

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: P1590569

Luminaire Tested: HCDLS1525CSD6TRH-ME-3500K

Issue Date: 9/4/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1590569  
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: HCDLS1525CSD6TRH-ME-3500K  
Description: 6" Selectable Round Trim+ Haze (Semi-specular) 2000 Lumens 3500K  
  
Light Source:  
Ballast/Driver: -

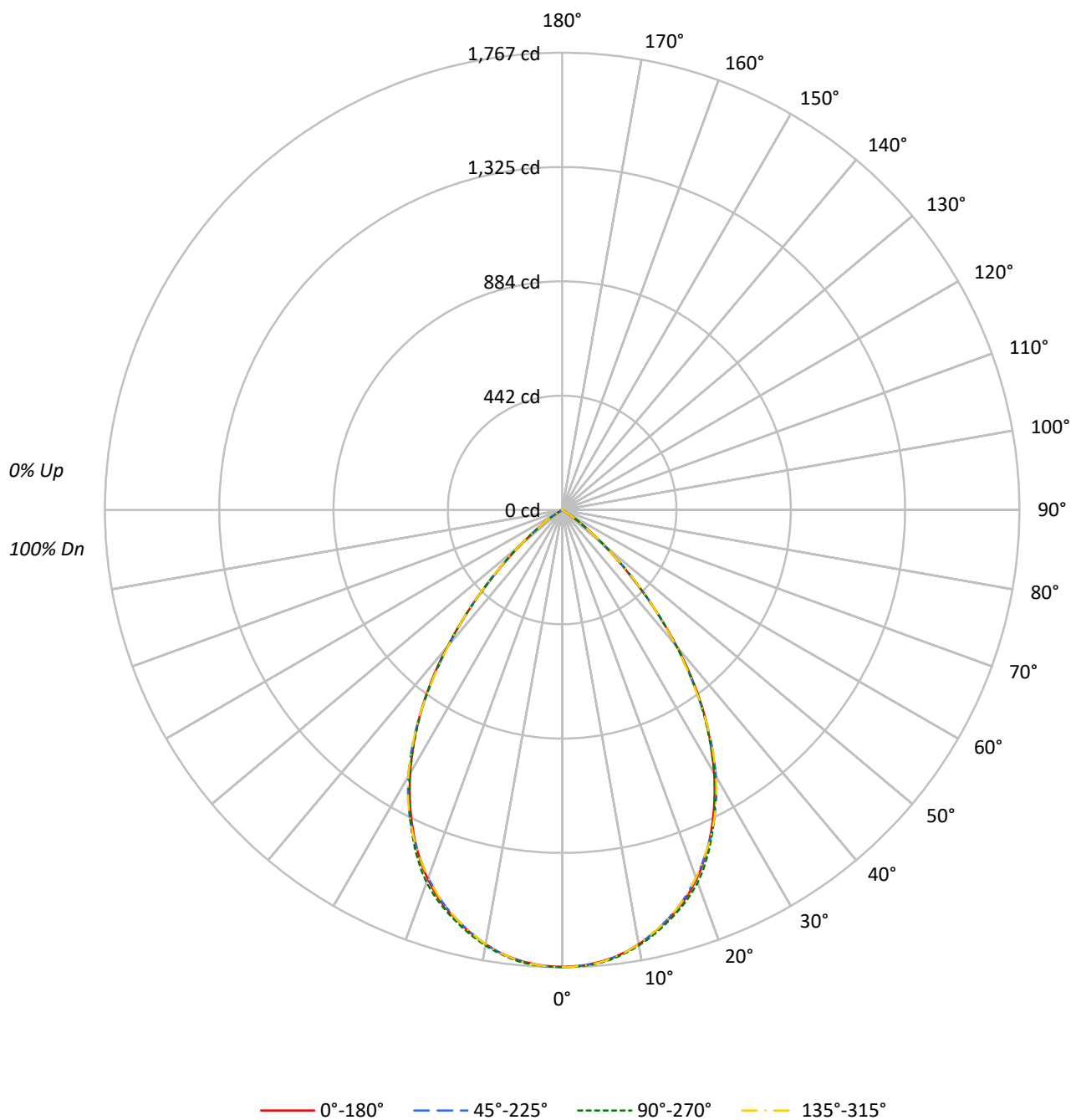
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2245.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 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): 20.9  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**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 | 102 | 102 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 94  | 94  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 86  | 86  | 84  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 79  | 79  | 77  |
| 4   | 94  | 86  | 80  | 75  | 92  | 85  | 79  | 75  | 83  | 78  | 74  | 80  | 76  | 73  | 79  | 75  | 72  | 72  | 72  | 70  |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 77  | 71  | 67  | 75  | 70  | 67  | 73  | 69  | 66  | 66  | 66  | 64  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 61  | 61  | 61  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 56  | 56  | 54  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 48  | 48  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 44  | 44  | 43  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 96823 | 96823 | 96823 | 96823 |
| 5°  | 96351 | 96588 | 96351 | 96588 |
| 10° | 94855 | 95100 | 94855 | 95100 |
| 15° | 92276 | 92696 | 92276 | 92696 |
| 20° | 88575 | 89357 | 88575 | 89357 |
| 25° | 82493 | 83122 | 82493 | 83122 |
| 30° | 74309 | 74454 | 74309 | 74454 |
| 35° | 63731 | 63396 | 63731 | 63396 |
| 40° | 49378 | 49357 | 49378 | 49357 |
| 45° | 32740 | 32825 | 32740 | 32825 |
| 50° | 17739 | 18166 | 17739 | 18166 |
| 55° | 7254  | 7197  | 7254  | 7197  |
| 60° | 811   | 669   | 811   | 669   |
| 65° | 117   | 78    | 117   | 78    |
| 70° | 48    | 32    | 48    | 32    |
| 75° | 0     | 0     | 0     | 0     |
| 80° | 0     | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 33252 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.8  | 7.4       |
| 10°-20°   | 456.9  | 20.4      |
| 20°-30°   | 626.4  | 27.9      |
| 30°-40°   | 587.5  | 26.2      |
| 40°-50°   | 330.5  | 14.7      |
| 50°-60°   | 75.2   | 3.4       |
| 60°-70°   | 1.3    | 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° | 0.2    | 0.0       |
| 140°-150° | 0.3    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 1249.0 | 55.6      |
| 0°-40°    | 1836.5 | 81.8      |
| 0°-60°    | 2242.3 | 99.9      |
| 0°-90°    | 2243.6 | 99.9      |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.7    | 0.0       |
| 90°-180°  | 1.0    | 0.0       |
| 0°-180°   | 2245.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1766 | 1766 | 1766 | 1766 | 1766 |      |
| 5°   | 1751 | 1755 | 1751 | 1755 | 1751 | 166  |
| 15°  | 1626 | 1633 | 1626 | 1633 | 1626 | 457  |
| 25°  | 1364 | 1374 | 1364 | 1374 | 1364 | 624  |
| 35°  | 952  | 947  | 952  | 947  | 952  | 587  |
| 45°  | 422  | 423  | 422  | 423  | 422  | 328  |
| 55°  | 76   | 75   | 76   | 75   | 76   | 76   |
| 65°  | 1    | 1    | 1    | 1    | 1    | 1    |
| 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    | 0    | 1    | 0    | 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 |
| 0.5°  | 1765.4 | 1765.8 | 1766.6 | 1766.4 | 1765.9 | 1766.4 | 1766.6 | 1765.8 | 1765.4 | 1765.8 | 1766.6 |
| 1°    | 1765.0 | 1765.2 | 1766.2 | 1766.1 | 1765.6 | 1766.1 | 1766.2 | 1765.2 | 1765.0 | 1765.2 | 1766.2 |
| 1.5°  | 1764.1 | 1764.5 | 1765.4 | 1765.6 | 1765.2 | 1765.6 | 1765.4 | 1764.5 | 1764.1 | 1764.5 | 1765.4 |
| 2°    | 1763.1 | 1763.5 | 1764.6 | 1764.8 | 1764.7 | 1764.8 | 1764.6 | 1763.5 | 1763.1 | 1763.5 | 1764.6 |
| 2.5°  | 1761.7 | 1762.2 | 1763.3 | 1763.8 | 1763.7 | 1763.8 | 1763.3 | 1762.2 | 1761.7 | 1762.2 | 1763.3 |
| 3°    | 1760.2 | 1760.6 | 1761.8 | 1762.3 | 1762.8 | 1762.3 | 1761.8 | 1760.6 | 1760.2 | 1760.6 | 1761.8 |
| 3.5°  | 1758.2 | 1758.8 | 1759.9 | 1760.8 | 1761.4 | 1760.8 | 1759.9 | 1758.8 | 1758.2 | 1758.8 | 1759.9 |
| 4°    | 1756.0 | 1756.7 | 1757.7 | 1758.7 | 1759.7 | 1758.7 | 1757.7 | 1756.7 | 1756.0 | 1756.7 | 1757.7 |
| 4.5°  | 1753.7 | 1754.1 | 1755.4 | 1756.4 | 1757.6 | 1756.4 | 1755.4 | 1754.1 | 1753.7 | 1754.1 | 1755.4 |
| 5°    | 1750.9 | 1751.4 | 1752.6 | 1753.7 | 1755.2 | 1753.7 | 1752.6 | 1751.4 | 1750.9 | 1751.4 | 1752.6 |
| 5.5°  | 1747.8 | 1748.3 | 1749.2 | 1750.4 | 1752.2 | 1750.4 | 1749.2 | 1748.3 | 1747.8 | 1748.3 | 1749.2 |
| 6°    | 1744.3 | 1745.1 | 1745.6 | 1746.6 | 1748.7 | 1746.6 | 1745.6 | 1745.1 | 1744.3 | 1745.1 | 1745.6 |
| 6.5°  | 1740.5 | 1741.5 | 1741.6 | 1742.6 | 1744.9 | 1742.6 | 1741.6 | 1741.5 | 1740.5 | 1741.5 | 1741.6 |
| 7°    | 1736.6 | 1737.4 | 1737.2 | 1738.1 | 1740.6 | 1738.1 | 1737.2 | 1737.4 | 1736.6 | 1737.4 | 1737.2 |
