

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: P775970

Luminaire Tested: HCDJBS1525CSD-HCD42TRMW-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775970
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-2700K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

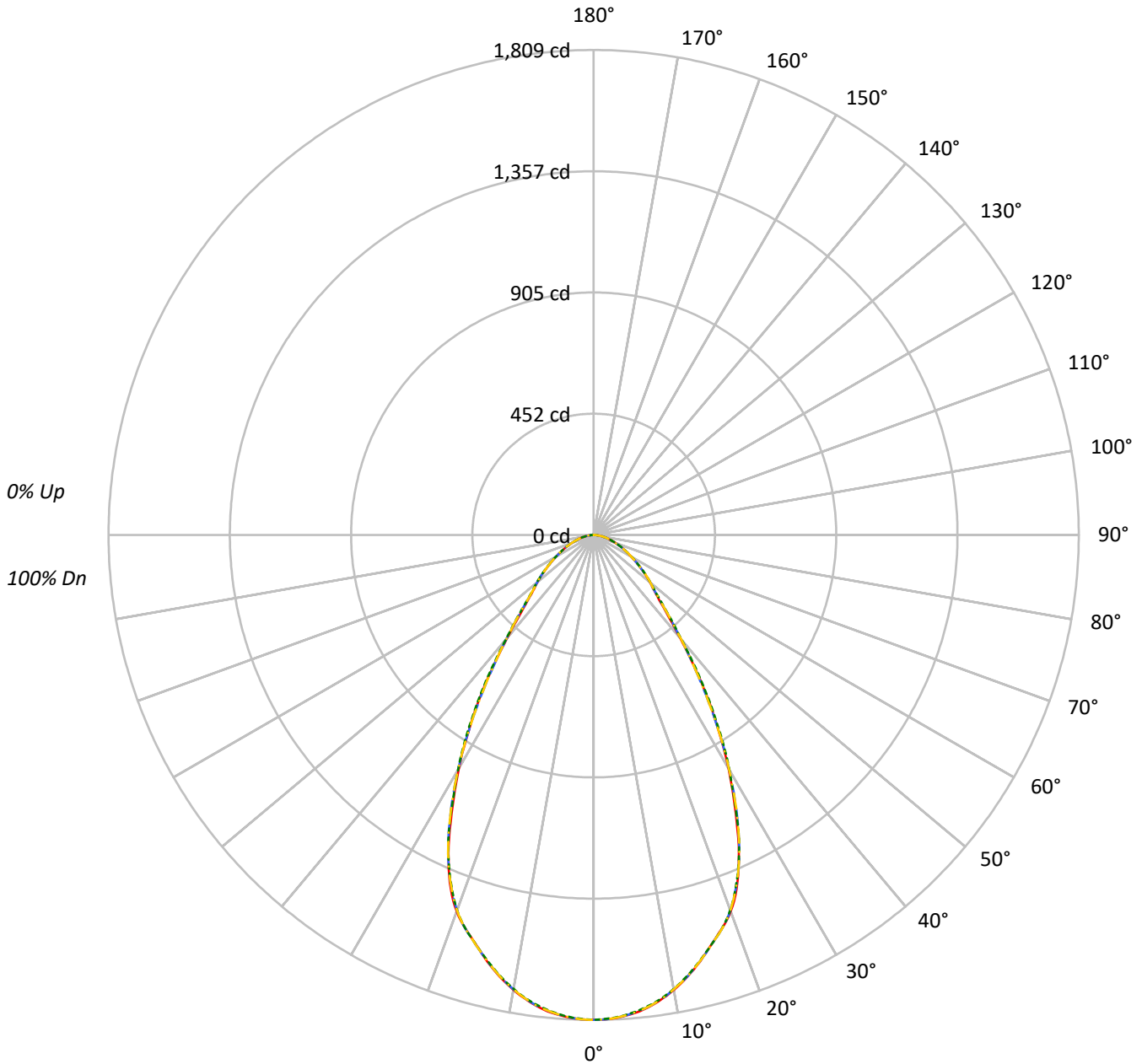
Lumens per Lamp: N/A
Luminaire Lumens: 2336.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): 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: P775970
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P775970

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 20 | | | | | 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 | 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° | 227675 | 227675 | 227675 | 227675 |
| 5° | 226068 | 225576 | 226068 | 225576 |
| 10° | 220223 | 219724 | 220223 | 219724 |
| 15° | 210482 | 210235 | 210482 | 210235 |
| 20° | 200140 | 199417 | 200140 | 199417 |
| 25° | 177630 | 178199 | 177630 | 178199 |
| 30° | 146147 | 146917 | 146147 | 146917 |
| 35° | 113382 | 114611 | 113382 | 114611 |
| 40° | 82356 | 83785 | 82356 | 83785 |
| 45° | 62346 | 63912 | 62346 | 63912 |
| 50° | 53705 | 54116 | 53705 | 54116 |
| 55° | 46669 | 47196 | 46669 | 47196 |
| 60° | 40801 | 41153 | 40801 | 41153 |
| 65° | 35853 | 36151 | 35853 | 36151 |
| 70° | 31645 | 31829 | 31645 | 31829 |
| 75° | 27813 | 27813 | 27813 | 27813 |
| 80° | 24061 | 23844 | 24061 | 23844 |
| 85° | 19205 | 19205 | 19205 | 19205 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 63912 cd/sqm



TEST NUMBER: P775970

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.5 | 7.2 |
| 10°-20° | 453.8 | 19.4 |
| 20°-30° | 581.2 | 24.9 |
| 30°-40° | 460.5 | 19.7 |
| 40°-50° | 282.0 | 12.1 |
| 50°-60° | 192.7 | 8.3 |
| 60°-70° | 120.7 | 5.2 |
| 70°-80° | 61.2 | 2.6 |
| 80°-90° | 15.4 | 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° | 1203.5 | 51.5 |
| 0°-40° | 1664.0 | 71.2 |
| 0°-60° | 2138.7 | 91.6 |
| 0°-90° | 2336.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2336.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1809 | 1809 | 1809 | 1809 | 1809 | |
| 5° | 1790 | 1786 | 1790 | 1786 | 1790 | 169 |
| 15° | 1616 | 1614 | 1616 | 1614 | 1616 | 454 |
| 25° | 1279 | 1283 | 1279 | 1283 | 1279 | 580 |
| 35° | 738 | 746 | 738 | 746 | 738 | 460 |
| 45° | 350 | 359 | 350 | 359 | 350 | 278 |
| 55° | 213 | 215 | 213 | 215 | 213 | 192 |
| 65° | 120 | 121 | 120 | 121 | 120 | 120 |
| 75° | 57 | 57 | 57 | 57 | 57 | 61 |
| 85° | 13 | 13 | 13 | 13 | 13 | 15 |
| 90° | 0 | 1 | 0 | 1 | 0 | |



