

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: P1590546

Luminaire Tested: HCDLS1525CSD6TRC-HI-5000K

Issue Date: 9/4/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1590546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2603928B003)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/4/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: HCDLS1525CSD6TRC-HI-5000K  
Description: 6" Selectable Round Trim + Specular Clear 2500 Lumens 5000K  
  
Light Source:  
Ballast/Driver: -

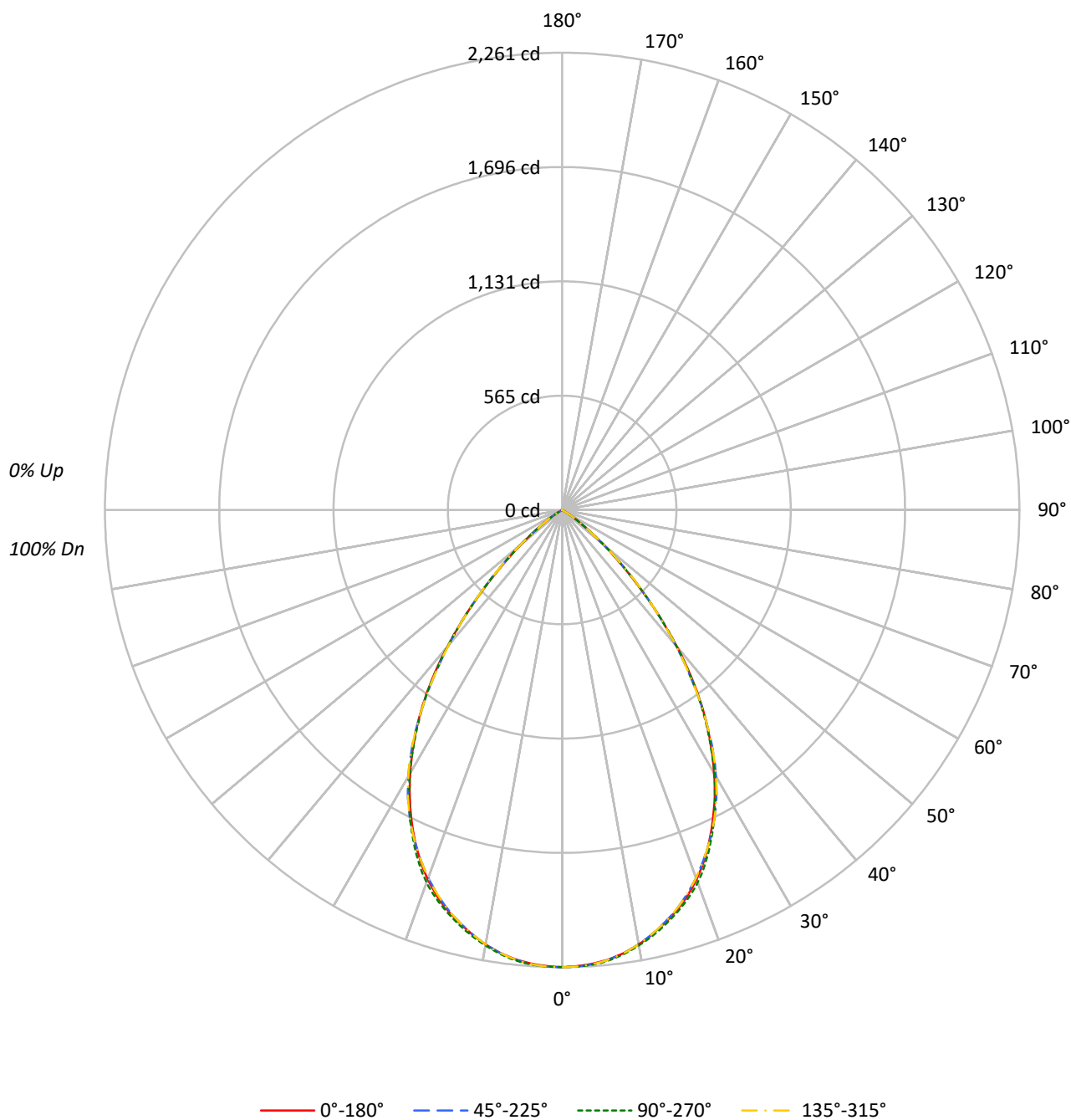
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2873.4 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.4  
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: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**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 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 98  | 97  |  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  |  | 93  | 90  | 88  |  | 84  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  |  | 87  | 83  | 80  |  | 77  |
| 4   | 94  | 86  | 80  | 75  | 92  | 85  | 79  | 75  | 83  | 78  | 74  |  | 80  | 76  | 73  |  | 70  |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 77  | 71  | 67  |  | 75  | 70  | 67  |  | 64  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 61  |  | 70  | 65  | 61  |  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 56  |  | 65  | 60  | 56  |  | 54  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  |  | 61  | 56  | 52  |  | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 52  | 48  |  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  |  | 54  | 48  | 45  |  | 43  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°    | 180°   | 270°   |
|-----|--------|--------|--------|--------|
| 0°  | 123926 | 123926 | 123926 | 123926 |
| 5°  | 123321 | 123624 | 123321 | 123624 |
| 10° | 121407 | 121719 | 121407 | 121719 |
| 15° | 118105 | 118650 | 118105 | 118650 |
| 20° | 113375 | 114372 | 113375 | 114372 |
| 25° | 105587 | 106391 | 105587 | 106391 |
| 30° | 95110  | 95299  | 95110  | 95299  |
| 35° | 81573  | 81144  | 81573  | 81144  |
| 40° | 63204  | 63176  | 63204  | 63176  |
| 45° | 41904  | 42012  | 41904  | 42012  |
| 50° | 22703  | 23257  | 22703  | 23257  |
| 55° | 9290   | 9214   | 9290   | 9214   |
| 60° | 1042   | 866    | 1042   | 866    |
| 65° | 143    | 104    | 143    | 104    |
| 70° | 64     | 32     | 64     | 32     |
| 75° | 21     | 0      | 21     | 0      |
| 80° | 0      | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 42555 cd/sqm

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 212.2  | 7.4       |
| 10°-20°   | 584.8  | 20.4      |
| 20°-30°   | 801.7  | 27.9      |
| 30°-40°   | 751.9  | 26.2      |
| 40°-50°   | 423.1  | 14.7      |
| 50°-60°   | 96.3   | 3.4       |
| 60°-70°   | 1.7    | 0.1       |
| 70°-80°   | 0.1    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.1    | 0.0       |
| 130°-140° | 0.3    | 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°    | 1598.7 | 55.6      |
| 0°-40°    | 2350.6 | 81.8      |
| 0°-60°    | 2870.0 | 99.9      |
| 0°-90°    | 2871.7 | 99.9      |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.9    | 0.0       |
| 90°-180°  | 2.0    | 0.1       |
| 0°-180°   | 2873.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2261 | 2261 | 2261 | 2261 | 2261 |      |
| 5°   | 2241 | 2246 | 2241 | 2246 | 2241 | 212  |
| 15°  | 2081 | 2091 | 2081 | 2091 | 2081 | 585  |
| 25°  | 1746 | 1759 | 1746 | 1759 | 1746 | 798  |
| 35°  | 1219 | 1212 | 1219 | 1212 | 1219 | 752  |
| 45°  | 540  | 542  | 540  | 542  | 540  | 420  |
| 55°  | 97   | 96   | 97   | 96   | 97   | 97   |
| 65°  | 1    | 1    | 1    | 1    | 1    | 2    |
| 75°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 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    | 1    | 1    | 1    | 1    | 0    |
| 175° | 1    | 1    | 1    | 1    | 1    | 0    |
| 180° | 1    | 1    | 1    | 1    | 1    |      |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 |
| 0.5°  | 2259.6 | 2260.1 | 2261.1 | 2260.9 | 2260.3 | 2260.9 | 2261.1 | 2260.1 | 2259.6 | 2260.1 | 2261.1 |
| 1°    | 2259.1 | 2259.4 | 2260.6 | 2260.5 | 2259.8 | 2260.5 | 2260.6 | 2259.4 | 2259.1 | 2259.4 | 2260.6 |
| 1.5°  | 2257.9 | 2258.5 | 2259.6 | 2259.8 | 2259.3 | 2259.8 | 2259.6 | 2258.5 | 2257.9 | 2258.5 | 2259.6 |
| 2°    | 2256.6 | 2257.2 | 2258.6 | 2258.8 | 2258.6 | 2258.8 | 2258.6 | 2257.2 | 2256.6 | 2257.2 | 2258.6 |
| 2.5°  | 2254.9 | 2255.5 | 2256.9 | 2257.5 | 2257.5 | 2257.5 | 2256.9 | 2255.5 | 2254.9 | 2255.5 | 2256.9 |
| 3°    | 2252.9 | 2253.5 | 2254.9 | 2255.7 | 2256.3 | 2255.7 | 2254.9 | 2253.5 | 2252.9 | 2253.5 | 2254.9 |
| 3.5°  | 2250.4 | 2251.1 | 2252.5 | 2253.7 | 2254.4 | 2253.7 | 2252.5 | 2251.1 | 2250.4 | 2251.1 | 2252.5 |
| 4°    | 2247.5 | 2248.5 | 2249.7 | 2251.0 | 2252.4 | 2251.0 | 2249.7 | 2248.5 | 2247.5 | 2248.5 | 2249.7 |
| 4.5°  | 2244.6 | 2245.2 | 2246.8 | 2248.0 | 2249.6 | 2248.0 | 2246.8 | 2245.2 | 2244.6 | 2245.2 | 2246.8 |
| 5°    | 2241.0 | 2241.7 | 2243.2 | 2244.6 | 2246.5 | 2244.6 | 2243.2 | 2241.7 | 2241.0 | 2241.7 | 2243.2 |