| 7.5°  | 1732.1 | 1733.2 | 1732.6 | 1733.3 | 1735.7 | 1733.3 | 1732.6 | 1733.2 | 1732.1 | 1733.2 | 1732.6 |
| 8°    | 1727.2 | 1728.3 | 1727.6 | 1728.2 | 1730.9 | 1728.2 | 1727.6 | 1728.3 | 1727.2 | 1728.3 | 1727.6 |
| 8.5°  | 1721.9 | 1723.3 | 1722.2 | 1722.9 | 1725.7 | 1722.9 | 1722.2 | 1723.3 | 1721.9 | 1723.3 | 1722.2 |
| 9°    | 1716.3 | 1717.6 | 1716.4 | 1717.2 | 1720.1 | 1717.2 | 1716.4 | 1717.6 | 1716.3 | 1717.6 | 1716.4 |
| 9.5°  | 1710.2 | 1711.7 | 1710.3 | 1711.4 | 1714.6 | 1711.4 | 1710.3 | 1711.7 | 1710.2 | 1711.7 | 1710.3 |
| 10°   | 1704.0 | 1705.4 | 1703.6 | 1705.2 | 1708.4 | 1705.2 | 1703.6 | 1705.4 | 1704.0 | 1705.4 | 1703.6 |
| 10.5° | 1697.2 | 1698.3 | 1696.7 | 1699.1 | 1702.0 | 1699.1 | 1696.7 | 1698.3 | 1697.2 | 1698.3 | 1696.7 |
| 11°   | 1690.2 | 1691.2 | 1689.5 | 1692.4 | 1695.5 | 1692.4 | 1689.5 | 1691.2 | 1690.2 | 1691.2 | 1689.5 |
| 11.5° | 1683.0 | 1683.7 | 1682.0 | 1685.6 | 1688.5 | 1685.6 | 1682.0 | 1683.7 | 1683.0 | 1683.7 | 1682.0 |
| 12°   | 1675.5 | 1675.9 | 1674.2 | 1678.6 | 1681.3 | 1678.6 | 1674.2 | 1675.9 | 1675.5 | 1675.9 | 1674.2 |
| 12.5° | 1667.6 | 1667.6 | 1666.2 | 1671.3 | 1673.8 | 1671.3 | 1666.2 | 1667.6 | 1667.6 | 1667.6 | 1666.2 |
| 13°   | 1659.7 | 1659.3 | 1657.9 | 1663.8 | 1666.4 | 1663.8 | 1657.9 | 1659.3 | 1659.7 | 1659.3 | 1657.9 |
| 13.5° | 1651.5 | 1650.5 | 1649.6 | 1656.2 | 1658.5 | 1656.2 | 1649.6 | 1650.5 | 1651.5 | 1650.5 | 1649.6 |
| 14°   | 1643.2 | 1641.9 | 1640.9 | 1648.0 | 1650.2 | 1648.0 | 1640.9 | 1641.9 | 1643.2 | 1641.9 | 1640.9 |
| 14.5° | 1634.8 | 1632.6 | 1632.0 | 1639.4 | 1641.9 | 1639.4 | 1632.0 | 1632.6 | 1634.8 | 1632.6 | 1632.0 |
| 15°   | 1625.9 | 1623.3 | 1622.9 | 1630.6 | 1633.3 | 1630.6 | 1622.9 | 1623.3 | 1625.9 | 1623.3 | 1622.9 |
| 15.5° | 1616.7 | 1613.7 | 1613.6 | 1621.8 | 1624.6 | 1621.8 | 1613.6 | 1613.7 | 1616.7 | 1613.7 | 1613.6 |
| 16°   | 1607.4 | 1604.1 | 1604.0 | 1612.1 | 1615.5 | 1612.1 | 1604.0 | 1604.1 | 1607.4 | 1604.1 | 1604.0 |
| 16.5° | 1598.0 | 1593.6 | 1593.8 | 1602.0 | 1606.5 | 1602.0 | 1593.8 | 1593.6 | 1598.0 | 1593.6 | 1593.8 |
| 17°   | 1588.4 | 1583.3 | 1583.2 | 1591.7 | 1597.0 | 1591.7 | 1583.2 | 1583.3 | 1588.4 | 1583.3 | 1583.2 |
| 17.5° | 1577.8 | 1572.8 | 1572.3 | 1580.8 | 1587.2 | 1580.8 | 1572.3 | 1572.8 | 1577.8 | 1572.8 | 1572.3 |
| 18°   | 1566.8 | 1561.8 | 1561.1 | 1569.7 | 1577.0 | 1569.7 | 1561.1 | 1561.8 | 1566.8 | 1561.8 | 1561.1 |
| 18.5° | 1555.3 | 1550.3 | 1549.5 | 1558.4 | 1566.2 | 1558.4 | 1549.5 | 1550.3 | 1555.3 | 1550.3 | 1549.5 |
| 19°   | 1543.5 | 1538.7 | 1537.4 | 1547.0 | 1555.3 | 1547.0 | 1537.4 | 1538.7 | 1543.5 | 1538.7 | 1537.4 |
| 19.5° | 1531.0 | 1526.4 | 1524.9 | 1535.1 | 1544.0 | 1535.1 | 1524.9 | 1526.4 | 1531.0 | 1526.4 | 1524.9 |
| 20°   | 1518.3 | 1513.9 | 1512.4 | 1522.6 | 1531.7 | 1522.6 | 1512.4 | 1513.9 | 1518.3 | 1513.9 | 1512.4 |
| 20.5° | 1504.9 | 1500.9 | 1499.4 | 1509.7 | 1518.2 | 1509.7 | 1499.4 | 1500.9 | 1504.9 | 1500.9 | 1499.4 |
| 21°   | 1491.3 | 1487.5 | 1485.9 | 1496.0 | 1504.5 | 1496.0 | 1485.9 | 1487.5 | 1491.3 | 1487.5 | 1485.9 |
| 21.5° | 1477.2 | 1473.5 | 1472.0 | 1482.1 | 1489.9 | 1482.1 | 1472.0 | 1473.5 | 1477.2 | 1473.5 | 1472.0 |
| 22°   | 1462.2 | 1459.3 | 1457.9 | 1467.4 | 1474.8 | 1467.4 | 1457.9 | 1459.3 | 1462.2 | 1459.3 | 1457.9 |

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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° | 1446.7 | 1444.4 | 1444.0 | 1452.8 | 1458.9 | 1452.8 | 1444.0 | 1444.4 | 1446.7 | 1444.4 | 1444.0 |
| 23°   | 1430.9 | 1429.5 | 1429.5 | 1437.7 | 1442.9 | 1437.7 | 1429.5 | 1429.5 | 1430.9 | 1429.5 | 1429.5 |
| 23.5° | 1414.7 | 1414.1 | 1415.0 | 1422.0 | 1426.4 | 1422.0 | 1415.0 | 1414.1 | 1414.7 | 1414.1 | 1415.0 |
| 24°   | 1397.9 | 1398.7 | 1400.5 | 1406.4 | 1409.3 | 1406.4 | 1400.5 | 1398.7 | 1397.9 | 1398.7 | 1400.5 |
| 24.5° | 1381.1 | 1382.9 | 1385.3 | 1390.2 | 1391.8 | 1390.2 | 1385.3 | 1382.9 | 1381.1 | 1382.9 | 1385.3 |
| 25°   | 1363.8 | 1366.8 | 1369.8 | 1373.7 | 1374.2 | 1373.7 | 1369.8 | 1366.8 | 1363.8 | 1366.8 | 1369.8 |
| 25.5° | 1346.3 | 1350.4 | 1354.0 | 1356.7 | 1355.7 | 1356.7 | 1354.0 | 1350.4 | 1346.3 | 1350.4 | 1354.0 |
| 26°   | 1328.6 | 1333.6 | 1337.8 | 1339.4 | 1337.2 | 1339.4 | 1337.8 | 1333.6 | 1328.6 | 1333.6 | 1337.8 |
| 26.5° | 1310.4 | 1316.6 | 1321.0 | 1321.8 | 1318.0 | 1321.8 | 1321.0 | 1316.6 | 1310.4 | 1316.6 | 1321.0 |
| 27°   | 1292.0 | 1299.0 | 1303.8 | 1303.8 | 1298.7 | 1303.8 | 1303.8 | 1299.0 | 1292.0 | 1299.0 | 1303.8 |
| 27.5° | 1273.4 | 1280.9 | 1286.1 | 1285.4 | 1279.3 | 1285.4 | 1286.1 | 1280.9 | 1273.4 | 1280.9 | 1286.1 |
| 28°   | 1254.6 | 1262.4 | 1267.8 | 1266.3 | 1259.0 | 1266.3 | 1267.8 | 1262.4 | 1254.6 | 1262.4 | 1267.8 |
| 28.5° | 1234.7 | 1243.5 | 1249.0 | 1246.8 | 1239.0 | 1246.8 | 1249.0 | 1243.5 | 1234.7 | 1243.5 | 1249.0 |
| 29°   | 1215.0 | 1224.1 | 1229.6 | 1226.9 | 1218.6 | 1226.9 | 1229.6 | 1224.1 | 1215.0 | 1224.1 | 1229.6 |
| 29.5° | 1194.6 | 1204.0 | 1209.7 | 1206.5 | 1197.9 | 1206.5 | 1209.7 | 1204.0 | 1194.6 | 1204.0 | 1209.7 |
