

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: **LD4C40D010 EX4C409027 4LBSQLWWH**

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: LD4C40D010 EX4C409027 4LBSQLWWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

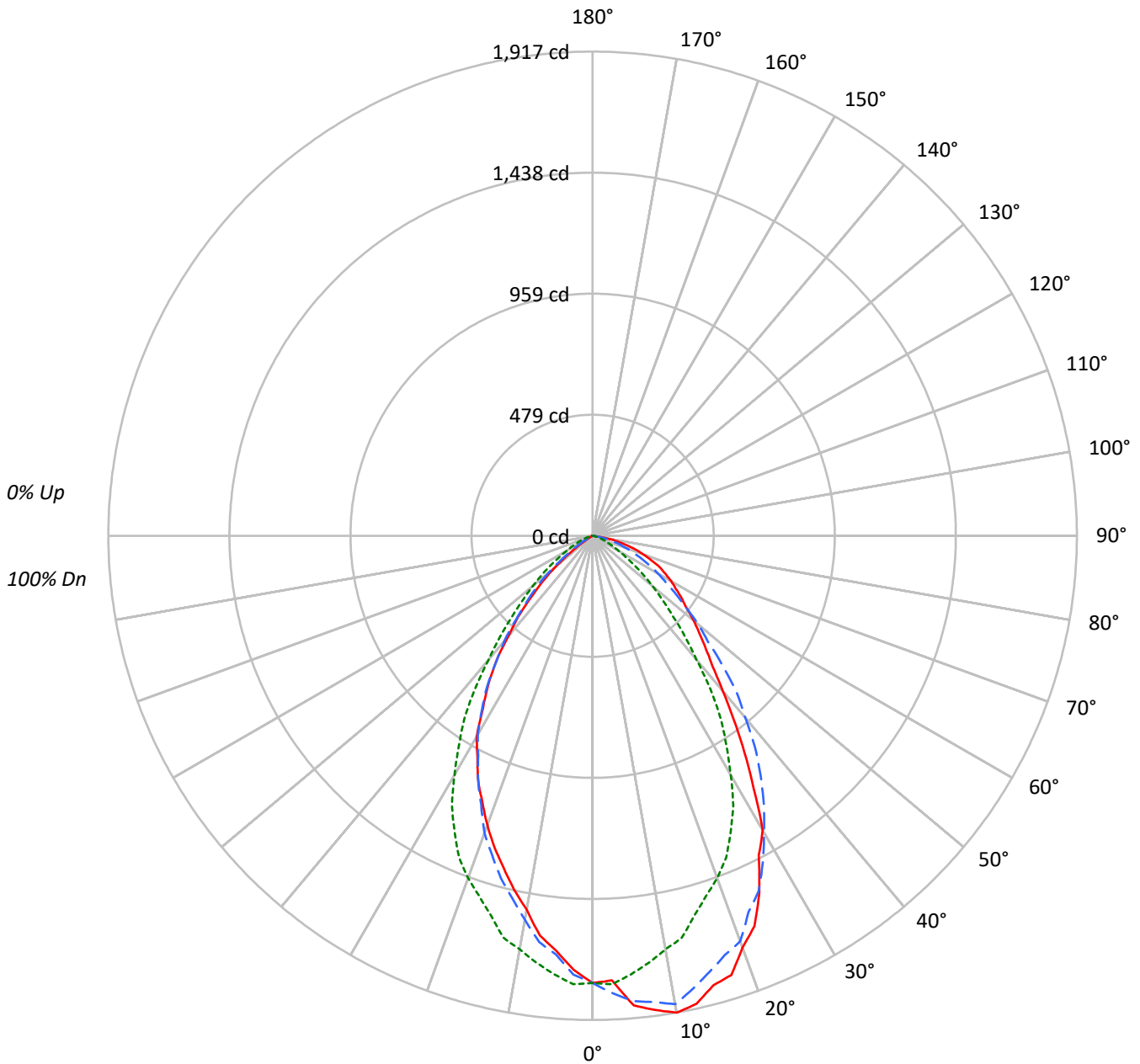
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2538.0 lumens
Efficiency: N/A
Efficacy: 54.0 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): 47
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C40D010 EX4C409027 4LBSQLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C40D010 EX4C409027 4LBSQLWWH

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° | 170843 | 170843 | 170843 |
| 5° | 180746 | 168823 | 159776 |
| 10° | 187832 | 162878 | 147270 |
| 15° | 184082 | 155443 | 135934 |
| 20° | 178111 | 148015 | 125127 |
| 25° | 166137 | 137647 | 114140 |
| 30° | 149966 | 121811 | 102191 |
| 35° | 123539 | 104281 | 84774 |
| 40° | 100816 | 80487 | 65246 |
| 45° | 86622 | 61132 | 46927 |
| 50° | 78402 | 46534 | 29647 |
| 55° | 72151 | 33561 | 10716 |
| 60° | 69240 | 22945 | 1640 |
| 65° | 66873 | 15525 | 502 |
| 70° | 59893 | 10777 | 621 |
| 75° | 49098 | 5555 | 0 |
| 80° | 30672 | 2334 | 0 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: LD4C40D010 EX4C409027 4LBSQLWWH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.9 | 6.5 |
| 10°-20° | 446.9 | 17.6 |
| 20°-30° | 596.8 | 23.5 |
| 30°-40° | 566.5 | 22.3 |
| 40°-50° | 391.6 | 15.4 |
| 50°-60° | 216.4 | 8.5 |
| 60°-70° | 107.5 | 4.2 |
| 70°-80° | 42.3 | 1.7 |
| 80°-90° | 4.0 | 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° | 1209.6 | 47.7 |
| 0°-40° | 1776.2 | 70.0 |
| 0°-60° | 2384.2 | 93.9 |
| 0°-90° | 2538.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2538.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1771 | 1771 | 1771 | 1771 | 1771 | |