| 5.5°  | 2237.1 | 2237.8 | 2238.9 | 2240.3 | 2242.6 | 2240.3 | 2238.9 | 2237.8 | 2237.1 | 2237.8 | 2238.9 |
| 6°    | 2232.6 | 2233.6 | 2234.3 | 2235.6 | 2238.2 | 2235.6 | 2234.3 | 2233.6 | 2232.6 | 2233.6 | 2234.3 |
| 6.5°  | 2227.7 | 2229.1 | 2229.2 | 2230.4 | 2233.3 | 2230.4 | 2229.2 | 2229.1 | 2227.7 | 2229.1 | 2229.2 |
| 7°    | 2222.7 | 2223.8 | 2223.5 | 2224.7 | 2227.8 | 2224.7 | 2223.5 | 2223.8 | 2222.7 | 2223.8 | 2223.5 |
| 7.5°  | 2216.9 | 2218.3 | 2217.6 | 2218.5 | 2221.6 | 2218.5 | 2217.6 | 2218.3 | 2216.9 | 2218.3 | 2217.6 |
| 8°    | 2210.7 | 2212.1 | 2211.2 | 2212.0 | 2215.5 | 2212.0 | 2211.2 | 2212.1 | 2210.7 | 2212.1 | 2211.2 |
| 8.5°  | 2203.9 | 2205.7 | 2204.4 | 2205.1 | 2208.8 | 2205.1 | 2204.4 | 2205.7 | 2203.9 | 2205.7 | 2204.4 |
| 9°    | 2196.8 | 2198.5 | 2196.9 | 2197.9 | 2201.6 | 2197.9 | 2196.9 | 2198.5 | 2196.8 | 2198.5 | 2196.9 |
| 9.5°  | 2188.9 | 2190.9 | 2189.1 | 2190.5 | 2194.6 | 2190.5 | 2189.1 | 2190.9 | 2188.9 | 2190.9 | 2189.1 |
| 10°   | 2181.0 | 2182.8 | 2180.5 | 2182.6 | 2186.6 | 2182.6 | 2180.5 | 2182.8 | 2181.0 | 2182.8 | 2180.5 |
| 10.5° | 2172.3 | 2173.8 | 2171.6 | 2174.7 | 2178.5 | 2174.7 | 2171.6 | 2173.8 | 2172.3 | 2173.8 | 2171.6 |
| 11°   | 2163.3 | 2164.6 | 2162.4 | 2166.2 | 2170.1 | 2166.2 | 2162.4 | 2164.6 | 2163.3 | 2164.6 | 2162.4 |
| 11.5° | 2154.1 | 2155.0 | 2152.8 | 2157.5 | 2161.2 | 2157.5 | 2152.8 | 2155.0 | 2154.1 | 2155.0 | 2152.8 |
| 12°   | 2144.5 | 2145.0 | 2142.9 | 2148.5 | 2151.9 | 2148.5 | 2142.9 | 2145.0 | 2144.5 | 2145.0 | 2142.9 |
| 12.5° | 2134.4 | 2134.4 | 2132.6 | 2139.2 | 2142.3 | 2139.2 | 2132.6 | 2134.4 | 2134.4 | 2134.4 | 2132.6 |
| 13°   | 2124.3 | 2123.8 | 2122.1 | 2129.5 | 2132.9 | 2129.5 | 2122.1 | 2123.8 | 2124.3 | 2123.8 | 2122.1 |
| 13.5° | 2113.8 | 2112.6 | 2111.4 | 2119.8 | 2122.8 | 2119.8 | 2111.4 | 2112.6 | 2113.8 | 2112.6 | 2111.4 |
| 14°   | 2103.2 | 2101.5 | 2100.3 | 2109.3 | 2112.2 | 2109.3 | 2100.3 | 2101.5 | 2103.2 | 2101.5 | 2100.3 |
| 14.5° | 2092.5 | 2089.6 | 2088.9 | 2098.4 | 2101.6 | 2098.4 | 2088.9 | 2089.6 | 2092.5 | 2089.6 | 2088.9 |
| 15°   | 2081.0 | 2077.8 | 2077.2 | 2087.1 | 2090.6 | 2087.1 | 2077.2 | 2077.8 | 2081.0 | 2077.8 | 2077.2 |
| 15.5° | 2069.3 | 2065.5 | 2065.3 | 2075.8 | 2079.4 | 2075.8 | 2065.3 | 2065.5 | 2069.3 | 2065.5 | 2065.3 |
| 16°   | 2057.4 | 2053.2 | 2053.1 | 2063.3 | 2067.7 | 2063.3 | 2053.1 | 2053.2 | 2057.4 | 2053.2 | 2053.1 |
| 16.5° | 2045.4 | 2039.7 | 2040.0 | 2050.5 | 2056.2 | 2050.5 | 2040.0 | 2039.7 | 2045.4 | 2039.7 | 2040.0 |
| 17°   | 2033.1 | 2026.5 | 2026.3 | 2037.2 | 2044.0 | 2037.2 | 2026.3 | 2026.5 | 2033.1 | 2026.5 | 2026.3 |
| 17.5° | 2019.5 | 2013.1 | 2012.4 | 2023.3 | 2031.5 | 2023.3 | 2012.4 | 2013.1 | 2019.5 | 2013.1 | 2012.4 |
| 18°   | 2005.4 | 1999.0 | 1998.1 | 2009.0 | 2018.4 | 2009.0 | 1998.1 | 1999.0 | 2005.4 | 1999.0 | 1998.1 |
| 18.5° | 1990.6 | 1984.3 | 1983.3 | 1994.6 | 2004.7 | 1994.6 | 1983.3 | 1984.3 | 1990.6 | 1984.3 | 1983.3 |
| 19°   | 1975.6 | 1969.4 | 1967.7 | 1980.0 | 1990.6 | 1980.0 | 1967.7 | 1969.4 | 1975.6 | 1969.4 | 1967.7 |
| 19.5° | 1959.6 | 1953.7 | 1951.8 | 1964.9 | 1976.2 | 1964.9 | 1951.8 | 1953.7 | 1959.6 | 1953.7 | 1951.8 |
| 20°   | 1943.4 | 1937.7 | 1935.7 | 1948.8 | 1960.5 | 1948.8 | 1935.7 | 1937.7 | 1943.4 | 1937.7 | 1935.7 |
| 20.5° | 1926.2 | 1921.1 | 1919.1 | 1932.3 | 1943.2 | 1932.3 | 1919.1 | 1921.1 | 1926.2 | 1921.1 | 1919.1 |
| 21°   | 1908.8 | 1903.8 | 1901.8 | 1914.8 | 1925.7 | 1914.8 | 1901.8 | 1903.8 | 1908.8 | 1903.8 | 1901.8 |
| 21.5° | 1890.7 | 1886.0 | 1884.0 | 1897.0 | 1907.0 | 1897.0 | 1884.0 | 1886.0 | 1890.7 | 1886.0 | 1884.0 |
| 22°   | 1871.5 | 1867.8 | 1866.1 | 1878.2 | 1887.6 | 1878.2 | 1866.1 | 1867.8 | 1871.5 | 1867.8 | 1866.1 |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1851.7 | 1848.7 | 1848.2 | 1859.5 | 1867.3 | 1859.5 | 1848.2 | 1848.7 | 1851.7 | 1848.7 | 1848.2 |
| 23°   | 1831.5 | 1829.7 | 1829.7 | 1840.1 | 1846.8 | 1840.1 | 1829.7 | 1829.7 | 1831.5 | 1829.7 | 1829.7 |
| 23.5° | 1810.8 | 1810.0 | 1811.1 | 1820.1 | 1825.7 | 1820.1 | 1811.1 | 1810.0 | 1810.8 | 1810.0 | 1811.1 |
| 24°   | 1789.3 | 1790.3 | 1792.5 | 1800.1 | 1803.9 | 1800.1 | 1792.5 | 1790.3 | 1789.3 | 1790.3 | 1792.5 |
| 24.5° | 1767.7 | 1770.0 | 1773.1 | 1779.4 | 1781.4 | 1779.4 | 1773.1 | 1770.0 | 1767.7 | 1770.0 | 1773.1 |
| 25°   | 1745.6 | 1749.4 | 1753.3 | 1758.2 | 1758.9 | 1758.2 | 1753.3 | 1749.4 | 1745.6 | 1749.4 | 1753.3 |
| 25.5° | 1723.2 | 1728.4 | 1733.1 | 1736.5 | 1735.2 | 1736.5 | 1733.1 | 1728.4 | 1723.2 | 1728.4 | 1733.1 |
| 26°   | 1700.5 | 1707.0 | 1712.3 | 1714.3 | 1711.5 | 1714.3 | 1712.3 | 1707.0 | 1700.5 | 1707.0 | 1712.3 |
| 26.5° | 1677.2 | 1685.2 | 1690.8 | 1691.8 | 1686.9 | 1691.8 | 1690.8 | 1685.2 | 1677.2 | 1685.2 | 1690.8 |
| 27°   | 1653.7 | 1662.7 | 1668.8 | 1668.7 | 1662.3 | 1668.7 | 1668.8 | 1662.7 | 1653.7 | 1662.7 | 1668.8 |
| 27.5° | 1629.9 | 1639.5 | 1646.1 | 1645.3 | 1637.4 | 1645.3 | 1646.1 | 1639.5 | 1629.9 | 1639.5 | 1646.1 |
| 28°   | 1605.8 | 1615.8 | 1622.6 | 1620.8 | 1611.4 | 1620.8 | 1622.6 | 1615.8 | 1605.8 | 1615.8 | 1622.6 |
