	272.6
47°	256.2	251.9	249.2	234.0	236.0	252.6
47.5°	237.8	233.9	231.0	215.8	217.5	232.9
48°	219.3	216.5	213.7	198.8	200.3	215.2
48.5°	200.9	200.3	197.3	183.2	184.3	197.5
49°	184.7	184.6	181.6	168.9	168.8	181.3
49.5°	169.2	169.5	166.7	155.6	155.5	165.9
50°	155.2	155.1	152.3	143.0	142.5	150.8
50.5°	141.5	141.3	138.9	131.1	130.5	136.6
51°	128.9	128.3	126.3	119.9	118.8	123.7
51.5°	116.9	115.7	114.4	109.2	108.3	111.0
52°	105.6	104.1	102.9	98.8	98.9	99.4
52.5°	94.7	94.2	93.4	89.6	89.4	89.4
53°	84.4	84.4	83.8	80.4	79.8	79.3
53.5°	74.9	74.5	74.2	71.2	70.3	69.2
54°	65.6	64.7	64.7	62.0	60.8	59.2
54.5°	57.1	54.8	55.1	54.2	52.7	51.1
55°	49.4	47.4	47.8	47.0	45.4	43.9
55.5°	42.8	40.8	41.3	40.4	39.2	37.4
56°	36.2	34.2	34.7	34.0	32.7	30.9
56.5°	31.8	28.1	28.7	28.0	26.7	25.1
57°	27.6	23.1	23.5	22.9	21.7	20.3
57.5°	23.3	19.3	19.7	19.1	18.0	16.8
58°	19.0	16.4	16.8	16.3	15.2	14.2
58.5°	14.7	14.2	14.7	14.1	13.2	12.2
59°	12.8	12.5	12.9	12.4	11.5	10.7
59.5°	11.3	11.1	11.4	11.0	10.2	9.8
60°	10.1	10.3	10.2	10.2	9.4	8.9
60.5°	9.1	9.5	9.5	9.4	8.6	8.0
61°	8.2	8.7	8.8	8.6	7.8	7.1
61.5°	7.4	7.8	8.0	7.8	7.0	6.5
62°	6.8	7.0	7.3	7.0	6.4	5.9
62.5°	6.2	6.5	6.7	6.4	5.9	5.4
63°	5.7	6.0	6.2	5.9	5.4	5.0
63.5°	5.3	5.5	5.7	5.5	5.0	4.6
64°	4.9	5.1	5.3	5.0	4.6	4.3
64.5°	4.5	4.7	4.9	4.7	4.2	3.9
65°	4.2	4.4	4.6	4.3	3.9	3.6
65.5°	3.9	4.1	4.2	4.0	3.6	3.4
66°	3.6	3.8	3.9	3.7	3.4	3.1
66.5°	3.4	3.5	3.7	3.5	3.1	2.9
67°	3.1	3.3	3.4	3.2	2.9	2.7