TEST NUMBER: P775970

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 |
| 0.5° | 1809.3 | 1809.1 | 1808.6 | 1808.4 | 1807.6 | 1808.4 | 1808.6 | 1809.1 | 1809.3 | 1809.1 | 1808.6 |
| 1° | 1808.6 | 1808.4 | 1808.1 | 1807.9 | 1806.9 | 1807.9 | 1808.1 | 1808.4 | 1808.6 | 1808.4 | 1808.1 |
| 1.5° | 1807.6 | 1807.1 | 1807.1 | 1806.7 | 1805.9 | 1806.7 | 1807.1 | 1807.1 | 1807.6 | 1807.1 | 1807.1 |
| 2° | 1806.2 | 1805.9 | 1805.5 | 1805.2 | 1804.2 | 1805.2 | 1805.5 | 1805.9 | 1806.2 | 1805.9 | 1805.5 |
| 2.5° | 1804.5 | 1804.0 | 1803.5 | 1803.3 | 1802.1 | 1803.3 | 1803.5 | 1804.0 | 1804.5 | 1804.0 | 1803.5 |
| 3° | 1802.1 | 1801.6 | 1801.1 | 1800.6 | 1799.4 | 1800.6 | 1801.1 | 1801.6 | 1802.1 | 1801.6 | 1801.1 |
| 3.5° | 1799.4 | 1798.9 | 1798.2 | 1797.7 | 1797.0 | 1797.7 | 1798.2 | 1798.9 | 1799.4 | 1798.9 | 1798.2 |
| 4° | 1796.2 | 1796.0 | 1795.0 | 1794.5 | 1793.3 | 1794.5 | 1795.0 | 1796.0 | 1796.2 | 1796.0 | 1795.0 |
| 4.5° | 1792.9 | 1792.4 | 1791.4 | 1790.9 | 1789.5 | 1790.9 | 1791.4 | 1792.4 | 1792.9 | 1792.4 | 1791.4 |
| 5° | 1789.5 | 1788.7 | 1787.8 | 1787.3 | 1785.6 | 1787.3 | 1787.8 | 1788.7 | 1789.5 | 1788.7 | 1787.8 |
| 5.5° | 1785.8 | 1784.1 | 1782.9 | 1782.4 | 1781.0 | 1782.4 | 1782.9 | 1784.1 | 1785.8 | 1784.1 | 1782.9 |
| 6° | 1780.3 | 1779.3 | 1778.1 | 1777.3 | 1775.4 | 1777.3 | 1778.1 | 1779.3 | 1780.3 | 1779.3 | 1778.1 |
| 6.5° | 1774.7 | 1774.0 | 1772.5 | 1771.8 | 1769.8 | 1771.8 | 1772.5 | 1774.0 | 1774.7 | 1774.0 | 1772.5 |
| 7° | 1768.9 | 1767.9 | 1767.2 | 1766.0 | 1764.3 | 1766.0 | 1767.2 | 1767.9 | 1768.9 | 1767.9 | 1767.2 |
| 7.5° | 1762.3 | 1761.4 | 1760.4 | 1759.9 | 1758.2 | 1759.9 | 1760.4 | 1761.4 | 1762.3 | 1761.4 | 1760.4 |
| 8° | 1755.3 | 1754.6 | 1753.6 | 1752.9 | 1751.9 | 1752.9 | 1753.6 | 1754.6 | 1755.3 | 1754.6 | 1753.6 |
| 8.5° | 1748.0 | 1747.1 | 1746.1 | 1745.4 | 1744.4 | 1745.4 | 1746.1 | 1747.1 | 1748.0 | 1747.1 | 1746.1 |
| 9° | 1740.3 | 1739.6 | 1738.3 | 1737.6 | 1736.6 | 1737.6 | 1738.3 | 1739.6 | 1740.3 | 1739.6 | 1738.3 |
| 9.5° | 1731.8 | 1731.3 | 1730.1 | 1729.4 | 1728.4 | 1729.4 | 1730.1 | 1731.3 | 1731.8 | 1731.3 | 1730.1 |
| 10° | 1723.3 | 1722.6 | 1721.6 | 1720.7 | 1719.4 | 1720.7 | 1721.6 | 1722.6 | 1723.3 | 1722.6 | 1721.6 |
| 10.5° | 1713.9 | 1713.4 | 1712.2 | 1711.4 | 1710.5 | 1711.4 | 1712.2 | 1713.4 | 1713.9 | 1713.4 | 1712.2 |
| 11° | 1704.4 | 1703.9 | 1703.0 | 1702.0 | 1700.8 | 1702.0 | 1703.0 | 1703.9 | 1704.4 | 1703.9 | 1703.0 |
| 11.5° | 1694.5 | 1694.0 | 1693.0 | 1692.1 | 1691.1 | 1692.1 | 1693.0 | 1694.0 | 1694.5 | 1694.0 | 1693.0 |
| 12° | 1684.3 | 1683.8 | 1683.1 | 1681.9 | 1680.9 | 1681.9 | 1683.1 | 1683.8 | 1684.3 | 1683.8 | 1683.1 |
| 12.5° | 1673.7 | 1673.2 | 1672.4 | 1671.2 | 1670.0 | 1671.2 | 1672.4 | 1673.2 | 1673.7 | 1673.2 | 1672.4 |
| 13° | 1662.8 | 1662.3 | 1661.5 | 1660.6 | 1659.4 | 1660.6 | 1661.5 | 1662.3 | 1662.8 | 1662.3 | 1661.5 |
| 13.5° | 1651.4 | 1650.9 | 1650.4 | 1649.4 | 1648.5 | 1649.4 | 1650.4 | 1650.9 | 1651.4 | 1650.9 | 1650.4 |
| 14° | 1639.7 | 1639.5 | 1639.0 | 1638.0 | 1637.1 | 1638.0 | 1639.0 | 1639.5 | 1639.7 | 1639.5 | 1639.0 |
| 14.5° | 1627.6 | 1627.4 | 1627.1 | 1626.2 | 1625.2 | 1626.2 | 1627.1 | 1627.4 | 1627.6 | 1627.4 | 1627.1 |
| 15° | 1615.5 | 1615.5 | 1615.0 | 1614.5 | 1613.6 | 1614.5 | 1615.0 | 1615.5 | 1615.5 | 1615.5 | 1615.0 |
| 15.5° | 1602.9 | 1602.9 | 1603.4 | 1602.9 | 1602.4 | 1602.9 | 1603.4 | 1602.9 | 1602.9 | 1602.9 | 1603.4 |
| 16° | 1590.8 | 1591.0 | 1591.8 | 1591.5 | 1591.0 | 1591.5 | 1591.8 | 1591.0 | 1590.8 | 1591.0 | 1591.8 |
| 16.5° | 1578.7 | 1579.2 | 1580.1 | 1580.1 | 1579.9 | 1580.1 | 1580.1 | 1579.2 | 1578.7 | 1579.2 | 1580.1 |
| 17° | 1567.3 | 1567.8 | 1568.7 | 1568.5 | 1568.7 | 1568.5 | 1568.7 | 1567.8 | 1567.3 | 1567.8 | 1568.7 |
| 17.5° | 1556.1 | 1556.6 | 1557.4 | 1557.1 | 1556.9 | 1557.1 | 1557.4 | 1556.6 | 1556.1 | 1556.6 | 1557.4 |
| 18° | 1545.2 | 1545.5 | 1546.0 | 1545.5 | 1545.0 | 1545.5 | 1546.0 | 1545.5 | 1545.2 | 1545.5 | 1546.0 |
| 18.5° | 1533.6 | 1533.6 | 1533.6 | 1533.1 | 1532.4 | 1533.1 | 1533.6 | 1533.6 | 1533.6 | 1533.6 | 1533.6 |
| 19° | 1521.7 | 1521.0 | 1520.5 | 1519.8 | 1519.1 | 1519.8 | 1520.5 | 1521.0 | 1521.7 | 1521.0 | 1520.5 |
| 19.5° | 1508.7 | 1507.7 | 1506.2 | 1505.8 | 1505.0 | 1505.8 | 1506.2 | 1507.7 | 1508.7 | 1507.7 | 1506.2 |
| 20° | 1494.4 | 1493.2 | 1490.5 | 1490.7 | 1489.0 | 1490.7 | 1490.5 | 1493.2 | 1494.4 | 1493.2 | 1490.5 |
| 20.5° | 1478.6 | 1476.7 | 1473.5 | 1474.5 | 1472.6 | 1474.5 | 1473.5 | 1476.7 | 1478.6 | 1476.7 | 1473.5 |
| 21° | 1462.1 | 1459.2 | 1455.6 | 1456.8 | 1454.4 | 1456.8 | 1455.6 | 1459.2 | 1462.1 | 1459.2 | 1455.6 |