| 28.5° | 1580.4 | 1591.5 | 1598.6 | 1595.9 | 1585.8 | 1595.9 | 1598.6 | 1591.5 | 1580.4 | 1591.5 | 1598.6 |
| 29°   | 1555.1 | 1566.7 | 1573.8 | 1570.3 | 1559.7 | 1570.3 | 1573.8 | 1566.7 | 1555.1 | 1566.7 | 1573.8 |
| 29.5° | 1529.0 | 1541.1 | 1548.4 | 1544.2 | 1533.3 | 1544.2 | 1548.4 | 1541.1 | 1529.0 | 1541.1 | 1548.4 |
| 30°   | 1502.5 | 1514.7 | 1521.7 | 1517.2 | 1505.5 | 1517.2 | 1521.7 | 1514.7 | 1502.5 | 1514.7 | 1521.7 |
| 30.5° | 1476.1 | 1488.1 | 1494.4 | 1489.3 | 1478.0 | 1489.3 | 1494.4 | 1488.1 | 1476.1 | 1488.1 | 1494.4 |
| 31°   | 1448.9 | 1460.6 | 1466.5 | 1460.8 | 1449.2 | 1460.8 | 1466.5 | 1460.6 | 1448.9 | 1460.6 | 1466.5 |
| 31.5° | 1421.4 | 1432.6 | 1437.7 | 1432.2 | 1420.5 | 1432.2 | 1437.7 | 1432.6 | 1421.4 | 1432.6 | 1437.7 |
| 32°   | 1393.3 | 1403.5 | 1407.7 | 1402.7 | 1391.7 | 1402.7 | 1407.7 | 1403.5 | 1393.3 | 1403.5 | 1407.7 |
| 32.5° | 1365.4 | 1374.9 | 1377.6 | 1372.9 | 1362.4 | 1372.9 | 1377.6 | 1374.9 | 1365.4 | 1374.9 | 1377.6 |
| 33°   | 1336.7 | 1344.5 | 1346.5 | 1342.6 | 1332.9 | 1342.6 | 1346.5 | 1344.5 | 1336.7 | 1344.5 | 1346.5 |
| 33.5° | 1308.8 | 1314.4 | 1315.4 | 1311.5 | 1302.9 | 1311.5 | 1315.4 | 1314.4 | 1308.8 | 1314.4 | 1315.4 |
| 34°   | 1278.7 | 1283.3 | 1282.8 | 1280.6 | 1273.3 | 1280.6 | 1282.8 | 1283.3 | 1278.7 | 1283.3 | 1282.8 |
| 34.5° | 1249.2 | 1252.3 | 1250.5 | 1248.4 | 1243.1 | 1248.4 | 1250.5 | 1252.3 | 1249.2 | 1252.3 | 1250.5 |
| 35°   | 1218.9 | 1219.6 | 1217.0 | 1216.4 | 1212.5 | 1216.4 | 1217.0 | 1219.6 | 1218.9 | 1219.6 | 1217.0 |
| 35.5° | 1188.1 | 1187.2 | 1183.4 | 1183.8 | 1182.0 | 1183.8 | 1183.4 | 1187.2 | 1188.1 | 1187.2 | 1183.4 |
| 36°   | 1155.9 | 1154.3 | 1149.1 | 1151.0 | 1150.9 | 1151.0 | 1149.1 | 1154.3 | 1155.9 | 1154.3 | 1149.1 |
| 36.5° | 1124.0 | 1121.2 | 1115.2 | 1117.8 | 1119.7 | 1117.8 | 1115.2 | 1121.2 | 1124.0 | 1121.2 | 1115.2 |
| 37°   | 1091.3 | 1087.3 | 1080.0 | 1085.0 | 1087.2 | 1085.0 | 1080.0 | 1087.3 | 1091.3 | 1087.3 | 1080.0 |
| 37.5° | 1057.7 | 1053.4 | 1045.4 | 1051.5 | 1053.8 | 1051.5 | 1045.4 | 1053.4 | 1057.7 | 1053.4 | 1045.4 |
| 38°   | 1023.6 | 1019.1 | 1011.1 | 1017.6 | 1018.6 | 1017.6 | 1011.1 | 1019.1 | 1023.6 | 1019.1 | 1011.1 |
| 38.5° | 989.7  | 984.9  | 976.7  | 983.3  | 984.4  | 983.3  | 976.7  | 984.9  | 989.7  | 984.9  | 976.7  |
| 39°   | 955.0  | 948.8  | 942.6  | 949.0  | 950.4  | 949.0  | 942.6  | 948.8  | 955.0  | 948.8  | 942.6  |
| 39.5° | 918.9  | 914.1  | 908.8  | 914.7  | 916.5  | 914.7  | 908.8  | 914.1  | 918.9  | 914.1  | 908.8  |
| 40°   | 883.2  | 880.0  | 875.0  | 880.0  | 882.8  | 880.0  | 875.0  | 880.0  | 883.2  | 880.0  | 875.0  |
| 40.5° | 847.9  | 846.0  | 841.4  | 845.4  | 848.8  | 845.4  | 841.4  | 846.0  | 847.9  | 846.0  | 841.4  |
| 41°   | 812.1  | 812.0  | 807.4  | 810.7  | 813.7  | 810.7  | 807.4  | 812.0  | 812.1  | 812.0  | 807.4  |
| 41.5° | 776.7  | 777.7  | 773.3  | 776.5  | 778.8  | 776.5  | 773.3  | 777.7  | 776.7  | 777.7  | 773.3  |
| 42°   | 741.5  | 743.0  | 739.9  | 742.5  | 744.0  | 742.5  | 739.9  | 743.0  | 741.5  | 743.0  | 739.9  |
| 42.5° | 706.9  | 708.8  | 707.1  | 709.6  | 709.2  | 709.6  | 707.1  | 708.8  | 706.9  | 708.8  | 707.1  |
| 43°   | 672.7  | 674.3  | 674.7  | 676.7  | 674.4  | 676.7  | 674.7  | 674.3  | 672.7  | 674.3  | 674.7  |
| 43.5° | 639.0  | 640.9  | 642.4  | 643.9  | 639.9  | 643.9  | 642.4  | 640.9  | 639.0  | 640.9  | 642.4  |
| 44°   | 605.8  | 607.1  | 610.2  | 611.7  | 606.5  | 611.7  | 610.2  | 607.1  | 605.8  | 607.1  | 610.2  |
| 44.5° | 572.7  | 574.9  | 579.2  | 580.7  | 574.0  | 580.7  | 579.2  | 574.9  | 572.7  | 574.9  | 579.2  |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 540.5 | 543.1 | 548.6 | 548.9 | 541.9 | 548.9  | 548.6 | 543.1  | 540.5 | 543.1  | 548.6 |
| 45.5° | 508.5 | 512.2 | 518.2 | 517.7 | 510.9 | 517.7  | 518.2 | 512.2  | 508.5 | 512.2  | 518.2 |
| 46°   | 477.3 | 481.7 | 487.8 | 487.5 | 480.3 | 487.5  | 487.8 | 481.7  | 477.3 | 481.7  | 487.8 |
| 46.5° | 447.1 | 452.2 | 458.1 | 458.0 | 451.0 | 458.0  | 458.1 | 452.2  | 447.1 | 452.2  | 458.1 |
| 47°   | 417.8 | 423.3 | 428.9 | 429.1 | 422.5 | 429.1  | 428.9 | 423.3  | 417.8 | 423.3  | 428.9 |
| 47.5° | 389.5 | 395.0 | 400.2 | 401.0 | 395.0 | 401.0  | 400.2 | 395.0  | 389.5 | 395.0  | 400.2 |
| 48°   | 362.0 | 367.6 | 372.3 | 373.3 | 368.2 | 373.3  | 372.3 | 367.6  | 362.0 | 367.6  | 372.3 |
| 48.5° | 336.0 | 341.1 | 345.0 | 347.0 | 342.6 | 347.0  | 345.0 | 341.1  | 336.0 | 341.1  | 345.0 |
| 49°   | 311.4 | 315.6 | 318.8 | 321.2 | 317.9 | 321.2  | 318.8 | 315.6  | 311.4 | 315.6  | 318.8 |
| 49.5° | 288.5 | 291.8 | 294.2 | 296.8 | 294.6 | 296.8  | 294.2 | 291.8  | 288.5 | 291.8  | 294.2 |
| 50°   | 266.2 | 268.8 | 270.7 | 273.7 | 272.7 | 273.7  | 270.7 | 268.8  | 266.2 | 268.8  | 270.7 |
| 50.5° | 244.3 | 246.0 | 247.6 | 251.1 | 251.2 | 251.1  | 247.6 | 246.0  | 244.3 | 246.0  | 247.6 |
| 51°   | 223.2 | 224.0 | 224.9 | 228.9 | 230.1 | 228.9  | 224.9 | 224.0  | 223.2 | 224.0  | 224.9 |
| 51.5° | 204.4 | 203.3 | 203.1 | 208.2 | 209.7 | 208.2  | 203.1 | 203.3  | 204.4 | 203.3  | 203.1 |
| 52°   | 186.0 | 184.5 | 183.1 | 188.2 | 189.8 | 188.2  | 183.1 | 184.5  | 186.0 | 184.5  | 183.1 |
