

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245481

Luminaire Tested: **LD8B30D010 ER8B30850 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30850 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3201.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

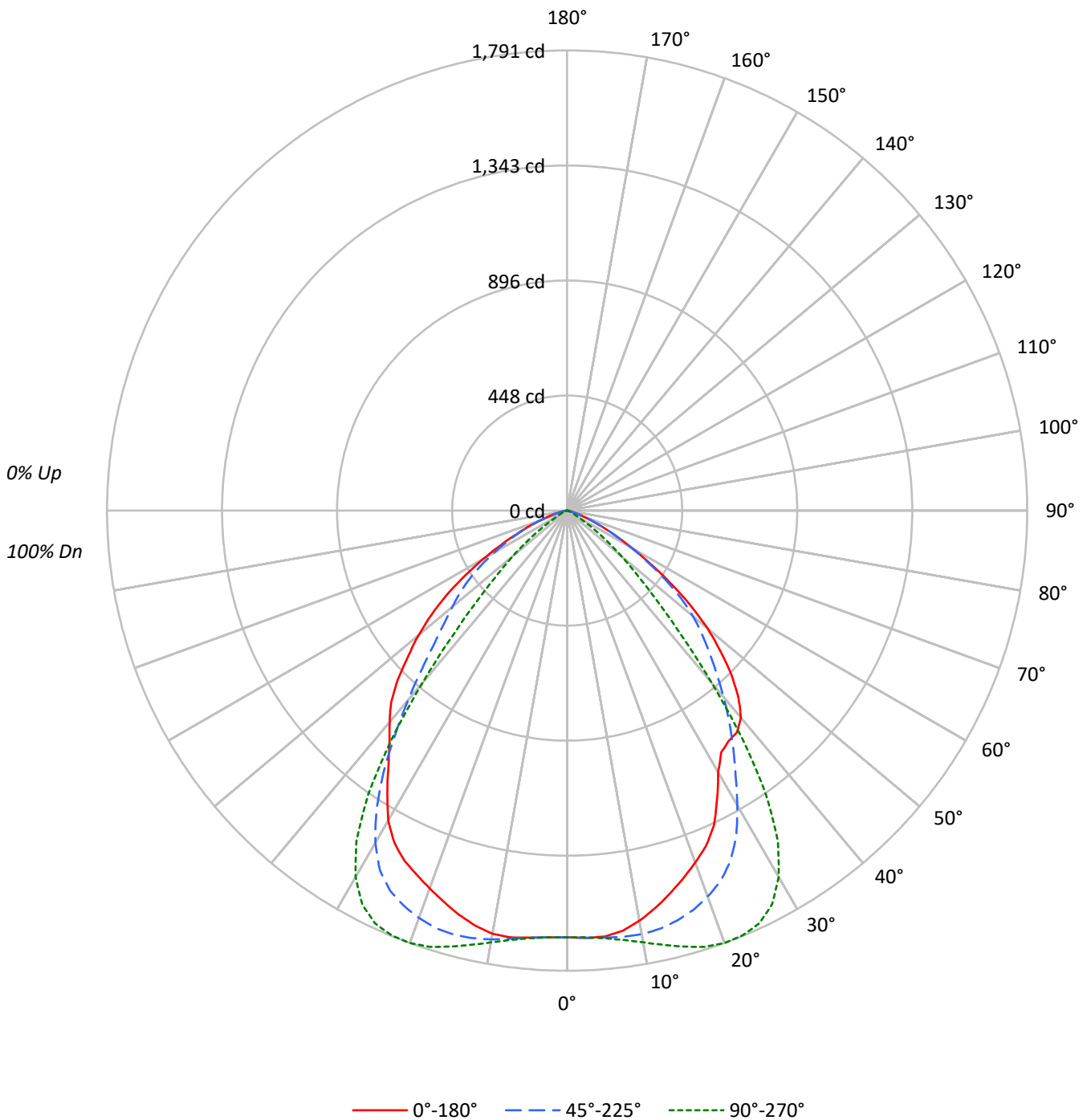
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |     |   |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |    |    | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 92  | 90  |    |    |    |    | 90  |   |  |   |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |    |    |    |    | 79  |   |  |   |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |    |    | 62  |   |  |   |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |    |    | 56  |   |  |   |
| 6   | 78  | 66  | 59  | 53  | 76  | 66  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |    |    | 41  |   |  |   |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 44  | 39  | 48  | 43  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 51207 | 51207 | 51207 |
| 5°  | 51511 | 51703 | 51647 |
| 10° | 50754 | 53431 | 52382 |
| 15° | 49272 | 56078 | 51972 |
| 20° | 47841 | 58772 | 51340 |
| 25° | 46004 | 60277 | 51101 |
| 30° | 41866 | 58626 | 49586 |
| 35° | 41243 | 50797 | 45621 |
| 40° | 42363 | 35230 | 43249 |
| 45° | 39436 | 21294 | 40666 |
| 50° | 34209 | 13149 | 36239 |
| 55° | 26252 | 6871  | 30752 |
| 60° | 17885 | 2769  | 23214 |
| 65° | 11127 | 1416  | 16016 |
| 70° | 6041  | 875   | 9773  |
| 75° | 3145  | 417   | 5778  |
| 80° | 1403  | 479   | 3125  |
| 85° | 955   | 318   | 2795  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.7  | 5.0       |
| 10°-20°   | 473.1  | 14.8      |
| 20°-30°   | 721.7  | 22.5      |
| 30°-40°   | 753.1  | 23.5      |
| 40°-50°   | 565.7  | 17.7      |
| 50°-60°   | 348.1  | 10.9      |
| 60°-70°   | 141.6  | 4.4       |
| 70°-80°   | 33.4   | 1.0       |
| 80°-90°   | 4.6    | 0.1       |
| 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°    | 1354.5 | 42.3      |
| 0°-40°    | 2107.6 | 65.8      |
| 0°-60°    | 3021.4 | 94.4      |
| 0°-90°    | 3201.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3201.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1661 | 1661 | 1661 | 1661 | 1661 |      |
