

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: P1590470

Luminaire Tested: HCDLS1525CSD4TRH-HI-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590470
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-4000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 2500 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

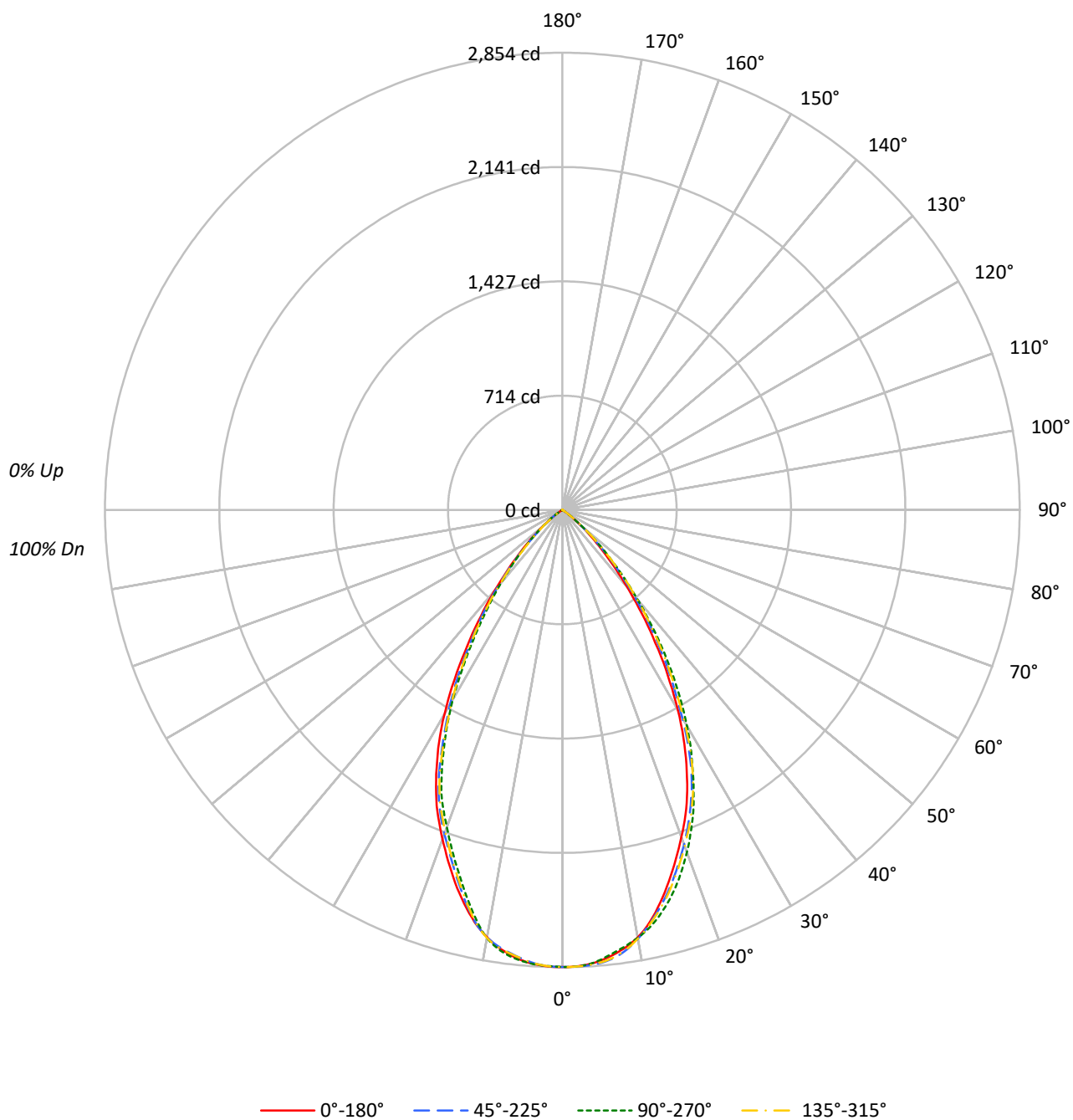
Lumens per Lamp: N/A
Luminaire Lumens: 2790.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93		93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86		86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79		79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73		73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68		68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63		63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	58		58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		55
9	73	63	57	53	72	63	57	53	62	56	53	61	56	53	60	56	52	51		51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	351905	351905	351905	351905
5°	349275	348532	349683	350141
10°	339260	339699	339198	339636
15°	315360	324222	316445	308298
20°	285218	298332	287056	276739
25°	250663	263824	253671	241599
30°	205095	221560	209525	194285
35°	152279	171432	155516	141181
40°	101585	118025	105643	95354
45°	59588	71484	63024	58262
50°	29148	33447	31221	29973
55°	9505	10086	10129	10258
60°	2220	2442	2294	2541
65°	1080	1255	1138	1284
70°	613	757	685	757
75°	334	477	381	477
80°	142	213	213	213
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 71484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	9.5
10°-20°	690.9	24.8
20°-30°	844.0	30.3
30°-40°	643.0	23.0
40°-50°	286.7	10.3
50°-60°	51.9	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°	1801.0	64.6
0°-40°	2444.0	87.6
0°-60°	2782.7	99.7
0°-90°	2788.2	99.9
90°-120°	0.0	0.0
90°-150°	0.9	0.0
90°-180°	2.0	0.1
0°-180°	2790.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2853	2853	2853	2853	2853	
5°	2821	2815	2824	2828	2821	266
15°	2470	2539	2478	2414	2470	689
25°	1842	1938	1864	1775	1842	837
35°	1011	1138	1033	938	1011	632
45°	342	410	361	334	342	272
55°	44	47	47	48	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°	2853.0	2853.0	2853.0	2853.0	2853.0	2853.0	2853.0	2853.0	2853.0	2853.0	2853.0
0.5°	2853.5	2852.5	2852.7	2853.5	2852.5	2852.7	2854.0	2853.5	2853.5	2852.5	2852.5
1°	2852.2	2852.2	2852.7	2853.5	2852.5	2852.7	2853.2	2853.2	2852.5	2851.5	2851.5
1.5°	2850.7	2851.2	2852.2	2852.5	2851.5	2852.2	2852.5	2852.2	2851.5	2850.0	2850.0
2°	2848.7	2849.7	2851.5	2851.2	2849.7	2850.5	2851.5	2851.2	2849.5	2847.2	2847.7
2.5°	2846.2	2848.7	2850.2	2849.0	2847.2	2848.0	2850.5	2849.7	2847.0	2844.2	2844.7
3°	2843.5	2847.2	2848.5	2846.0	2843.5	2845.0	2848.0	2848.0	2844.2	2840.0	2840.5
3.5°	2839.0	2845.5	2846.5	2842.2	2838.5	2841.0	2845.2	2845.5	2841.0	2834.7	2835.2
4°	2833.9	2843.0	2844.5	2837.2	2831.7	2835.4	2842.5	2843.0	2836.2	2828.2	2828.9