| 52.5° | 169.0 | 166.7 | 164.6 | 169.9 | 171.5 | 169.9  | 164.6 | 166.7  | 169.0 | 166.7  | 164.6 |
| 53°   | 153.0 | 150.2 | 147.6 | 153.2 | 154.7 | 153.2  | 147.6 | 150.2  | 153.0 | 150.2  | 147.6 |
| 53.5° | 137.8 | 134.9 | 132.3 | 137.4 | 138.3 | 137.4  | 132.3 | 134.9  | 137.8 | 134.9  | 132.3 |
| 54°   | 123.3 | 120.6 | 118.2 | 122.5 | 123.4 | 122.5  | 118.2 | 120.6  | 123.3 | 120.6  | 118.2 |
| 54.5° | 110.0 | 107.3 | 105.1 | 108.7 | 109.4 | 108.7  | 105.1 | 107.3  | 110.0 | 107.3  | 105.1 |
| 55°   | 97.2  | 95.1  | 93.1  | 95.8  | 96.4  | 95.8   | 93.1  | 95.1   | 97.2  | 95.1   | 93.1  |
| 55.5° | 85.3  | 83.6  | 82.3  | 83.8  | 84.0  | 83.8   | 82.3  | 83.6   | 85.3  | 83.6   | 82.3  |
| 56°   | 74.8  | 73.5  | 72.0  | 73.3  | 73.2  | 73.3   | 72.0  | 73.5   | 74.8  | 73.5   | 72.0  |
| 56.5° | 64.8  | 64.1  | 62.5  | 63.1  | 63.2  | 63.1   | 62.5  | 64.1   | 64.8  | 64.1   | 62.5  |
| 57°   | 55.4  | 54.9  | 53.2  | 53.5  | 53.9  | 53.5   | 53.2  | 54.9   | 55.4  | 54.9   | 53.2  |
| 57.5° | 46.1  | 45.9  | 44.1  | 44.1  | 44.5  | 44.1   | 44.1  | 45.9   | 46.1  | 45.9   | 44.1  |
| 58°   | 36.8  | 37.0  | 35.6  | 35.4  | 35.2  | 35.4   | 35.6  | 37.0   | 36.8  | 37.0   | 35.6  |
| 58.5° | 28.6  | 28.8  | 26.9  | 27.0  | 26.9  | 27.0   | 26.9  | 28.8   | 28.6  | 28.8   | 26.9  |
| 59°   | 20.2  | 20.7  | 18.5  | 18.7  | 18.6  | 18.7   | 18.5  | 20.7   | 20.2  | 20.7   | 18.5  |
| 59.5° | 14.1  | 14.0  | 11.7  | 11.7  | 12.4  | 11.7   | 11.7  | 14.0   | 14.1  | 14.0   | 11.7  |
| 60°   | 9.5   | 9.3   | 7.8   | 7.1   | 7.9   | 7.1    | 7.8   | 9.3    | 9.5   | 9.3    | 7.8   |
| 60.5° | 5.9   | 6.6   | 5.2   | 4.8   | 6.3   | 4.8    | 5.2   | 6.6    | 5.9   | 6.6    | 5.2   |
| 61°   | 4.9   | 5.4   | 4.1   | 3.8   | 5.1   | 3.8    | 4.1   | 5.4    | 4.9   | 5.4    | 4.1   |
| 61.5° | 4.0   | 4.3   | 3.0   | 3.0   | 3.9   | 3.0    | 3.0   | 4.3    | 4.0   | 4.3    | 3.0   |
| 62°   | 3.1   | 3.2   | 2.4   | 2.2   | 2.8   | 2.2    | 2.4   | 3.2    | 3.1   | 3.2    | 2.4   |
| 62.5° | 2.2   | 2.5   | 1.9   | 1.7   | 1.7   | 1.7    | 1.9   | 2.5    | 2.2   | 2.5    | 1.9   |
| 63°   | 1.9   | 1.9   | 1.6   | 1.5   | 1.4   | 1.5    | 1.6   | 1.9    | 1.9   | 1.9    | 1.6   |
| 63.5° | 1.7   | 1.6   | 1.4   | 1.3   | 1.2   | 1.3    | 1.4   | 1.6    | 1.7   | 1.6    | 1.4   |
| 64°   | 1.5   | 1.4   | 1.2   | 1.1   | 1.1   | 1.1    | 1.2   | 1.4    | 1.5   | 1.4    | 1.2   |
| 64.5° | 1.3   | 1.2   | 1.1   | 1.0   | 0.9   | 1.0    | 1.1   | 1.2    | 1.3   | 1.2    | 1.1   |
| 65°   | 1.1   | 1.1   | 1.0   | 0.9   | 0.8   | 0.9    | 1.0   | 1.1    | 1.1   | 1.1    | 1.0   |
| 65.5° | 1.0   | 1.0   | 0.8   | 0.8   | 0.7   | 0.8    | 0.8   | 1.0    | 1.0   | 1.0    | 0.8   |
| 66°   | 0.9   | 0.9   | 0.7   | 0.7   | 0.6   | 0.7    | 0.7   | 0.9    | 0.9   | 0.9    | 0.7   |
| 66.5° | 0.8   | 0.8   | 0.7   | 0.6   | 0.6   | 0.6    | 0.7   | 0.8    | 0.8   | 0.8    | 0.7   |
| 67°   | 0.7   | 0.7   | 0.6   | 0.5   | 0.5   | 0.5    | 0.6   | 0.7    | 0.7   | 0.7    | 0.6   |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 0.6 | 0.6   | 0.5 | 0.5   | 0.4 | 0.5    | 0.5  | 0.6    | 0.6  | 0.6    | 0.5  |
| 68°   | 0.6 | 0.5   | 0.5 | 0.4   | 0.4 | 0.4    | 0.5  | 0.5    | 0.6  | 0.5    | 0.5  |
| 68.5° | 0.5 | 0.5   | 0.4 | 0.4   | 0.3 | 0.4    | 0.4  | 0.5    | 0.5  | 0.5    | 0.4  |
| 69°   | 0.5 | 0.4   | 0.4 | 0.3   | 0.3 | 0.3    | 0.4  | 0.4    | 0.5  | 0.4    | 0.4  |
| 69.5° | 0.4 | 0.4   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.4    | 0.4  | 0.4    | 0.3  |
| 70°   | 0.4 | 0.3   | 0.3 | 0.2   | 0.2 | 0.2    | 0.3  | 0.3    | 0.4  | 0.3    | 0.3  |
| 70.5° | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  | 0.3    | 0.2  |
| 71°   | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  | 0.3    | 0.2  |
| 71.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 72°   | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 | 0.1    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 72.5° | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.2    | 0.2  | 0.2    | 0.1  |
| 73°   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.2  | 0.1    | 0.1  |
| 73.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 74°   | 0.1 | 0.1   | 0.1 | 0.0   | 0.0 | 0.0    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 74.5° | 0.1 | 0.1   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.1    | 0.1  | 0.1    | 0.0  |
| 75°   | 0.1 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.1  | 0.0    | 0.0  |
| 75.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**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    | 0.0  | 0.0    | 0.0  |
