

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 COMMERCIAL

Report Number: P775972

Luminaire Tested: HCDJBL51525CSD-HCD42TRMW-2500lm-3500K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156A001)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD42TRMW-2500lm-3500K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2418.3 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

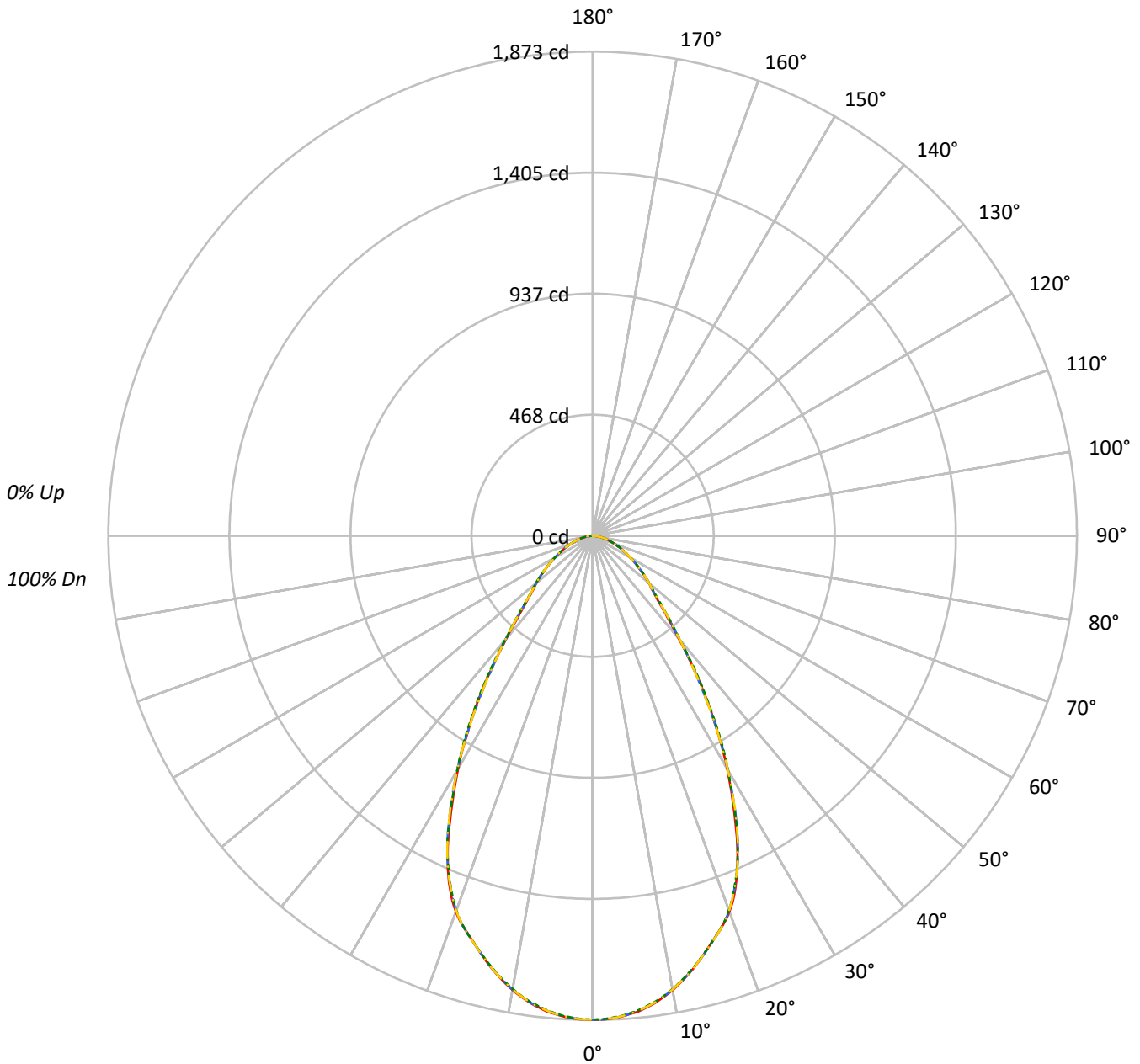
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P775972

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### Luminous Intensity Polar Plot





TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |   |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    |    |    |    |   |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |    |    | 10 |    |    |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 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 | 102 | 102 | 102 | 100 |    |    |    |    |    |   |  |   |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |    |    |    |    |    |   |  |   |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  | 90  | 86  | 83  | 87  | 84  | 82  | 80  |    |    |    |    |    |   |  |   |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 80  | 76  | 73  | 71  |    |    |    |    |    |   |  |   |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |    |    |    |    |    |   |  |   |
| 5   | 85  | 75  | 68  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |    |    |    |   |  |   |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 61  | 56  | 67  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |    |    |   |  |   |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |    |    |    |   |  |   |
| 8   | 71  | 60  | 52  | 48  | 70  | 59  | 52  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |    |    |    |   |  |   |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 48  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 43  | 42  |    |    |    |    |    |   |  |   |
| 10  | 63  | 52  | 45  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 44  | 41  | 49  | 44  | 40  | 39  |    |    |    |    |    |   |  |   |