4.5°	2827.7	2839.5	2841.2	2830.9	2823.7	2828.7	2838.2	2839.5	2830.9	2820.7	2821.9
5°	2820.9	2835.2	2836.2	2823.2	2814.9	2820.4	2832.9	2835.4	2824.2	2812.4	2814.1
5.5°	2813.1	2829.4	2830.7	2815.2	2805.4	2811.9	2826.7	2829.9	2817.2	2803.4	2806.1
6°	2805.1	2822.4	2823.9	2805.9	2795.4	2802.4	2819.7	2823.4	2808.6	2794.1	2797.4
6.5°	2795.9	2814.4	2816.2	2796.6	2785.1	2792.6	2811.4	2815.7	2799.1	2784.6	2788.6
7°	2786.1	2804.6	2806.4	2786.6	2775.1	2782.6	2801.9	2806.4	2788.8	2774.3	2779.6
7.5°	2775.3	2793.6	2795.4	2775.8	2765.0	2771.8	2791.3	2795.6	2778.6	2764.0	2769.8
8°	2764.5	2781.6	2782.8	2764.0	2754.8	2760.8	2779.3	2782.8	2766.3	2753.5	2759.8
8.5°	2752.0	2767.8	2769.1	2751.8	2744.5	2750.0	2765.8	2769.6	2753.3	2741.7	2748.8
9°	2738.7	2752.5	2753.5	2739.0	2734.0	2737.7	2750.8	2754.0	2739.5	2729.7	2736.7
9.5°	2724.0	2735.7	2737.0	2725.2	2723.5	2725.0	2735.0	2737.0	2725.0	2716.4	2723.7
10°	2708.7	2717.9	2718.9	2710.4	2712.2	2711.2	2717.7	2718.9	2708.2	2702.4	2708.9
10.5°	2691.6	2698.6	2699.6	2694.6	2699.9	2697.1	2699.6	2699.1	2690.4	2685.6	2691.4
11°	2672.6	2678.4	2679.4	2677.9	2686.4	2681.6	2680.4	2679.4	2671.8	2668.1	2672.1
11.5°	2651.8	2656.3	2658.8	2660.3	2671.8	2665.6	2660.6	2658.3	2651.8	2648.5	2650.5
12°	2628.5	2633.5	2637.3	2640.8	2656.6	2648.3	2640.5	2636.5	2630.5	2625.7	2625.5
12.5°	2604.4	2610.0	2614.2	2622.0	2639.0	2629.2	2619.5	2614.0	2606.4	2601.2	2597.4
13°	2579.1	2586.2	2591.7	2601.4	2621.5	2610.5	2597.7	2589.9	2583.6	2575.6	2570.1
13.5°	2552.8	2560.8	2568.4	2580.9	2602.2	2591.2	2575.4	2566.6	2558.3	2548.6	2541.3
14°	2525.5	2535.0	2544.8	2558.6	2581.6	2569.9	2552.6	2541.6	2532.8	2520.8	2511.2
14.5°	2498.1	2509.0	2520.8	2536.5	2560.6	2548.3	2528.5	2516.7	2505.2	2491.9	2481.0
15°	2469.6	2482.5	2495.5	2513.2	2539.0	2525.3	2505.5	2491.3	2478.1	2462.7	2449.6
15.5°	2440.4	2455.2	2470.3	2488.9	2516.5	2502.0	2480.2	2465.1	2450.5	2433.3	2418.3
16°	2411.5	2427.3	2444.1	2462.9	2492.3	2477.4	2454.8	2437.8	2422.0	2402.6	2387.5
16.5°	2382.6	2399.8	2417.6	2437.9	2467.9	2452.2	2428.0	2410.3	2393.1	2372.5	2357.0
17°	2353.0	2371.8	2390.6	2411.6	2442.4	2426.2	2401.0	2382.3	2363.7	2342.4	2326.5
17.5°	2322.8	2343.2	2362.4	2384.7	2416.3	2399.5	2374.0	2353.1	2334.2	2312.3	2296.0
18°	2292.5	2314.0	2334.1	2356.4	2388.3	2372.5	2345.6	2324.6	2305.2	2282.4	2265.9
18.5°	2262.6	2284.4	2305.8	2328.2	2360.6	2344.3	2317.4	2296.2	2275.6	2252.3	2236.3
19°	2232.7	2254.9	2277.9	2299.9	2331.4	2315.8	2289.6	2267.3	2245.1	2223.1	2206.6
19.5°	2203.1	2225.6	2249.3	2271.0	2303.0	2287.1	2261.4	2237.6	2215.8	2194.1	2180.1
20°	2172.9	2195.7	2220.6	2241.9	2272.8	2258.6	2233.3	2209.5	2186.9	2165.0	2151.6
20.5°	2143.2	2166.8	2191.5	2212.6	2243.2	2229.4	2204.2	2181.6	2156.7	2135.9	2123.1
21°	2113.1	2136.4	2162.0	2182.4	2212.9	2199.0	2175.5	2152.6	2126.4	2106.9	2094.6
21.5°	2083.3	2106.7	2132.9	2151.9	2180.5	2167.5	2146.7	2123.5	2096.2	2077.8	2066.1
22°	2052.0	2075.7	2102.3	2119.9	2148.1	2136.0	2117.9	2094.5	2065.9	2048.7	2034.7