| 5° | 1866 | 1849 | 1743 | 1664 | 1650 | 179 |
| 15° | 1843 | 1788 | 1556 | 1403 | 1361 | 521 |
| 25° | 1560 | 1554 | 1293 | 1072 | 1072 | 711 |
| 35° | 1049 | 1159 | 885 | 728 | 720 | 657 |
| 45° | 635 | 728 | 448 | 367 | 344 | 495 |
| 55° | 429 | 403 | 200 | 102 | 64 | 386 |
| 65° | 293 | 212 | 68 | 2 | 2 | 284 |
| 75° | 132 | 81 | 15 | 0 | 0 | 140 |
| 85° | 0 | 2 | 0 | 0 | 0 | 12 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C40D010 EX4C409027 4LBSQLWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5° | 1762.1 | 1810.9 | 1815.1 | 1810.9 | 1817.3 | 1815.1 | 1825.8 | 1815.1 | 1828.0 | 1808.8 | 1813.1 |
| 5° | 1866.1 | 1847.0 | 1887.3 | 1866.1 | 1866.1 | 1864.1 | 1857.7 | 1855.5 | 1864.1 | 1836.4 | 1849.2 |
| 7.5° | 1893.8 | 1921.4 | 1957.5 | 1912.9 | 1915.0 | 1915.0 | 1902.2 | 1898.0 | 1898.0 | 1847.0 | 1861.9 |
| 10° | 1917.1 | 1900.1 | 1919.2 | 1902.2 | 1917.1 | 1915.0 | 1923.4 | 1895.8 | 1915.0 | 1885.3 | 1883.1 |
| 12.5° | 1898.0 | 1891.6 | 1917.1 | 1889.5 | 1881.0 | 1883.1 | 1872.5 | 1866.1 | 1872.5 | 1838.5 | 1836.4 |
| 15° | 1842.8 | 1849.2 | 1887.3 | 1857.7 | 1853.4 | 1849.2 | 1836.4 | 1815.1 | 1832.2 | 1785.5 | 1787.6 |
| 17.5° | 1823.7 | 1813.1 | 1819.5 | 1793.9 | 1800.3 | 1796.1 | 1793.9 | 1774.9 | 1770.6 | 1740.9 | 1740.9 |
| 20° | 1734.6 | 1757.8 | 1757.8 | 1740.9 | 1740.9 | 1738.8 | 1711.2 | 1728.1 | 1709.0 | 1700.5 | 1709.0 |
| 22.5° | 1672.9 | 1675.1 | 1675.1 | 1660.2 | 1662.4 | 1653.9 | 1639.0 | 1628.3 | 1639.0 | 1628.3 | 1611.4 |
| 25° | 1560.5 | 1564.7 | 1590.2 | 1562.5 | 1558.3 | 1566.8 | 1554.1 | 1547.7 | 1545.6 | 1520.1 | 1554.1 |
| 27.5° | 1424.6 | 1467.0 | 1464.9 | 1454.2 | 1467.0 | 1450.0 | 1443.7 | 1445.8 | 1452.2 | 1450.0 | 1458.5 |
| 30° | 1346.0 | 1352.4 | 1358.8 | 1350.3 | 1352.4 | 1346.0 | 1346.0 | 1348.1 | 1365.1 | 1358.8 | 1356.6 |