| 5°  | 1664 | 1668 | 1670 | 1668 | 1668 | 157  |
| 15° | 1543 | 1652 | 1757 | 1708 | 1628 | 435  |
| 25° | 1352 | 1504 | 1772 | 1632 | 1502 | 615  |
| 35° | 1096 | 1126 | 1349 | 1247 | 1212 | 692  |
| 45° | 904  | 783  | 488  | 729  | 932  | 690  |
| 55° | 488  | 464  | 128  | 464  | 572  | 439  |
| 65° | 152  | 154  | 19   | 207  | 220  | 159  |
| 75° | 26   | 26   | 4    | 47   | 48   | 32   |
| 85° | 3    | 3    | 1    | 6    | 8    | 4    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 |
| 2.5°  | 1665.0 | 1662.3 | 1665.0 | 1665.0 | 1665.9 | 1664.1 | 1665.0 | 1665.9 | 1664.1 | 1664.1 | 1664.1 |
| 5°    | 1664.1 | 1662.3 | 1664.1 | 1663.2 | 1665.0 | 1665.0 | 1666.8 | 1666.8 | 1668.5 | 1668.5 | 1671.2 |
| 7.5°  | 1650.0 | 1646.5 | 1650.0 | 1652.7 | 1654.4 | 1657.9 | 1662.3 | 1665.9 | 1669.4 | 1672.9 | 1677.3 |
| 10°   | 1620.9 | 1620.9 | 1623.6 | 1628.8 | 1634.1 | 1640.3 | 1648.2 | 1657.1 | 1665.9 | 1673.8 | 1681.7 |
| 12.5° | 1584.8 | 1582.1 | 1587.4 | 1594.5 | 1602.4 | 1612.1 | 1624.4 | 1637.7 | 1651.8 | 1667.6 | 1680.0 |
| 15°   | 1543.4 | 1540.7 | 1546.9 | 1553.9 | 1563.6 | 1577.7 | 1592.7 | 1610.3 | 1630.6 | 1651.8 | 1672.0 |
| 17.5° | 1501.0 | 1500.2 | 1506.3 | 1516.0 | 1524.0 | 1538.9 | 1558.3 | 1579.5 | 1602.4 | 1630.6 | 1657.1 |
| 20°   | 1457.9 | 1457.0 | 1463.1 | 1471.1 | 1481.6 | 1495.8 | 1515.1 | 1539.8 | 1567.1 | 1598.9 | 1629.7 |
| 22.5° | 1412.9 | 1413.8 | 1419.1 | 1427.9 | 1436.7 | 1451.7 | 1471.9 | 1496.6 | 1526.6 | 1561.0 | 1595.3 |
| 25°   | 1352.1 | 1347.7 | 1354.7 | 1363.5 | 1378.5 | 1390.9 | 1410.3 | 1436.7 | 1467.5 | 1503.7 | 1544.2 |
| 27.5° | 1263.9 | 1263.1 | 1269.2 | 1277.2 | 1290.4 | 1305.4 | 1326.5 | 1353.8 | 1386.5 | 1426.1 | 1465.8 |
| 30°   | 1175.8 | 1177.6 | 1180.2 | 1188.1 | 1196.9 | 1211.9 | 1233.1 | 1256.0 | 1286.9 | 1324.8 | 1367.1 |
| 32.5° | 1115.9 | 1115.9 | 1119.4 | 1124.7 | 1130.8 | 1138.8 | 1153.8 | 1170.5 | 1194.3 | 1220.8 | 1251.6 |
| 35°   | 1095.6 | 1092.1 | 1095.6 | 1096.5 | 1097.4 | 1099.1 | 1101.8 | 1107.1 | 1115.0 | 1126.4 | 1137.9 |
| 37.5° | 1086.8 | 1084.1 | 1084.1 | 1080.6 | 1076.2 | 1070.9 | 1063.9 | 1055.9 | 1047.1 | 1035.7 | 1026.9 |
| 40°   | 1052.4 | 1050.6 | 1048.9 | 1045.4 | 1035.7 | 1025.1 | 1013.6 | 995.1  | 974.8  | 946.6  | 918.4  |
| 42.5° | 986.3  | 984.5  | 983.7  | 976.6  | 967.8  | 955.4  | 942.2  | 922.8  | 897.3  | 861.1  | 820.6  |