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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°	2020.5	2045.7	2071.8	2089.1	2115.7	2104.5	2089.1	2065.4	2038.2	2016.5	2003.7
23°	1986.4	2013.3	2041.0	2054.7	2083.4	2073.0	2060.3	2033.3	2005.2	1982.2	1971.3
23.5°	1952.3	1981.3	2009.6	2022.5	2050.9	2041.5	2027.6	2001.6	1971.1	1947.8	1936.8
24°	1916.4	1947.8	1976.5	1986.6	2013.2	2006.2	1995.7	1969.1	1935.8	1912.6	1899.6
24.5°	1879.8	1913.1	1944.5	1952.1	1976.6	1971.0	1962.8	1935.2	1900.2	1875.0	1860.8
25°	1841.8	1877.2	1910.3	1914.7	1938.5	1934.7	1928.8	1901.0	1863.9	1836.9	1820.6
25.5°	1804.4	1841.4	1875.6	1879.3	1901.5	1898.1	1893.8	1866.2	1827.2	1797.7	1778.5
26°	1766.5	1803.9	1839.3	1841.6	1864.1	1860.9	1858.2	1830.1	1790.3	1758.4	1734.2
26.5°	1729.6	1766.2	1802.2	1803.7	1826.2	1823.2	1820.7	1791.9	1752.0	1717.9	1689.9
27°	1689.8	1727.7	1761.9	1765.6	1788.1	1784.7	1781.9	1753.5	1714.2	1676.9	1646.3
27.5°	1650.6	1688.9	1720.2	1726.7	1751.3	1747.1	1742.2	1714.3	1676.3	1634.6	1604.0
28°	1610.0	1649.5	1677.0	1687.3	1713.4	1708.9	1699.3	1673.7	1636.8	1593.2	1562.0
28.5°	1569.3	1606.9	1632.0	1646.6	1675.2	1669.1	1656.7	1632.1	1596.7	1550.8	1519.8
29°	1526.4	1566.2	1586.6	1606.0	1636.6	1630.2	1612.2	1589.0	1555.6	1509.3	1479.8
29.5°	1484.6	1523.6	1539.5	1565.2	1597.1	1589.7	1566.9	1544.4	1513.6	1468.5	1439.5
30°	1440.0	1479.4	1493.6	1522.7	1555.6	1548.8	1519.5	1498.5	1471.1	1427.3	1399.1
30.5°	1397.0	1433.3	1448.1	1478.5	1514.4	1505.9	1473.2	1452.1	1427.0	1385.9	1358.1
31°	1354.0	1388.7	1404.1	1434.8	1472.6	1463.6	1428.4	1405.7	1383.9	1345.6	1316.5
31.5°	1311.5	1341.7	1361.1	1390.8	1431.0	1420.3	1384.6	1359.1	1339.2	1305.3	1274.8
32°	1268.4	1296.2	1319.5	1346.2	1388.8	1376.4	1342.5	1314.4	1296.9	1265.3	1232.4
32.5°	1227.0	1249.7	1277.9	1302.3	1347.9	1332.9	1300.4	1270.8	1251.1	1224.4	1190.5
33°	1185.3	1207.1	1238.1	1258.7	1307.0	1288.5	1260.9	1227.9	1206.5	1184.7	1147.9
33.5°	1143.4	1161.8	1197.5	1215.0	1265.4	1244.8	1220.5	1186.3	1161.8	1143.3	1105.0
34°	1102.1	1120.7	1157.4	1173.8	1223.0	1202.2	1180.8	1145.5	1118.9	1102.2	1064.8
34.5°	1060.1	1077.9	1115.8	1132.9	1180.7	1160.2	1140.9	1105.3	1074.7	1060.6	1023.6
35°	1011.3	1036.7	1074.6	1093.1	1138.5	1119.1	1100.8	1066.3	1032.8	1018.0	985.3
35.5°	972.6	997.1	1034.7	1054.3	1096.4	1078.6	1060.1	1025.8	991.8	976.4	947.9
36°	933.8	957.5	995.5	1017.2	1053.4	1039.0	1019.8	985.3	952.6	935.6	911.3
36.5°	895.1	918.0	956.3	978.5	1011.3	998.8	979.6	945.2	911.9	895.3	874.3
37°	856.3	878.4	917.0	939.9	969.3	959.8	939.8	905.6	873.2	856.0	839.1
37.5°	816.2	838.8	877.8	901.2	928.2	921.3	900.4	865.3	835.5	816.9	802.9
38°	776.8	802.9	838.5	862.6	888.0	883.4	863.6	826.9	798.4	779.9	767.4
38.5°	738.7	766.0	802.4	824.4	847.5	845.0	826.4	789.6	761.5	743.5	731.3
39°	702.3	731.1	767.5	787.7	808.6	809.1	791.3	753.1	726.1	708.1	696.7
39.5°	666.0	695.8	731.8	750.8	770.4	771.4	756.3	718.3	690.8	672.0	662.1
40°	630.9	662.2	697.0	714.5	733.0	735.8	721.8	685.0	656.1	637.2	628.2
40.5°	597.5	629.9	663.1	679.2	696.8	698.4	687.2	651.4	621.8	603.2	594.8
41°	565.0	597.2	629.1	644.9	660.8	663.5	653.3	619.3	588.5	570.2	563.0
41.5°	532.9	565.4	594.8	611.2	626.7	628.2	619.6	587.9	556.5	537.8	532.4
42°	502.9	535.8	563.1	578.9	593.1	594.8	586.1	557.7	525.5	505.9	502.8
42.5°	473.8	505.7	531.0	546.6	560.8	561.0	552.8	527.2	495.7	475.8	472.9
43°	445.4	476.3	500.0	513.9	528.9	528.9	520.6	498.0	467.1	446.8	444.1
43.5°	417.5	446.6	469.4	482.4	497.5	496.7	489.3	468.8	438.4	418.7	415.1
44°	391.7	418.7	441.4	451.5	466.9	466.7	459.2	440.9	412.0	392.2	388.5
44.5°	366.2	391.6	413.1	421.5	437.7	436.4	429.6	412.9	386.1	366.7	360.7