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

|     | 0°     | 90°    | 180°   | 270°   |
|-----|--------|--------|--------|--------|
| 0°  | 235691 | 235691 | 235691 | 235691 |
| 5°  | 234027 | 233522 | 234027 | 233522 |
| 10° | 227980 | 227468 | 227980 | 227468 |
| 15° | 217896 | 217635 | 217896 | 217635 |
| 20° | 207184 | 206448 | 207184 | 206448 |
| 25° | 183892 | 184489 | 183892 | 184489 |
| 30° | 151291 | 152091 | 151291 | 152091 |
| 35° | 117377 | 118652 | 117377 | 118652 |
| 40° | 85248  | 86743  | 85248  | 86743  |
| 45° | 64553  | 66155  | 64553  | 66155  |
| 50° | 55584  | 56034  | 55584  | 56034  |
| 55° | 48315  | 48863  | 48315  | 48863  |
| 60° | 42235  | 42613  | 42235  | 42613  |
| 65° | 37134  | 37432  | 37134  | 37432  |
| 70° | 32748  | 32932  | 32748  | 32932  |
| 75° | 28786  | 28786  | 28786  | 28786  |
| 80° | 24931  | 24714  | 24931  | 24714  |
| 85° | 19927  | 19927  | 19927  | 19927  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 66155 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.5  | 7.2       |
| 10°-20°   | 469.8  | 19.4      |
| 20°-30°   | 601.6  | 24.9      |
| 30°-40°   | 476.7  | 19.7      |
| 40°-50°   | 291.9  | 12.1      |
| 50°-60°   | 199.5  | 8.3       |
| 60°-70°   | 124.9  | 5.2       |
| 70°-80°   | 63.3   | 2.6       |
| 80°-90°   | 16.0   | 0.7       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1245.9 | 51.5      |
| 0°-40°    | 1722.6 | 71.2      |
| 0°-60°    | 2214.1 | 91.6      |
| 0°-90°    | 2418.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2418.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1873 | 1873 | 1873 | 1873 | 1873 |      |
| 5°  | 1852 | 1848 | 1852 | 1848 | 1852 | 175  |
| 15° | 1672 | 1670 | 1672 | 1670 | 1672 | 470  |
| 25° | 1324 | 1329 | 1324 | 1329 | 1324 | 600  |
| 35° | 764  | 772  | 764  | 772  | 764  | 476  |
| 45° | 363  | 372  | 363  | 372  | 363  | 288  |
| 55° | 220  | 223  | 220  | 223  | 220  | 198  |
| 65° | 125  | 126  | 125  | 126  | 125  | 124  |
| 75° | 59   | 59   | 59   | 59   | 59   | 63   |
| 85° | 14   | 14   | 14   | 14   | 14   | 16   |
| 90° | 0    | 1    | 0    | 1    | 0    |      |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 |
| 0.5°  | 1873.1 | 1872.8 | 1872.3 | 1872.1 | 1871.3 | 1872.1 | 1872.3 | 1872.8 | 1873.1 | 1872.8 | 1872.3 |
| 1°    | 1872.3 | 1872.1 | 1871.8 | 1871.6 | 1870.6 | 1871.6 | 1871.8 | 1872.1 | 1872.3 | 1872.1 | 1871.8 |
| 1.5°  | 1871.3 | 1870.8 | 1870.8 | 1870.3 | 1869.6 | 1870.3 | 1870.8 | 1870.8 | 1871.3 | 1870.8 | 1870.8 |
| 2°    | 1869.8 | 1869.6 | 1869.1 | 1868.8 | 1867.8 | 1868.8 | 1869.1 | 1869.6 | 1869.8 | 1869.6 | 1869.1 |
| 2.5°  | 1868.1 | 1867.6 | 1867.1 | 1866.8 | 1865.6 | 1866.8 | 1867.1 | 1867.6 | 1868.1 | 1867.6 | 1867.1 |
| 3°    | 1865.6 | 1865.1 | 1864.5 | 1864.0 | 1862.8 | 1864.0 | 1864.5 | 1865.1 | 1865.6 | 1865.1 | 1864.5 |
| 3.5°  | 1862.8 | 1862.3 | 1861.5 | 1861.0 | 1860.3 | 1861.0 | 1861.5 | 1862.3 | 1862.8 | 1862.3 | 1861.5 |
| 4°    | 1859.5 | 1859.3 | 1858.3 | 1857.8 | 1856.5 | 1857.8 | 1858.3 | 1859.3 | 1859.5 | 1859.3 | 1858.3 |
| 4.5°  | 1856.0 | 1855.5 | 1854.5 | 1854.0 | 1852.5 | 1854.0 | 1854.5 | 1855.5 | 1856.0 | 1855.5 | 1854.5 |
| 5°    | 1852.5 | 1851.8 | 1850.8 | 1850.3 | 1848.5 | 1850.3 | 1850.8 | 1851.8 | 1852.5 | 1851.8 | 1850.8 |
| 5.5°  | 1848.7 | 1847.0 | 1845.7 | 1845.2 | 1843.7 | 1845.2 | 1845.7 | 1847.0 | 1848.7 | 1847.0 | 1845.7 |
| 6°    | 1843.0 | 1842.0 | 1840.7 | 1840.0 | 1838.0 | 1840.0 | 1840.7 | 1842.0 | 1843.0 | 1842.0 | 1840.7 |
| 6.5°  | 1837.2 | 1836.5 | 1835.0 | 1834.2 | 1832.2 | 1834.2 | 1835.0 | 1836.5 | 1837.2 | 1836.5 | 1835.0 |
| 7°    | 1831.2 | 1830.2 | 1829.4 | 1828.2 | 1826.4 | 1828.2 | 1829.4 | 1830.2 | 1831.2 | 1830.2 | 1829.4 |
| 7.5°  | 1824.4 | 1823.4 | 1822.4 | 1821.9 | 1820.2 | 1821.9 | 1822.4 | 1823.4 | 1824.4 | 1823.4 | 1822.4 |
| 8°    | 1817.1 | 1816.4 | 1815.4 | 1814.6 | 1813.6 | 1814.6 | 1815.4 | 1816.4 | 1817.1 | 1816.4 | 1815.4 |
| 8.5°  | 1809.6 | 1808.6 | 1807.6 | 1806.9 | 1805.9 | 1806.9 | 1807.6 | 1808.6 | 1809.6 | 1808.6 | 1807.6 |
| 9°    | 1801.6 | 1800.8 | 1799.6 | 1798.8 | 1797.8 | 1798.8 | 1799.6 | 1800.8 | 1801.6 | 1800.8 | 1799.6 |
| 9.5°  | 1792.8 | 1792.3 | 1791.1 | 1790.3 | 1789.3 | 1790.3 | 1791.1 | 1792.3 | 1792.8 | 1792.3 | 1791.1 |
| 10°   | 1784.0 | 1783.3 | 1782.3 | 1781.3 | 1780.0 | 1781.3 | 1782.3 | 1783.3 | 1784.0 | 1783.3 | 1782.3 |
| 10.5° | 1774.3 | 1773.8 | 1772.5 | 1771.7 | 1770.7 | 1771.7 | 1772.5 | 1773.8 | 1774.3 | 1773.8 | 1772.5 |
| 11°   | 1764.5 | 1764.0 | 1763.0 | 1762.0 | 1760.7 | 1762.0 | 1763.0 | 1764.0 | 1764.5 | 1764.0 | 1763.0 |
| 11.5° | 1754.2 | 1753.7 | 1752.7 | 1751.7 | 1750.7 | 1751.7 | 1752.7 | 1753.7 | 1754.2 | 1753.7 | 1752.7 |
| 12°   | 1743.7 | 1743.2 | 1742.4 | 1741.1 | 1740.1 | 1741.1 | 1742.4 | 1743.2 | 1743.7 | 1743.2 | 1742.4 |
| 12.5° | 1732.6 | 1732.1 | 1731.4 | 1730.1 | 1728.9 | 1730.1 | 1731.4 | 1732.1 | 1732.6 | 1732.1 | 1731.4 |
| 13°   | 1721.3 | 1720.8 | 1720.1 | 1719.1 | 1717.8 | 1719.1 | 1720.1 | 1720.8 | 1721.3 | 1720.8 | 1720.1 |
| 13.5° | 1709.5 | 1709.0 | 1708.5 | 1707.5 | 1706.5 | 1707.5 | 1708.5 | 1709.0 | 1709.5 | 1709.0 | 1708.5 |
| 14°   | 1697.5 | 1697.3 | 1696.8 | 1695.8 | 1694.7 | 1695.8 | 1696.8 | 1697.3 | 1697.5 | 1697.3 | 1696.8 |
| 14.5° | 1685.0 | 1684.7 | 1684.5 | 1683.5 | 1682.5 | 1683.5 | 1684.5 | 1684.7 | 1685.0 | 1684.7 | 1684.5 |
| 15°   | 1672.4 | 1672.4 | 1671.9 | 1671.4 | 1670.4 | 1671.4 | 1671.9 | 1672.4 | 1672.4 | 1672.4 | 1671.9 |
| 15.5° | 1659.4 | 1659.4 | 1659.9 | 1659.4 | 1658.9 | 1659.4 | 1659.9 | 1659.4 | 1659.4 | 1659.4 | 1659.9 |
| 16°   | 1646.8 | 1647.1 | 1647.8 | 1647.6 | 1647.1 | 1647.6 | 1647.8 | 1647.1 | 1646.8 | 1647.1 | 1647.8 |
| 16.5° | 1634.3 | 1634.8 | 1635.8 | 1635.8 | 1635.6 | 1635.8 | 1635.8 | 1634.8 | 1634.3 | 1634.8 | 1635.8 |
| 17°   | 1622.5 | 1623.0 | 1624.0 | 1623.8 | 1624.0 | 1623.8 | 1624.0 | 1623.0 | 1622.5 | 1623.0 | 1624.0 |
| 17.5° | 1611.0 | 1611.5 | 1612.2 | 1612.0 | 1611.7 | 1612.0 | 1612.2 | 1611.5 | 1611.0 | 1611.5 | 1612.2 |
| 18°   | 1599.7 | 1599.9 | 1600.4 | 1599.9 | 1599.4 | 1599.9 | 1600.4 | 1599.9 | 1599.7 | 1599.9 | 1600.4 |
| 18.5° | 1587.7 | 1587.7 | 1587.7 | 1587.1 | 1586.4 | 1587.1 | 1587.7 | 1587.7 | 1587.7 | 1587.7 | 1587.7 |
| 19°   | 1575.4 | 1574.6 | 1574.1 | 1573.4 | 1572.6 | 1573.4 | 1574.1 | 1574.6 | 1575.4 | 1574.6 | 1574.1 |
| 19.5° | 1561.8 | 1560.8 | 1559.3 | 1558.8 | 1558.1 | 1558.8 | 1559.3 | 1560.8 | 1561.8 | 1560.8 | 1559.3 |
| 20°   | 1547.0 | 1545.8 | 1543.0 | 1543.3 | 1541.5 | 1543.3 | 1543.0 | 1545.8 | 1547.0 | 1545.8 | 1543.0 |
| 20.5° | 1530.7 | 1528.7 | 1525.4 | 1526.5 | 1524.4 | 1526.5 | 1525.4 | 1528.7 | 1530.7 | 1528.7 | 1525.4 |
| 21°   | 1513.7 | 1510.7 | 1506.9 | 1508.1 | 1505.6 | 1508.1 | 1506.9 | 1510.7 | 1513.7 | 1510.7 | 1506.9 |