| 30°   | 1173.9 | 1183.4 | 1188.9 | 1185.3 | 1176.2 | 1185.3 | 1188.9 | 1183.4 | 1173.9 | 1183.4 | 1188.9 |
| 30.5° | 1153.3 | 1162.6 | 1167.6 | 1163.6 | 1154.7 | 1163.6 | 1167.6 | 1162.6 | 1153.3 | 1162.6 | 1167.6 |
| 31°   | 1132.0 | 1141.2 | 1145.7 | 1141.3 | 1132.3 | 1141.3 | 1145.7 | 1141.2 | 1132.0 | 1141.2 | 1145.7 |
| 31.5° | 1110.5 | 1119.3 | 1123.2 | 1119.0 | 1109.8 | 1119.0 | 1123.2 | 1119.3 | 1110.5 | 1119.3 | 1123.2 |
| 32°   | 1088.6 | 1096.6 | 1099.8 | 1095.9 | 1087.3 | 1095.9 | 1099.8 | 1096.6 | 1088.6 | 1096.6 | 1099.8 |
| 32.5° | 1066.8 | 1074.2 | 1076.3 | 1072.7 | 1064.5 | 1072.7 | 1076.3 | 1074.2 | 1066.8 | 1074.2 | 1076.3 |
| 33°   | 1044.3 | 1050.4 | 1052.0 | 1048.9 | 1041.4 | 1048.9 | 1052.0 | 1050.4 | 1044.3 | 1050.4 | 1052.0 |
| 33.5° | 1022.5 | 1026.9 | 1027.7 | 1024.7 | 1017.9 | 1024.7 | 1027.7 | 1026.9 | 1022.5 | 1026.9 | 1027.7 |
| 34°   | 999.1  | 1002.6 | 1002.2 | 1000.5 | 994.8  | 1000.5 | 1002.2 | 1002.6 | 999.1  | 1002.6 | 1002.2 |
| 34.5° | 976.0  | 978.4  | 977.0  | 975.4  | 971.2  | 975.4  | 977.0  | 978.4  | 976.0  | 978.4  | 977.0  |
| 35°   | 952.3  | 952.9  | 950.8  | 950.4  | 947.3  | 950.4  | 950.8  | 952.9  | 952.3  | 952.9  | 950.8  |
| 35.5° | 928.3  | 927.5  | 924.6  | 924.9  | 923.5  | 924.9  | 924.6  | 927.5  | 928.3  | 927.5  | 924.6  |
| 36°   | 903.1  | 901.8  | 897.8  | 899.2  | 899.2  | 899.2  | 897.8  | 901.8  | 903.1  | 901.8  | 897.8  |
| 36.5° | 878.2  | 876.0  | 871.3  | 873.4  | 874.8  | 873.4  | 871.3  | 876.0  | 878.2  | 876.0  | 871.3  |
| 37°   | 852.6  | 849.5  | 843.8  | 847.7  | 849.4  | 847.7  | 843.8  | 849.5  | 852.6  | 849.5  | 843.8  |
| 37.5° | 826.4  | 823.0  | 816.7  | 821.5  | 823.4  | 821.5  | 816.7  | 823.0  | 826.4  | 823.0  | 816.7  |
| 38°   | 799.7  | 796.2  | 790.0  | 795.1  | 795.8  | 795.1  | 790.0  | 796.2  | 799.7  | 796.2  | 790.0  |
| 38.5° | 773.3  | 769.5  | 763.1  | 768.3  | 769.1  | 768.3  | 763.1  | 769.5  | 773.3  | 769.5  | 763.1  |
| 39°   | 746.1  | 741.3  | 736.4  | 741.4  | 742.5  | 741.4  | 736.4  | 741.3  | 746.1  | 741.3  | 736.4  |
| 39.5° | 717.9  | 714.1  | 710.0  | 714.7  | 716.1  | 714.7  | 710.0  | 714.1  | 717.9  | 714.1  | 710.0  |
| 40°   | 690.0  | 687.5  | 683.6  | 687.6  | 689.7  | 687.6  | 683.6  | 687.5  | 690.0  | 687.5  | 683.6  |
| 40.5° | 662.5  | 661.0  | 657.4  | 660.5  | 663.1  | 660.5  | 657.4  | 661.0  | 662.5  | 661.0  | 657.4  |
| 41°   | 634.5  | 634.4  | 630.8  | 633.4  | 635.7  | 633.4  | 630.8  | 634.4  | 634.5  | 634.4  | 630.8  |
| 41.5° | 606.8  | 607.6  | 604.2  | 606.7  | 608.5  | 606.7  | 604.2  | 607.6  | 606.8  | 607.6  | 604.2  |
| 42°   | 579.3  | 580.5  | 578.1  | 580.1  | 581.2  | 580.1  | 578.1  | 580.5  | 579.3  | 580.5  | 578.1  |
| 42.5° | 552.3  | 553.8  | 552.5  | 554.4  | 554.1  | 554.4  | 552.5  | 553.8  | 552.3  | 553.8  | 552.5  |
| 43°   | 525.6  | 526.9  | 527.1  | 528.7  | 526.9  | 528.7  | 527.1  | 526.9  | 525.6  | 526.9  | 527.1  |
| 43.5° | 499.2  | 500.7  | 501.9  | 503.1  | 499.9  | 503.1  | 501.9  | 500.7  | 499.2  | 500.7  | 501.9  |
| 44°   | 473.3  | 474.3  | 476.8  | 477.9  | 473.8  | 477.9  | 476.8  | 474.3  | 473.3  | 474.3  | 476.8  |
| 44.5° | 447.5  | 449.2  | 452.5  | 453.7  | 448.5  | 453.7  | 452.5  | 449.2  | 447.5  | 449.2  | 452.5  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 422.3 | 424.3 | 428.7 | 428.9 | 423.4 | 428.9  | 428.7 | 424.3  | 422.3 | 424.3  | 428.7 |
| 45.5° | 397.3 | 400.2 | 404.9 | 404.5 | 399.1 | 404.5  | 404.9 | 400.2  | 397.3 | 400.2  | 404.9 |
| 46°   | 372.9 | 376.4 | 381.1 | 380.9 | 375.3 | 380.9  | 381.1 | 376.4  | 372.9 | 376.4  | 381.1 |
| 46.5° | 349.3 | 353.3 | 357.9 | 357.8 | 352.3 | 357.8  | 357.9 | 353.3  | 349.3 | 353.3  | 357.9 |
| 47°   | 326.4 | 330.7 | 335.1 | 335.2 | 330.1 | 335.2  | 335.1 | 330.7  | 326.4 | 330.7  | 335.1 |
| 47.5° | 304.3 | 308.6 | 312.7 | 313.3 | 308.6 | 313.3  | 312.7 | 308.6  | 304.3 | 308.6  | 312.7 |
| 48°   | 282.8 | 287.2 | 290.9 | 291.6 | 287.7 | 291.6  | 290.9 | 287.2  | 282.8 | 287.2  | 290.9 |
| 48.5° | 262.5 | 266.5 | 269.6 | 271.1 | 267.7 | 271.1  | 269.6 | 266.5  | 262.5 | 266.5  | 269.6 |
| 49°   | 243.3 | 246.6 | 249.0 | 251.0 | 248.3 | 251.0  | 249.0 | 246.6  | 243.3 | 246.6  | 249.0 |
| 49.5° | 225.4 | 228.0 | 229.9 | 231.9 | 230.2 | 231.9  | 229.9 | 228.0  | 225.4 | 228.0  | 229.9 |
| 50°   | 208.0 | 210.0 | 211.5 | 213.9 | 213.0 | 213.9  | 211.5 | 210.0  | 208.0 | 210.0  | 211.5 |
| 50.5° | 190.8 | 192.2 | 193.5 | 196.1 | 196.3 | 196.1  | 193.5 | 192.2  | 190.8 | 192.2  | 193.5 |
| 51°   | 174.4 | 175.0 | 175.7 | 178.8 | 179.8 | 178.8  | 175.7 | 175.0  | 174.4 | 175.0  | 175.7 |
| 51.5° | 159.7 | 158.8 | 158.7 | 162.7 | 163.9 | 162.7  | 158.7 | 158.8  | 159.7 | 158.8  | 158.7 |
| 52°   | 145.3 | 144.1 | 143.0 | 147.0 | 148.3 | 147.0  | 143.0 | 144.1  | 145.3 | 144.1  | 143.0 |
| 52.5° | 132.1 | 130.2 | 128.6 | 132.8 | 134.0 | 132.8  | 128.6 | 130.2  | 132.1 | 130.2  | 128.6 |
| 53°   | 119.5 | 117.3 | 115.3 | 119.7 | 120.9 | 119.7  | 115.3 | 117.3  | 119.5 | 117.3  | 115.3 |
