

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: P#

Luminaire Tested: **LD4C30D010 EX4C309050 4LBSQLWWLI**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C30D010 EX4C309050 4LBSQLWWLI  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

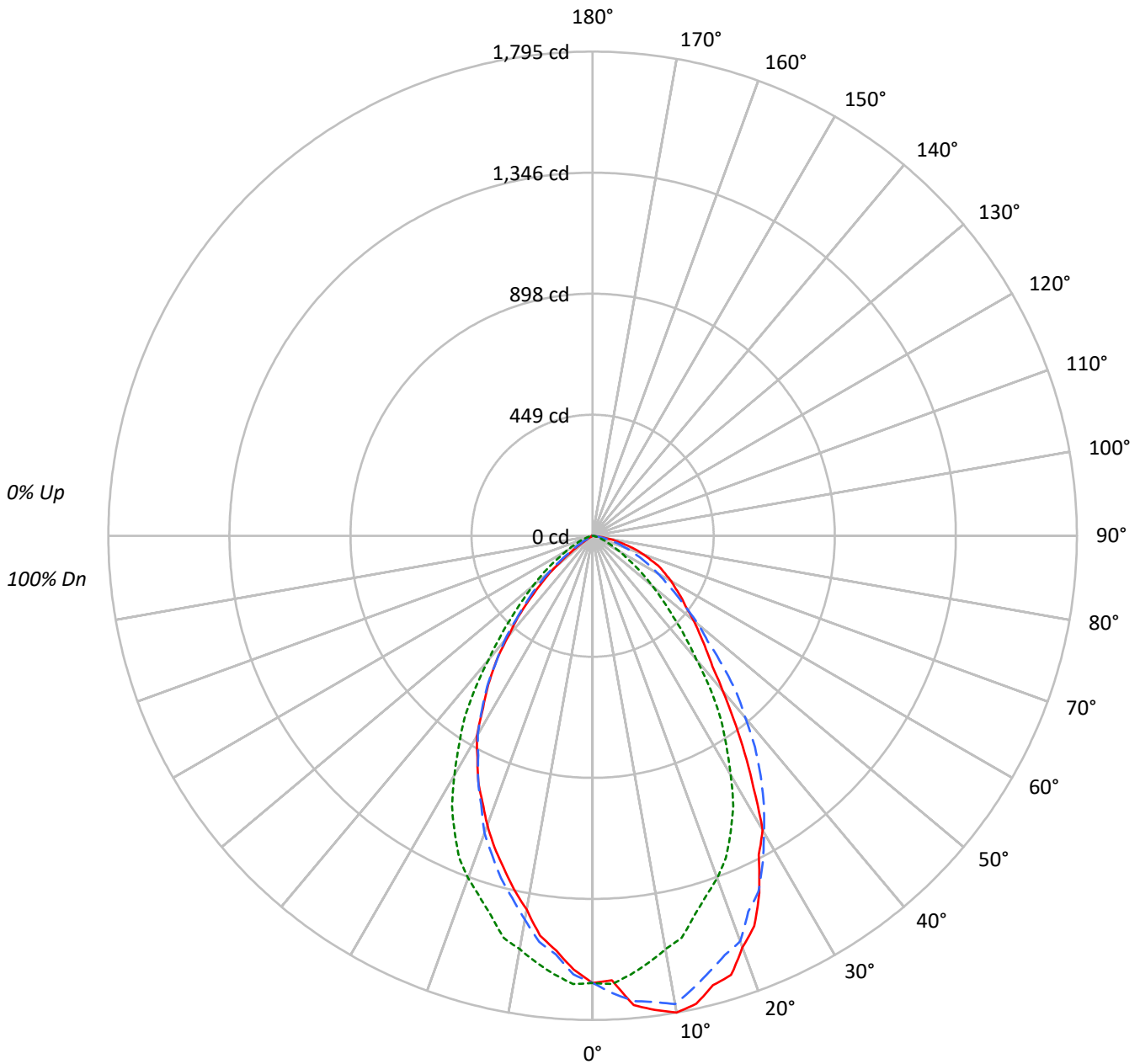
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2376.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
Input Voltage (V):  
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: 25 FT

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CATALOG NUMBER: LD4C30D010 EX4C309050 4LBSQLWWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 62  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 38  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 159940 | 159940 | 159940 |
| 5°  | 169210 | 158052 | 149577 |
| 10° | 175850 | 152472 | 137864 |
| 15° | 172325 | 145524 | 127263 |
| 20° | 166734 | 138568 | 117139 |
| 25° | 155533 | 128864 | 106858 |
| 30° | 140395 | 114045 | 95662  |
| 35° | 115647 | 97625  | 79368  |
| 40° | 94380  | 75360  | 61089  |
| 45° | 81096  | 57230  | 43939  |
| 50° | 73389  | 43562  | 27755  |
| 55° | 67542  | 31424  | 10026  |
| 60° | 64821  | 21478  | 1525   |
| 65° | 62603  | 14521  | 457    |
| 70° | 56056  | 10071  | 564    |
| 75° | 45967  | 5182   | 0      |
| 80° | 28727  | 2223   | 0      |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.3  | 6.5       |
| 10°-20°   | 418.4  | 17.6      |
| 20°-30°   | 558.7  | 23.5      |
| 30°-40°   | 530.4  | 22.3      |
| 40°-50°   | 366.6  | 15.4      |
| 50°-60°   | 202.6  | 8.5       |
| 60°-70°   | 100.6  | 4.2       |
| 70°-80°   | 39.6   | 1.7       |
| 80°-90°   | 3.8    | 0.2       |
| 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°    | 1132.4 | 47.7      |
| 0°-40°    | 1662.8 | 70.0      |
| 0°-60°    | 2232.0 | 93.9      |
| 0°-90°    | 2376.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2376.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1658 | 1658 | 1658 | 1658 | 1658 |      |
| 5°  | 1747 | 1731 | 1632 | 1558 | 1544 | 167  |
| 15° | 1725 | 1674 | 1457 | 1314 | 1274 | 488  |
| 25° | 1461 | 1455 | 1210 | 1004 | 1004 | 666  |
| 35° | 982  | 1085 | 829  | 682  | 674  | 615  |
| 45° | 594  | 682  | 419  | 344  | 322  | 464  |