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CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	341.6	365.8	386.2	392.3	409.8	407.9	401.5	386.4	361.3	341.9	334.8
45.5°	318.0	340.2	360.3	363.5	381.5	379.1	374.3	360.5	337.4	318.3	309.4
46°	296.3	316.3	334.7	336.6	354.9	352.2	347.8	335.5	313.7	295.9	286.8
46.5°	274.6	292.4	309.5	310.4	328.5	325.4	322.7	310.8	292.0	276.5	266.4
47°	254.4	271.0	285.4	285.7	304.3	300.0	297.5	287.5	272.5	256.9	246.2
47.5°	234.6	249.3	261.9	261.8	282.1	278.0	275.6	266.9	253.2	237.4	225.9
48°	216.7	229.6	239.7	239.4	259.9	256.0	253.9	246.3	233.8	217.9	205.6
48.5°	198.9	209.7	218.3	218.2	237.7	234.0	232.1	225.7	214.5	198.5	189.1
49°	182.6	192.0	197.9	198.6	215.5	212.1	210.3	205.1	195.1	182.2	174.0
49.5°	167.1	174.8	178.4	180.0	193.4	190.1	188.5	184.7	178.5	166.7	160.1
50°	151.9	158.6	160.3	162.1	174.3	171.9	170.2	167.5	162.7	152.4	147.1
50.5°	137.6	142.5	143.6	145.4	156.1	154.6	153.0	151.1	147.8	138.8	134.8
51°	124.6	128.3	128.4	129.9	139.7	138.8	137.2	135.7	133.4	126.2	123.2
51.5°	111.8	114.7	114.0	115.4	124.0	123.7	122.6	121.4	120.2	114.4	112.4
52°	100.1	102.1	101.1	102.3	109.7	109.8	108.8	108.1	107.2	103.1	102.0
52.5°	90.0	91.8	90.8	91.8	96.3	96.8	96.0	95.5	95.1	92.3	91.8
53°	79.9	81.5	80.5	81.3	84.2	84.9	84.3	83.8	83.7	81.9	82.0
53.5°	69.7	71.2	70.3	70.7	72.9	73.7	73.5	73.0	73.3	72.2	72.7
54°	59.6	60.9	60.0	60.2	62.9	63.8	63.8	63.0	63.5	63.1	63.9
54.5°	51.5	50.5	49.8	49.8	54.3	55.1	55.1	54.2	54.8	54.8	55.8
55°	44.2	43.4	42.7	42.8	46.9	47.7	47.6	46.8	47.1	47.2	48.3
55.5°	37.7	36.7	36.1	36.0	40.1	40.8	40.8	40.0	40.2	40.6	41.5
56°	31.2	30.1	29.5	29.4	33.5	33.9	33.9	35.6	35.2	36.0	34.8
56.5°	25.2	24.3	23.8	23.9	29.6	30.0	30.0	31.3	30.3	31.5	30.6
57°	20.5	19.7	19.3	19.6	25.7	26.1	26.1	26.9	25.4	27.0	26.4
57.5°	16.9	16.3	16.1	16.4	21.8	22.3	22.2	22.6	20.5	22.4	22.3
58°	14.3	13.8	13.7	14.0	17.9	18.5	18.4	18.2	15.6	17.9	18.2
58.5°	12.3	12.0	11.9	12.2	14.1	14.6	14.5	13.8	13.5	13.4	14.0
59°	10.8	10.5	10.4	10.7	12.4	12.9	12.7	12.1	11.8	11.7	12.1
59.5°	9.9	9.6	9.6	9.9	11.1	11.5	11.3	10.8	10.4	10.3	10.7
60°	9.0	8.7	8.7	9.0	9.9	10.4	10.2	9.6	9.3	9.2	9.5
60.5°	8.1	7.9	7.8	8.1	9.0	9.4	9.2	8.7	8.3	8.3	8.5
61°	7.2	7.0	7.0	7.3	8.2	8.5	8.4	7.9	7.6	7.5	7.7
61.5°	6.6	6.4	6.4	6.6	7.5	7.8	7.6	7.2	6.9	6.8	7.0
62°	6.0	5.8	5.8	6.1	6.9	7.1	7.0	6.6	6.3	6.2	6.4
62.5°	5.5	5.4	5.4	5.6	6.3	6.6	6.4	6.0	5.8	5.7	5.9
63°	5.0	4.9	4.9	5.2	5.8	6.1	5.9	5.6	5.3	5.2	5.4
63.5°	4.6	4.5	4.6	4.8	5.4	5.6	5.5	5.1	4.9	4.8	5.0
64°	4.3	4.2	4.2	4.4	5.0	5.2	5.1	4.7	4.5	4.5	4.6
64.5°	4.0	3.9	3.9	4.1	4.6	4.8	4.7	4.4	4.2	4.1	4.3
65°	3.7	3.6	3.6	3.8	4.3	4.5	4.4	4.1	3.9	3.8	4.0
65.5°	3.4	3.3	3.4	3.5	4.0	4.2	4.1	3.8	3.6	3.6	3.7
66°	3.2	3.1	3.1	3.3	3.7	3.9	3.8	3.5	3.4	3.3	3.4
66.5°	2.9	2.9	2.9	3.0	3.5	3.6	3.5	3.3	3.1	3.1	3.2
67°	2.7	2.7	2.7	2.8	3.2	3.4	3.3	3.0	2.9	2.9	3.0