| 53.5° | 107.7 | 105.4 | 103.4 | 107.3 | 108.1 | 107.3  | 103.4 | 105.4  | 107.7 | 105.4  | 103.4 |
| 54°   | 96.4  | 94.2  | 92.3  | 95.7  | 96.4  | 95.7   | 92.3  | 94.2   | 96.4  | 94.2   | 92.3  |
| 54.5° | 85.9  | 83.9  | 82.1  | 84.9  | 85.5  | 84.9   | 82.1  | 83.9   | 85.9  | 83.9   | 82.1  |
| 55°   | 75.9  | 74.3  | 72.7  | 74.9  | 75.3  | 74.9   | 72.7  | 74.3   | 75.9  | 74.3   | 72.7  |
| 55.5° | 66.6  | 65.4  | 64.3  | 65.5  | 65.6  | 65.5   | 64.3  | 65.4   | 66.6  | 65.4   | 64.3  |
| 56°   | 58.5  | 57.4  | 56.2  | 57.2  | 57.2  | 57.2   | 56.2  | 57.4   | 58.5  | 57.4   | 56.2  |
| 56.5° | 50.6  | 50.1  | 48.8  | 49.3  | 49.4  | 49.3   | 48.8  | 50.1   | 50.6  | 50.1   | 48.8  |
| 57°   | 43.3  | 42.9  | 41.5  | 41.8  | 42.1  | 41.8   | 41.5  | 42.9   | 43.3  | 42.9   | 41.5  |
| 57.5° | 36.0  | 35.9  | 34.4  | 34.5  | 34.8  | 34.5   | 34.4  | 35.9   | 36.0  | 35.9   | 34.4  |
| 58°   | 28.8  | 28.9  | 27.8  | 27.6  | 27.5  | 27.6   | 27.8  | 28.9   | 28.8  | 28.9   | 27.8  |
| 58.5° | 22.3  | 22.5  | 21.0  | 21.1  | 21.0  | 21.1   | 21.0  | 22.5   | 22.3  | 22.5   | 21.0  |
| 59°   | 15.8  | 16.2  | 14.5  | 14.6  | 14.5  | 14.6   | 14.5  | 16.2   | 15.8  | 16.2   | 14.5  |
| 59.5° | 11.0  | 10.9  | 9.1   | 9.2   | 9.7   | 9.2    | 9.1   | 10.9   | 11.0  | 10.9   | 9.1   |
| 60°   | 7.4   | 7.2   | 6.1   | 5.6   | 6.1   | 5.6    | 6.1   | 7.2    | 7.4   | 7.2    | 6.1   |
| 60.5° | 4.6   | 5.1   | 4.1   | 3.7   | 5.0   | 3.7    | 4.1   | 5.1    | 4.6   | 5.1    | 4.1   |
| 61°   | 3.9   | 4.2   | 3.2   | 3.0   | 4.0   | 3.0    | 3.2   | 4.2    | 3.9   | 4.2    | 3.2   |
| 61.5° | 3.1   | 3.3   | 2.4   | 2.4   | 3.1   | 2.4    | 2.4   | 3.3    | 3.1   | 3.3    | 2.4   |
| 62°   | 2.4   | 2.5   | 1.9   | 1.7   | 2.2   | 1.7    | 1.9   | 2.5    | 2.4   | 2.5    | 1.9   |
| 62.5° | 1.7   | 2.0   | 1.5   | 1.3   | 1.3   | 1.3    | 1.5   | 2.0    | 1.7   | 2.0    | 1.5   |
| 63°   | 1.5   | 1.4   | 1.3   | 1.1   | 1.1   | 1.1    | 1.3   | 1.4    | 1.5   | 1.4    | 1.3   |
| 63.5° | 1.3   | 1.2   | 1.1   | 1.0   | 1.0   | 1.0    | 1.1   | 1.2    | 1.3   | 1.2    | 1.1   |
| 64°   | 1.1   | 1.1   | 1.0   | 0.9   | 0.8   | 0.9    | 1.0   | 1.1    | 1.1   | 1.1    | 1.0   |
| 64.5° | 1.0   | 1.0   | 0.8   | 0.8   | 0.7   | 0.8    | 0.8   | 1.0    | 1.0   | 1.0    | 0.8   |
| 65°   | 0.9   | 0.9   | 0.7   | 0.7   | 0.6   | 0.7    | 0.7   | 0.9    | 0.9   | 0.9    | 0.7   |
| 65.5° | 0.8   | 0.8   | 0.7   | 0.6   | 0.6   | 0.6    | 0.7   | 0.8    | 0.8   | 0.8    | 0.7   |
| 66°   | 0.7   | 0.7   | 0.6   | 0.5   | 0.5   | 0.5    | 0.6   | 0.7    | 0.7   | 0.7    | 0.6   |
| 66.5° | 0.6   | 0.6   | 0.5   | 0.5   | 0.4   | 0.5    | 0.5   | 0.6    | 0.6   | 0.6    | 0.5   |
| 67°   | 0.6   | 0.5   | 0.5   | 0.4   | 0.4   | 0.4    | 0.5   | 0.5    | 0.6   | 0.5    | 0.5   |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 0.5 | 0.5   | 0.4 | 0.4   | 0.3 | 0.4    | 0.4  | 0.5    | 0.5  | 0.5    | 0.4  |
| 68°   | 0.4 | 0.4   | 0.4 | 0.3   | 0.3 | 0.3    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 68.5° | 0.4 | 0.4   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.4    | 0.4  | 0.4    | 0.3  |
| 69°   | 0.4 | 0.3   | 0.3 | 0.2   | 0.2 | 0.2    | 0.3  | 0.3    | 0.4  | 0.3    | 0.3  |
| 69.5° | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  | 0.3    | 0.2  |
| 70°   | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  | 0.3    | 0.2  |
| 70.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 71°   | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 | 0.1    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 71.5° | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.2    | 0.2  | 0.2    | 0.1  |
| 72°   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.2  | 0.1    | 0.1  |
| 72.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 73°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 73.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.0 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 74°   | 0.1 | 0.1   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.1    | 0.1  | 0.1    | 0.0  |
| 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°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 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: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 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: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120.5° | 0.1 | 0.0   | 0.0 | 0.1   | 0.1 | 0.1    | 0.0  | 0.0    | 0.1  | 0.0    | 0.0  |
| 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°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 125.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126.5° | 0.2 | 0.2   | 0.1 | 0.2   | 0.1 | 0.2    | 0.1  | 0.2    | 0.2  | 0.2    | 0.1  |