| 55° | 402  | 378  | 187  | 95   | 60   | 361  |
| 65° | 274  | 199  | 64   | 2    | 2    | 266  |
| 75° | 123  | 76   | 14   | 0    | 0    | 131  |
| 85° | 0    | 2    | 0    | 0    | 0    | 11   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 |
| 2.5°  | 1649.6 | 1695.3 | 1699.3 | 1695.3 | 1701.3 | 1699.3 | 1709.3 | 1699.3 | 1711.3 | 1693.4 | 1697.3 |
| 5°    | 1747.0 | 1729.1 | 1766.9 | 1747.0 | 1747.0 | 1745.1 | 1739.1 | 1737.1 | 1745.1 | 1719.2 | 1731.1 |
| 7.5°  | 1772.9 | 1798.7 | 1832.5 | 1790.8 | 1792.7 | 1792.7 | 1780.8 | 1776.8 | 1776.8 | 1729.1 | 1743.0 |
| 10°   | 1794.8 | 1778.8 | 1796.7 | 1780.8 | 1794.8 | 1792.7 | 1800.7 | 1774.8 | 1792.7 | 1764.9 | 1762.9 |
| 12.5° | 1776.8 | 1770.8 | 1794.8 | 1768.9 | 1761.0 | 1762.9 | 1753.0 | 1747.0 | 1753.0 | 1721.2 | 1719.2 |
| 15°   | 1725.1 | 1731.1 | 1766.9 | 1739.1 | 1735.1 | 1731.1 | 1719.2 | 1699.3 | 1715.3 | 1671.5 | 1673.5 |
| 17.5° | 1707.3 | 1697.3 | 1703.3 | 1679.4 | 1685.4 | 1681.5 | 1679.4 | 1661.6 | 1657.6 | 1629.8 | 1629.8 |
| 20°   | 1623.8 | 1645.6 | 1645.6 | 1629.8 | 1629.8 | 1627.8 | 1602.0 | 1617.8 | 1599.9 | 1592.0 | 1599.9 |
| 22.5° | 1566.1 | 1568.2 | 1568.2 | 1554.2 | 1556.2 | 1548.3 | 1534.4 | 1524.4 | 1534.4 | 1524.4 | 1508.5 |
| 25°   | 1460.9 | 1464.8 | 1488.7 | 1462.8 | 1458.8 | 1466.8 | 1454.9 | 1448.9 | 1446.9 | 1423.1 | 1454.9 |
| 27.5° | 1333.6 | 1373.3 | 1371.4 | 1361.4 | 1373.3 | 1357.5 | 1351.5 | 1353.5 | 1359.5 | 1357.5 | 1365.4 |
| 30°   | 1260.1 | 1266.0 | 1272.0 | 1264.1 | 1266.0 | 1260.1 | 1260.1 | 1262.1 | 1278.0 | 1272.0 | 1270.0 |
| 32.5° | 1111.0 | 1130.9 | 1146.8 | 1146.8 | 1148.8 | 1154.8 | 1152.7 | 1194.5 | 1204.4 | 1184.6 | 1180.6 |
| 35°   | 981.8  | 995.8  | 1009.6 | 1011.6 | 1037.5 | 1039.4 | 1041.5 | 1053.4 | 1081.2 | 1087.2 | 1085.2 |
| 37.5° | 858.6  | 872.5  | 876.5  | 894.4  | 908.3  | 922.2  | 938.1  | 954.0  | 977.9  | 997.7  | 987.8  |
| 40°   | 749.3  | 755.2  | 765.2  | 773.1  | 800.9  | 800.9  | 808.9  | 840.7  | 866.6  | 882.5  | 880.4  |
| 42.5° | 657.9  | 659.8  | 667.8  | 681.7  | 707.6  | 701.6  | 707.6  | 729.5  | 767.1  | 769.2  | 791.0  |
| 45°   | 594.3  | 592.3  | 598.3  | 600.2  | 616.2  | 624.1  | 628.1  | 644.0  | 675.7  | 679.7  | 681.7  |