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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° | 1451.2 | 1448.2 | 1445.7 | 1445.4 | 1444.2 | 1445.4 | 1445.7 | 1448.2 | 1451.2 | 1448.2 | 1445.7 |
| 23°   | 1427.4 | 1424.9 | 1424.4 | 1422.6 | 1422.1 | 1422.6 | 1424.4 | 1424.9 | 1427.4 | 1424.9 | 1424.4 |
| 23.5° | 1403.1 | 1400.8 | 1402.0 | 1399.0 | 1400.3 | 1399.0 | 1402.0 | 1400.8 | 1403.1 | 1400.8 | 1402.0 |
| 24°   | 1377.7 | 1376.0 | 1379.0 | 1375.0 | 1377.2 | 1375.0 | 1379.0 | 1376.0 | 1377.7 | 1376.0 | 1379.0 |
| 24.5° | 1351.6 | 1350.9 | 1354.6 | 1350.6 | 1353.6 | 1350.6 | 1354.6 | 1350.9 | 1351.6 | 1350.9 | 1354.6 |
| 25°   | 1324.3 | 1324.8 | 1329.3 | 1326.3 | 1328.6 | 1326.3 | 1329.3 | 1324.8 | 1324.3 | 1324.8 | 1329.3 |
| 25.5° | 1296.0 | 1299.2 | 1303.2 | 1302.0 | 1302.5 | 1302.0 | 1303.2 | 1299.2 | 1296.0 | 1299.2 | 1303.2 |
| 26°   | 1266.9 | 1272.6 | 1276.4 | 1276.6 | 1274.6 | 1276.6 | 1276.4 | 1272.6 | 1266.9 | 1272.6 | 1276.4 |
| 26.5° | 1237.0 | 1245.5 | 1248.6 | 1250.3 | 1245.8 | 1250.3 | 1248.6 | 1245.5 | 1237.0 | 1245.5 | 1248.6 |
| 27°   | 1207.9 | 1217.4 | 1220.5 | 1223.2 | 1216.4 | 1223.2 | 1220.5 | 1217.4 | 1207.9 | 1217.4 | 1220.5 |
| 27.5° | 1179.3 | 1188.4 | 1191.9 | 1195.4 | 1186.6 | 1195.4 | 1191.9 | 1188.4 | 1179.3 | 1188.4 | 1191.9 |
| 28°   | 1150.7 | 1159.3 | 1162.8 | 1166.3 | 1156.8 | 1166.3 | 1162.8 | 1159.3 | 1150.7 | 1159.3 | 1162.8 |
| 28.5° | 1122.9 | 1129.7 | 1133.7 | 1136.7 | 1127.9 | 1136.7 | 1133.7 | 1129.7 | 1122.9 | 1129.7 | 1133.7 |
| 29°   | 1095.3 | 1099.8 | 1104.6 | 1106.6 | 1100.6 | 1106.6 | 1104.6 | 1099.8 | 1095.3 | 1099.8 | 1104.6 |
| 29.5° | 1068.2 | 1070.5 | 1075.7 | 1076.5 | 1073.7 | 1076.5 | 1075.7 | 1070.5 | 1068.2 | 1070.5 | 1075.7 |
| 30°   | 1041.1 | 1040.4 | 1046.1 | 1046.4 | 1046.6 | 1046.4 | 1046.1 | 1040.4 | 1041.1 | 1040.4 | 1046.1 |
| 30.5° | 1013.0 | 1011.3 | 1016.8 | 1017.3 | 1021.1 | 1017.3 | 1016.8 | 1011.3 | 1013.0 | 1011.3 | 1016.8 |
| 31°   | 985.2  | 981.4  | 987.2  | 988.2  | 994.0  | 988.2  | 987.2  | 981.4  | 985.2  | 981.4  | 987.2  |
| 31.5° | 956.6  | 952.8  | 957.6  | 959.4  | 966.6  | 959.4  | 957.6  | 952.8  | 956.6  | 952.8  | 957.6  |
| 32°   | 927.5  | 924.0  | 928.3  | 931.0  | 938.5  | 931.0  | 928.3  | 924.0  | 927.5  | 924.0  | 928.3  |
| 32.5° | 899.4  | 896.4  | 899.4  | 902.9  | 910.5  | 902.9  | 899.4  | 896.4  | 899.4  | 896.4  | 899.4  |
| 33°   | 871.1  | 868.8  | 869.8  | 874.8  | 881.9  | 874.8  | 869.8  | 868.8  | 871.1  | 868.8  | 869.8  |
| 33.5° | 845.7  | 841.2  | 840.5  | 846.7  | 853.0  | 846.7  | 840.5  | 841.2  | 845.7  | 841.2  | 840.5  |
| 34°   | 818.4  | 813.6  | 811.4  | 819.2  | 825.7  | 819.2  | 811.4  | 813.6  | 818.4  | 813.6  | 811.4  |
| 34.5° | 791.3  | 786.3  | 783.0  | 791.3  | 798.6  | 791.3  | 783.0  | 786.3  | 791.3  | 786.3  | 783.0  |
| 35°   | 764.0  | 759.7  | 756.2  | 764.5  | 772.3  | 764.5  | 756.2  | 759.7  | 764.0  | 759.7  | 756.2  |
| 35.5° | 737.4  | 733.4  | 729.6  | 737.9  | 746.4  | 737.9  | 729.6  | 733.4  | 737.4  | 733.4  | 729.6  |
| 36°   | 711.3  | 707.0  | 703.8  | 712.3  | 721.1  | 712.3  | 703.8  | 707.0  | 711.3  | 707.0  | 703.8  |
| 36.5° | 685.5  | 681.7  | 678.7  | 687.0  | 695.3  | 687.0  | 678.7  | 681.7  | 685.5  | 681.7  | 678.7  |
| 37°   | 659.4  | 656.6  | 654.1  | 662.4  | 669.7  | 662.4  | 654.1  | 656.6  | 659.4  | 656.6  | 654.1  |
| 37.5° | 634.1  | 632.3  | 630.5  | 638.8  | 644.1  | 638.8  | 630.5  | 632.3  | 634.1  | 632.3  | 630.5  |
| 38°   | 609.0  | 608.7  | 608.0  | 615.7  | 618.8  | 615.7  | 608.0  | 608.7  | 609.0  | 608.7  | 608.0  |
| 38.5° | 585.4  | 585.9  | 586.4  | 593.2  | 594.4  | 593.2  | 586.4  | 585.9  | 585.4  | 585.9  | 586.4  |
| 39°   | 562.6  | 563.8  | 564.8  | 571.4  | 571.1  | 571.4  | 564.8  | 563.8  | 562.6  | 563.8  | 564.8  |
| 39.5° | 540.3  | 542.5  | 544.3  | 549.8  | 549.0  | 549.8  | 544.3  | 542.5  | 540.3  | 542.5  | 544.3  |
| 40°   | 518.9  | 521.4  | 524.5  | 529.0  | 528.0  | 529.0  | 524.5  | 521.4  | 518.9  | 521.4  | 524.5  |
| 40.5° | 498.9  | 501.4  | 505.4  | 508.7  | 508.4  | 508.7  | 505.4  | 501.4  | 498.9  | 501.4  | 505.4  |
| 41°   | 479.6  | 482.1  | 487.3  | 489.6  | 490.3  | 489.6  | 487.3  | 482.1  | 479.6  | 482.1  | 487.3  |
| 41.5° | 461.2  | 464.0  | 470.0  | 471.3  | 473.5  | 471.3  | 470.0  | 464.0  | 461.2  | 464.0  | 470.0  |
| 42°   | 444.2  | 447.0  | 453.5  | 454.2  | 457.2  | 454.2  | 453.5  | 447.0  | 444.2  | 447.0  | 453.5  |
| 42.5° | 428.1  | 430.9  | 437.9  | 438.2  | 441.4  | 438.2  | 437.9  | 430.9  | 428.1  | 430.9  | 437.9  |