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.9	3.1	3.2	3.0	2.7	2.5
68°	2.7	2.8	3.0	2.8	2.5	2.3
68.5°	2.5	2.6	2.8	2.6	2.3	2.1
69°	2.4	2.5	2.6	2.4	2.2	2.0
69.5°	2.2	2.3	2.4	2.2	2.0	1.8
70°	2.0	2.1	2.2	2.1	1.9	1.7
70.5°	1.9	2.0	2.1	1.9	1.7	1.6
71°	1.8	1.8	1.9	1.8	1.6	1.5
71.5°	1.6	1.7	1.8	1.7	1.5	1.3
72°	1.5	1.6	1.6	1.5	1.4	1.2
72.5°	1.4	1.5	1.5	1.4	1.3	1.1
73°	1.3	1.4	1.4	1.3	1.2	1.1
73.5°	1.2	1.2	1.3	1.2	1.1	1.0
74°	1.1	1.2	1.2	1.1	1.0	0.9
74.5°	1.0	1.1	1.1	1.0	0.9	0.8
75°	0.9	1.0	1.0	0.9	0.8	0.7
75.5°	0.8	0.9	0.9	0.9	0.7	0.7
76°	0.8	0.8	0.9	0.8	0.7	0.6
76.5°	0.7	0.7	0.8	0.7	0.6	0.5
77°	0.6	0.7	0.7	0.7	0.6	0.5
77.5°	0.6	0.6	0.6	0.6	0.5	0.4
78°	0.5	0.5	0.6	0.5	0.4	0.4
78.5°	0.5	0.5	0.5	0.5	0.4	0.3
79°	0.4	0.4	0.5	0.4	0.3	0.3
79.5°	0.4	0.4	0.4	0.4	0.3	0.3
80°	0.3	0.3	0.4	0.3	0.3	0.2
80.5°	0.3	0.3	0.3	0.3	0.2	0.2
81°	0.2	0.2	0.3	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	0.2	0.1	0.1
82.5°	0.1	0.1	0.1	0.1	0.1	0.1
83°	0.1	0.1	0.1	0.1	0.0	0.0
83.5°	0.1	0.1	0.1	0.1	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: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-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: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-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	0.1	0.1	0.1	0.0	0.0
120.5°	0.0	0.1	0.1	0.1	0.1	0.1
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°	0.1	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	0.2	0.1	0.1	0.1	0.1
125.5°	0.1	0.2	0.2	0.2	0.1	0.1
126°	0.1	0.2	0.2	0.2	0.2	0.2
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°	0.3	0.2	0.2	0.2	0.2	0.2
130°	0.3	0.3	0.2	0.2	0.2	0.2
130.5°	0.3	0.3	0.3	0.3	0.2	0.2
131°	0.3	0.3	0.3	0.3	0.3	0.3
131.5°	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
132.5°	0.4	0.3	0.3	0.3	0.3	0.3
133°	0.4	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: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.4	0.4	0.4	0.4	0.3	0.3
135.5°	0.5	0.4	0.4	0.4	0.4	0.4
136°	0.5	0.4	0.4	0.4	0.4	0.4
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°	0.6	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	0.5	0.5	0.5	0.4	0.4
140°	0.7	0.5	0.5	0.5	0.5	0.5
140.5°	0.7	0.5	0.5	0.5	0.5	0.5
141°	0.7	0.5	0.5	0.5	0.5	0.5
141.5°	0.7	0.5	0.5	0.5	0.5	0.5
142°	0.8	0.5	0.5	0.5	0.5	0.5
142.5°	0.8	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°	0.9	0.6	0.5	0.5	0.5	0.5
144.5°	0.9	0.6	0.6	0.6	0.6	0.5
145°	0.9	0.6	0.6	0.6	0.6	0.6
145.5°	0.9	0.6	0.6	0.6	0.6	0.6
146°	0.9	0.6	0.6	0.6	0.6	0.6
146.5°	1.0	0.6	0.6	0.6	0.6	0.6
147°	1.0	0.6	0.6	0.6	0.6	0.6
147.5°	1.0	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°	1.1	0.6	0.6	0.6	0.6	0.6
149°	1.1	0.6	0.6	0.6	0.6	0.6
149.5°	1.1	0.6	0.6	0.7	0.7	0.6
150°	1.1	0.7	0.7	0.7	0.7	0.7
150.5°	1.1	0.7	0.7	0.7	0.7	0.7
151°	1.2	0.7	0.7	0.7	0.7	0.7
151.5°	1.2	0.7	0.7	0.7	0.7	0.7
152°	1.2	0.7	0.7	0.7	0.7	0.7
152.5°	1.2	0.7	0.7	0.7	0.7	0.7
153°	1.2	0.7	0.7	0.7	0.7	0.7
153.5°	1.3	0.7	0.7	0.7	0.7	0.7
154°	1.3	0.7	0.7	0.7	0.7	0.7
154.5°	1.3	0.7	0.7	0.7	0.7	0.7
155°	1.3	0.7	0.7	0.7	0.7	0.7
155.5°	1.3	0.7	0.7	0.7	0.7	0.7
156°	1.3	0.7	0.7	0.8	0.8	0.7
156.5°	1.4	0.7	0.7	0.8	0.8	0.8
157°	1.4	0.7	0.7	0.8	0.8	0.8