| 47.5° | 536.7  | 534.6  | 544.6  | 548.6  | 554.5  | 562.4  | 562.4  | 564.5  | 576.4  | 586.3  | 578.4  |
| 50°   | 488.9  | 488.9  | 488.9  | 492.9  | 502.9  | 500.8  | 502.9  | 510.8  | 516.7  | 512.8  | 510.8  |
| 52.5° | 437.2  | 445.2  | 451.2  | 453.2  | 455.1  | 455.1  | 457.2  | 453.2  | 451.2  | 445.2  | 433.3  |
| 55°   | 401.5  | 409.4  | 409.4  | 409.4  | 409.4  | 417.4  | 407.5  | 409.4  | 409.4  | 393.5  | 377.7  |
| 57.5° | 365.7  | 373.7  | 379.6  | 371.7  | 379.6  | 371.7  | 367.7  | 365.7  | 361.7  | 345.8  | 322.0  |
| 60°   | 335.9  | 339.9  | 337.9  | 335.9  | 339.9  | 333.9  | 329.9  | 322.0  | 318.0  | 296.1  | 280.2  |
| 62.5° | 302.1  | 304.1  | 306.1  | 302.1  | 298.2  | 296.1  | 288.2  | 276.3  | 268.3  | 250.4  | 236.5  |
| 65°   | 274.2  | 268.3  | 266.3  | 264.4  | 260.4  | 254.4  | 248.5  | 234.5  | 228.5  | 212.7  | 198.7  |
| 67.5° | 232.5  | 230.6  | 234.5  | 228.5  | 218.7  | 218.7  | 212.7  | 200.7  | 186.8  | 176.9  | 163.0  |
| 70°   | 198.7  | 196.8  | 192.8  | 186.8  | 184.9  | 176.9  | 176.9  | 163.0  | 159.0  | 141.1  | 129.2  |
| 72.5° | 163.0  | 163.0  | 157.0  | 151.1  | 145.1  | 141.1  | 139.1  | 129.2  | 123.3  | 113.3  | 103.3  |
| 75°   | 123.3  | 123.3  | 121.2  | 115.2  | 111.3  | 107.3  | 105.4  | 97.4   | 91.4   | 81.5   | 75.5   |
| 77.5° | 87.4   | 87.4   | 79.5   | 75.5   | 77.5   | 73.5   | 69.5   | 67.6   | 65.6   | 59.6   | 51.7   |
| 80°   | 51.7   | 49.7   | 43.8   | 45.7   | 43.8   | 43.8   | 41.7   | 39.7   | 35.7   | 31.8   | 27.8   |
| 82.5° | 13.9   | 15.9   | 15.9   | 15.9   | 17.9   | 13.9   | 13.9   | 13.9   | 15.9   | 15.9   | 10.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    |
| 87.5° | 2.0    | 4.0    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 6.0    | 6.0    | 6.0    | 4.0    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 |
| 2.5°  | 1677.5 | 1675.5 | 1677.5 | 1663.5 | 1695.3 | 1671.5 | 1667.5 | 1663.5 | 1677.5 | 1663.5 | 1643.7 |
| 5°    | 1713.2 | 1693.4 | 1687.4 | 1681.5 | 1699.3 | 1671.5 | 1665.6 | 1667.5 | 1657.6 | 1631.8 | 1633.7 |
| 7.5°  | 1725.1 | 1707.3 | 1689.4 | 1651.6 | 1667.5 | 1661.6 | 1645.6 | 1633.7 | 1617.8 | 1596.0 | 1592.0 |
| 10°   | 1729.1 | 1709.3 | 1683.4 | 1671.5 | 1647.7 | 1639.7 | 1633.7 | 1613.9 | 1594.0 | 1556.2 | 1546.3 |