| 43°   | 412.8  | 415.8  | 422.6  | 423.1  | 426.1  | 423.1  | 422.6  | 415.8  | 412.8  | 415.8  | 422.6  |
| 43.5° | 398.8  | 401.8  | 408.3  | 408.6  | 411.3  | 408.6  | 408.3  | 401.8  | 398.8  | 401.8  | 408.3  |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 362.7 | 365.2 | 369.2 | 370.5 | 371.7 | 370.5  | 369.2 | 365.2  | 362.7 | 365.2  | 369.2 |
| 45.5° | 352.1 | 354.1 | 357.9 | 359.2 | 360.2 | 359.2  | 357.9 | 354.1  | 352.1 | 354.1  | 357.9 |
| 46°   | 342.1 | 343.9 | 347.1 | 348.9 | 349.4 | 348.9  | 347.1 | 343.9  | 342.1 | 343.9  | 347.1 |
| 46.5° | 332.8 | 334.3 | 336.8 | 338.8 | 339.4 | 338.8  | 336.8 | 334.3  | 332.8 | 334.3  | 336.8 |
| 47°   | 324.1 | 325.1 | 327.6 | 329.6 | 330.3 | 329.6  | 327.6 | 325.1  | 324.1 | 325.1  | 327.6 |
| 47.5° | 315.8 | 316.5 | 318.8 | 321.0 | 322.0 | 321.0  | 318.8 | 316.5  | 315.8 | 316.5  | 318.8 |
| 48°   | 308.0 | 309.0 | 311.3 | 313.3 | 314.3 | 313.3  | 311.3 | 309.0  | 308.0 | 309.0  | 311.3 |
| 48.5° | 301.7 | 302.2 | 304.0 | 306.0 | 306.7 | 306.0  | 304.0 | 302.2  | 301.7 | 302.2  | 304.0 |
| 49°   | 295.7 | 296.0 | 297.5 | 299.0 | 299.7 | 299.0  | 297.5 | 296.0  | 295.7 | 296.0  | 297.5 |
| 49.5° | 289.9 | 290.2 | 291.2 | 292.4 | 292.7 | 292.4  | 291.2 | 290.2  | 289.9 | 290.2  | 291.2 |
| 50°   | 283.9 | 284.2 | 284.9 | 285.9 | 286.2 | 285.9  | 284.9 | 284.2  | 283.9 | 284.2  | 284.9 |
| 50.5° | 277.9 | 278.2 | 278.7 | 279.7 | 279.7 | 279.7  | 278.7 | 278.2  | 277.9 | 278.2  | 278.7 |
| 51°   | 271.1 | 271.6 | 272.4 | 273.4 | 273.4 | 273.4  | 272.4 | 271.6  | 271.1 | 271.6  | 272.4 |
| 51.5° | 264.6 | 264.9 | 265.9 | 267.1 | 267.4 | 267.1  | 265.9 | 264.9  | 264.6 | 264.9  | 265.9 |
| 52°   | 257.8 | 258.3 | 259.3 | 260.6 | 260.8 | 260.6  | 259.3 | 258.3  | 257.8 | 258.3  | 259.3 |
| 52.5° | 251.1 | 251.6 | 252.8 | 253.8 | 254.3 | 253.8  | 252.8 | 251.6  | 251.1 | 251.6  | 252.8 |
| 53°   | 244.8 | 245.3 | 246.3 | 247.3 | 247.8 | 247.3  | 246.3 | 245.3  | 244.8 | 245.3  | 246.3 |
| 53.5° | 238.3 | 238.8 | 239.8 | 241.0 | 241.5 | 241.0  | 239.8 | 238.8  | 238.3 | 238.8  | 239.8 |
| 54°   | 232.3 | 232.5 | 233.5 | 234.5 | 235.0 | 234.5  | 233.5 | 232.5  | 232.3 | 232.5  | 233.5 |
| 54.5° | 226.2 | 226.5 | 227.5 | 228.5 | 229.0 | 228.5  | 227.5 | 226.5  | 226.2 | 226.5  | 227.5 |
| 55°   | 220.2 | 220.7 | 221.7 | 222.5 | 222.7 | 222.5  | 221.7 | 220.7  | 220.2 | 220.7  | 221.7 |
| 55.5° | 214.4 | 214.9 | 216.0 | 216.7 | 217.0 | 216.7  | 216.0 | 214.9  | 214.4 | 214.9  | 216.0 |
| 56°   | 208.9 | 209.4 | 210.2 | 210.9 | 211.2 | 210.9  | 210.2 | 209.4  | 208.9 | 209.4  | 210.2 |
| 56.5° | 203.4 | 203.9 | 204.7 | 205.4 | 205.7 | 205.4  | 204.7 | 203.9  | 203.4 | 203.9  | 204.7 |
| 57°   | 197.9 | 198.4 | 199.1 | 199.9 | 200.1 | 199.9  | 199.1 | 198.4  | 197.9 | 198.4  | 199.1 |
| 57.5° | 192.4 | 193.1 | 193.9 | 194.4 | 194.9 | 194.4  | 193.9 | 193.1  | 192.4 | 193.1  | 193.9 |
| 58°   | 187.6 | 187.9 | 188.6 | 189.4 | 189.6 | 189.4  | 188.6 | 187.9  | 187.6 | 187.9  | 188.6 |
| 58.5° | 182.6 | 182.8 | 183.6 | 184.1 | 184.3 | 184.1  | 183.6 | 182.8  | 182.6 | 182.8  | 183.6 |
| 59°   | 177.6 | 177.8 | 178.3 | 178.8 | 179.3 | 178.8  | 178.3 | 177.8  | 177.6 | 177.8  | 178.3 |
| 59.5° | 172.6 | 172.8 | 173.3 | 174.1 | 174.3 | 174.1  | 173.3 | 172.8  | 172.6 | 172.8  | 173.3 |
| 60°   | 167.8 | 168.0 | 168.5 | 169.0 | 169.3 | 169.0  | 168.5 | 168.0  | 167.8 | 168.0  | 168.5 |
| 60.5° | 163.0 | 163.3 | 163.8 | 164.3 | 164.5 | 164.3  | 163.8 | 163.3  | 163.0 | 163.3  | 163.8 |
| 61°   | 158.5 | 158.8 | 159.3 | 159.8 | 160.0 | 159.8  | 159.3 | 158.8  | 158.5 | 158.8  | 159.3 |
| 61.5° | 154.0 | 154.3 | 154.8 | 155.3 | 155.5 | 155.3  | 154.8 | 154.3  | 154.0 | 154.3  | 154.8 |
| 62°   | 149.7 | 149.7 | 150.2 | 150.7 | 150.7 | 150.7  | 150.2 | 149.7  | 149.7 | 149.7  | 150.2 |
| 62.5° | 145.2 | 145.5 | 145.7 | 146.2 | 146.5 | 146.2  | 145.7 | 145.5  | 145.2 | 145.5  | 145.7 |
| 63°   | 141.0 | 141.2 | 141.5 | 142.0 | 142.0 | 142.0  | 141.5 | 141.2  | 141.0 | 141.2  | 141.5 |
| 63.5° | 136.7 | 136.9 | 137.2 | 137.7 | 137.9 | 137.7  | 137.2 | 136.9  | 136.7 | 136.9  | 137.2 |
| 64°   | 132.7 | 132.9 | 133.2 | 133.4 | 133.7 | 133.4  | 133.2 | 132.9  | 132.7 | 132.9  | 133.2 |
| 64.5° | 128.7 | 128.9 | 129.2 | 129.4 | 129.7 | 129.4  | 129.2 | 128.9  | 128.7 | 128.9  | 129.2 |
| 65°   | 124.7 | 124.9 | 125.2 | 125.4 | 125.7 | 125.4  | 125.2 | 124.9  | 124.7 | 124.9  | 125.2 |
| 65.5° | 120.9 | 120.9 | 121.1 | 121.6 | 121.6 | 121.6  | 121.1 | 120.9  | 120.9 | 120.9  | 121.1 |
| 66°   | 116.9 | 117.1 | 117.4 | 117.6 | 117.9 | 117.6  | 117.4 | 117.1  | 116.9 | 117.1  | 117.4 |





TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 105.8 | 106.1 | 106.3 | 106.6 | 106.6 | 106.6  | 106.3 | 106.1  | 105.8 | 106.1  | 106.3 |
| 68°   | 102.3 | 102.6 | 102.8 | 103.1 | 103.1 | 103.1  | 102.8 | 102.6  | 102.3 | 102.6  | 102.8 |
| 68.5° | 98.8  | 99.1  | 99.3  | 99.3  | 99.6  | 99.3   | 99.3  | 99.1   | 98.8  | 99.1   | 99.3  |
| 69°   | 95.6  | 95.6  | 95.6  | 96.1  | 96.1  | 96.1   | 95.6  | 95.6   | 95.6  | 95.6   | 95.6  |
| 69.5° | 92.0  | 92.3  | 92.3  | 92.6  | 92.8  | 92.6   | 92.3  | 92.3   | 92.0  | 92.3   | 92.3  |
| 70°   | 89.0  | 89.3  | 89.0  | 89.3  | 89.5  | 89.3   | 89.0  | 89.3   | 89.0  | 89.3   | 89.0  |
| 70.5° | 85.8  | 86.0  | 86.0  | 86.0  | 86.3  | 86.0   | 86.0  | 86.0   | 85.8  | 86.0   | 86.0  |
| 71°   | 82.8  | 82.8  | 82.8  | 82.8  | 83.0  | 82.8   | 82.8  | 82.8   | 82.8  | 82.8   | 82.8  |
| 71.5° | 79.5  | 79.5  | 79.8  | 79.8  | 79.8  | 79.8   | 79.8  | 79.5   | 79.5  | 79.5   | 79.8  |
| 72°   | 76.5  | 76.5  | 76.5  | 76.7  | 76.7  | 76.7   | 76.5  | 76.5   | 76.5  | 76.5   | 76.5  |
| 72.5° | 73.5  | 73.5  | 73.5  | 73.7  | 73.7  | 73.7   | 73.5  | 73.5   | 73.5  | 73.5   | 73.5  |
| 73°   | 70.5  | 70.5  | 70.5  | 70.7  | 70.7  | 70.7   | 70.5  | 70.5   | 70.5  | 70.5   | 70.5  |
| 73.5° | 67.5  | 67.5  | 67.7  | 67.7  | 67.7  | 67.7   | 67.7  | 67.5   | 67.5  | 67.5   | 67.7  |
| 74°   | 64.7  | 64.7  | 64.7  | 65.0  | 65.0  | 65.0   | 64.7  | 64.7   | 64.7  | 64.7   | 64.7  |
| 74.5° | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  | 62.0   | 62.0  | 62.0   | 62.0  | 62.0   | 62.0  |
| 75°   | 59.2  | 59.2  | 59.2  | 59.2  | 59.2  | 59.2   | 59.2  | 59.2   | 59.2  | 59.2   | 59.2  |
| 75.5° | 56.4  | 56.4  | 56.4  | 56.4  | 56.7  | 56.4   | 56.4  | 56.4   | 56.4  | 56.4   | 56.4  |
| 76°   | 53.9  | 53.7  | 53.7  | 53.9  | 53.9  | 53.9   | 53.7  | 53.7   | 53.9  | 53.7   | 53.7  |
| 76.5° | 51.2  | 51.2  | 51.2  | 51.2  | 51.2  | 51.2   | 51.2  | 51.2   | 51.2  | 51.2   | 51.2  |
| 77°   | 48.7  | 48.7  | 48.7  | 48.7  | 48.7  | 48.7   | 48.7  | 48.7   | 48.7  | 48.7   | 48.7  |
| 77.5° | 46.1  | 46.1  | 46.1  | 46.1  | 46.1  | 46.1   | 46.1  | 46.1   | 46.1  | 46.1   | 46.1  |
| 78°   | 43.6  | 43.6  | 43.6  | 43.6  | 43.6  | 43.6   | 43.6  | 43.6   | 43.6  | 43.6   | 43.6  |
| 78.5° | 41.4  | 41.4  | 41.1  | 41.1  | 41.4  | 41.1   | 41.1  | 41.4   | 41.4  | 41.4   | 41.1  |
| 79°   | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9   | 38.9  | 38.9   | 38.9  | 38.9   | 38.9  |
| 79.5° | 36.6  | 36.6  | 36.4  | 36.6  | 36.6  | 36.6   | 36.4  | 36.6   | 36.6  | 36.6   | 36.4  |
| 80°   | 34.4  | 34.4  | 34.1  | 34.1  | 34.1  | 34.1   | 34.1  | 34.4   | 34.4  | 34.4   | 34.1  |
| 80.5° | 32.1  | 32.1  | 32.1  | 32.1  | 32.1  | 32.1   | 32.1  | 32.1   | 32.1  | 32.1   | 32.1  |
| 81°   | 29.8  | 29.8  | 29.8  | 29.8  | 29.8  | 29.8   | 29.8  | 29.8   | 29.8  | 29.8   | 29.8  |
| 81.5° | 27.6  | 27.6  | 27.6  | 27.6  | 27.6  | 27.6   | 27.6  | 27.6   | 27.6  | 27.6   | 27.6  |
| 82°   | 25.6  | 25.6  | 25.6  | 25.6  | 25.6  | 25.6   | 25.6  | 25.6   | 25.6  | 25.6   | 25.6  |
| 82.5° | 23.6  | 23.6  | 23.6  | 23.6  | 23.3  | 23.6   | 23.6  | 23.6   | 23.6  | 23.6   | 23.6  |
| 83°   | 21.6  | 21.6  | 21.6  | 21.3  | 21.3  | 21.3   | 21.6  | 21.6   | 21.6  | 21.6   | 21.6  |
| 83.5° | 19.6  | 19.6  | 19.6  | 19.3  | 19.3  | 19.3   | 19.6  | 19.6   | 19.6  | 19.6   | 19.6  |
| 84°   | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  | 17.6   | 17.6  | 17.6   | 17.6  | 17.6   | 17.6  |
| 84.5° | 15.8  | 15.6  | 15.6  | 15.6  | 15.6  | 15.6   | 15.6  | 15.6   | 15.8  | 15.6   | 15.6  |
| 85°   | 13.8  | 13.8  | 13.8  | 13.8  | 13.8  | 13.8   | 13.8  | 13.8   | 13.8  | 13.8   | 13.8  |
| 85.5° | 12.0  | 11.8  | 12.0  | 11.8  | 12.0  | 11.8   | 12.0  | 11.8   | 12.0  | 11.8   | 12.0  |
| 86°   | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0   | 10.0  | 10.0   | 10.0  | 10.0   | 10.0  |
| 86.5° | 8.5   | 8.3   | 8.3   | 8.3   | 8.5   | 8.3    | 8.3   | 8.3    | 8.5   | 8.3    | 8.3   |
| 87°   | 6.8   | 6.8   | 6.8   | 6.5   | 6.8   | 6.5    | 6.8   | 6.8    | 6.8   | 6.8    | 6.8   |
| 87.5° | 5.0   | 5.0   | 5.0   | 5.0   | 5.3   | 5.0    | 5.0   | 5.0    | 5.0   | 5.0    | 5.0   |
| 88°   | 3.3   | 3.5   | 3.5   | 3.8   | 3.8   | 3.8    | 3.5   | 3.5    | 3.3   | 3.5    | 3.5   |
| 88.5° | 2.0   | 2.0   | 2.3   | 2.5   | 3.0   | 2.5    | 2.3   | 2.0    | 2.0   | 2.0    | 2.3   |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-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   | 0.3 | 0.5   | 0.8 | 0.5    | 0.3  | 0.0    | 0.0  | 0.0    | 0.3  |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 | 1872.8 |
| 0.5°  | 1872.1 | 1871.3 | 1872.1 | 1872.3 | 1872.8 | 1873.1 |
| 1°    | 1871.6 | 1870.6 | 1871.6 | 1871.8 | 1872.1 | 1872.3 |
| 1.5°  | 1870.3 | 1869.6 | 1870.3 | 1870.8 | 1870.8 | 1871.3 |
| 2°    | 1868.8 | 1867.8 | 1868.8 | 1869.1 | 1869.6 | 1869.8 |
| 2.5°  | 1866.8 | 1865.6 | 1866.8 | 1867.1 | 1867.6 | 1868.1 |
| 3°    | 1864.0 | 1862.8 | 1864.0 | 1864.5 | 1865.1 | 1865.6 |
| 3.5°  | 1861.0 | 1860.3 | 1861.0 | 1861.5 | 1862.3 | 1862.8 |
| 4°    | 1857.8 | 1856.5 | 1857.8 | 1858.3 | 1859.3 | 1859.5 |