| 45°   | 904.3  | 900.8  | 898.2  | 892.0  | 885.8  | 875.2  | 862.9  | 845.3  | 819.7  | 782.7  | 734.2  |
| 47.5° | 809.1  | 807.4  | 806.5  | 803.9  | 797.7  | 791.5  | 783.6  | 769.5  | 746.6  | 711.3  | 661.1  |
| 50°   | 713.1  | 709.5  | 711.3  | 710.4  | 707.8  | 703.4  | 698.1  | 688.4  | 670.7  | 639.0  | 593.2  |
| 52.5° | 602.9  | 602.9  | 602.0  | 604.6  | 605.5  | 604.6  | 605.5  | 595.0  | 580.0  | 556.2  | 517.4  |
| 55°   | 488.3  | 488.3  | 490.9  | 494.5  | 498.0  | 498.9  | 498.0  | 493.6  | 483.0  | 463.6  | 429.2  |
| 57.5° | 380.8  | 379.0  | 384.3  | 389.6  | 393.1  | 396.6  | 394.0  | 390.5  | 384.3  | 368.4  | 342.0  |
| 60°   | 290.0  | 290.0  | 293.5  | 297.0  | 300.6  | 304.1  | 303.2  | 302.3  | 297.0  | 286.4  | 265.3  |
| 62.5° | 213.3  | 214.2  | 214.2  | 216.8  | 220.3  | 223.9  | 226.5  | 223.9  | 221.2  | 214.2  | 200.1  |
| 65°   | 152.5  | 151.6  | 152.5  | 155.1  | 157.8  | 161.3  | 163.1  | 162.2  | 159.5  | 154.2  | 143.7  |
| 67.5° | 102.2  | 101.4  | 104.9  | 105.8  | 107.5  | 111.1  | 110.2  | 111.1  | 110.2  | 105.8  | 97.0   |
| 70°   | 67.0   | 65.2   | 67.0   | 66.1   | 68.8   | 69.6   | 71.4   | 72.3   | 71.4   | 68.8   | 66.1   |
| 72.5° | 41.4   | 40.5   | 41.4   | 42.3   | 43.2   | 44.1   | 45.8   | 45.8   | 44.9   | 43.2   | 39.7   |
| 75°   | 26.4   | 23.8   | 24.7   | 22.9   | 24.7   | 24.7   | 26.4   | 27.3   | 26.4   | 26.4   | 24.7   |
| 77.5° | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 16.8   | 17.6   | 15.9   | 15.0   |
| 80°   | 7.9    | 7.9    | 8.8    | 8.8    | 8.8    | 9.7    | 8.8    | 8.8    | 8.8    | 9.7    | 7.1    |
| 82.5° | 6.2    | 5.3    | 5.3    | 5.3    | 6.2    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 85°   | 2.7    | 3.5    | 2.7    | 1.8    | 2.7    | 2.7    | 3.5    | 2.7    | 2.7    | 2.7    | 3.5    |
| 87.5° | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.9    | 0.0    | 0.9    | 0.9    | 1.8    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 |
| 2.5°  | 1665.0 | 1663.2 | 1663.2 | 1662.3 | 1664.1 | 1662.3 | 1663.2 | 1662.3 | 1662.3 | 1664.1 | 1662.3 |
| 5°    | 1671.2 | 1672.0 | 1670.3 | 1669.4 | 1672.0 | 1672.0 | 1672.0 | 1670.3 | 1670.3 | 1671.2 | 1670.3 |