| 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°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 129.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 132°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.2 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 132.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 133°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 133.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 134°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 134.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 135.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 136°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 136.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 137°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 137.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 138°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 138.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 139°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 139.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 140°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 140.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 141°   | 0.5 | 0.5   | 0.4 | 0.5   | 0.4 | 0.5    | 0.4  | 0.5    | 0.5  | 0.5    | 0.4  |
| 141.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 142°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 142.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 143°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 143.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 144°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 144.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 145°   | 0.6 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.6  | 0.5    | 0.5  |
| 145.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.5 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 146°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 146.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 147°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 147.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 148°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 148.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 149°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 149.5° | 0.7 | 0.7   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.7    | 0.7  | 0.7    | 0.6  |
| 150°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.6 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 150.5° | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 151°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 151.5° | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 152°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 152.5° | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 153°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 153.5° | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 154°   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 154.5° | 0.8 | 0.8   | 0.7 | 0.7   | 0.7 | 0.7    | 0.7  | 0.8    | 0.8  | 0.8    | 0.7  |
| 155°   | 0.8 | 0.8   | 0.7 | 0.7   | 0.7 | 0.7    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 155.5° | 0.8 | 0.8   | 0.8 | 0.8   | 0.7 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 156°   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 156.5° | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 157°   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P1590569  
CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

CANDELA DISTRIBUTION (continued):

|      | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 | 1766.2 |
| 0.5°  | 1766.4 | 1765.9 | 1766.4 | 1766.6 | 1765.8 | 1765.4 |
| 1°    | 1766.1 | 1765.6 | 1766.1 | 1766.2 | 1765.2 | 1765.0 |
| 1.5°  | 1765.6 | 1765.2 | 1765.6 | 1765.4 | 1764.5 | 1764.1 |
| 2°    | 1764.8 | 1764.7 | 1764.8 | 1764.6 | 1763.5 | 1763.1 |
| 2.5°  | 1763.8 | 1763.7 | 1763.8 | 1763.3 | 1762.2 | 1761.7 |
| 3°    | 1762.3 | 1762.8 | 1762.3 | 1761.8 | 1760.6 | 1760.2 |
| 3.5°  | 1760.8 | 1761.4 | 1760.8 | 1759.9 | 1758.8 | 1758.2 |
| 4°    | 1758.7 | 1759.7 | 1758.7 | 1757.7 | 1756.7 | 1756.0 |
| 4.5°  | 1756.4 | 1757.6 | 1756.4 | 1755.4 | 1754.1 | 1753.7 |
| 5°    | 1753.7 | 1755.2 | 1753.7 | 1752.6 | 1751.4 | 1750.9 |
| 5.5°  | 1750.4 | 1752.2 | 1750.4 | 1749.2 | 1748.3 | 1747.8 |
| 6°    | 1746.6 | 1748.7 | 1746.6 | 1745.6 | 1745.1 | 1744.3 |
| 6.5°  | 1742.6 | 1744.9 | 1742.6 | 1741.6 | 1741.5 | 1740.5 |
| 7°    | 1738.1 | 1740.6 | 1738.1 | 1737.2 | 1737.4 | 1736.6 |
| 7.5°  | 1733.3 | 1735.7 | 1733.3 | 1732.6 | 1733.2 | 1732.1 |
| 8°    | 1728.2 | 1730.9 | 1728.2 | 1727.6 | 1728.3 | 1727.2 |
| 8.5°  | 1722.9 | 1725.7 | 1722.9 | 1722.2 | 1723.3 | 1721.9 |
| 9°    | 1717.2 | 1720.1 | 1717.2 | 1716.4 | 1717.6 | 1716.3 |
| 9.5°  | 1711.4 | 1714.6 | 1711.4 | 1710.3 | 1711.7 | 1710.2 |
| 10°   | 1705.2 | 1708.4 | 1705.2 | 1703.6 | 1705.4 | 1704.0 |
| 10.5° | 1699.1 | 1702.0 | 1699.1 | 1696.7 | 1698.3 | 1697.2 |
| 11°   | 1692.4 | 1695.5 | 1692.4 | 1689.5 | 1691.2 | 1690.2 |
| 11.5° | 1685.6 | 1688.5 | 1685.6 | 1682.0 | 1683.7 | 1683.0 |
| 12°   | 1678.6 | 1681.3 | 1678.6 | 1674.2 | 1675.9 | 1675.5 |
| 12.5° | 1671.3 | 1673.8 | 1671.3 | 1666.2 | 1667.6 | 1667.6 |