| 4.5°  | 1854.0 | 1852.5 | 1854.0 | 1854.5 | 1855.5 | 1856.0 |
| 5°    | 1850.3 | 1848.5 | 1850.3 | 1850.8 | 1851.8 | 1852.5 |
| 5.5°  | 1845.2 | 1843.7 | 1845.2 | 1845.7 | 1847.0 | 1848.7 |
| 6°    | 1840.0 | 1838.0 | 1840.0 | 1840.7 | 1842.0 | 1843.0 |
| 6.5°  | 1834.2 | 1832.2 | 1834.2 | 1835.0 | 1836.5 | 1837.2 |
| 7°    | 1828.2 | 1826.4 | 1828.2 | 1829.4 | 1830.2 | 1831.2 |
| 7.5°  | 1821.9 | 1820.2 | 1821.9 | 1822.4 | 1823.4 | 1824.4 |
| 8°    | 1814.6 | 1813.6 | 1814.6 | 1815.4 | 1816.4 | 1817.1 |
| 8.5°  | 1806.9 | 1805.9 | 1806.9 | 1807.6 | 1808.6 | 1809.6 |
| 9°    | 1798.8 | 1797.8 | 1798.8 | 1799.6 | 1800.8 | 1801.6 |
| 9.5°  | 1790.3 | 1789.3 | 1790.3 | 1791.1 | 1792.3 | 1792.8 |
| 10°   | 1781.3 | 1780.0 | 1781.3 | 1782.3 | 1783.3 | 1784.0 |
| 10.5° | 1771.7 | 1770.7 | 1771.7 | 1772.5 | 1773.8 | 1774.3 |
| 11°   | 1762.0 | 1760.7 | 1762.0 | 1763.0 | 1764.0 | 1764.5 |
| 11.5° | 1751.7 | 1750.7 | 1751.7 | 1752.7 | 1753.7 | 1754.2 |
| 12°   | 1741.1 | 1740.1 | 1741.1 | 1742.4 | 1743.2 | 1743.7 |
| 12.5° | 1730.1 | 1728.9 | 1730.1 | 1731.4 | 1732.1 | 1732.6 |
| 13°   | 1719.1 | 1717.8 | 1719.1 | 1720.1 | 1720.8 | 1721.3 |
| 13.5° | 1707.5 | 1706.5 | 1707.5 | 1708.5 | 1709.0 | 1709.5 |
| 14°   | 1695.8 | 1694.7 | 1695.8 | 1696.8 | 1697.3 | 1697.5 |
| 14.5° | 1683.5 | 1682.5 | 1683.5 | 1684.5 | 1684.7 | 1685.0 |
| 15°   | 1671.4 | 1670.4 | 1671.4 | 1671.9 | 1672.4 | 1672.4 |
| 15.5° | 1659.4 | 1658.9 | 1659.4 | 1659.9 | 1659.4 | 1659.4 |
| 16°   | 1647.6 | 1647.1 | 1647.6 | 1647.8 | 1647.1 | 1646.8 |
| 16.5° | 1635.8 | 1635.6 | 1635.8 | 1635.8 | 1634.8 | 1634.3 |
| 17°   | 1623.8 | 1624.0 | 1623.8 | 1624.0 | 1623.0 | 1622.5 |
| 17.5° | 1612.0 | 1611.7 | 1612.0 | 1612.2 | 1611.5 | 1611.0 |
| 18°   | 1599.9 | 1599.4 | 1599.9 | 1600.4 | 1599.9 | 1599.7 |
| 18.5° | 1587.1 | 1586.4 | 1587.1 | 1587.7 | 1587.7 | 1587.7 |
| 19°   | 1573.4 | 1572.6 | 1573.4 | 1574.1 | 1574.6 | 1575.4 |
| 19.5° | 1558.8 | 1558.1 | 1558.8 | 1559.3 | 1560.8 | 1561.8 |
| 20°   | 1543.3 | 1541.5 | 1543.3 | 1543.0 | 1545.8 | 1547.0 |
| 20.5° | 1526.5 | 1524.4 | 1526.5 | 1525.4 | 1528.7 | 1530.7 |
| 21°   | 1508.1 | 1505.6 | 1508.1 | 1506.9 | 1510.7 | 1513.7 |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1445.4 | 1444.2 | 1445.4 | 1445.7 | 1448.2 | 1451.2 |
| 23°   | 1422.6 | 1422.1 | 1422.6 | 1424.4 | 1424.9 | 1427.4 |
| 23.5° | 1399.0 | 1400.3 | 1399.0 | 1402.0 | 1400.8 | 1403.1 |
| 24°   | 1375.0 | 1377.2 | 1375.0 | 1379.0 | 1376.0 | 1377.7 |
| 24.5° | 1350.6 | 1353.6 | 1350.6 | 1354.6 | 1350.9 | 1351.6 |
| 25°   | 1326.3 | 1328.6 | 1326.3 | 1329.3 | 1324.8 | 1324.3 |
| 25.5° | 1302.0 | 1302.5 | 1302.0 | 1303.2 | 1299.2 | 1296.0 |
| 26°   | 1276.6 | 1274.6 | 1276.6 | 1276.4 | 1272.6 | 1266.9 |
| 26.5° | 1250.3 | 1245.8 | 1250.3 | 1248.6 | 1245.5 | 1237.0 |
| 27°   | 1223.2 | 1216.4 | 1223.2 | 1220.5 | 1217.4 | 1207.9 |
| 27.5° | 1195.4 | 1186.6 | 1195.4 | 1191.9 | 1188.4 | 1179.3 |
| 28°   | 1166.3 | 1156.8 | 1166.3 | 1162.8 | 1159.3 | 1150.7 |
| 28.5° | 1136.7 | 1127.9 | 1136.7 | 1133.7 | 1129.7 | 1122.9 |
| 29°   | 1106.6 | 1100.6 | 1106.6 | 1104.6 | 1099.8 | 1095.3 |
| 29.5° | 1076.5 | 1073.7 | 1076.5 | 1075.7 | 1070.5 | 1068.2 |
| 30°   | 1046.4 | 1046.6 | 1046.4 | 1046.1 | 1040.4 | 1041.1 |
| 30.5° | 1017.3 | 1021.1 | 1017.3 | 1016.8 | 1011.3 | 1013.0 |
| 31°   | 988.2  | 994.0  | 988.2  | 987.2  | 981.4  | 985.2  |
| 31.5° | 959.4  | 966.6  | 959.4  | 957.6  | 952.8  | 956.6  |
| 32°   | 931.0  | 938.5  | 931.0  | 928.3  | 924.0  | 927.5  |
| 32.5° | 902.9  | 910.5  | 902.9  | 899.4  | 896.4  | 899.4  |
| 33°   | 874.8  | 881.9  | 874.8  | 869.8  | 868.8  | 871.1  |
| 33.5° | 846.7  | 853.0  | 846.7  | 840.5  | 841.2  | 845.7  |
| 34°   | 819.2  | 825.7  | 819.2  | 811.4  | 813.6  | 818.4  |
| 34.5° | 791.3  | 798.6  | 791.3  | 783.0  | 786.3  | 791.3  |
| 35°   | 764.5  | 772.3  | 764.5  | 756.2  | 759.7  | 764.0  |
| 35.5° | 737.9  | 746.4  | 737.9  | 729.6  | 733.4  | 737.4  |
| 36°   | 712.3  | 721.1  | 712.3  | 703.8  | 707.0  | 711.3  |
| 36.5° | 687.0  | 695.3  | 687.0  | 678.7  | 681.7  | 685.5  |
| 37°   | 662.4  | 669.7  | 662.4  | 654.1  | 656.6  | 659.4  |
| 37.5° | 638.8  | 644.1  | 638.8  | 630.5  | 632.3  | 634.1  |
| 38°   | 615.7  | 618.8  | 615.7  | 608.0  | 608.7  | 609.0  |
| 38.5° | 593.2  | 594.4  | 593.2  | 586.4  | 585.9  | 585.4  |
| 39°   | 571.4  | 571.1  | 571.4  | 564.8  | 563.8  | 562.6  |
| 39.5° | 549.8  | 549.0  | 549.8  | 544.3  | 542.5  | 540.3  |
| 40°   | 529.0  | 528.0  | 529.0  | 524.5  | 521.4  | 518.9  |
| 40.5° | 508.7  | 508.4  | 508.7  | 505.4  | 501.4  | 498.9  |
| 41°   | 489.6  | 490.3  | 489.6  | 487.3  | 482.1  | 479.6  |
| 41.5° | 471.3  | 473.5  | 471.3  | 470.0  | 464.0  | 461.2  |
| 42°   | 454.2  | 457.2  | 454.2  | 453.5  | 447.0  | 444.2  |
| 42.5° | 438.2  | 441.4  | 438.2  | 437.9  | 430.9  | 428.1  |
| 43°   | 423.1  | 426.1  | 423.1  | 422.6  | 415.8  | 412.8  |
| 43.5° | 408.6  | 411.3  | 408.6  | 408.3  | 401.8  | 398.8  |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 370.5  | 371.7 | 370.5  | 369.2 | 365.2  | 362.7 |
| 45.5° | 359.2  | 360.2 | 359.2  | 357.9 | 354.1  | 352.1 |