| 7.5°  | 1680.0 | 1681.7 | 1682.6 | 1683.5 | 1685.3 | 1686.1 | 1686.1 | 1685.3 | 1684.4 | 1687.0 | 1683.5 |
| 10°   | 1689.7 | 1692.3 | 1697.6 | 1700.2 | 1704.6 | 1704.6 | 1706.4 | 1706.4 | 1704.6 | 1706.4 | 1705.5 |
| 12.5° | 1686.1 | 1702.0 | 1710.8 | 1717.0 | 1723.2 | 1728.4 | 1730.2 | 1731.1 | 1730.2 | 1733.7 | 1730.2 |
| 15°   | 1692.3 | 1705.5 | 1719.6 | 1730.2 | 1741.7 | 1747.8 | 1749.6 | 1756.6 | 1758.4 | 1759.3 | 1754.0 |
| 17.5° | 1682.6 | 1706.4 | 1721.4 | 1737.3 | 1754.0 | 1765.5 | 1776.0 | 1780.5 | 1781.3 | 1783.1 | 1776.0 |
| 20°   | 1660.6 | 1687.0 | 1709.9 | 1732.9 | 1752.2 | 1769.9 | 1778.7 | 1791.0 | 1787.5 | 1794.6 | 1784.9 |
| 22.5° | 1630.6 | 1660.6 | 1689.7 | 1719.6 | 1739.9 | 1761.1 | 1779.6 | 1788.4 | 1792.8 | 1792.8 | 1782.2 |
| 25°   | 1583.0 | 1618.3 | 1650.0 | 1680.8 | 1711.7 | 1737.3 | 1758.4 | 1771.6 | 1774.3 | 1773.4 | 1761.1 |
| 27.5° | 1509.0 | 1546.9 | 1583.9 | 1619.2 | 1657.1 | 1687.0 | 1711.7 | 1727.6 | 1732.0 | 1732.0 | 1718.8 |
| 30°   | 1406.7 | 1447.3 | 1483.4 | 1525.7 | 1564.5 | 1598.0 | 1632.4 | 1646.5 | 1654.4 | 1654.4 | 1639.4 |
| 32.5° | 1285.1 | 1319.5 | 1353.0 | 1394.4 | 1436.7 | 1474.6 | 1507.2 | 1526.6 | 1536.3 | 1535.4 | 1522.2 |
| 35°   | 1152.9 | 1169.6 | 1195.2 | 1226.0 | 1263.9 | 1299.2 | 1330.9 | 1349.4 | 1366.2 | 1365.3 | 1353.0 |
| 37.5° | 1020.7 | 1016.3 | 1018.9 | 1030.4 | 1054.2 | 1078.8 | 1103.5 | 1121.2 | 1135.2 | 1141.4 | 1138.8 |
| 40°   | 891.1  | 868.2  | 846.1  | 838.2  | 840.0  | 848.8  | 862.0  | 875.2  | 891.1  | 899.0  | 902.6  |
| 42.5° | 774.8  | 736.0  | 697.2  | 668.1  | 651.4  | 646.1  | 652.2  | 656.6  | 666.3  | 677.8  | 689.3  |
| 45°   | 681.3  | 629.3  | 578.2  | 533.3  | 505.0  | 488.3  | 484.8  | 488.3  | 493.6  | 505.0  | 520.0  |
| 47.5° | 604.6  | 543.8  | 486.5  | 436.3  | 394.9  | 372.8  | 366.7  | 364.9  | 370.2  | 380.8  | 401.0  |
| 50°   | 536.8  | 476.0  | 412.5  | 354.3  | 311.1  | 286.4  | 277.6  | 274.1  | 280.3  | 288.2  | 306.7  |
| 52.5° | 462.7  | 402.8  | 337.6  | 281.2  | 236.2  | 210.7  | 201.0  | 195.7  | 199.2  | 209.8  | 228.3  |
| 55°   | 382.5  | 327.0  | 267.9  | 209.8  | 166.6  | 142.8  | 131.3  | 127.8  | 131.3  | 142.8  | 161.3  |
| 57.5° | 302.3  | 255.6  | 206.2  | 151.6  | 112.8  | 89.0   | 77.6   | 74.0   | 83.7   | 88.1   | 107.5  |
| 60°   | 236.2  | 198.3  | 156.0  | 111.1  | 77.6   | 59.0   | 47.6   | 44.9   | 49.4   | 57.3   | 73.2   |