TEST NUMBER: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

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	3.2	3.0	2.8	2.7	2.7	2.8
68°	2.3	2.3	2.3	2.5	2.8	2.9	2.8	2.6	2.5	2.5	2.6
68.5°	2.2	2.1	2.2	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	2.5	2.3	2.2	2.2	2.2
69.5°	1.9	1.8	1.9	2.0	2.2	2.4	2.3	2.1	2.0	2.0	2.1
70°	1.7	1.7	1.7	1.8	2.1	2.2	2.1	2.0	1.9	1.9	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°	1.4	1.3	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.5
72°	1.3	1.2	1.3	1.3	1.6	1.6	1.6	1.5	1.4	1.4	1.4
72.5°	1.2	1.1	1.2	1.2	1.4	1.5	1.5	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	1.1	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	1.1	1.0	1.0	1.0
74.5°	0.8	0.8	0.8	0.9	1.0	1.1	1.1	1.0	0.9	0.9	0.9
75°	0.7	0.7	0.7	0.8	1.0	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	0.8	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	0.7
77°	0.5	0.5	0.5	0.5	0.7	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	0.3	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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-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°	0.1	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	0.3	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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-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°	0.4	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	0.5	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	0.6	0.6	0.6
138.5°	0.4	0.4	0.4	0.4	0.6	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	0.7	0.7
140.5°	0.5	0.5	0.4	0.5	0.6	0.6	0.7	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	0.9
144.5°	0.6	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.9	0.9	0.9
145°	0.6	0.6	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	0.6	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	1.0	1.0	1.0
147°	0.6	0.6	0.6	0.6	1.0	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	1.1	1.1
149°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.1	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	0.7	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	0.7	1.2	1.2	1.2	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	1.3	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	1.3	1.3	1.3	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°	0.8	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.4	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	0.8	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4