| 46°   | 348.9  | 349.4 | 348.9  | 347.1 | 343.9  | 342.1 |
| 46.5° | 338.8  | 339.4 | 338.8  | 336.8 | 334.3  | 332.8 |
| 47°   | 329.6  | 330.3 | 329.6  | 327.6 | 325.1  | 324.1 |
| 47.5° | 321.0  | 322.0 | 321.0  | 318.8 | 316.5  | 315.8 |
| 48°   | 313.3  | 314.3 | 313.3  | 311.3 | 309.0  | 308.0 |
| 48.5° | 306.0  | 306.7 | 306.0  | 304.0 | 302.2  | 301.7 |
| 49°   | 299.0  | 299.7 | 299.0  | 297.5 | 296.0  | 295.7 |
| 49.5° | 292.4  | 292.7 | 292.4  | 291.2 | 290.2  | 289.9 |
| 50°   | 285.9  | 286.2 | 285.9  | 284.9 | 284.2  | 283.9 |
| 50.5° | 279.7  | 279.7 | 279.7  | 278.7 | 278.2  | 277.9 |
| 51°   | 273.4  | 273.4 | 273.4  | 272.4 | 271.6  | 271.1 |
| 51.5° | 267.1  | 267.4 | 267.1  | 265.9 | 264.9  | 264.6 |
| 52°   | 260.6  | 260.8 | 260.6  | 259.3 | 258.3  | 257.8 |
| 52.5° | 253.8  | 254.3 | 253.8  | 252.8 | 251.6  | 251.1 |
| 53°   | 247.3  | 247.8 | 247.3  | 246.3 | 245.3  | 244.8 |
| 53.5° | 241.0  | 241.5 | 241.0  | 239.8 | 238.8  | 238.3 |
| 54°   | 234.5  | 235.0 | 234.5  | 233.5 | 232.5  | 232.3 |
| 54.5° | 228.5  | 229.0 | 228.5  | 227.5 | 226.5  | 226.2 |
| 55°   | 222.5  | 222.7 | 222.5  | 221.7 | 220.7  | 220.2 |
| 55.5° | 216.7  | 217.0 | 216.7  | 216.0 | 214.9  | 214.4 |
| 56°   | 210.9  | 211.2 | 210.9  | 210.2 | 209.4  | 208.9 |
| 56.5° | 205.4  | 205.7 | 205.4  | 204.7 | 203.9  | 203.4 |
| 57°   | 199.9  | 200.1 | 199.9  | 199.1 | 198.4  | 197.9 |
| 57.5° | 194.4  | 194.9 | 194.4  | 193.9 | 193.1  | 192.4 |
| 58°   | 189.4  | 189.6 | 189.4  | 188.6 | 187.9  | 187.6 |
| 58.5° | 184.1  | 184.3 | 184.1  | 183.6 | 182.8  | 182.6 |
| 59°   | 178.8  | 179.3 | 178.8  | 178.3 | 177.8  | 177.6 |
| 59.5° | 174.1  | 174.3 | 174.1  | 173.3 | 172.8  | 172.6 |
| 60°   | 169.0  | 169.3 | 169.0  | 168.5 | 168.0  | 167.8 |
| 60.5° | 164.3  | 164.5 | 164.3  | 163.8 | 163.3  | 163.0 |
| 61°   | 159.8  | 160.0 | 159.8  | 159.3 | 158.8  | 158.5 |
| 61.5° | 155.3  | 155.5 | 155.3  | 154.8 | 154.3  | 154.0 |
| 62°   | 150.7  | 150.7 | 150.7  | 150.2 | 149.7  | 149.7 |
| 62.5° | 146.2  | 146.5 | 146.2  | 145.7 | 145.5  | 145.2 |
| 63°   | 142.0  | 142.0 | 142.0  | 141.5 | 141.2  | 141.0 |
| 63.5° | 137.7  | 137.9 | 137.7  | 137.2 | 136.9  | 136.7 |
| 64°   | 133.4  | 133.7 | 133.4  | 133.2 | 132.9  | 132.7 |
| 64.5° | 129.4  | 129.7 | 129.4  | 129.2 | 128.9  | 128.7 |
| 65°   | 125.4  | 125.7 | 125.4  | 125.2 | 124.9  | 124.7 |
| 65.5° | 121.6  | 121.6 | 121.6  | 121.1 | 120.9  | 120.9 |
| 66°   | 117.6  | 117.9 | 117.6  | 117.4 | 117.1  | 116.9 |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 106.6  | 106.6 | 106.6  | 106.3 | 106.1  | 105.8 |
| 68°   | 103.1  | 103.1 | 103.1  | 102.8 | 102.6  | 102.3 |
| 68.5° | 99.3   | 99.6  | 99.3   | 99.3  | 99.1   | 98.8  |
| 69°   | 96.1   | 96.1  | 96.1   | 95.6  | 95.6   | 95.6  |
| 69.5° | 92.6   | 92.8  | 92.6   | 92.3  | 92.3   | 92.0  |
| 70°   | 89.3   | 89.5  | 89.3   | 89.0  | 89.3   | 89.0  |
| 70.5° | 86.0   | 86.3  | 86.0   | 86.0  | 86.0   | 85.8  |
| 71°   | 82.8   | 83.0  | 82.8   | 82.8  | 82.8   | 82.8  |
| 71.5° | 79.8   | 79.8  | 79.8   | 79.8  | 79.5   | 79.5  |
| 72°   | 76.7   | 76.7  | 76.7   | 76.5  | 76.5   | 76.5  |
| 72.5° | 73.7   | 73.7  | 73.7   | 73.5  | 73.5   | 73.5  |
| 73°   | 70.7   | 70.7  | 70.7   | 70.5  | 70.5   | 70.5  |
| 73.5° | 67.7   | 67.7  | 67.7   | 67.7  | 67.5   | 67.5  |
| 74°   | 65.0   | 65.0  | 65.0   | 64.7  | 64.7   | 64.7  |
| 74.5° | 62.0   | 62.0  | 62.0   | 62.0  | 62.0   | 62.0  |
| 75°   | 59.2   | 59.2  | 59.2   | 59.2  | 59.2   | 59.2  |
| 75.5° | 56.4   | 56.7  | 56.4   | 56.4  | 56.4   | 56.4  |
| 76°   | 53.9   | 53.9  | 53.9   | 53.7  | 53.7   | 53.9  |
| 76.5° | 51.2   | 51.2  | 51.2   | 51.2  | 51.2   | 51.2  |
| 77°   | 48.7   | 48.7  | 48.7   | 48.7  | 48.7   | 48.7  |
| 77.5° | 46.1   | 46.1  | 46.1   | 46.1  | 46.1   | 46.1  |
| 78°   | 43.6   | 43.6  | 43.6   | 43.6  | 43.6   | 43.6  |
| 78.5° | 41.1   | 41.4  | 41.1   | 41.1  | 41.4   | 41.4  |
| 79°   | 38.9   | 38.9  | 38.9   | 38.9  | 38.9   | 38.9  |
| 79.5° | 36.6   | 36.6  | 36.6   | 36.4  | 36.6   | 36.6  |
| 80°   | 34.1   | 34.1  | 34.1   | 34.1  | 34.4   | 34.4  |
| 80.5° | 32.1   | 32.1  | 32.1   | 32.1  | 32.1   | 32.1  |
| 81°   | 29.8   | 29.8  | 29.8   | 29.8  | 29.8   | 29.8  |
| 81.5° | 27.6   | 27.6  | 27.6   | 27.6  | 27.6   | 27.6  |
| 82°   | 25.6   | 25.6  | 25.6   | 25.6  | 25.6   | 25.6  |
| 82.5° | 23.6   | 23.3  | 23.6   | 23.6  | 23.6   | 23.6  |
| 83°   | 21.3   | 21.3  | 21.3   | 21.6  | 21.6   | 21.6  |
| 83.5° | 19.3   | 19.3  | 19.3   | 19.6  | 19.6   | 19.6  |
| 84°   | 17.6   | 17.6  | 17.6   | 17.6  | 17.6   | 17.6  |
| 84.5° | 15.6   | 15.6  | 15.6   | 15.6  | 15.6   | 15.8  |
| 85°   | 13.8   | 13.8  | 13.8   | 13.8  | 13.8   | 13.8  |
| 85.5° | 11.8   | 12.0  | 11.8   | 12.0  | 11.8   | 12.0  |
| 86°   | 10.0   | 10.0  | 10.0   | 10.0  | 10.0   | 10.0  |
| 86.5° | 8.3    | 8.5   | 8.3    | 8.3   | 8.3    | 8.5   |
| 87°   | 6.5    | 6.8   | 6.5    | 6.8   | 6.8    | 6.8   |
| 87.5° | 5.0    | 5.3   | 5.0    | 5.0   | 5.0    | 5.0   |
| 88°   | 3.8    | 3.8   | 3.8    | 3.5   | 3.5    | 3.3   |
| 88.5° | 2.5    | 3.0   | 2.5    | 2.3   | 2.0    | 2.0   |