| 62.5° | 177.2  | 153.4  | 119.9  | 79.3   | 57.3   | 37.9   | 31.7   | 29.1   | 31.7   | 37.9   | 50.2   |
| 65°   | 128.7  | 110.2  | 83.7   | 58.2   | 38.8   | 28.2   | 21.2   | 19.4   | 22.0   | 26.4   | 37.0   |
| 67.5° | 88.1   | 74.0   | 58.2   | 40.5   | 26.4   | 17.6   | 15.0   | 15.0   | 15.9   | 19.4   | 27.3   |
| 70°   | 57.3   | 48.5   | 37.0   | 26.4   | 17.6   | 13.2   | 11.5   | 9.7    | 11.5   | 14.1   | 18.5   |
| 72.5° | 36.1   | 30.8   | 23.8   | 18.5   | 13.2   | 9.7    | 7.9    | 7.1    | 8.8    | 10.6   | 14.1   |
| 75°   | 22.0   | 16.8   | 12.3   | 9.7    | 7.1    | 7.1    | 7.1    | 3.5    | 4.4    | 7.1    | 8.8    |
| 77.5° | 13.2   | 11.5   | 9.7    | 7.9    | 6.2    | 3.5    | 3.5    | 3.5    | 4.4    | 5.3    | 7.9    |
| 80°   | 7.1    | 6.2    | 4.4    | 4.4    | 3.5    | 2.7    | 3.5    | 2.7    | 1.8    | 4.4    | 5.3    |
| 82.5° | 4.4    | 3.5    | 3.5    | 3.5    | 4.4    | 1.8    | 2.7    | 1.8    | 2.7    | 3.5    | 2.7    |
| 85°   | 2.7    | 2.7    | 2.7    | 1.8    | 4.4    | 1.8    | 1.8    | 0.9    | 0.9    | 1.8    | 1.8    |
| 87.5° | 0.0    | 0.9    | 0.9    | 0.0    | 0.9    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 | 1660.6 |
| 2.5°  | 1663.2 | 1662.3 | 1663.2 | 1662.3 | 1662.3 | 1662.3 | 1663.2 | 1663.2 | 1662.3 | 1662.3 | 1664.1 |
| 5°    | 1670.3 | 1670.3 | 1670.3 | 1669.4 | 1668.5 | 1668.5 | 1670.3 | 1670.3 | 1667.6 | 1670.3 | 1670.3 |
| 7.5°  | 1685.3 | 1682.6 | 1685.3 | 1681.7 | 1680.0 | 1680.8 | 1681.7 | 1680.0 | 1678.2 | 1679.1 | 1679.1 |
| 10°   | 1704.6 | 1702.0 | 1702.0 | 1699.4 | 1696.7 | 1694.9 | 1693.2 | 1688.8 | 1684.4 | 1683.5 | 1680.0 |
| 12.5° | 1727.6 | 1723.2 | 1720.5 | 1715.2 | 1710.8 | 1704.6 | 1699.4 | 1692.3 | 1683.5 | 1677.3 | 1671.2 |
| 15°   | 1750.5 | 1743.4 | 1737.3 | 1728.4 | 1718.8 | 1708.2 | 1696.7 | 1685.3 | 1671.2 | 1658.8 | 1648.2 |
| 17.5° | 1769.0 | 1759.3 | 1747.8 | 1733.7 | 1719.6 | 1703.8 | 1687.0 | 1670.3 | 1650.0 | 1634.1 | 1621.8 |
| 20°   | 1775.1 | 1761.1 | 1746.1 | 1727.6 | 1709.0 | 1687.0 | 1665.9 | 1643.8 | 1620.9 | 1604.2 | 1590.1 |
| 22.5° | 1767.2 | 1750.5 | 1732.0 | 1712.6 | 1687.9 | 1664.1 | 1639.4 | 1613.9 | 1593.6 | 1570.7 | 1557.5 |
| 25°   | 1745.2 | 1724.9 | 1704.6 | 1681.7 | 1657.9 | 1631.5 | 1605.1 | 1578.6 | 1553.9 | 1541.6 | 1524.8 |