| 13°   | 1663.8 | 1666.4 | 1663.8 | 1657.9 | 1659.3 | 1659.7 |
| 13.5° | 1656.2 | 1658.5 | 1656.2 | 1649.6 | 1650.5 | 1651.5 |
| 14°   | 1648.0 | 1650.2 | 1648.0 | 1640.9 | 1641.9 | 1643.2 |
| 14.5° | 1639.4 | 1641.9 | 1639.4 | 1632.0 | 1632.6 | 1634.8 |
| 15°   | 1630.6 | 1633.3 | 1630.6 | 1622.9 | 1623.3 | 1625.9 |
| 15.5° | 1621.8 | 1624.6 | 1621.8 | 1613.6 | 1613.7 | 1616.7 |
| 16°   | 1612.1 | 1615.5 | 1612.1 | 1604.0 | 1604.1 | 1607.4 |
| 16.5° | 1602.0 | 1606.5 | 1602.0 | 1593.8 | 1593.6 | 1598.0 |
| 17°   | 1591.7 | 1597.0 | 1591.7 | 1583.2 | 1583.3 | 1588.4 |
| 17.5° | 1580.8 | 1587.2 | 1580.8 | 1572.3 | 1572.8 | 1577.8 |
| 18°   | 1569.7 | 1577.0 | 1569.7 | 1561.1 | 1561.8 | 1566.8 |
| 18.5° | 1558.4 | 1566.2 | 1558.4 | 1549.5 | 1550.3 | 1555.3 |
| 19°   | 1547.0 | 1555.3 | 1547.0 | 1537.4 | 1538.7 | 1543.5 |
| 19.5° | 1535.1 | 1544.0 | 1535.1 | 1524.9 | 1526.4 | 1531.0 |
| 20°   | 1522.6 | 1531.7 | 1522.6 | 1512.4 | 1513.9 | 1518.3 |
| 20.5° | 1509.7 | 1518.2 | 1509.7 | 1499.4 | 1500.9 | 1504.9 |
| 21°   | 1496.0 | 1504.5 | 1496.0 | 1485.9 | 1487.5 | 1491.3 |
| 21.5° | 1482.1 | 1489.9 | 1482.1 | 1472.0 | 1473.5 | 1477.2 |
| 22°   | 1467.4 | 1474.8 | 1467.4 | 1457.9 | 1459.3 | 1462.2 |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1452.8 | 1458.9 | 1452.8 | 1444.0 | 1444.4 | 1446.7 |
| 23°   | 1437.7 | 1442.9 | 1437.7 | 1429.5 | 1429.5 | 1430.9 |
| 23.5° | 1422.0 | 1426.4 | 1422.0 | 1415.0 | 1414.1 | 1414.7 |
| 24°   | 1406.4 | 1409.3 | 1406.4 | 1400.5 | 1398.7 | 1397.9 |
| 24.5° | 1390.2 | 1391.8 | 1390.2 | 1385.3 | 1382.9 | 1381.1 |
| 25°   | 1373.7 | 1374.2 | 1373.7 | 1369.8 | 1366.8 | 1363.8 |
| 25.5° | 1356.7 | 1355.7 | 1356.7 | 1354.0 | 1350.4 | 1346.3 |
| 26°   | 1339.4 | 1337.2 | 1339.4 | 1337.8 | 1333.6 | 1328.6 |
| 26.5° | 1321.8 | 1318.0 | 1321.8 | 1321.0 | 1316.6 | 1310.4 |
| 27°   | 1303.8 | 1298.7 | 1303.8 | 1303.8 | 1299.0 | 1292.0 |
| 27.5° | 1285.4 | 1279.3 | 1285.4 | 1286.1 | 1280.9 | 1273.4 |
| 28°   | 1266.3 | 1259.0 | 1266.3 | 1267.8 | 1262.4 | 1254.6 |
| 28.5° | 1246.8 | 1239.0 | 1246.8 | 1249.0 | 1243.5 | 1234.7 |
| 29°   | 1226.9 | 1218.6 | 1226.9 | 1229.6 | 1224.1 | 1215.0 |
| 29.5° | 1206.5 | 1197.9 | 1206.5 | 1209.7 | 1204.0 | 1194.6 |
| 30°   | 1185.3 | 1176.2 | 1185.3 | 1188.9 | 1183.4 | 1173.9 |
| 30.5° | 1163.6 | 1154.7 | 1163.6 | 1167.6 | 1162.6 | 1153.3 |
| 31°   | 1141.3 | 1132.3 | 1141.3 | 1145.7 | 1141.2 | 1132.0 |
| 31.5° | 1119.0 | 1109.8 | 1119.0 | 1123.2 | 1119.3 | 1110.5 |
| 32°   | 1095.9 | 1087.3 | 1095.9 | 1099.8 | 1096.6 | 1088.6 |
| 32.5° | 1072.7 | 1064.5 | 1072.7 | 1076.3 | 1074.2 | 1066.8 |
| 33°   | 1048.9 | 1041.4 | 1048.9 | 1052.0 | 1050.4 | 1044.3 |
| 33.5° | 1024.7 | 1017.9 | 1024.7 | 1027.7 | 1026.9 | 1022.5 |
| 34°   | 1000.5 | 994.8  | 1000.5 | 1002.2 | 1002.6 | 999.1  |
| 34.5° | 975.4  | 971.2  | 975.4  | 977.0  | 978.4  | 976.0  |
| 35°   | 950.4  | 947.3  | 950.4  | 950.8  | 952.9  | 952.3  |
| 35.5° | 924.9  | 923.5  | 924.9  | 924.6  | 927.5  | 928.3  |
| 36°   | 899.2  | 899.2  | 899.2  | 897.8  | 901.8  | 903.1  |
| 36.5° | 873.4  | 874.8  | 873.4  | 871.3  | 876.0  | 878.2  |
| 37°   | 847.7  | 849.4  | 847.7  | 843.8  | 849.5  | 852.6  |
| 37.5° | 821.5  | 823.4  | 821.5  | 816.7  | 823.0  | 826.4  |
| 38°   | 795.1  | 795.8  | 795.1  | 790.0  | 796.2  | 799.7  |
| 38.5° | 768.3  | 769.1  | 768.3  | 763.1  | 769.5  | 773.3  |
| 39°   | 741.4  | 742.5  | 741.4  | 736.4  | 741.3  | 746.1  |
| 39.5° | 714.7  | 716.1  | 714.7  | 710.0  | 714.1  | 717.9  |
| 40°   | 687.6  | 689.7  | 687.6  | 683.6  | 687.5  | 690.0  |
| 40.5° | 660.5  | 663.1  | 660.5  | 657.4  | 661.0  | 662.5  |
| 41°   | 633.4  | 635.7  | 633.4  | 630.8  | 634.4  | 634.5  |
| 41.5° | 606.7  | 608.5  | 606.7  | 604.2  | 607.6  | 606.8  |
| 42°   | 580.1  | 581.2  | 580.1  | 578.1  | 580.5  | 579.3  |
| 42.5° | 554.4  | 554.1  | 554.4  | 552.5  | 553.8  | 552.3  |
| 43°   | 528.7  | 526.9  | 528.7  | 527.1  | 526.9  | 525.6  |
| 43.5° | 503.1  | 499.9  | 503.1  | 501.9  | 500.7  | 499.2  |
| 44°   | 477.9  | 473.8  | 477.9  | 476.8  | 474.3  | 473.3  |
| 44.5° | 453.7  | 448.5  | 453.7  | 452.5  | 449.2  | 447.5  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 428.9  | 423.4 | 428.9  | 428.7 | 424.3  | 422.3 |
| 45.5° | 404.5  | 399.1 | 404.5  | 404.9 | 400.2  | 397.3 |
| 46°   | 380.9  | 375.3 | 380.9  | 381.1 | 376.4  | 372.9 |
| 46.5° | 357.8  | 352.3 | 357.8  | 357.9 | 353.3  | 349.3 |
| 47°   | 335.2  | 330.1 | 335.2  | 335.1 | 330.7  | 326.4 |
| 47.5° | 313.3  | 308.6 | 313.3  | 312.7 | 308.6  | 304.3 |
| 48°   | 291.6  | 287.7 | 291.6  | 290.9 | 287.2  | 282.8 |
| 48.5° | 271.1  | 267.7 | 271.1  | 269.6 | 266.5  | 262.5 |
| 49°   | 251.0  | 248.3 | 251.0  | 249.0 | 246.6  | 243.3 |
| 49.5° | 231.9  | 230.2 | 231.9  | 229.9 | 228.0  | 225.4 |
| 50°   | 213.9  | 213.0 | 213.9  | 211.5 | 210.0  | 208.0 |
| 50.5° | 196.1  | 196.3 | 196.1  | 193.5 | 192.2  | 190.8 |
| 51°   | 178.8  | 179.8 | 178.8  | 175.7 | 175.0  | 174.4 |