| 12.5° | 1717.2 | 1693.4 | 1661.6 | 1651.6 | 1633.7 | 1607.9 | 1594.0 | 1574.1 | 1556.2 | 1526.4 | 1504.5 |
| 15°   | 1665.6 | 1645.6 | 1635.7 | 1602.0 | 1594.0 | 1578.0 | 1550.3 | 1522.5 | 1496.6 | 1456.8 | 1444.9 |
| 17.5° | 1605.9 | 1598.0 | 1588.0 | 1562.2 | 1560.2 | 1544.3 | 1518.5 | 1494.6 | 1460.9 | 1399.2 | 1379.3 |
| 20°   | 1544.3 | 1544.3 | 1512.5 | 1502.6 | 1522.5 | 1490.6 | 1470.7 | 1448.9 | 1379.3 | 1349.5 | 1313.8 |
| 22.5° | 1498.6 | 1476.7 | 1458.8 | 1443.0 | 1444.9 | 1425.0 | 1397.2 | 1353.5 | 1327.6 | 1291.9 | 1250.2 |
| 25°   | 1409.2 | 1417.1 | 1377.4 | 1371.4 | 1377.4 | 1331.6 | 1317.7 | 1281.9 | 1244.2 | 1210.4 | 1178.6 |
| 27.5° | 1353.5 | 1331.6 | 1305.8 | 1283.9 | 1283.9 | 1266.0 | 1226.3 | 1218.4 | 1160.7 | 1128.9 | 1089.1 |
| 30°   | 1270.0 | 1254.1 | 1232.2 | 1200.5 | 1196.5 | 1182.6 | 1150.8 | 1130.9 | 1071.3 | 1023.6 | 1001.7 |
| 32.5° | 1164.7 | 1158.7 | 1140.8 | 1105.1 | 1093.2 | 1077.2 | 1037.5 | 1003.7 | 975.9  | 922.2  | 896.4  |
| 35°   | 1089.1 | 1067.3 | 1029.6 | 999.7  | 989.8  | 962.0  | 930.1  | 906.3  | 876.5  | 828.8  | 795.0  |
| 37.5° | 975.9  | 954.0  | 918.2  | 882.5  | 882.5  | 854.7  | 810.9  | 787.1  | 745.3  | 717.5  | 689.7  |
| 40°   | 876.5  | 848.7  | 812.9  | 771.2  | 765.2  | 725.4  | 707.6  | 667.8  | 641.9  | 598.3  | 594.3  |
| 42.5° | 765.2  | 739.3  | 707.6  | 675.7  | 651.9  | 632.0  | 586.3  | 556.5  | 528.7  | 506.8  | 500.8  |
| 45°   | 663.8  | 630.0  | 602.2  | 562.4  | 538.6  | 514.8  | 485.0  | 465.1  | 443.2  | 419.4  | 405.5  |
| 47.5° | 576.4  | 548.6  | 508.8  | 473.0  | 449.2  | 437.2  | 403.4  | 381.6  | 363.7  | 347.8  | 337.9  |
| 50°   | 487.0  | 453.2  | 431.3  | 391.5  | 387.5  | 359.7  | 331.9  | 314.0  | 304.1  | 290.2  | 276.3  |
| 52.5° | 419.4  | 387.5  | 357.7  | 328.0  | 312.0  | 302.1  | 276.3  | 258.4  | 244.5  | 234.5  | 226.6  |
| 55°   | 353.7  | 326.0  | 302.1  | 272.3  | 262.3  | 248.5  | 218.7  | 214.7  | 200.7  | 186.8  | 176.9  |
| 57.5° | 304.1  | 278.2  | 250.4  | 230.6  | 212.7  | 202.8  | 178.9  | 163.0  | 155.0  | 143.1  | 133.2  |
| 60°   | 258.4  | 230.6  | 208.7  | 184.9  | 176.9  | 163.0  | 145.1  | 131.2  | 121.2  | 111.3  | 101.4  |