| 93°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 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    | 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: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**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°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 120.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 121°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 121.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 122°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 122.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 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    | 0.1  | 0.1    | 0.1  | 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°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 125.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 126°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 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    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 127°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 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    | 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°   | 0.3 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.3  | 0.2    | 0.2  |
| 129.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 130°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 130.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 131°   | 0.3 | 0.3   | 0.3 | 0.3   | 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    | 0.3  |
| 133°   | 0.4 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.4  | 0.3    | 0.3  |
| 133.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 134°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 134.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 135.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 136°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 136.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 137°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 137.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 138°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 138.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 139°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 139.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 140°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 140.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 141°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 141.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 142°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 142.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 143°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 143.5° | 0.7 | 0.7   | 0.7 | 0.7   | 0.6 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 144°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 144.5° | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 145°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 145.5° | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 146°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 146.5° | 0.8 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.8  | 0.7    | 0.7  |
| 147°   | 0.8 | 0.8   | 0.8 | 0.8   | 0.7 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 147.5° | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 148°   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 148.5° | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 149°   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 149.5° | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 150°   | 0.9 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.9  | 0.8    | 0.8  |
| 150.5° | 0.9 | 0.9   | 0.9 | 0.9   | 0.8 | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 151°   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 151.5° | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 152°   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 152.5° | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 153°   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 153.5° | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 154°   | 1.0 | 1.0   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 1.0    | 1.0  | 1.0    | 0.9  |
| 154.5° | 1.0 | 1.0   | 1.0 | 0.9   | 0.9 | 0.9    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 155°   | 1.0 | 1.0   | 1.0 | 1.0   | 0.9 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 155.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 156°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 156.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 157°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P1590546  
CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

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: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 | 2260.6 |
| 0.5°  | 2260.9 | 2260.3 | 2260.9 | 2261.1 | 2260.1 | 2259.6 |
| 1°    | 2260.5 | 2259.8 | 2260.5 | 2260.6 | 2259.4 | 2259.1 |
| 1.5°  | 2259.8 | 2259.3 | 2259.8 | 2259.6 | 2258.5 | 2257.9 |
| 2°    | 2258.8 | 2258.6 | 2258.8 | 2258.6 | 2257.2 | 2256.6 |
| 2.5°  | 2257.5 | 2257.5 | 2257.5 | 2256.9 | 2255.5 | 2254.9 |
| 3°    | 2255.7 | 2256.3 | 2255.7 | 2254.9 | 2253.5 | 2252.9 |
| 3.5°  | 2253.7 | 2254.4 | 2253.7 | 2252.5 | 2251.1 | 2250.4 |
| 4°    | 2251.0 | 2252.4 | 2251.0 | 2249.7 | 2248.5 | 2247.5 |
| 4.5°  | 2248.0 | 2249.6 | 2248.0 | 2246.8 | 2245.2 | 2244.6 |
| 5°    | 2244.6 | 2246.5 | 2244.6 | 2243.2 | 2241.7 | 2241.0 |
| 5.5°  | 2240.3 | 2242.6 | 2240.3 | 2238.9 | 2237.8 | 2237.1 |