| 27.5° | 1700.2 | 1678.2 | 1656.2 | 1632.4 | 1605.1 | 1578.6 | 1551.3 | 1525.7 | 1504.6 | 1487.8 | 1478.1 |
| 30°   | 1620.9 | 1595.3 | 1569.8 | 1544.2 | 1520.4 | 1493.1 | 1467.5 | 1446.4 | 1425.2 | 1412.0 | 1402.3 |
| 32.5° | 1499.3 | 1476.4 | 1450.8 | 1426.1 | 1404.1 | 1381.2 | 1360.0 | 1341.5 | 1326.5 | 1317.7 | 1310.6 |
| 35°   | 1335.3 | 1312.4 | 1293.0 | 1275.4 | 1256.9 | 1247.2 | 1234.0 | 1223.4 | 1217.2 | 1213.7 | 1212.8 |
| 37.5° | 1129.1 | 1115.9 | 1109.7 | 1106.2 | 1102.6 | 1100.0 | 1101.8 | 1106.2 | 1109.7 | 1115.9 | 1122.9 |
| 40°   | 908.7  | 920.2  | 923.7  | 936.1  | 947.5  | 962.5  | 979.3  | 998.6  | 1014.5 | 1034.8 | 1048.9 |
| 42.5° | 707.8  | 728.9  | 753.6  | 780.0  | 808.3  | 835.6  | 869.1  | 899.9  | 928.1  | 953.7  | 975.7  |
| 45°   | 543.8  | 576.4  | 613.5  | 651.4  | 689.3  | 728.9  | 769.5  | 807.4  | 840.9  | 868.2  | 891.1  |
| 47.5° | 424.0  | 460.1  | 507.7  | 554.4  | 600.2  | 647.0  | 691.9  | 731.6  | 759.8  | 786.2  | 806.5  |
| 50°   | 335.8  | 377.2  | 429.2  | 483.0  | 533.3  | 582.6  | 630.2  | 667.2  | 695.4  | 716.6  | 731.6  |
| 52.5° | 260.0  | 309.4  | 362.3  | 418.7  | 472.4  | 526.2  | 570.3  | 604.6  | 627.6  | 646.1  | 657.5  |
| 55°   | 193.9  | 242.4  | 298.8  | 357.0  | 411.6  | 463.6  | 505.0  | 535.0  | 555.3  | 565.9  | 572.0  |
| 57.5° | 140.1  | 184.2  | 240.6  | 298.8  | 348.2  | 397.5  | 431.0  | 458.3  | 469.8  | 476.0  | 478.6  |
| 60°   | 102.2  | 142.8  | 193.0  | 243.3  | 290.0  | 329.6  | 358.7  | 377.2  | 386.1  | 389.6  | 388.7  |
| 62.5° | 74.9   | 110.2  | 153.4  | 195.7  | 233.6  | 266.2  | 289.1  | 301.4  | 305.9  | 307.6  | 305.0  |
| 65°   | 57.3   | 84.6   | 121.6  | 154.2  | 183.3  | 207.1  | 223.9  | 231.8  | 234.5  | 233.6  | 231.8  |
| 67.5° | 42.3   | 63.5   | 90.8   | 115.5  | 136.6  | 155.1  | 163.9  | 171.0  | 172.7  | 170.1  | 167.5  |
| 70°   | 30.0   | 46.7   | 66.1   | 82.9   | 98.7   | 109.3  | 119.0  | 119.9  | 119.9  | 119.0  | 117.2  |
| 72.5° | 21.2   | 32.6   | 44.9   | 56.4   | 66.1   | 74.0   | 77.6   | 80.2   | 79.3   | 78.4   | 76.7   |
| 75°   | 14.1   | 20.3   | 32.6   | 35.3   | 44.1   | 46.7   | 50.2   | 50.2   | 51.1   | 48.5   | 48.5   |
| 77.5° | 8.8    | 14.1   | 19.4   | 22.9   | 26.4   | 30.0   | 31.7   | 31.7   | 32.6   | 31.7   | 31.7   |