| 62.5° | 216.6  | 192.8  | 169.0  | 149.0  | 137.1  | 129.2  | 115.2  | 103.3  | 93.4   | 85.5   | 77.5   |
| 65°   | 178.9  | 157.0  | 137.1  | 117.3  | 111.3  | 101.4  | 91.4   | 81.5   | 73.5   | 63.6   | 55.7   |
| 67.5° | 147.1  | 127.2  | 107.3  | 93.4   | 87.4   | 83.5   | 71.6   | 61.6   | 55.7   | 49.7   | 41.7   |
| 70°   | 115.2  | 101.4  | 85.5   | 73.5   | 67.6   | 61.6   | 53.7   | 47.7   | 39.7   | 35.7   | 29.8   |
| 72.5° | 89.5   | 77.5   | 63.6   | 53.7   | 49.7   | 45.7   | 37.8   | 31.8   | 27.8   | 23.8   | 19.9   |
| 75°   | 63.6   | 53.7   | 45.7   | 35.7   | 33.8   | 31.8   | 25.9   | 21.9   | 17.9   | 13.9   | 11.9   |
| 77.5° | 43.8   | 35.7   | 27.8   | 23.8   | 21.9   | 17.9   | 15.9   | 11.9   | 10.0   | 7.9    | 6.0    |
| 80°   | 23.8   | 17.9   | 13.9   | 11.9   | 10.0   | 7.9    | 7.9    | 6.0    | 4.0    | 4.0    | 2.0    |
| 82.5° | 7.9    | 6.0    | 4.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 2.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 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    |



TEST NUMBER: P#

CATALOG NUMBER: LD4C30D010 EX4C309050 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 |
| 2.5°  | 1655.6 | 1633.7 | 1639.7 | 1639.7 | 1635.7 | 1635.7 | 1631.8 | 1625.8 | 1627.8 | 1615.8 | 1590.0 |
| 5°    | 1637.7 | 1609.9 | 1605.9 | 1609.9 | 1594.0 | 1590.0 | 1582.1 | 1594.0 | 1558.2 | 1572.1 | 1556.2 |
| 7.5°  | 1586.1 | 1560.2 | 1554.2 | 1568.2 | 1548.3 | 1536.3 | 1534.4 | 1550.3 | 1518.5 | 1502.6 | 1484.7 |
| 10°   | 1528.4 | 1518.5 | 1500.6 | 1490.6 | 1484.7 | 1486.6 | 1470.7 | 1450.9 | 1444.9 | 1440.9 | 1425.0 |
| 12.5° | 1476.7 | 1454.9 | 1439.0 | 1427.1 | 1423.1 | 1423.1 | 1397.2 | 1393.3 | 1375.4 | 1371.4 | 1347.6 |
| 15°   | 1415.1 | 1389.3 | 1379.3 | 1363.4 | 1349.5 | 1357.5 | 1327.6 | 1319.7 | 1313.8 | 1287.9 | 1291.9 |
| 17.5° | 1361.4 | 1333.6 | 1309.8 | 1299.8 | 1287.9 | 1276.0 | 1248.1 | 1254.1 | 1240.2 | 1240.2 | 1204.4 |
| 20°   | 1291.9 | 1262.1 | 1244.2 | 1224.3 | 1224.3 | 1208.4 | 1188.6 | 1190.5 | 1172.6 | 1154.8 | 1122.9 |
| 22.5° | 1218.4 | 1186.5 | 1164.7 | 1156.7 | 1136.9 | 1132.9 | 1109.1 | 1103.1 | 1079.2 | 1081.2 | 1053.4 |
| 25°   | 1140.8 | 1109.1 | 1079.2 | 1081.2 | 1063.3 | 1055.4 | 1041.5 | 1013.7 | 1003.7 | 991.8  | 983.8  |