| 6°    | 2235.6 | 2238.2 | 2235.6 | 2234.3 | 2233.6 | 2232.6 |
| 6.5°  | 2230.4 | 2233.3 | 2230.4 | 2229.2 | 2229.1 | 2227.7 |
| 7°    | 2224.7 | 2227.8 | 2224.7 | 2223.5 | 2223.8 | 2222.7 |
| 7.5°  | 2218.5 | 2221.6 | 2218.5 | 2217.6 | 2218.3 | 2216.9 |
| 8°    | 2212.0 | 2215.5 | 2212.0 | 2211.2 | 2212.1 | 2210.7 |
| 8.5°  | 2205.1 | 2208.8 | 2205.1 | 2204.4 | 2205.7 | 2203.9 |
| 9°    | 2197.9 | 2201.6 | 2197.9 | 2196.9 | 2198.5 | 2196.8 |
| 9.5°  | 2190.5 | 2194.6 | 2190.5 | 2189.1 | 2190.9 | 2188.9 |
| 10°   | 2182.6 | 2186.6 | 2182.6 | 2180.5 | 2182.8 | 2181.0 |
| 10.5° | 2174.7 | 2178.5 | 2174.7 | 2171.6 | 2173.8 | 2172.3 |
| 11°   | 2166.2 | 2170.1 | 2166.2 | 2162.4 | 2164.6 | 2163.3 |
| 11.5° | 2157.5 | 2161.2 | 2157.5 | 2152.8 | 2155.0 | 2154.1 |
| 12°   | 2148.5 | 2151.9 | 2148.5 | 2142.9 | 2145.0 | 2144.5 |
| 12.5° | 2139.2 | 2142.3 | 2139.2 | 2132.6 | 2134.4 | 2134.4 |
| 13°   | 2129.5 | 2132.9 | 2129.5 | 2122.1 | 2123.8 | 2124.3 |
| 13.5° | 2119.8 | 2122.8 | 2119.8 | 2111.4 | 2112.6 | 2113.8 |
| 14°   | 2109.3 | 2112.2 | 2109.3 | 2100.3 | 2101.5 | 2103.2 |
| 14.5° | 2098.4 | 2101.6 | 2098.4 | 2088.9 | 2089.6 | 2092.5 |
| 15°   | 2087.1 | 2090.6 | 2087.1 | 2077.2 | 2077.8 | 2081.0 |
| 15.5° | 2075.8 | 2079.4 | 2075.8 | 2065.3 | 2065.5 | 2069.3 |
| 16°   | 2063.3 | 2067.7 | 2063.3 | 2053.1 | 2053.2 | 2057.4 |
| 16.5° | 2050.5 | 2056.2 | 2050.5 | 2040.0 | 2039.7 | 2045.4 |
| 17°   | 2037.2 | 2044.0 | 2037.2 | 2026.3 | 2026.5 | 2033.1 |
| 17.5° | 2023.3 | 2031.5 | 2023.3 | 2012.4 | 2013.1 | 2019.5 |
| 18°   | 2009.0 | 2018.4 | 2009.0 | 1998.1 | 1999.0 | 2005.4 |
| 18.5° | 1994.6 | 2004.7 | 1994.6 | 1983.3 | 1984.3 | 1990.6 |
| 19°   | 1980.0 | 1990.6 | 1980.0 | 1967.7 | 1969.4 | 1975.6 |
| 19.5° | 1964.9 | 1976.2 | 1964.9 | 1951.8 | 1953.7 | 1959.6 |
| 20°   | 1948.8 | 1960.5 | 1948.8 | 1935.7 | 1937.7 | 1943.4 |
| 20.5° | 1932.3 | 1943.2 | 1932.3 | 1919.1 | 1921.1 | 1926.2 |
| 21°   | 1914.8 | 1925.7 | 1914.8 | 1901.8 | 1903.8 | 1908.8 |
| 21.5° | 1897.0 | 1907.0 | 1897.0 | 1884.0 | 1886.0 | 1890.7 |
| 22°   | 1878.2 | 1887.6 | 1878.2 | 1866.1 | 1867.8 | 1871.5 |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1859.5 | 1867.3 | 1859.5 | 1848.2 | 1848.7 | 1851.7 |
| 23°   | 1840.1 | 1846.8 | 1840.1 | 1829.7 | 1829.7 | 1831.5 |
| 23.5° | 1820.1 | 1825.7 | 1820.1 | 1811.1 | 1810.0 | 1810.8 |
| 24°   | 1800.1 | 1803.9 | 1800.1 | 1792.5 | 1790.3 | 1789.3 |
| 24.5° | 1779.4 | 1781.4 | 1779.4 | 1773.1 | 1770.0 | 1767.7 |
| 25°   | 1758.2 | 1758.9 | 1758.2 | 1753.3 | 1749.4 | 1745.6 |
| 25.5° | 1736.5 | 1735.2 | 1736.5 | 1733.1 | 1728.4 | 1723.2 |
| 26°   | 1714.3 | 1711.5 | 1714.3 | 1712.3 | 1707.0 | 1700.5 |
| 26.5° | 1691.8 | 1686.9 | 1691.8 | 1690.8 | 1685.2 | 1677.2 |
| 27°   | 1668.7 | 1662.3 | 1668.7 | 1668.8 | 1662.7 | 1653.7 |
| 27.5° | 1645.3 | 1637.4 | 1645.3 | 1646.1 | 1639.5 | 1629.9 |
| 28°   | 1620.8 | 1611.4 | 1620.8 | 1622.6 | 1615.8 | 1605.8 |
| 28.5° | 1595.9 | 1585.8 | 1595.9 | 1598.6 | 1591.5 | 1580.4 |
| 29°   | 1570.3 | 1559.7 | 1570.3 | 1573.8 | 1566.7 | 1555.1 |
| 29.5° | 1544.2 | 1533.3 | 1544.2 | 1548.4 | 1541.1 | 1529.0 |
| 30°   | 1517.2 | 1505.5 | 1517.2 | 1521.7 | 1514.7 | 1502.5 |
| 30.5° | 1489.3 | 1478.0 | 1489.3 | 1494.4 | 1488.1 | 1476.1 |
| 31°   | 1460.8 | 1449.2 | 1460.8 | 1466.5 | 1460.6 | 1448.9 |
| 31.5° | 1432.2 | 1420.5 | 1432.2 | 1437.7 | 1432.6 | 1421.4 |
| 32°   | 1402.7 | 1391.7 | 1402.7 | 1407.7 | 1403.5 | 1393.3 |
| 32.5° | 1372.9 | 1362.4 | 1372.9 | 1377.6 | 1374.9 | 1365.4 |
| 33°   | 1342.6 | 1332.9 | 1342.6 | 1346.5 | 1344.5 | 1336.7 |
| 33.5° | 1311.5 | 1302.9 | 1311.5 | 1315.4 | 1314.4 | 1308.8 |
| 34°   | 1280.6 | 1273.3 | 1280.6 | 1282.8 | 1283.3 | 1278.7 |
| 34.5° | 1248.4 | 1243.1 | 1248.4 | 1250.5 | 1252.3 | 1249.2 |
| 35°   | 1216.4 | 1212.5 | 1216.4 | 1217.0 | 1219.6 | 1218.9 |
| 35.5° | 1183.8 | 1182.0 | 1183.8 | 1183.4 | 1187.2 | 1188.1 |
| 36°   | 1151.0 | 1150.9 | 1151.0 | 1149.1 | 1154.3 | 1155.9 |
| 36.5° | 1117.8 | 1119.7 | 1117.8 | 1115.2 | 1121.2 | 1124.0 |
| 37°   | 1085.0 | 1087.2 | 1085.0 | 1080.0 | 1087.3 | 1091.3 |
| 37.5° | 1051.5 | 1053.8 | 1051.5 | 1045.4 | 1053.4 | 1057.7 |
| 38°   | 1017.6 | 1018.6 | 1017.6 | 1011.1 | 1019.1 | 1023.6 |
| 38.5° | 983.3  | 984.4  | 983.3  | 976.7  | 984.9  | 989.7  |
| 39°   | 949.0  | 950.4  | 949.0  | 942.6  | 948.8  | 955.0  |
| 39.5° | 914.7  | 916.5  | 914.7  | 908.8  | 914.1  | 918.9  |
| 40°   | 880.0  | 882.8  | 880.0  | 875.0  | 880.0  | 883.2  |
| 40.5° | 845.4  | 848.8  | 845.4  | 841.4  | 846.0  | 847.9  |
| 41°   | 810.7  | 813.7  | 810.7  | 807.4  | 812.0  | 812.1  |
| 41.5° | 776.5  | 778.8  | 776.5  | 773.3  | 777.7  | 776.7  |
| 42°   | 742.5  | 744.0  | 742.5  | 739.9  | 743.0  | 741.5  |
| 42.5° | 709.6  | 709.2  | 709.6  | 707.1  | 708.8  | 706.9  |
| 43°   | 676.7  | 674.4  | 676.7  | 674.7  | 674.3  | 672.7  |
| 43.5° | 643.9  | 639.9  | 643.9  | 642.4  | 640.9  | 639.0  |
| 44°   | 611.7  | 606.5  | 611.7  | 610.2  | 607.1  | 605.8  |
| 44.5° | 580.7  | 574.0  | 580.7  | 579.2  | 574.9  | 572.7  |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 548.9  | 541.9 | 548.9  | 548.6 | 543.1  | 540.5 |