TEST NUMBER: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

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	0.8	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
159.5°	0.8	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.5	1.5	1.5
160°	0.8	0.8	0.8	0.8	1.4	1.4	1.4	1.5	1.5	1.5	1.5
160.5°	0.8	0.8	0.8	0.8	1.5	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	1.5	1.5	1.5	1.5	1.5	1.5	1.5
168.5°	0.8	0.8	0.8	0.8	1.4	1.5	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	1.5	1.5	1.5	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	1.4	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	1.4
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	1.3	1.3	1.3	1.3	1.3	1.3
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°	0.9	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	0.9	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	1.2	1.2	1.2	1.2	1.2	1.1
178.5°	1.0	1.0	1.0	1.0	1.1	1.1	1.2	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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2853.0	2853.0	2853.0	2853.0	2853.0	2853.0
0.5°	2853.2	2851.2	2852.2	2853.2	2853.0	2853.5
1°	2852.5	2850.5	2851.5	2852.0	2851.7	2852.2
1.5°	2851.2	2849.2	2850.5	2850.2	2849.7	2850.7
2°	2849.7	2847.7	2848.2	2847.2	2847.0	2848.7
2.5°	2847.0	2846.0	2846.0	2844.2	2844.0	2846.2
3°	2844.5	2844.2	2843.5	2840.0	2839.0	2843.5
3.5°	2840.7	2841.2	2839.7	2834.9	2833.2	2839.0
4°	2836.4	2837.5	2835.4	2828.9	2826.9	2833.9
4.5°	2830.7	2833.2	2830.4	2822.4	2819.9	2827.7
5°	2824.7	2827.9	2824.9	2814.9	2811.9	2820.9
5.5°	2818.4	2822.2	2818.7	2807.4	2803.6	2813.1
6°	2811.1	2815.4	2811.9	2799.6	2794.6	2805.1
6.5°	2803.1	2808.1	2804.1	2791.6	2786.3	2795.9
7°	2794.6	2798.9	2795.9	2783.1	2776.8	2786.1
7.5°	2785.3	2789.1	2785.8	2774.6	2767.8	2775.3
8°	2774.8	2777.6	2775.1	2764.0	2757.8	2764.5
8.5°	2763.8	2764.5	2762.5	2753.8	2747.3	2752.0
9°	2750.5	2749.0	2748.5	2741.2	2735.5	2738.7
9.5°	2736.0	2732.0	2732.2	2727.7	2722.4	2724.0
10°	2718.9	2711.7	2713.4	2711.2	2708.2	2708.7
10.5°	2699.4	2689.4	2691.6	2693.6	2692.1	2691.6
11°	2677.6	2664.1	2667.6	2672.6	2673.8	2672.6
11.5°	2651.8	2635.8	2640.3	2648.8	2653.0	2651.8
12°	2624.5	2605.4	2611.2	2621.7	2628.7	2628.5
12.5°	2595.2	2575.4	2580.9	2593.9	2602.7	2604.4
13°	2565.4	2543.6	2549.3	2564.1	2576.4	2579.1
13.5°	2534.5	2512.7	2517.8	2533.5	2548.3	2552.8
14°	2503.1	2479.8	2485.7	2502.3	2518.8	2525.5
14.5°	2470.9	2447.6	2453.5	2471.4	2488.9	2498.1
15°	2438.9	2414.3	2420.6	2438.9	2458.6	2469.6
15.5°	2407.5	2382.6	2388.9	2408.5	2427.5	2440.4
16°	2376.5	2351.2	2358.1	2376.8	2396.5	2411.5
16.5°	2345.1	2321.2	2327.4	2346.6	2367.2	2382.6
17°	2315.0	2289.9	2296.2	2316.4	2336.6	2353.0
17.5°	2285.1	2259.3	2266.8	2285.8	2306.9	2322.8
18°	2255.4	2228.4	2235.9	2255.6	2275.9	2292.5
18.5°	2224.8	2198.1	2205.5	2226.0	2245.8	2262.6
19°	2195.9	2167.9	2176.4	2196.1	2215.2	2232.7
19.5°	2167.7	2137.1	2146.9	2166.8	2185.6	2203.1
20°	2139.6	2108.3	2118.5	2137.4	2155.1	2172.9
20.5°	2111.4	2078.3	2088.9	2109.0	2125.6	2143.2
21°	2083.3	2049.7	2059.9	2079.0	2095.5	2113.1
21.5°	2055.1	2019.9	2030.8	2049.6	2065.0	2083.3
22°	2026.2	1990.8	2001.8	2019.6	2035.4	2052.0