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.4	0.7	0.7	0.8	0.8	0.8
158°	1.4	0.7	0.8	0.8	0.8	0.8
158.5°	1.4	0.7	0.8	0.8	0.8	0.8
159°	1.4	0.7	0.8	0.8	0.8	0.8
159.5°	1.4	0.8	0.8	0.8	0.8	0.8
160°	1.5	0.8	0.8	0.8	0.8	0.8
160.5°	1.5	0.8	0.8	0.8	0.8	0.8
161°	1.5	0.8	0.8	0.8	0.8	0.8
161.5°	1.5	0.8	0.8	0.8	0.8	0.8
162°	1.5	0.8	0.8	0.8	0.8	0.8
162.5°	1.5	0.8	0.8	0.8	0.8	0.8
163°	1.5	0.8	0.8	0.8	0.8	0.8
163.5°	1.5	0.8	0.8	0.8	0.8	0.8
164°	1.5	0.8	0.8	0.8	0.8	0.8
164.5°	1.5	0.8	0.8	0.8	0.8	0.8
165°	1.5	0.8	0.8	0.8	0.8	0.8
165.5°	1.5	0.8	0.8	0.8	0.8	0.8
166°	1.5	0.8	0.8	0.8	0.8	0.8
166.5°	1.5	0.8	0.8	0.8	0.8	0.8
167°	1.5	0.8	0.8	0.8	0.8	0.8
167.5°	1.5	0.8	0.8	0.8	0.8	0.8
168°	1.5	0.8	0.8	0.8	0.8	0.8
168.5°	1.5	0.8	0.8	0.8	0.8	0.8
169°	1.4	0.8	0.8	0.8	0.8	0.8
169.5°	1.4	0.8	0.8	0.8	0.8	0.8
170°	1.4	0.8	0.8	0.8	0.8	0.8
170.5°	1.4	0.8	0.8	0.8	0.8	0.8
171°	1.4	0.8	0.8	0.8	0.8	0.8
171.5°	1.4	0.8	0.8	0.8	0.8	0.8
172°	1.3	0.7	0.8	0.8	0.8	0.8
172.5°	1.3	0.7	0.8	0.8	0.8	0.8
173°	1.3	0.7	0.8	0.8	0.8	0.8
173.5°	1.3	0.8	0.8	0.8	0.8	0.8
174°	1.3	0.8	0.8	0.8	0.8	0.8
174.5°	1.3	0.8	0.8	0.8	0.8	0.8
175°	1.2	0.8	0.8	0.8	0.8	0.8
175.5°	1.2	0.8	0.8	0.8	0.8	0.8
176°	1.2	0.8	0.8	0.8	0.8	0.8
176.5°	1.2	0.8	0.9	0.9	0.9	0.8
177°	1.2	0.9	0.9	0.9	0.9	0.9
177.5°	1.2	0.9	0.9	0.9	0.9	0.9
178°	1.1	0.9	1.0	1.0	1.0	0.9
178.5°	1.1	1.0	1.0	1.0	1.0	1.0
179°	1.1	1.0	1.0	1.0	1.0	1.0
179.5°	1.1	1.1	1.1	1.1	1.1	1.0



TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.1	1.1	1.1	1.1	1.1	1.1

TEST NUMBER: P1590469

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-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	5.9	6.9	6.2	7.2	7.5	6.9	7.9	7.2	8.2	8.5
	3H	5.8	6.7	6.2	7.0	7.4	6.8	7.7	7.2	8.1	8.4
	4H	5.7	6.6	6.1	6.9	7.3	6.7	7.6	7.1	7.9	8.3
	6H	5.6	6.4	6.0	6.8	7.2	6.6	7.4	7.1	7.8	8.2
	8H	5.6	6.3	6.0	6.7	7.1	6.6	7.3	7.0	7.7	8.1
	12H	5.5	6.2	5.9	6.6	7.0	6.5	7.2	7.0	7.6	8.0
4H	2H	5.7	6.5	6.1	6.9	7.3	6.7	7.5	7.1	7.9	8.3
	3H	5.6	6.3	6.1	6.7	7.1	6.6	7.3	7.0	7.7	8.1
	4H	5.5	6.2	6.0	6.6	7.0	6.5	7.1	7.0	7.6	8.0
	6H	5.5	6.0	5.9	6.4	6.9	6.4	7.0	6.9	7.4	7.9
	8H	5.4	5.9	5.9	6.3	6.8	6.4	6.9	6.9	7.3	7.8
	12H	5.3	5.7	5.8	6.2	6.7	6.3	6.7	6.8	7.2	7.7
8H	4H	5.4	5.9	5.9	6.3	6.8	6.4	6.9	6.9	7.3	7.8
	6H	5.3	5.7	5.8	6.2	6.7	6.3	6.7	6.8	7.2	7.6
	8H	5.2	5.6	5.7	6.1	6.6	6.2	6.5	6.7	7.1	7.6
	12H	5.2	5.5	5.7	6.0	6.5	6.1	6.4	6.7	6.9	7.5
12H	4H	5.3	5.7	5.8	6.2	6.7	6.3	6.7	6.8	7.2	7.7
	6H	5.2	5.6	5.7	6.0	6.6	6.2	6.5	6.7	7.0	7.6
	8H	5.2	5.5	5.7	6.0	6.5	6.1	6.4	6.7	6.9	7.5

(END OF REPORT)