| 80°   | 5.3    | 8.8    | 10.6   | 15.9   | 15.9   | 18.5   | 19.4   | 20.3   | 18.5   | 21.2   | 18.5   |
| 82.5° | 3.5    | 5.3    | 7.9    | 7.9    | 9.7    | 11.5   | 11.5   | 12.3   | 12.3   | 11.5   | 11.5   |
| 85°   | 2.7    | 3.5    | 4.4    | 5.3    | 5.3    | 6.2    | 5.3    | 5.3    | 6.2    | 7.1    | 6.2    |
| 87.5° | 0.9    | 1.8    | 0.9    | 1.8    | 1.8    | 3.5    | 2.7    | 2.7    | 2.7    | 3.5    | 3.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P245481

CATALOG NUMBER: LD8B30D010 ER8B30850 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1660.6 | 1660.6 | 1660.6 | 1660.6 |
| 2.5°  | 1662.3 | 1663.2 | 1662.3 | 1662.3 |
| 5°    | 1670.3 | 1669.4 | 1670.3 | 1668.5 |
| 7.5°  | 1676.4 | 1676.4 | 1675.6 | 1675.6 |
| 10°   | 1676.4 | 1672.9 | 1672.9 | 1672.9 |
| 12.5° | 1663.2 | 1658.8 | 1656.2 | 1654.4 |
| 15°   | 1640.3 | 1632.4 | 1628.8 | 1628.0 |
| 17.5° | 1610.3 | 1603.3 | 1598.9 | 1596.2 |
| 20°   | 1576.0 | 1568.9 | 1563.6 | 1564.5 |
| 22.5° | 1546.0 | 1538.1 | 1534.5 | 1532.8 |
| 25°   | 1516.0 | 1506.3 | 1503.7 | 1501.9 |
| 27.5° | 1467.5 | 1462.3 | 1459.6 | 1457.0 |
| 30°   | 1393.5 | 1390.9 | 1386.5 | 1392.6 |
| 32.5° | 1308.0 | 1303.6 | 1300.1 | 1302.7 |
| 35°   | 1213.7 | 1211.1 | 1213.7 | 1211.9 |
| 37.5° | 1127.3 | 1130.0 | 1133.5 | 1135.2 |
| 40°   | 1059.5 | 1069.1 | 1072.7 | 1074.4 |
| 42.5° | 991.6  | 1003.0 | 1010.1 | 1014.5 |
| 45°   | 907.8  | 919.3  | 927.2  | 932.5  |
| 47.5° | 821.5  | 831.2  | 839.1  | 838.2  |
| 50°   | 743.0  | 748.3  | 751.8  | 755.4  |
| 52.5° | 663.7  | 663.7  | 664.6  | 664.6  |
| 55°   | 573.8  | 572.0  | 571.1  | 572.0  |
| 57.5° | 475.1  | 473.3  | 472.4  | 469.8  |
| 60°   | 385.2  | 379.9  | 376.4  | 376.4  |
| 62.5° | 301.4  | 295.3  | 292.6  | 291.8  |
| 65°   | 226.5  | 225.6  | 220.3  | 219.5  |
| 67.5° | 163.9  | 160.4  | 156.9  | 157.8  |
| 70°   | 115.5  | 110.2  | 110.2  | 108.4  |
| 72.5° | 74.9   | 72.3   | 71.4   | 71.4   |
| 75°   | 46.7   | 46.7   | 44.9   | 48.5   |
| 77.5° | 30.8   | 30.8   | 30.0   | 30.8   |
| 80°   | 18.5   | 18.5   | 18.5   | 17.6   |
| 82.5° | 11.5   | 12.3   | 11.5   | 11.5   |
| 85°   | 6.2    | 7.1    | 5.3    | 7.9    |
| 87.5° | 3.5    | 4.4    | 3.5    | 4.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)