TEST NUMBER: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1996.2	1960.5	1971.1	1989.8	2003.7	2020.5
23°	1963.5	1928.1	1938.2	1957.5	1970.2	1986.4
23.5°	1928.3	1893.1	1903.9	1923.1	1936.6	1952.3
24°	1892.4	1855.5	1867.3	1886.4	1900.1	1916.4
24.5°	1855.2	1814.2	1829.3	1847.1	1861.7	1879.8
25°	1816.3	1775.2	1789.6	1806.5	1821.4	1841.8
25.5°	1775.5	1735.3	1749.3	1764.2	1781.2	1804.4
26°	1734.7	1695.9	1708.4	1720.7	1739.8	1766.5
26.5°	1692.2	1654.6	1666.8	1677.0	1697.3	1729.6
27°	1648.6	1615.7	1624.9	1632.7	1652.9	1689.8
27.5°	1604.4	1575.8	1581.4	1588.3	1609.6	1650.6
28°	1559.1	1534.7	1538.1	1544.6	1568.4	1610.0
28.5°	1514.5	1493.3	1495.4	1501.3	1527.2	1569.3
29°	1471.1	1451.4	1452.8	1459.1	1486.8	1526.4
29.5°	1428.5	1408.0	1410.0	1417.4	1447.0	1484.6
30°	1386.0	1364.1	1366.0	1376.6	1407.9	1440.0
30.5°	1343.3	1318.6	1322.3	1335.3	1367.5	1397.0
31°	1301.9	1275.2	1278.7	1294.1	1327.4	1354.0
31.5°	1260.3	1230.5	1235.8	1253.0	1286.5	1311.5
32°	1219.4	1187.2	1193.4	1211.5	1244.2	1268.4
32.5°	1178.8	1144.6	1151.5	1170.2	1202.2	1227.0
33°	1138.0	1102.8	1110.9	1128.7	1159.7	1185.3
33.5°	1096.7	1060.1	1071.1	1086.3	1116.7	1143.4
34°	1056.4	1013.1	1033.5	1046.0	1073.6	1102.1
34.5°	1016.0	975.3	994.4	1007.6	1032.2	1060.1
35°	977.1	937.6	955.3	969.2	993.0	1011.3
35.5°	937.8	899.9	916.2	930.9	953.9	972.6
36°	900.5	862.2	877.1	892.5	914.7	933.8
36.5°	862.7	825.7	838.1	854.1	875.5	895.1
37°	825.5	789.7	800.9	818.0	836.4	856.3
37.5°	788.9	754.6	764.3	782.3	799.9	816.2
38°	753.3	721.2	728.2	747.9	764.0	776.8
38.5°	718.7	688.1	693.2	712.8	727.6	738.7
39°	684.9	656.2	661.3	678.8	692.6	702.3
39.5°	651.4	623.8	629.0	644.3	657.3	666.0
40°	618.1	592.2	597.3	611.1	622.3	630.9
40.5°	586.6	562.3	566.8	578.0	587.3	597.5
41°	555.7	533.4	537.6	545.9	554.4	565.0
41.5°	525.8	505.4	508.9	515.1	521.4	532.9
42°	496.6	478.3	480.9	485.3	490.4	502.9
42.5°	467.8	452.4	453.9	455.1	459.9	473.8
43°	440.5	427.3	427.5	428.0	431.5	445.4
43.5°	414.1	402.7	402.2	399.8	403.5	417.5
44°	389.0	379.0	377.9	373.3	376.7	391.7
44.5°	364.6	356.0	354.6	347.2	350.6	366.2