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CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1401.8 | 1398.9 | 1396.5 | 1396.2 | 1395.0 | 1396.2 | 1396.5 | 1398.9 | 1401.8 | 1398.9 | 1396.5 |
| 23° | 1378.8 | 1376.4 | 1375.9 | 1374.2 | 1373.7 | 1374.2 | 1375.9 | 1376.4 | 1378.8 | 1376.4 | 1375.9 |
| 23.5° | 1355.3 | 1353.1 | 1354.3 | 1351.4 | 1352.6 | 1351.4 | 1354.3 | 1353.1 | 1355.3 | 1353.1 | 1354.3 |
| 24° | 1330.8 | 1329.1 | 1332.0 | 1328.2 | 1330.3 | 1328.2 | 1332.0 | 1329.1 | 1330.8 | 1329.1 | 1332.0 |
| 24.5° | 1305.6 | 1304.9 | 1308.5 | 1304.7 | 1307.6 | 1304.7 | 1308.5 | 1304.9 | 1305.6 | 1304.9 | 1308.5 |
| 25° | 1279.2 | 1279.7 | 1284.1 | 1281.2 | 1283.3 | 1281.2 | 1284.1 | 1279.7 | 1279.2 | 1279.7 | 1284.1 |
| 25.5° | 1251.8 | 1255.0 | 1258.9 | 1257.7 | 1258.1 | 1257.7 | 1258.9 | 1255.0 | 1251.8 | 1255.0 | 1258.9 |
| 26° | 1223.7 | 1229.3 | 1233.0 | 1233.2 | 1231.3 | 1233.2 | 1233.0 | 1229.3 | 1223.7 | 1229.3 | 1233.0 |
| 26.5° | 1194.9 | 1203.2 | 1206.1 | 1207.8 | 1203.4 | 1207.8 | 1206.1 | 1203.2 | 1194.9 | 1203.2 | 1206.1 |
| 27° | 1166.8 | 1176.0 | 1178.9 | 1181.6 | 1175.0 | 1181.6 | 1178.9 | 1176.0 | 1166.8 | 1176.0 | 1178.9 |
| 27.5° | 1139.2 | 1147.9 | 1151.3 | 1154.7 | 1146.2 | 1154.7 | 1151.3 | 1147.9 | 1139.2 | 1147.9 | 1151.3 |
| 28° | 1111.6 | 1119.8 | 1123.2 | 1126.6 | 1117.4 | 1126.6 | 1123.2 | 1119.8 | 1111.6 | 1119.8 | 1123.2 |
| 28.5° | 1084.7 | 1091.2 | 1095.1 | 1098.0 | 1089.5 | 1098.0 | 1095.1 | 1091.2 | 1084.7 | 1091.2 | 1095.1 |
| 29° | 1058.0 | 1062.4 | 1067.0 | 1068.9 | 1063.1 | 1068.9 | 1067.0 | 1062.4 | 1058.0 | 1062.4 | 1067.0 |
| 29.5° | 1031.9 | 1034.0 | 1039.1 | 1039.9 | 1037.2 | 1039.9 | 1039.1 | 1034.0 | 1031.9 | 1034.0 | 1039.1 |
| 30° | 1005.7 | 1005.0 | 1010.5 | 1010.8 | 1011.0 | 1010.8 | 1010.5 | 1005.0 | 1005.7 | 1005.0 | 1010.5 |
| 30.5° | 978.6 | 976.9 | 982.2 | 982.7 | 986.3 | 982.7 | 982.2 | 976.9 | 978.6 | 976.9 | 982.2 |
| 31° | 951.7 | 948.0 | 953.6 | 954.6 | 960.1 | 954.6 | 953.6 | 948.0 | 951.7 | 948.0 | 953.6 |
| 31.5° | 924.0 | 920.4 | 925.0 | 926.7 | 933.7 | 926.7 | 925.0 | 920.4 | 924.0 | 920.4 | 925.0 |
| 32° | 895.9 | 892.6 | 896.7 | 899.3 | 906.6 | 899.3 | 896.7 | 892.6 | 895.9 | 892.6 | 896.7 |
| 32.5° | 868.8 | 865.9 | 868.8 | 872.2 | 879.5 | 872.2 | 868.8 | 865.9 | 868.8 | 865.9 | 868.8 |
| 33° | 841.4 | 839.2 | 840.2 | 845.1 | 851.8 | 845.1 | 840.2 | 839.2 | 841.4 | 839.2 | 840.2 |
| 33.5° | 817.0 | 812.6 | 811.9 | 817.9 | 824.0 | 817.9 | 811.9 | 812.6 | 817.0 | 812.6 | 811.9 |
| 34° | 790.6 | 785.9 | 783.8 | 791.3 | 797.6 | 791.3 | 783.8 | 785.9 | 790.6 | 785.9 | 783.8 |
| 34.5° | 764.4 | 759.5 | 756.4 | 764.4 | 771.4 | 764.4 | 756.4 | 759.5 | 764.4 | 759.5 | 756.4 |
| 35° | 738.0 | 733.9 | 730.5 | 738.5 | 746.0 | 738.5 | 730.5 | 733.9 | 738.0 | 733.9 | 730.5 |
| 35.5° | 712.3 | 708.4 | 704.8 | 712.8 | 721.0 | 712.8 | 704.8 | 708.4 | 712.3 | 708.4 | 704.8 |
| 36° | 687.1 | 683.0 | 679.8 | 688.1 | 696.5 | 688.1 | 679.8 | 683.0 | 687.1 | 683.0 | 679.8 |
| 36.5° | 662.1 | 658.5 | 655.6 | 663.6 | 671.6 | 663.6 | 655.6 | 658.5 | 662.1 | 658.5 | 655.6 |
| 37° | 636.9 | 634.3 | 631.9 | 639.9 | 646.9 | 639.9 | 631.9 | 634.3 | 636.9 | 634.3 | 631.9 |
| 37.5° | 612.5 | 610.8 | 609.1 | 617.1 | 622.2 | 617.1 | 609.1 | 610.8 | 612.5 | 610.8 | 609.1 |
| 38° | 588.2 | 588.0 | 587.3 | 594.8 | 597.7 | 594.8 | 587.3 | 588.0 | 588.2 | 588.0 | 587.3 |
| 38.5° | 565.5 | 566.0 | 566.4 | 573.0 | 574.2 | 573.0 | 566.4 | 566.0 | 565.5 | 566.0 | 566.4 |
| 39° | 543.4 | 544.6 | 545.6 | 551.9 | 551.7 | 551.9 | 545.6 | 544.6 | 543.4 | 544.6 | 545.6 |
| 39.5° | 521.9 | 524.0 | 525.7 | 531.1 | 530.3 | 531.1 | 525.7 | 524.0 | 521.9 | 524.0 | 525.7 |
| 40° | 501.3 | 503.7 | 506.6 | 511.0 | 510.0 | 511.0 | 506.6 | 503.7 | 501.3 | 503.7 | 506.6 |
| 40.5° | 481.9 | 484.3 | 488.2 | 491.3 | 491.1 | 491.3 | 488.2 | 484.3 | 481.9 | 484.3 | 488.2 |
| 41° | 463.2 | 465.7 | 470.7 | 472.9 | 473.7 | 472.9 | 470.7 | 465.7 | 463.2 | 465.7 | 470.7 |
| 41.5° | 445.5 | 448.2 | 454.0 | 455.2 | 457.4 | 455.2 | 454.0 | 448.2 | 445.5 | 448.2 | 454.0 |
| 42° | 429.1 | 431.7 | 438.0 | 438.8 | 441.7 | 438.8 | 438.0 | 431.7 | 429.1 | 431.7 | 438.0 |
| 42.5° | 413.6 | 416.2 | 423.0 | 423.3 | 426.4 | 423.3 | 423.0 | 416.2 | 413.6 | 416.2 | 423.0 |
| 43° | 398.8 | 401.7 | 408.2 | 408.7 | 411.6 | 408.7 | 408.2 | 401.7 | 398.8 | 401.7 | 408.2 |
| 43.5° | 385.2 | 388.1 | 394.4 | 394.7 | 397.3 | 394.7 | 394.4 | 388.1 | 385.2 | 388.1 | 394.4 |