| 51.5° | 162.7  | 163.9 | 162.7  | 158.7 | 158.8  | 159.7 |
| 52°   | 147.0  | 148.3 | 147.0  | 143.0 | 144.1  | 145.3 |
| 52.5° | 132.8  | 134.0 | 132.8  | 128.6 | 130.2  | 132.1 |
| 53°   | 119.7  | 120.9 | 119.7  | 115.3 | 117.3  | 119.5 |
| 53.5° | 107.3  | 108.1 | 107.3  | 103.4 | 105.4  | 107.7 |
| 54°   | 95.7   | 96.4  | 95.7   | 92.3  | 94.2   | 96.4  |
| 54.5° | 84.9   | 85.5  | 84.9   | 82.1  | 83.9   | 85.9  |
| 55°   | 74.9   | 75.3  | 74.9   | 72.7  | 74.3   | 75.9  |
| 55.5° | 65.5   | 65.6  | 65.5   | 64.3  | 65.4   | 66.6  |
| 56°   | 57.2   | 57.2  | 57.2   | 56.2  | 57.4   | 58.5  |
| 56.5° | 49.3   | 49.4  | 49.3   | 48.8  | 50.1   | 50.6  |
| 57°   | 41.8   | 42.1  | 41.8   | 41.5  | 42.9   | 43.3  |
| 57.5° | 34.5   | 34.8  | 34.5   | 34.4  | 35.9   | 36.0  |
| 58°   | 27.6   | 27.5  | 27.6   | 27.8  | 28.9   | 28.8  |
| 58.5° | 21.1   | 21.0  | 21.1   | 21.0  | 22.5   | 22.3  |
| 59°   | 14.6   | 14.5  | 14.6   | 14.5  | 16.2   | 15.8  |
| 59.5° | 9.2    | 9.7   | 9.2    | 9.1   | 10.9   | 11.0  |
| 60°   | 5.6    | 6.1   | 5.6    | 6.1   | 7.2    | 7.4   |
| 60.5° | 3.7    | 5.0   | 3.7    | 4.1   | 5.1    | 4.6   |
| 61°   | 3.0    | 4.0   | 3.0    | 3.2   | 4.2    | 3.9   |
| 61.5° | 2.4    | 3.1   | 2.4    | 2.4   | 3.3    | 3.1   |
| 62°   | 1.7    | 2.2   | 1.7    | 1.9   | 2.5    | 2.4   |
| 62.5° | 1.3    | 1.3   | 1.3    | 1.5   | 2.0    | 1.7   |
| 63°   | 1.1    | 1.1   | 1.1    | 1.3   | 1.4    | 1.5   |
| 63.5° | 1.0    | 1.0   | 1.0    | 1.1   | 1.2    | 1.3   |
| 64°   | 0.9    | 0.8   | 0.9    | 1.0   | 1.1    | 1.1   |
| 64.5° | 0.8    | 0.7   | 0.8    | 0.8   | 1.0    | 1.0   |
| 65°   | 0.7    | 0.6   | 0.7    | 0.7   | 0.9    | 0.9   |
| 65.5° | 0.6    | 0.6   | 0.6    | 0.7   | 0.8    | 0.8   |
| 66°   | 0.5    | 0.5   | 0.5    | 0.6   | 0.7    | 0.7   |
| 66.5° | 0.5    | 0.4   | 0.5    | 0.5   | 0.6    | 0.6   |
| 67°   | 0.4    | 0.4   | 0.4    | 0.5   | 0.5    | 0.6   |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 0.4    | 0.3  | 0.4    | 0.4  | 0.5    | 0.5  |
| 68°   | 0.3    | 0.3  | 0.3    | 0.4  | 0.4    | 0.4  |
| 68.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.4    | 0.4  |
| 69°   | 0.2    | 0.2  | 0.2    | 0.3  | 0.3    | 0.4  |
| 69.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.3    | 0.3  |
| 70°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.3    | 0.3  |
| 70.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 71°   | 0.1    | 0.1  | 0.1    | 0.2  | 0.2    | 0.2  |
| 71.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.2    | 0.2  |
| 72°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.2  |
| 72.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 73°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 73.5° | 0.1    | 0.0  | 0.1    | 0.1  | 0.1    | 0.1  |
| 74°   | 0.0    | 0.0  | 0.0    | 0.0  | 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    | 0.0  |
| 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: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 90°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 100°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 100.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 105°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 105.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 110°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 110.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 112°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120.5° | 0.1    | 0.1  | 0.1    | 0.0  | 0.0    | 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°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 125.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126.5° | 0.2    | 0.1  | 0.2    | 0.1  | 0.2    | 0.2  |
| 127°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 127.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 128°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 128.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 129°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 129.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 132°   | 0.3    | 0.2  | 0.3    | 0.3  | 0.3    | 0.3  |
| 132.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 133°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 133.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 134°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 134.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 135.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 136°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 136.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 137°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 137.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 138°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 138.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 139°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 139.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 140°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 140.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 141°   | 0.5    | 0.4  | 0.5    | 0.4  | 0.5    | 0.5  |