| 45.5° | 517.7  | 510.9 | 517.7  | 518.2 | 512.2  | 508.5 |
| 46°   | 487.5  | 480.3 | 487.5  | 487.8 | 481.7  | 477.3 |
| 46.5° | 458.0  | 451.0 | 458.0  | 458.1 | 452.2  | 447.1 |
| 47°   | 429.1  | 422.5 | 429.1  | 428.9 | 423.3  | 417.8 |
| 47.5° | 401.0  | 395.0 | 401.0  | 400.2 | 395.0  | 389.5 |
| 48°   | 373.3  | 368.2 | 373.3  | 372.3 | 367.6  | 362.0 |
| 48.5° | 347.0  | 342.6 | 347.0  | 345.0 | 341.1  | 336.0 |
| 49°   | 321.2  | 317.9 | 321.2  | 318.8 | 315.6  | 311.4 |
| 49.5° | 296.8  | 294.6 | 296.8  | 294.2 | 291.8  | 288.5 |
| 50°   | 273.7  | 272.7 | 273.7  | 270.7 | 268.8  | 266.2 |
| 50.5° | 251.1  | 251.2 | 251.1  | 247.6 | 246.0  | 244.3 |
| 51°   | 228.9  | 230.1 | 228.9  | 224.9 | 224.0  | 223.2 |
| 51.5° | 208.2  | 209.7 | 208.2  | 203.1 | 203.3  | 204.4 |
| 52°   | 188.2  | 189.8 | 188.2  | 183.1 | 184.5  | 186.0 |
| 52.5° | 169.9  | 171.5 | 169.9  | 164.6 | 166.7  | 169.0 |
| 53°   | 153.2  | 154.7 | 153.2  | 147.6 | 150.2  | 153.0 |
| 53.5° | 137.4  | 138.3 | 137.4  | 132.3 | 134.9  | 137.8 |
| 54°   | 122.5  | 123.4 | 122.5  | 118.2 | 120.6  | 123.3 |
| 54.5° | 108.7  | 109.4 | 108.7  | 105.1 | 107.3  | 110.0 |
| 55°   | 95.8   | 96.4  | 95.8   | 93.1  | 95.1   | 97.2  |
| 55.5° | 83.8   | 84.0  | 83.8   | 82.3  | 83.6   | 85.3  |
| 56°   | 73.3   | 73.2  | 73.3   | 72.0  | 73.5   | 74.8  |
| 56.5° | 63.1   | 63.2  | 63.1   | 62.5  | 64.1   | 64.8  |
| 57°   | 53.5   | 53.9  | 53.5   | 53.2  | 54.9   | 55.4  |
| 57.5° | 44.1   | 44.5  | 44.1   | 44.1  | 45.9   | 46.1  |
| 58°   | 35.4   | 35.2  | 35.4   | 35.6  | 37.0   | 36.8  |
| 58.5° | 27.0   | 26.9  | 27.0   | 26.9  | 28.8   | 28.6  |
| 59°   | 18.7   | 18.6  | 18.7   | 18.5  | 20.7   | 20.2  |
| 59.5° | 11.7   | 12.4  | 11.7   | 11.7  | 14.0   | 14.1  |
| 60°   | 7.1    | 7.9   | 7.1    | 7.8   | 9.3    | 9.5   |
| 60.5° | 4.8    | 6.3   | 4.8    | 5.2   | 6.6    | 5.9   |
| 61°   | 3.8    | 5.1   | 3.8    | 4.1   | 5.4    | 4.9   |
| 61.5° | 3.0    | 3.9   | 3.0    | 3.0   | 4.3    | 4.0   |
| 62°   | 2.2    | 2.8   | 2.2    | 2.4   | 3.2    | 3.1   |
| 62.5° | 1.7    | 1.7   | 1.7    | 1.9   | 2.5    | 2.2   |
| 63°   | 1.5    | 1.4   | 1.5    | 1.6   | 1.9    | 1.9   |
| 63.5° | 1.3    | 1.2   | 1.3    | 1.4   | 1.6    | 1.7   |
| 64°   | 1.1    | 1.1   | 1.1    | 1.2   | 1.4    | 1.5   |
| 64.5° | 1.0    | 0.9   | 1.0    | 1.1   | 1.2    | 1.3   |
| 65°   | 0.9    | 0.8   | 0.9    | 1.0   | 1.1    | 1.1   |
| 65.5° | 0.8    | 0.7   | 0.8    | 0.8   | 1.0    | 1.0   |
| 66°   | 0.7    | 0.6   | 0.7    | 0.7   | 0.9    | 0.9   |
| 66.5° | 0.6    | 0.6   | 0.6    | 0.7   | 0.8    | 0.8   |
| 67°   | 0.5    | 0.5   | 0.5    | 0.6   | 0.7    | 0.7   |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 0.5    | 0.4  | 0.5    | 0.5  | 0.6    | 0.6  |
| 68°   | 0.4    | 0.4  | 0.4    | 0.5  | 0.5    | 0.6  |
| 68.5° | 0.4    | 0.3  | 0.4    | 0.4  | 0.5    | 0.5  |
| 69°   | 0.3    | 0.3  | 0.3    | 0.4  | 0.4    | 0.5  |
| 69.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.4    | 0.4  |
| 70°   | 0.2    | 0.2  | 0.2    | 0.3  | 0.3    | 0.4  |
| 70.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.3    | 0.3  |
| 71°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.3    | 0.3  |
| 71.5° | 0.2    | 0.1  | 0.2    | 0.2  | 0.2    | 0.2  |
| 72°   | 0.1    | 0.1  | 0.1    | 0.2  | 0.2    | 0.2  |
| 72.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.2    | 0.2  |
| 73°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.2  |
| 73.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 74°   | 0.0    | 0.0  | 0.0    | 0.1  | 0.1    | 0.1  |
| 74.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.1    | 0.1  |
| 75°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.1  |
| 75.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83.5° | 0.0    | 0.0  | 0.0    | 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: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**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: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**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°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 120.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 121°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 121.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 122°   | 0.1    | 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°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 125.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 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    | 0.3  |
| 129.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 130°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 130.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 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° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 133°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.4  |