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CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 350.3 | 352.8 | 356.6 | 357.8 | 359.1 | 357.8 | 356.6 | 352.8 | 350.3 | 352.8 | 356.6 |
| 45.5° | 340.2 | 342.1 | 345.7 | 346.9 | 347.9 | 346.9 | 345.7 | 342.1 | 340.2 | 342.1 | 345.7 |
| 46° | 330.5 | 332.2 | 335.3 | 337.0 | 337.5 | 337.0 | 335.3 | 332.2 | 330.5 | 332.2 | 335.3 |
| 46.5° | 321.5 | 323.0 | 325.4 | 327.3 | 327.8 | 327.3 | 325.4 | 323.0 | 321.5 | 323.0 | 325.4 |
| 47° | 313.0 | 314.0 | 316.4 | 318.4 | 319.1 | 318.4 | 316.4 | 314.0 | 313.0 | 314.0 | 316.4 |
| 47.5° | 305.0 | 305.8 | 307.9 | 310.1 | 311.1 | 310.1 | 307.9 | 305.8 | 305.0 | 305.8 | 307.9 |
| 48° | 297.5 | 298.5 | 300.7 | 302.6 | 303.6 | 302.6 | 300.7 | 298.5 | 297.5 | 298.5 | 300.7 |
| 48.5° | 291.5 | 291.9 | 293.6 | 295.6 | 296.3 | 295.6 | 293.6 | 291.9 | 291.5 | 291.9 | 293.6 |
| 49° | 285.6 | 285.9 | 287.3 | 288.8 | 289.5 | 288.8 | 287.3 | 285.9 | 285.6 | 285.9 | 287.3 |
| 49.5° | 280.1 | 280.3 | 281.3 | 282.5 | 282.7 | 282.5 | 281.3 | 280.3 | 280.1 | 280.3 | 281.3 |
| 50° | 274.3 | 274.5 | 275.2 | 276.2 | 276.4 | 276.2 | 275.2 | 274.5 | 274.3 | 274.5 | 275.2 |
| 50.5° | 268.4 | 268.7 | 269.2 | 270.1 | 270.1 | 270.1 | 269.2 | 268.7 | 268.4 | 268.7 | 269.2 |
| 51° | 261.9 | 262.4 | 263.1 | 264.1 | 264.1 | 264.1 | 263.1 | 262.4 | 261.9 | 262.4 | 263.1 |
| 51.5° | 255.6 | 255.8 | 256.8 | 258.0 | 258.3 | 258.0 | 256.8 | 255.8 | 255.6 | 255.8 | 256.8 |
| 52° | 249.1 | 249.5 | 250.5 | 251.7 | 252.0 | 251.7 | 250.5 | 249.5 | 249.1 | 249.5 | 250.5 |
| 52.5° | 242.5 | 243.0 | 244.2 | 245.2 | 245.7 | 245.2 | 244.2 | 243.0 | 242.5 | 243.0 | 244.2 |
| 53° | 236.5 | 236.9 | 237.9 | 238.9 | 239.4 | 238.9 | 237.9 | 236.9 | 236.5 | 236.9 | 237.9 |
| 53.5° | 230.2 | 230.6 | 231.6 | 232.8 | 233.3 | 232.8 | 231.6 | 230.6 | 230.2 | 230.6 | 231.6 |
| 54° | 224.3 | 224.6 | 225.6 | 226.5 | 227.0 | 226.5 | 225.6 | 224.6 | 224.3 | 224.6 | 225.6 |
| 54.5° | 218.5 | 218.8 | 219.7 | 220.7 | 221.2 | 220.7 | 219.7 | 218.8 | 218.5 | 218.8 | 219.7 |
| 55° | 212.7 | 213.2 | 214.2 | 214.9 | 215.1 | 214.9 | 214.2 | 213.2 | 212.7 | 213.2 | 214.2 |
| 55.5° | 207.1 | 207.6 | 208.6 | 209.3 | 209.6 | 209.3 | 208.6 | 207.6 | 207.1 | 207.6 | 208.6 |
| 56° | 201.8 | 202.3 | 203.0 | 203.8 | 204.0 | 203.8 | 203.0 | 202.3 | 201.8 | 202.3 | 203.0 |
| 56.5° | 196.5 | 197.0 | 197.7 | 198.4 | 198.7 | 198.4 | 197.7 | 197.0 | 196.5 | 197.0 | 197.7 |
| 57° | 191.2 | 191.6 | 192.4 | 193.1 | 193.3 | 193.1 | 192.4 | 191.6 | 191.2 | 191.6 | 192.4 |
| 57.5° | 185.8 | 186.6 | 187.3 | 187.8 | 188.2 | 187.8 | 187.3 | 186.6 | 185.8 | 186.6 | 187.3 |
| 58° | 181.2 | 181.5 | 182.2 | 182.9 | 183.2 | 182.9 | 182.2 | 181.5 | 181.2 | 181.5 | 182.2 |
| 58.5° | 176.4 | 176.6 | 177.3 | 177.8 | 178.1 | 177.8 | 177.3 | 176.6 | 176.4 | 176.6 | 177.3 |
| 59° | 171.5 | 171.8 | 172.3 | 172.7 | 173.2 | 172.7 | 172.3 | 171.8 | 171.5 | 171.8 | 172.3 |
| 59.5° | 166.7 | 166.9 | 167.4 | 168.1 | 168.4 | 168.1 | 167.4 | 166.9 | 166.7 | 166.9 | 167.4 |
| 60° | 162.1 | 162.3 | 162.8 | 163.3 | 163.5 | 163.3 | 162.8 | 162.3 | 162.1 | 162.3 | 162.8 |
| 60.5° | 157.5 | 157.7 | 158.2 | 158.7 | 158.9 | 158.7 | 158.2 | 157.7 | 157.5 | 157.7 | 158.2 |
| 61° | 153.1 | 153.4 | 153.8 | 154.3 | 154.6 | 154.3 | 153.8 | 153.4 | 153.1 | 153.4 | 153.8 |
| 61.5° | 148.8 | 149.0 | 149.5 | 150.0 | 150.2 | 150.0 | 149.5 | 149.0 | 148.8 | 149.0 | 149.5 |
| 62° | 144.6 | 144.6 | 145.1 | 145.6 | 145.6 | 145.6 | 145.1 | 144.6 | 144.6 | 144.6 | 145.1 |
| 62.5° | 140.3 | 140.5 | 140.8 | 141.2 | 141.5 | 141.2 | 140.8 | 140.5 | 140.3 | 140.5 | 140.8 |
| 63° | 136.2 | 136.4 | 136.6 | 137.1 | 137.1 | 137.1 | 136.6 | 136.4 | 136.2 | 136.4 | 136.6 |
| 63.5° | 132.0 | 132.3 | 132.5 | 133.0 | 133.3 | 133.0 | 132.5 | 132.3 | 132.0 | 132.3 | 132.5 |
| 64° | 128.2 | 128.4 | 128.6 | 128.9 | 129.1 | 128.9 | 128.6 | 128.4 | 128.2 | 128.4 | 128.6 |
| 64.5° | 124.3 | 124.5 | 124.8 | 125.0 | 125.3 | 125.0 | 124.8 | 124.5 | 124.3 | 124.5 | 124.8 |
| 65° | 120.4 | 120.7 | 120.9 | 121.1 | 121.4 | 121.1 | 120.9 | 120.7 | 120.4 | 120.7 | 120.9 |
| 65.5° | 116.8 | 116.8 | 117.0 | 117.5 | 117.5 | 117.5 | 117.0 | 116.8 | 116.8 | 116.8 | 117.0 |
| 66° | 112.9 | 113.1 | 113.4 | 113.6 | 113.9 | 113.6 | 113.4 | 113.1 | 112.9 | 113.1 | 113.4 |