| 27.5° | 1049.4 | 1027.5 | 1001.7 | 999.7  | 965.9  | 967.9  | 950.1  | 942.1  | 918.2  | 924.2  | 906.3  |
| 30°   | 965.9  | 934.2  | 910.3  | 904.3  | 890.4  | 886.4  | 858.6  | 846.6  | 850.7  | 834.7  | 824.8  |
| 32.5° | 880.4  | 832.8  | 822.8  | 810.9  | 803.0  | 793.0  | 773.1  | 781.1  | 763.2  | 767.1  | 751.3  |
| 35°   | 767.1  | 747.3  | 721.4  | 721.4  | 713.5  | 705.6  | 691.7  | 699.6  | 681.7  | 673.8  | 657.9  |
| 37.5° | 671.8  | 653.9  | 628.1  | 636.0  | 622.1  | 610.2  | 598.3  | 600.2  | 584.3  | 582.4  | 566.4  |
| 40°   | 568.4  | 558.5  | 540.6  | 540.6  | 530.7  | 530.7  | 524.7  | 518.7  | 508.8  | 496.9  | 479.0  |
| 42.5° | 471.0  | 463.1  | 455.1  | 457.2  | 443.2  | 455.1  | 439.2  | 449.2  | 417.4  | 415.4  | 403.4  |
| 45°   | 399.5  | 381.6  | 383.6  | 375.6  | 367.7  | 371.7  | 357.7  | 361.7  | 343.9  | 339.9  | 328.0  |
| 47.5° | 324.0  | 318.0  | 306.1  | 302.1  | 302.1  | 296.1  | 290.2  | 288.2  | 280.2  | 270.3  | 254.4  |
| 50°   | 266.3  | 244.5  | 240.5  | 234.5  | 230.6  | 230.6  | 222.6  | 210.7  | 212.7  | 202.8  | 186.8  |
| 52.5° | 208.7  | 190.8  | 182.8  | 180.9  | 172.9  | 169.0  | 159.0  | 151.1  | 145.1  | 141.1  | 131.2  |
| 55°   | 161.0  | 145.1  | 135.2  | 135.2  | 123.3  | 123.3  | 109.3  | 103.3  | 95.4   | 87.4   | 81.5   |
| 57.5° | 121.2  | 113.3  | 103.3  | 95.4   | 91.4   | 81.5   | 73.5   | 63.6   | 57.6   | 45.7   | 37.8   |
| 60°   | 91.4   | 83.5   | 73.5   | 67.6   | 63.6   | 53.7   | 43.8   | 35.7   | 21.9   | 17.9   | 15.9   |
| 62.5° | 67.6   | 59.6   | 49.7   | 45.7   | 41.7   | 33.8   | 23.8   | 11.9   | 6.0    | 6.0    | 6.0    |
| 65°   | 49.7   | 39.7   | 31.8   | 27.8   | 23.8   | 17.9   | 7.9    | 4.0    | 2.0    | 2.0    | 2.0    |
| 67.5° | 33.8   | 25.9   | 17.9   | 15.9   | 11.9   | 6.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 70°   | 21.9   | 15.9   | 7.9    | 6.0    | 4.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 72.5° | 13.9   | 7.9    | 4.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 7.9    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 4.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    |
| 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: P#

CATALOG NUMBER: LD4C30D010 EX4C309050 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 | 1657.6 |