TEST NUMBER: P775972

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|------|--------|------|--------|------|
| 90° | 0.5    | 0.8  | 0.5    | 0.3  | 0.0    | 0.0  |



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Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





|       |        |        |        |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1493.8 | 1491.3 | 1487.1 | 1488.3 | 1485.8 | 1488.3 | 1487.1 | 1491.3 | 1493.8 | 1491.3 | 1487.1 |
| 22°   | 1473.0 | 1470.5 | 1466.8 | 1467.3 | 1464.8 | 1467.3 | 1466.8 | 1470.5 | 1473.0 | 1470.5 | 1466.8 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 385.8 | 388.8 | 394.5 | 395.0 | 397.5 | 395.0 | 394.5 | 388.8 | 385.8 | 388.8 | 394.5 |
| 44.5° | 373.7 | 376.7 | 381.7 | 382.5 | 384.2 | 382.5 | 381.7 | 376.7 | 373.7 | 376.7 | 381.7 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 113.1 | 113.4 | 113.6 | 113.9 | 114.1 | 113.9 | 113.6 | 113.4 | 113.1 | 113.4 | 113.6 |
| 67°   | 109.6 | 109.6 | 109.9 | 110.1 | 110.4 | 110.1 | 109.9 | 109.6 | 109.6 | 109.6 | 109.9 |



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89°   | 0.8 | 1.0 | 1.5 | 1.8 | 2.0 | 1.8 | 1.5 | 1.0 | 0.8 | 1.0 | 1.5 |
| 89.5° | 0.0 | 0.3 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.3 | 0.0 | 0.3 | 0.8 |



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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





|       |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1488.3 | 1485.8 | 1488.3 | 1487.1 | 1491.3 | 1493.8 |
| 22°   | 1467.3 | 1464.8 | 1467.3 | 1466.8 | 1470.5 | 1473.0 |



|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 395.0 | 397.5 | 395.0 | 394.5 | 388.8 | 385.8 |
| 44.5° | 382.5 | 384.2 | 382.5 | 381.7 | 376.7 | 373.7 |



|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 113.9 | 114.1 | 113.9 | 113.6 | 113.4 | 113.1 |
| 67°   | 110.1 | 110.4 | 110.1 | 109.9 | 109.6 | 109.6 |

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Scaled Data Report



|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 89°   | 1.8 | 2.0 | 1.8 | 1.5 | 1.0 | 0.8 |
| 89.5° | 1.0 | 1.3 | 1.0 | 0.8 | 0.3 | 0.0 |

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Scaled Data Report



(END OF REPORT)