TEST NUMBER: P775970

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 102.2 | 102.5 | 102.7 | 103.0 | 103.0 | 103.0 | 102.7 | 102.5 | 102.2 | 102.5 | 102.7 |
| 68° | 98.8 | 99.1 | 99.3 | 99.6 | 99.6 | 99.6 | 99.3 | 99.1 | 98.8 | 99.1 | 99.3 |
| 68.5° | 95.5 | 95.7 | 95.9 | 95.9 | 96.2 | 95.9 | 95.9 | 95.7 | 95.5 | 95.7 | 95.9 |
| 69° | 92.3 | 92.3 | 92.3 | 92.8 | 92.8 | 92.8 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 |
| 69.5° | 88.9 | 89.2 | 89.2 | 89.4 | 89.6 | 89.4 | 89.2 | 89.2 | 88.9 | 89.2 | 89.2 |
| 70° | 86.0 | 86.3 | 86.0 | 86.3 | 86.5 | 86.3 | 86.0 | 86.3 | 86.0 | 86.3 | 86.0 |
| 70.5° | 82.9 | 83.1 | 83.1 | 83.1 | 83.3 | 83.1 | 83.1 | 83.1 | 82.9 | 83.1 | 83.1 |
| 71° | 80.0 | 80.0 | 80.0 | 80.0 | 80.2 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| 71.5° | 76.8 | 76.8 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 76.8 | 76.8 | 76.8 | 77.0 |
| 72° | 73.9 | 73.9 | 73.9 | 74.1 | 74.1 | 74.1 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 |
| 72.5° | 71.0 | 71.0 | 71.0 | 71.2 | 71.2 | 71.2 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 |
| 73° | 68.1 | 68.1 | 68.1 | 68.3 | 68.3 | 68.3 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 |
| 73.5° | 65.2 | 65.2 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.2 | 65.2 | 65.2 | 65.4 |
| 74° | 62.5 | 62.5 | 62.5 | 62.7 | 62.7 | 62.7 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 |
| 74.5° | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 |
| 75° | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 |
| 75.5° | 54.5 | 54.5 | 54.5 | 54.5 | 54.8 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 |
| 76° | 52.1 | 51.8 | 51.8 | 52.1 | 52.1 | 52.1 | 51.8 | 51.8 | 52.1 | 51.8 | 51.8 |
| 76.5° | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| 77° | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 |
| 77.5° | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| 78° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 78.5° | 40.0 | 40.0 | 39.7 | 39.7 | 40.0 | 39.7 | 39.7 | 40.0 | 40.0 | 40.0 | 39.7 |
| 79° | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 |
| 79.5° | 35.4 | 35.4 | 35.1 | 35.4 | 35.4 | 35.4 | 35.1 | 35.4 | 35.4 | 35.4 | 35.1 |
| 80° | 33.2 | 33.2 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 33.2 | 33.2 | 33.2 | 32.9 |
| 80.5° | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 |
| 81° | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 |
| 81.5° | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 |
| 82° | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |
| 82.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.5 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 83° | 20.8 | 20.8 | 20.8 | 20.6 | 20.6 | 20.6 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 83.5° | 18.9 | 18.9 | 18.9 | 18.7 | 18.7 | 18.7 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 |
| 84° | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 |
| 84.5° | 15.3 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.3 | 15.0 | 15.0 |
| 85° | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| 85.5° | 11.6 | 11.4 | 11.6 | 11.4 | 11.6 | 11.4 | 11.6 | 11.4 | 11.6 | 11.4 | 11.6 |
| 86° | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| 86.5° | 8.2 | 8.0 | 8.0 | 8.0 | 8.2 | 8.0 | 8.0 | 8.0 | 8.2 | 8.0 | 8.0 |
| 87° | 6.5 | 6.5 | 6.5 | 6.3 | 6.5 | 6.3 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| 87.5° | 4.8 | 4.8 | 4.8 | 4.8 | 5.1 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 88° | 3.1 | 3.4 | 3.4 | 3.6 | 3.6 | 3.6 | 3.4 | 3.4 | 3.1 | 3.4 | 3.4 |
| 88.5° | 1.9 | 1.9 | 2.2 | 2.4 | 2.9 | 2.4 | 2.2 | 1.9 | 1.9 | 1.9 | 2.2 |