| 2.5°  | 1617.8 | 1603.9 | 1611.8 | 1594.0 | 1602.0 | 1615.8 | 1605.9 | 1609.9 |
| 5°    | 1562.2 | 1554.2 | 1544.3 | 1518.5 | 1538.3 | 1554.2 | 1546.3 | 1544.3 |
| 7.5°  | 1502.6 | 1474.7 | 1488.7 | 1480.7 | 1476.7 | 1492.6 | 1474.7 | 1494.6 |
| 10°   | 1440.9 | 1421.1 | 1419.1 | 1405.2 | 1405.2 | 1417.1 | 1419.1 | 1407.1 |
| 12.5° | 1349.5 | 1339.6 | 1339.6 | 1337.6 | 1335.6 | 1347.6 | 1349.5 | 1343.6 |
| 15°   | 1283.9 | 1280.0 | 1270.0 | 1268.1 | 1256.1 | 1274.0 | 1276.0 | 1274.0 |
| 17.5° | 1204.4 | 1206.4 | 1196.5 | 1196.5 | 1204.4 | 1210.4 | 1194.5 | 1210.4 |
| 20°   | 1150.8 | 1140.8 | 1136.9 | 1118.9 | 1128.9 | 1138.9 | 1138.9 | 1140.8 |
| 22.5° | 1073.2 | 1057.4 | 1063.3 | 1053.4 | 1047.4 | 1061.3 | 1061.3 | 1067.3 |
| 25°   | 985.8  | 985.8  | 989.8  | 983.8  | 987.8  | 995.8  | 989.8  | 1003.7 |
| 27.5° | 902.3  | 910.3  | 910.3  | 902.3  | 906.3  | 930.1  | 940.1  | 924.2  |
| 30°   | 824.8  | 826.8  | 832.8  | 828.8  | 840.7  | 848.7  | 846.6  | 858.6  |
| 32.5° | 737.4  | 747.3  | 751.3  | 745.3  | 749.3  | 767.1  | 757.3  | 755.2  |
| 35°   | 669.8  | 651.9  | 650.0  | 651.9  | 659.8  | 663.8  | 659.8  | 673.8  |
| 37.5° | 572.4  | 566.4  | 558.5  | 560.5  | 566.4  | 574.4  | 578.4  | 588.3  |
| 40°   | 479.0  | 471.0  | 471.0  | 469.1  | 463.1  | 485.0  | 485.0  | 485.0  |
| 42.5° | 397.5  | 395.5  | 385.6  | 385.6  | 393.5  | 399.5  | 395.5  | 409.4  |
| 45°   | 326.0  | 318.0  | 312.0  | 312.0  | 318.0  | 318.0  | 324.0  | 322.0  |
| 47.5° | 256.4  | 248.5  | 250.4  | 244.5  | 250.4  | 258.4  | 248.5  | 250.4  |
| 50°   | 192.8  | 192.8  | 188.8  | 192.8  | 190.8  | 192.8  | 188.8  | 184.9  |
| 52.5° | 131.2  | 149.0  | 151.1  | 143.1  | 125.2  | 109.3  | 99.4   | 107.3  |
| 55°   | 75.5   | 67.6   | 67.6   | 65.6   | 61.6   | 59.6   | 53.7   | 59.6   |
| 57.5° | 37.8   | 33.8   | 33.8   | 33.8   | 31.8   | 29.8   | 25.9   | 25.9   |
| 60°   | 15.9   | 13.9   | 13.9   | 11.9   | 10.0   | 7.9    | 6.0    | 7.9    |
| 62.5° | 6.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 65°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 67.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 70°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)