TEST NUMBER: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	341.1	334.0	331.9	322.8	325.6	341.6
45.5°	318.6	312.7	310.5	299.0	302.2	318.0
46°	297.0	292.6	290.0	276.5	279.7	296.3
46.5°	276.7	272.7	270.1	255.2	258.1	274.6
47°	258.0	253.8	251.0	235.7	237.7	254.4
47.5°	239.5	235.6	232.6	217.4	219.0	234.6
48°	220.9	218.1	215.2	200.2	201.7	216.7
48.5°	202.3	201.8	198.7	184.5	185.6	198.9
49°	186.0	185.9	183.0	170.1	170.0	182.6
49.5°	170.4	170.7	167.9	156.8	156.6	167.1
50°	156.3	156.2	153.4	144.1	143.6	151.9
50.5°	142.6	142.3	139.9	132.1	131.5	137.6
51°	129.8	129.2	127.2	120.8	119.7	124.6
51.5°	117.7	116.6	115.2	110.0	109.0	111.8
52°	106.4	104.8	103.6	99.5	99.6	100.1
52.5°	95.3	94.9	94.0	90.3	90.0	90.0
53°	85.0	85.0	84.4	81.0	80.4	79.9
53.5°	75.4	75.1	74.8	71.7	70.8	69.7
54°	66.1	65.2	65.2	62.5	61.2	59.6
54.5°	57.5	55.2	55.5	54.6	53.0	51.5
55°	49.8	47.7	48.1	47.4	45.7	44.2
55.5°	43.1	41.1	41.5	40.7	39.5	37.7
56°	36.5	34.4	34.9	34.3	33.0	31.2
56.5°	32.1	28.3	28.9	28.2	26.9	25.2
57°	27.8	23.3	23.7	23.0	21.8	20.5
57.5°	23.5	19.4	19.8	19.2	18.1	16.9
58°	19.1	16.5	17.0	16.4	15.4	14.3
58.5°	14.8	14.3	14.8	14.2	13.3	12.3
59°	12.8	12.6	13.0	12.5	11.6	10.8
59.5°	11.4	11.2	11.5	11.1	10.2	9.9
60°	10.1	10.3	10.3	10.3	9.4	9.0
60.5°	9.1	9.5	9.6	9.5	8.6	8.1
61°	8.2	8.7	8.8	8.6	7.8	7.2
61.5°	7.5	7.9	8.1	7.8	7.0	6.6
62°	6.9	7.1	7.4	7.0	6.4	6.0
62.5°	6.3	6.5	6.8	6.5	5.9	5.5
63°	5.8	6.0	6.2	5.9	5.4	5.0
63.5°	5.3	5.6	5.8	5.5	5.0	4.6
64°	4.9	5.1	5.3	5.1	4.6	4.3
64.5°	4.6	4.8	5.0	4.7	4.3	4.0
65°	4.2	4.4	4.6	4.4	3.9	3.7
65.5°	3.9	4.1	4.3	4.0	3.7	3.4
66°	3.7	3.8	4.0	3.8	3.4	3.2
66.5°	3.4	3.6	3.7	3.5	3.1	2.9
67°	3.2	3.3	3.4	3.2	2.9	2.7

TEST NUMBER: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

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	2.9	3.0	2.8	2.5	2.3
68.5°	2.5	2.7	2.8	2.6	2.3	2.2
69°	2.4	2.5	2.6	2.4	2.2	2.0
69.5°	2.2	2.3	2.4	2.3	2.0	1.9
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	1.9	1.9	1.8	1.6	1.5
71.5°	1.6	1.7	1.8	1.7	1.5	1.4
72°	1.5	1.6	1.7	1.5	1.4	1.3
72.5°	1.4	1.5	1.5	1.4	1.3	1.2
73°	1.3	1.4	1.4	1.3	1.2	1.1
73.5°	1.2	1.3	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	1.0	0.8	0.7
75.5°	0.9	0.9	0.9	0.9	0.8	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	0.6	0.6	0.5	0.5	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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-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	0.1	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°	0.2	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	0.3	0.2	0.2	0.2
130.5°	0.3	0.3	0.3	0.3	0.3	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	0.4	0.4	0.3	0.3	0.3

TEST NUMBER: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.5	0.4	0.4	0.4	0.4	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°	0.6	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	0.6	0.6	0.5	0.5
144.5°	0.9	0.6	0.6	0.6	0.6	0.6
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	0.7	0.7	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	0.8	0.8	0.7
156°	1.3	0.7	0.7	0.8	0.8	0.8
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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.4	0.7	0.8	0.8	0.8	0.8
158°	1.4	0.7	0.8	0.8	0.8	0.8
158.5°	1.4	0.8	0.8	0.8	0.8	0.8
159°	1.4	0.8	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°	1.5	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°	1.4	0.8	0.8	0.8	0.8	0.8
172.5°	1.3	0.8	0.8	0.8	0.8	0.8
173°	1.3	0.8	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°	1.3	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	0.9
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	1.0	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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-HI-4000K

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: P1590470

CATALOG NUMBER: HCDLS1525CSD4TRH-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	5.9	6.9	6.2	7.2	7.6	6.9	7.9	7.3	8.2	8.6
	3H	5.8	6.7	6.2	7.1	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	7.2	7.9	8.3
	6H	5.6	6.4	6.1	6.8	7.2	6.7	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	6.0	6.6	7.0	6.5	7.2	7.0	7.6	8.1
4H	2H	5.7	6.6	6.1	6.9	7.3	6.7	7.5	7.1	7.9	8.3
	3H	5.7	6.3	6.1	6.8	7.2	6.6	7.3	7.1	7.7	8.1
	4H	5.6	6.2	6.0	6.6	7.1	6.6	7.2	7.0	7.6	8.0
	6H	5.5	6.0	6.0	6.4	6.9	6.5	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	5.8	5.8	6.3	6.7	6.3	6.7	6.8	7.2	7.7
8H	4H	5.4	5.9	5.9	6.4	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	7.7
	8H	5.2	5.6	5.8	6.1	6.6	6.2	6.6	6.7	7.1	7.6
	12H	5.2	5.5	5.7	6.0	6.6	6.2	6.5	6.7	7.0	7.5
12H	4H	5.4	5.8	5.8	6.3	6.7	6.3	6.7	6.8	7.2	7.7
	6H	5.2	5.6	5.8	6.1	6.6	6.2	6.6	6.8	7.0	7.6
	8H	5.2	5.5	5.7	6.0	6.6	6.2	6.5	6.7	7.0	7.5

(END OF REPORT)