TEST NUMBER: P775970
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0 | 0.2 | 0.5 | 0.7 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |



TEST NUMBER: P775970

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 |
| 0.5° | 1808.4 | 1807.6 | 1808.4 | 1808.6 | 1809.1 | 1809.3 |
| 1° | 1807.9 | 1806.9 | 1807.9 | 1808.1 | 1808.4 | 1808.6 |
| 1.5° | 1806.7 | 1805.9 | 1806.7 | 1807.1 | 1807.1 | 1807.6 |
| 2° | 1805.2 | 1804.2 | 1805.2 | 1805.5 | 1805.9 | 1806.2 |
| 2.5° | 1803.3 | 1802.1 | 1803.3 | 1803.5 | 1804.0 | 1804.5 |
| 3° | 1800.6 | 1799.4 | 1800.6 | 1801.1 | 1801.6 | 1802.1 |
| 3.5° | 1797.7 | 1797.0 | 1797.7 | 1798.2 | 1798.9 | 1799.4 |
| 4° | 1794.5 | 1793.3 | 1794.5 | 1795.0 | 1796.0 | 1796.2 |
| 4.5° | 1790.9 | 1789.5 | 1790.9 | 1791.4 | 1792.4 | 1792.9 |
| 5° | 1787.3 | 1785.6 | 1787.3 | 1787.8 | 1788.7 | 1789.5 |
| 5.5° | 1782.4 | 1781.0 | 1782.4 | 1782.9 | 1784.1 | 1785.8 |
| 6° | 1777.3 | 1775.4 | 1777.3 | 1778.1 | 1779.3 | 1780.3 |
| 6.5° | 1771.8 | 1769.8 | 1771.8 | 1772.5 | 1774.0 | 1774.7 |
| 7° | 1766.0 | 1764.3 | 1766.0 | 1767.2 | 1767.9 | 1768.9 |
| 7.5° | 1759.9 | 1758.2 | 1759.9 | 1760.4 | 1761.4 | 1762.3 |
| 8° | 1752.9 | 1751.9 | 1752.9 | 1753.6 | 1754.6 | 1755.3 |
| 8.5° | 1745.4 | 1744.4 | 1745.4 | 1746.1 | 1747.1 | 1748.0 |
| 9° | 1737.6 | 1736.6 | 1737.6 | 1738.3 | 1739.6 | 1740.3 |
| 9.5° | 1729.4 | 1728.4 | 1729.4 | 1730.1 | 1731.3 | 1731.8 |
| 10° | 1720.7 | 1719.4 | 1720.7 | 1721.6 | 1722.6 | 1723.3 |
| 10.5° | 1711.4 | 1710.5 | 1711.4 | 1712.2 | 1713.4 | 1713.9 |
| 11° | 1702.0 | 1700.8 | 1702.0 | 1703.0 | 1703.9 | 1704.4 |
| 11.5° | 1692.1 | 1691.1 | 1692.1 | 1693.0 | 1694.0 | 1694.5 |
| 12° | 1681.9 | 1680.9 | 1681.9 | 1683.1 | 1683.8 | 1684.3 |
| 12.5° | 1671.2 | 1670.0 | 1671.2 | 1672.4 | 1673.2 | 1673.7 |
| 13° | 1660.6 | 1659.4 | 1660.6 | 1661.5 | 1662.3 | 1662.8 |
| 13.5° | 1649.4 | 1648.5 | 1649.4 | 1650.4 | 1650.9 | 1651.4 |
| 14° | 1638.0 | 1637.1 | 1638.0 | 1639.0 | 1639.5 | 1639.7 |
| 14.5° | 1626.2 | 1625.2 | 1626.2 | 1627.1 | 1627.4 | 1627.6 |
| 15° | 1614.5 | 1613.6 | 1614.5 | 1615.0 | 1615.5 | 1615.5 |
| 15.5° | 1602.9 | 1602.4 | 1602.9 | 1603.4 | 1602.9 | 1602.9 |
| 16° | 1591.5 | 1591.0 | 1591.5 | 1591.8 | 1591.0 | 1590.8 |
| 16.5° | 1580.1 | 1579.9 | 1580.1 | 1580.1 | 1579.2 | 1578.7 |
| 17° | 1568.5 | 1568.7 | 1568.5 | 1568.7 | 1567.8 | 1567.3 |
| 17.5° | 1557.1 | 1556.9 | 1557.1 | 1557.4 | 1556.6 | 1556.1 |
| 18° | 1545.5 | 1545.0 | 1545.5 | 1546.0 | 1545.5 | 1545.2 |
| 18.5° | 1533.1 | 1532.4 | 1533.1 | 1533.6 | 1533.6 | 1533.6 |
| 19° | 1519.8 | 1519.1 | 1519.8 | 1520.5 | 1521.0 | 1521.7 |
| 19.5° | 1505.8 | 1505.0 | 1505.8 | 1506.2 | 1507.7 | 1508.7 |
| 20° | 1490.7 | 1489.0 | 1490.7 | 1490.5 | 1493.2 | 1494.4 |
| 20.5° | 1474.5 | 1472.6 | 1474.5 | 1473.5 | 1476.7 | 1478.6 |
| 21° | 1456.8 | 1454.4 | 1456.8 | 1455.6 | 1459.2 | 1462.1 |