| 32.5° | 1186.8 | 1208.0 | 1225.0 | 1225.0 | 1227.1 | 1233.5 | 1231.3 | 1275.9 | 1286.6 | 1265.4 | 1261.1 |
| 35° | 1048.8 | 1063.7 | 1078.5 | 1080.6 | 1108.2 | 1110.3 | 1112.5 | 1125.2 | 1154.9 | 1161.3 | 1159.1 |
| 37.5° | 917.2 | 932.0 | 936.2 | 955.4 | 970.2 | 985.1 | 1002.1 | 1019.1 | 1044.5 | 1065.7 | 1055.2 |
| 40° | 800.4 | 806.7 | 817.4 | 825.9 | 855.5 | 855.5 | 864.0 | 898.1 | 925.7 | 942.6 | 940.5 |
| 42.5° | 702.8 | 704.8 | 713.3 | 728.2 | 755.8 | 749.4 | 755.8 | 779.2 | 819.4 | 821.6 | 845.0 |
| 45° | 634.8 | 632.6 | 639.0 | 641.1 | 658.2 | 666.7 | 670.9 | 687.9 | 721.8 | 726.0 | 728.2 |
| 47.5° | 573.2 | 571.1 | 581.7 | 586.0 | 592.3 | 600.8 | 600.8 | 602.9 | 615.7 | 626.3 | 617.8 |
| 50° | 522.3 | 522.3 | 522.3 | 526.5 | 537.2 | 535.0 | 537.2 | 545.6 | 552.0 | 547.7 | 545.6 |
| 52.5° | 467.0 | 475.5 | 481.9 | 484.1 | 486.2 | 486.2 | 488.3 | 484.1 | 481.9 | 475.5 | 462.8 |
| 55° | 428.9 | 437.3 | 437.3 | 437.3 | 437.3 | 445.8 | 435.3 | 437.3 | 437.3 | 420.4 | 403.4 |
| 57.5° | 390.7 | 399.2 | 405.5 | 397.0 | 405.5 | 397.0 | 392.8 | 390.7 | 386.4 | 369.4 | 343.9 |
| 60° | 358.8 | 363.1 | 360.9 | 358.8 | 363.1 | 356.7 | 352.4 | 343.9 | 339.7 | 316.3 | 299.4 |
| 62.5° | 322.7 | 324.8 | 327.0 | 322.7 | 318.5 | 316.3 | 307.8 | 295.1 | 286.6 | 267.5 | 252.6 |
| 65° | 292.9 | 286.6 | 284.5 | 282.4 | 278.1 | 271.7 | 265.4 | 250.5 | 244.1 | 227.2 | 212.3 |
| 67.5° | 248.4 | 246.3 | 250.5 | 244.1 | 233.6 | 233.6 | 227.2 | 214.4 | 199.5 | 189.0 | 174.1 |
| 70° | 212.3 | 210.2 | 205.9 | 199.5 | 197.5 | 189.0 | 189.0 | 174.1 | 169.8 | 150.7 | 138.0 |
| 72.5° | 174.1 | 174.1 | 167.7 | 161.4 | 155.0 | 150.7 | 148.6 | 138.0 | 131.7 | 121.0 | 110.4 |
| 75° | 131.7 | 131.7 | 129.5 | 123.1 | 118.9 | 114.6 | 112.5 | 104.1 | 97.6 | 87.1 | 80.7 |