| 141.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 142°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 142.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 143°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 143.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 144°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 144.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 145°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.6  |
| 145.5° | 0.6    | 0.5  | 0.6    | 0.6  | 0.6    | 0.6  |
| 146°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 146.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 147°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 147.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 148°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 148.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 149°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 149.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.7    | 0.7  |
| 150°   | 0.7    | 0.6  | 0.7    | 0.7  | 0.7    | 0.7  |
| 150.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 151°   | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 151.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 152°   | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 152.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 153°   | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 153.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 154°   | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 154.5° | 0.7    | 0.7  | 0.7    | 0.7  | 0.8    | 0.8  |
| 155°   | 0.7    | 0.7  | 0.7    | 0.8  | 0.8    | 0.8  |
| 155.5° | 0.8    | 0.7  | 0.8    | 0.8  | 0.8    | 0.8  |
| 156°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 156.5° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 157°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |

TEST NUMBER: P1590569

CATALOG NUMBER: HCDLS1525CSD6TRH-ME-3500K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |     |     |      |      |                |     |     |     |      |
|-----------------|------|------------------|-----|-----|------|------|----------------|-----|-----|-----|------|
| Ceiling         |      | 0.7              | 0.7 | 0.5 | 0.5  | 0.3  | 0.7            | 0.7 | 0.5 | 0.5 | 0.3  |
| Wall            |      | 0.5              | 0.3 | 0.5 | 0.3  | 0.3  | 0.5            | 0.3 | 0.5 | 0.3 | 0.3  |
| Reference plane |      | 0.2              | 0.2 | 0.2 | 0.2  | 0.2  | 0.2            | 0.2 | 0.2 | 0.2 | 0.2  |
| Room Dimensions |      | Viewed crosswise |     |     |      |      | Viewed endwise |     |     |     |      |
| X=2H            | Y=2H | 8.7              | 9.9 | 9.1 | 10.2 | 10.5 | 8.4            | 9.6 | 8.8 | 9.9 | 10.2 |
|                 | 3H   | 8.6              | 9.5 | 8.9 | 9.9  | 10.2 | 8.3            | 9.3 | 8.7 | 9.6 | 10.0 |
|                 | 4H   | 8.5              | 9.4 | 8.9 | 9.7  | 10.1 | 8.2            | 9.1 | 8.6 | 9.4 | 9.8  |
|                 | 6H   | 8.4              | 9.2 | 8.8 | 9.6  | 10.0 | 8.1            | 8.9 | 8.5 | 9.3 | 9.7  |
|                 | 8H   | 8.3              | 9.1 | 8.8 | 9.5  | 9.9  | 8.0            | 8.8 | 8.5 | 9.2 | 9.6  |
|                 | 12H  | 8.3              | 9.0 | 8.7 | 9.4  | 9.8  | 8.0            | 8.7 | 8.4 | 9.1 | 9.5  |
| 4H              | 2H   | 8.5              | 9.4 | 8.9 | 9.7  | 10.1 | 8.2            | 9.1 | 8.6 | 9.4 | 9.8  |
|                 | 3H   | 8.3              | 9.0 | 8.7 | 9.4  | 9.8  | 8.0            | 8.7 | 8.4 | 9.1 | 9.6  |
|                 | 4H   | 8.2              | 8.8 | 8.6 | 9.3  | 9.7  | 7.9            | 8.5 | 8.3 | 9.0 | 9.4  |
|                 | 6H   | 8.1              | 8.6 | 8.6 | 9.1  | 9.6  | 7.8            | 8.4 | 8.3 | 8.8 | 9.3  |
|                 | 8H   | 8.0              | 8.5 | 8.5 | 9.0  | 9.5  | 7.7            | 8.2 | 8.2 | 8.7 | 9.2  |
|                 | 12H  | 8.0              | 8.4 | 8.4 | 8.9  | 9.4  | 7.7            | 8.1 | 8.2 | 8.6 | 9.1  |
| 8H              | 4H   | 8.0              | 8.5 | 8.5 | 9.0  | 9.5  | 7.7            | 8.2 | 8.2 | 8.7 | 9.2  |
|                 | 6H   | 7.9              | 8.3 | 8.4 | 8.8  | 9.3  | 7.6            | 8.0 | 8.1 | 8.5 | 9.0  |
|                 | 8H   | 7.8              | 8.2 | 8.4 | 8.7  | 9.2  | 7.5            | 7.9 | 8.1 | 8.4 | 8.9  |
|                 | 12H  | 7.8              | 8.1 | 8.3 | 8.6  | 9.2  | 7.5            | 7.8 | 8.0 | 8.3 | 8.9  |
| 12H             | 4H   | 8.0              | 8.4 | 8.4 | 8.9  | 9.4  | 7.7            | 8.1 | 8.2 | 8.6 | 9.1  |
|                 | 6H   | 7.8              | 8.2 | 8.4 | 8.7  | 9.2  | 7.5            | 7.9 | 8.1 | 8.4 | 8.9  |
|                 | 8H   | 7.8              | 8.1 | 8.3 | 8.6  | 9.2  | 7.5            | 7.8 | 8.0 | 8.3 | 8.9  |















































(END OF REPORT)