TEST NUMBER: P775970

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1396.2 | 1395.0 | 1396.2 | 1396.5 | 1398.9 | 1401.8 |
| 23° | 1374.2 | 1373.7 | 1374.2 | 1375.9 | 1376.4 | 1378.8 |
| 23.5° | 1351.4 | 1352.6 | 1351.4 | 1354.3 | 1353.1 | 1355.3 |
| 24° | 1328.2 | 1330.3 | 1328.2 | 1332.0 | 1329.1 | 1330.8 |
| 24.5° | 1304.7 | 1307.6 | 1304.7 | 1308.5 | 1304.9 | 1305.6 |
| 25° | 1281.2 | 1283.3 | 1281.2 | 1284.1 | 1279.7 | 1279.2 |
| 25.5° | 1257.7 | 1258.1 | 1257.7 | 1258.9 | 1255.0 | 1251.8 |
| 26° | 1233.2 | 1231.3 | 1233.2 | 1233.0 | 1229.3 | 1223.7 |
| 26.5° | 1207.8 | 1203.4 | 1207.8 | 1206.1 | 1203.2 | 1194.9 |
| 27° | 1181.6 | 1175.0 | 1181.6 | 1178.9 | 1176.0 | 1166.8 |
| 27.5° | 1154.7 | 1146.2 | 1154.7 | 1151.3 | 1147.9 | 1139.2 |
| 28° | 1126.6 | 1117.4 | 1126.6 | 1123.2 | 1119.8 | 1111.6 |
| 28.5° | 1098.0 | 1089.5 | 1098.0 | 1095.1 | 1091.2 | 1084.7 |
| 29° | 1068.9 | 1063.1 | 1068.9 | 1067.0 | 1062.4 | 1058.0 |
| 29.5° | 1039.9 | 1037.2 | 1039.9 | 1039.1 | 1034.0 | 1031.9 |
| 30° | 1010.8 | 1011.0 | 1010.8 | 1010.5 | 1005.0 | 1005.7 |
| 30.5° | 982.7 | 986.3 | 982.7 | 982.2 | 976.9 | 978.6 |
| 31° | 954.6 | 960.1 | 954.6 | 953.6 | 948.0 | 951.7 |
| 31.5° | 926.7 | 933.7 | 926.7 | 925.0 | 920.4 | 924.0 |
| 32° | 899.3 | 906.6 | 899.3 | 896.7 | 892.6 | 895.9 |
| 32.5° | 872.2 | 879.5 | 872.2 | 868.8 | 865.9 | 868.8 |
| 33° | 845.1 | 851.8 | 845.1 | 840.2 | 839.2 | 841.4 |
| 33.5° | 817.9 | 824.0 | 817.9 | 811.9 | 812.6 | 817.0 |
| 34° | 791.3 | 797.6 | 791.3 | 783.8 | 785.9 | 790.6 |
| 34.5° | 764.4 | 771.4 | 764.4 | 756.4 | 759.5 | 764.4 |
| 35° | 738.5 | 746.0 | 738.5 | 730.5 | 733.9 | 738.0 |
| 35.5° | 712.8 | 721.0 | 712.8 | 704.8 | 708.4 | 712.3 |
| 36° | 688.1 | 696.5 | 688.1 | 679.8 | 683.0 | 687.1 |
| 36.5° | 663.6 | 671.6 | 663.6 | 655.6 | 658.5 | 662.1 |
| 37° | 639.9 | 646.9 | 639.9 | 631.9 | 634.3 | 636.9 |
| 37.5° | 617.1 | 622.2 | 617.1 | 609.1 | 610.8 | 612.5 |
| 38° | 594.8 | 597.7 | 594.8 | 587.3 | 588.0 | 588.2 |
| 38.5° | 573.0 | 574.2 | 573.0 | 566.4 | 566.0 | 565.5 |
| 39° | 551.9 | 551.7 | 551.9 | 545.6 | 544.6 | 543.4 |
| 39.5° | 531.1 | 530.3 | 531.1 | 525.7 | 524.0 | 521.9 |
| 40° | 511.0 | 510.0 | 511.0 | 506.6 | 503.7 | 501.3 |
| 40.5° | 491.3 | 491.1 | 491.3 | 488.2 | 484.3 | 481.9 |
| 41° | 472.9 | 473.7 | 472.9 | 470.7 | 465.7 | 463.2 |
| 41.5° | 455.2 | 457.4 | 455.2 | 454.0 | 448.2 | 445.5 |
| 42° | 438.8 | 441.7 | 438.8 | 438.0 | 431.7 | 429.1 |
| 42.5° | 423.3 | 426.4 | 423.3 | 423.0 | 416.2 | 413.6 |
| 43° | 408.7 | 411.6 | 408.7 | 408.2 | 401.7 | 398.8 |
| 43.5° | 394.7 | 397.3 | 394.7 | 394.4 | 388.1 | 385.2 |

TEST NUMBER: P775970

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 357.8 | 359.1 | 357.8 | 356.6 | 352.8 | 350.3 |
| 45.5° | 346.9 | 347.9 | 346.9 | 345.7 | 342.1 | 340.2 |
| 46° | 337.0 | 337.5 | 337.0 | 335.3 | 332.2 | 330.5 |
| 46.5° | 327.3 | 327.8 | 327.3 | 325.4 | 323.0 | 321.5 |
| 47° | 318.4 | 319.1 | 318.4 | 316.4 | 314.0 | 313.0 |
| 47.5° | 310.1 | 311.1 | 310.1 | 307.9 | 305.8 | 305.0 |
| 48° | 302.6 | 303.6 | 302.6 | 300.7 | 298.5 | 297.5 |
| 48.5° | 295.6 | 296.3 | 295.6 | 293.6 | 291.9 | 291.5 |
| 49° | 288.8 | 289.5 | 288.8 | 287.3 | 285.9 | 285.6 |
| 49.5° | 282.5 | 282.7 | 282.5 | 281.3 | 280.3 | 280.1 |
| 50° | 276.2 | 276.4 | 276.2 | 275.2 | 274.5 | 274.3 |
| 50.5° | 270.1 | 270.1 | 270.1 | 269.2 | 268.7 | 268.4 |
| 51° | 264.1 | 264.1 | 264.1 | 263.1 | 262.4 | 261.9 |
| 51.5° | 258.0 | 258.3 | 258.0 | 256.8 | 255.8 | 255.6 |
| 52° | 251.7 | 252.0 | 251.7 | 250.5 | 249.5 | 249.1 |
| 52.5° | 245.2 | 245.7 | 245.2 | 244.2 | 243.0 | 242.5 |
| 53° | 238.9 | 239.4 | 238.9 | 237.9 | 236.9 | 236.5 |
| 53.5° | 232.8 | 233.3 | 232.8 | 231.6 | 230.6 | 230.2 |
| 54° | 226.5 | 227.0 | 226.5 | 225.6 | 224.6 | 224.3 |
| 54.5° | 220.7 | 221.2 | 220.7 | 219.7 | 218.8 | 218.5 |
| 55° | 214.9 | 215.1 | 214.9 | 214.2 | 213.2 | 212.7 |
| 55.5° | 209.3 | 209.6 | 209.3 | 208.6 | 207.6 | 207.1 |
| 56° | 203.8 | 204.0 | 203.8 | 203.0 | 202.3 | 201.8 |
| 56.5° | 198.4 | 198.7 | 198.4 | 197.7 | 197.0 | 196.5 |
| 57° | 193.1 | 193.3 | 193.1 | 192.4 | 191.6 | 191.2 |
| 57.5° | 187.8 | 188.2 | 187.8 | 187.3 | 186.6 | 185.8 |
| 58° | 182.9 | 183.2 | 182.9 | 182.2 | 181.5 | 181.2 |
| 58.5° | 177.8 | 178.1 | 177.8 | 177.3 | 176.6 | 176.4 |
| 59° | 172.7 | 173.2 | 172.7 | 172.3 | 171.8 | 171.5 |
| 59.5° | 168.1 | 168.4 | 168.1 | 167.4 | 166.9 | 166.7 |
| 60° | 163.3 | 163.5 | 163.3 | 162.8 | 162.3 | 162.1 |
| 60.5° | 158.7 | 158.9 | 158.7 | 158.2 | 157.7 | 157.5 |
| 61° | 154.3 | 154.6 | 154.3 | 153.8 | 153.4 | 153.1 |
| 61.5° | 150.0 | 150.2 | 150.0 | 149.5 | 149.0 | 148.8 |
| 62° | 145.6 | 145.6 | 145.6 | 145.1 | 144.6 | 144.6 |
| 62.5° | 141.2 | 141.5 | 141.2 | 140.8 | 140.5 | 140.3 |
| 63° | 137.1 | 137.1 | 137.1 | 136.6 | 136.4 | 136.2 |
| 63.5° | 133.0 | 133.3 | 133.0 | 132.5 | 132.3 | 132.0 |
| 64° | 128.9 | 129.1 | 128.9 | 128.6 | 128.4 | 128.2 |
| 64.5° | 125.0 | 125.3 | 125.0 | 124.8 | 124.5 | 124.3 |
| 65° | 121.1 | 121.4 | 121.1 | 120.9 | 120.7 | 120.4 |
| 65.5° | 117.5 | 117.5 | 117.5 | 117.0 | 116.8 | 116.8 |
| 66° | 113.6 | 113.9 | 113.6 | 113.4 | 113.1 | 112.9 |