| 133.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 134°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 134.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 135.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 136°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 136.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 137°   | 0.5    | 0.4  | 0.5    | 0.5  | 0.5    | 0.5  |
| 137.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 138°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 138.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 139°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 139.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 140°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 140.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 141°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 141.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 142°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 142.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 143°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 143.5° | 0.7    | 0.6  | 0.7    | 0.7  | 0.7    | 0.7  |
| 144°   | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 144.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 145°   | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 145.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 146°   | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 146.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.8  |
| 147°   | 0.8    | 0.7  | 0.8    | 0.8  | 0.8    | 0.8  |
| 147.5° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 148°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 148.5° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 149°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 149.5° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 150°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.9  |
| 150.5° | 0.9    | 0.8  | 0.9    | 0.9  | 0.9    | 0.9  |
| 151°   | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 151.5° | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 152°   | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 152.5° | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 153°   | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 153.5° | 0.9    | 0.9  | 0.9    | 0.9  | 0.9    | 0.9  |
| 154°   | 0.9    | 0.9  | 0.9    | 0.9  | 1.0    | 1.0  |
| 154.5° | 0.9    | 0.9  | 0.9    | 1.0  | 1.0    | 1.0  |
| 155°   | 1.0    | 0.9  | 1.0    | 1.0  | 1.0    | 1.0  |
| 155.5° | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 156°   | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 156.5° | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 157°   | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |

TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**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: P1590546

CATALOG NUMBER: HCDLS1525CSD6TRC-HI-5000K

**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 | 9.6              | 10.7 | 10.0 | 11.0 | 11.3 | 9.3            | 10.4 | 9.7 | 10.7 | 11.1 |
|                 | 3H   | 9.4              | 10.4 | 9.8  | 10.7 | 11.1 | 9.1            | 10.1 | 9.5 | 10.4 | 10.8 |
|                 | 4H   | 9.3              | 10.2 | 9.7  | 10.6 | 11.0 | 9.0            | 9.9  | 9.5 | 10.3 | 10.7 |
|                 | 6H   | 9.2              | 10.1 | 9.6  | 10.4 | 10.8 | 8.9            | 9.8  | 9.4 | 10.1 | 10.5 |
|                 | 8H   | 9.2              | 10.0 | 9.6  | 10.3 | 10.8 | 8.9            | 9.7  | 9.3 | 10.1 | 10.5 |
|                 | 12H  | 9.1              | 9.9  | 9.6  | 10.3 | 10.7 | 8.8            | 9.6  | 9.3 | 10.0 | 10.4 |
| 4H              | 2H   | 9.3              | 10.2 | 9.7  | 10.6 | 11.0 | 9.0            | 9.9  | 9.5 | 10.3 | 10.7 |
|                 | 3H   | 9.2              | 9.9  | 9.6  | 10.3 | 10.7 | 8.9            | 9.6  | 9.3 | 10.0 | 10.4 |
|                 | 4H   | 9.0              | 9.7  | 9.5  | 10.1 | 10.6 | 8.8            | 9.4  | 9.2 | 9.8  | 10.3 |
|                 | 6H   | 8.9              | 9.5  | 9.4  | 9.9  | 10.4 | 8.7            | 9.2  | 9.1 | 9.7  | 10.1 |
|                 | 8H   | 8.9              | 9.4  | 9.3  | 9.8  | 10.3 | 8.6            | 9.1  | 9.1 | 9.6  | 10.0 |
|                 | 12H  | 8.8              | 9.3  | 9.3  | 9.7  | 10.2 | 8.5            | 9.0  | 9.0 | 9.5  | 9.9  |
| 8H              | 4H   | 8.9              | 9.4  | 9.3  | 9.8  | 10.3 | 8.6            | 9.1  | 9.1 | 9.6  | 10.0 |
|                 | 6H   | 8.7              | 9.2  | 9.3  | 9.7  | 10.2 | 8.5            | 8.9  | 9.0 | 9.4  | 9.9  |
|                 | 8H   | 8.7              | 9.0  | 9.2  | 9.6  | 10.1 | 8.4            | 8.8  | 8.9 | 9.3  | 9.8  |
|                 | 12H  | 8.6              | 8.9  | 9.1  | 9.4  | 10.0 | 8.3            | 8.7  | 8.9 | 9.2  | 9.7  |
| 12H             | 4H   | 8.8              | 9.3  | 9.3  | 9.7  | 10.2 | 8.5            | 9.0  | 9.0 | 9.5  | 9.9  |
|                 | 6H   | 8.7              | 9.1  | 9.2  | 9.5  | 10.1 | 8.4            | 8.8  | 8.9 | 9.2  | 9.8  |
|                 | 8H   | 8.6              | 8.9  | 9.1  | 9.4  | 10.0 | 8.3            | 8.7  | 8.9 | 9.2  | 9.7  |















































(END OF REPORT)