TEST NUMBER: P775970

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 103.0 | 103.0 | 103.0 | 102.7 | 102.5 | 102.2 |
| 68° | 99.6 | 99.6 | 99.6 | 99.3 | 99.1 | 98.8 |
| 68.5° | 95.9 | 96.2 | 95.9 | 95.9 | 95.7 | 95.5 |
| 69° | 92.8 | 92.8 | 92.8 | 92.3 | 92.3 | 92.3 |
| 69.5° | 89.4 | 89.6 | 89.4 | 89.2 | 89.2 | 88.9 |
| 70° | 86.3 | 86.5 | 86.3 | 86.0 | 86.3 | 86.0 |
| 70.5° | 83.1 | 83.3 | 83.1 | 83.1 | 83.1 | 82.9 |
| 71° | 80.0 | 80.2 | 80.0 | 80.0 | 80.0 | 80.0 |
| 71.5° | 77.0 | 77.0 | 77.0 | 77.0 | 76.8 | 76.8 |
| 72° | 74.1 | 74.1 | 74.1 | 73.9 | 73.9 | 73.9 |
| 72.5° | 71.2 | 71.2 | 71.2 | 71.0 | 71.0 | 71.0 |
| 73° | 68.3 | 68.3 | 68.3 | 68.1 | 68.1 | 68.1 |
| 73.5° | 65.4 | 65.4 | 65.4 | 65.4 | 65.2 | 65.2 |
| 74° | 62.7 | 62.7 | 62.7 | 62.5 | 62.5 | 62.5 |
| 74.5° | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 |
| 75° | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 |
| 75.5° | 54.5 | 54.8 | 54.5 | 54.5 | 54.5 | 54.5 |
| 76° | 52.1 | 52.1 | 52.1 | 51.8 | 51.8 | 52.1 |
| 76.5° | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| 77° | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 |
| 77.5° | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| 78° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 78.5° | 39.7 | 40.0 | 39.7 | 39.7 | 40.0 | 40.0 |
| 79° | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 |
| 79.5° | 35.4 | 35.4 | 35.4 | 35.1 | 35.4 | 35.4 |
| 80° | 32.9 | 32.9 | 32.9 | 32.9 | 33.2 | 33.2 |
| 80.5° | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 |
| 81° | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 |
| 81.5° | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 |
| 82° | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |
| 82.5° | 22.8 | 22.5 | 22.8 | 22.8 | 22.8 | 22.8 |
| 83° | 20.6 | 20.6 | 20.6 | 20.8 | 20.8 | 20.8 |
| 83.5° | 18.7 | 18.7 | 18.7 | 18.9 | 18.9 | 18.9 |
| 84° | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 |
| 84.5° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.3 |
| 85° | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| 85.5° | 11.4 | 11.6 | 11.4 | 11.6 | 11.4 | 11.6 |
| 86° | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| 86.5° | 8.0 | 8.2 | 8.0 | 8.0 | 8.0 | 8.2 |
| 87° | 6.3 | 6.5 | 6.3 | 6.5 | 6.5 | 6.5 |
| 87.5° | 4.8 | 5.1 | 4.8 | 4.8 | 4.8 | 4.8 |
| 88° | 3.6 | 3.6 | 3.6 | 3.4 | 3.4 | 3.1 |
| 88.5° | 2.4 | 2.9 | 2.4 | 2.2 | 1.9 | 1.9 |



TEST NUMBER: P775970
CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|------|--------|------|--------|------|
| 90° | 0.5 | 0.7 | 0.5 | 0.2 | 0.0 | 0.0 |

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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



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

Scaled Data Report





| | | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1443.0 | 1440.6 | 1436.5 | 1437.7 | 1435.3 | 1437.7 | 1436.5 | 1440.6 | 1443.0 | 1440.6 | 1436.5 |
| 22° | 1422.9 | 1420.5 | 1416.8 | 1417.3 | 1414.9 | 1417.3 | 1416.8 | 1420.5 | 1422.9 | 1420.5 | 1416.8 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44° | 372.6 | 375.5 | 381.1 | 381.6 | 384.0 | 381.6 | 381.1 | 375.5 | 372.6 | 375.5 | 381.1 |
| 44.5° | 361.0 | 363.9 | 368.7 | 369.5 | 371.2 | 369.5 | 368.7 | 363.9 | 361.0 | 363.9 | 368.7 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 109.3 | 109.5 | 109.8 | 110.0 | 110.2 | 110.0 | 109.8 | 109.5 | 109.3 | 109.5 | 109.8 |
| 67° | 105.9 | 105.9 | 106.1 | 106.4 | 106.6 | 106.4 | 106.1 | 105.9 | 105.9 | 105.9 | 106.1 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89° | 0.7 | 1.0 | 1.5 | 1.7 | 1.9 | 1.7 | 1.5 | 1.0 | 0.7 | 1.0 | 1.5 |
| 89.5° | 0.0 | 0.2 | 0.7 | 1.0 | 1.2 | 1.0 | 0.7 | 0.2 | 0.0 | 0.2 | 0.7 |

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

Scaled Data Report





| | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1437.7 | 1435.3 | 1437.7 | 1436.5 | 1440.6 | 1443.0 |
| 22° | 1417.3 | 1414.9 | 1417.3 | 1416.8 | 1420.5 | 1422.9 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 44° | 381.6 | 384.0 | 381.6 | 381.1 | 375.5 | 372.6 |
| 44.5° | 369.5 | 371.2 | 369.5 | 368.7 | 363.9 | 361.0 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 110.0 | 110.2 | 110.0 | 109.8 | 109.5 | 109.3 |
| 67° | 106.4 | 106.6 | 106.4 | 106.1 | 105.9 | 105.9 |

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 89° | 1.7 | 1.9 | 1.7 | 1.5 | 1.0 | 0.7 |
| 89.5° | 1.0 | 1.2 | 1.0 | 0.7 | 0.2 | 0.0 |

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

Scaled Data Report



(END OF REPORT)