| 77.5° | 93.4 | 93.4 | 84.9 | 80.7 | 82.8 | 78.5 | 74.3 | 72.2 | 70.0 | 63.7 | 55.2 |
| 80° | 55.2 | 53.1 | 46.7 | 48.8 | 46.7 | 46.7 | 44.6 | 42.4 | 38.2 | 33.9 | 29.7 |
| 82.5° | 14.9 | 17.0 | 17.0 | 17.0 | 19.1 | 14.9 | 14.9 | 14.9 | 17.0 | 17.0 | 10.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 2.2 |
| 87.5° | 2.2 | 4.2 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 6.4 | 6.4 | 6.4 | 4.2 |
| 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: LD4C40D010 EX4C409027 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5° | 1791.9 | 1789.7 | 1791.9 | 1777.0 | 1810.9 | 1785.5 | 1781.2 | 1777.0 | 1791.9 | 1777.0 | 1755.8 |
| 5° | 1830.0 | 1808.8 | 1802.4 | 1796.1 | 1815.1 | 1785.5 | 1779.1 | 1781.2 | 1770.6 | 1743.0 | 1745.1 |
| 7.5° | 1842.8 | 1823.7 | 1804.6 | 1764.2 | 1781.2 | 1774.9 | 1757.8 | 1745.1 | 1728.1 | 1704.8 | 1700.5 |
| 10° | 1847.0 | 1825.8 | 1798.2 | 1785.5 | 1760.0 | 1751.5 | 1745.1 | 1723.9 | 1702.7 | 1662.4 | 1651.7 |
| 12.5° | 1834.3 | 1808.8 | 1774.9 | 1764.2 | 1745.1 | 1717.5 | 1702.7 | 1681.4 | 1662.4 | 1630.5 | 1607.1 |
| 15° | 1779.1 | 1757.8 | 1747.3 | 1711.2 | 1702.7 | 1685.6 | 1656.0 | 1626.3 | 1598.6 | 1556.1 | 1543.4 |
| 17.5° | 1715.4 | 1706.9 | 1696.3 | 1668.7 | 1666.6 | 1649.6 | 1622.0 | 1596.5 | 1560.5 | 1494.6 | 1473.4 |
| 20° | 1649.6 | 1649.6 | 1615.6 | 1605.0 | 1626.3 | 1592.2 | 1571.0 | 1547.7 | 1473.4 | 1441.5 | 1403.3 |
| 22.5° | 1600.8 | 1577.4 | 1558.3 | 1541.3 | 1543.4 | 1522.2 | 1492.5 | 1445.8 | 1418.2 | 1380.0 | 1335.4 |
| 25° | 1505.2 | 1513.7 | 1471.3 | 1464.9 | 1471.3 | 1422.4 | 1407.6 | 1369.3 | 1329.0 | 1292.9 | 1259.0 |
| 27.5° | 1445.8 | 1422.4 | 1394.9 | 1371.5 | 1371.5 | 1352.4 | 1309.9 | 1301.5 | 1239.8 | 1205.9 | 1163.4 |
| 30° | 1356.6 | 1339.6 | 1316.3 | 1282.3 | 1278.1 | 1263.2 | 1229.3 | 1208.0 | 1144.3 | 1093.3 | 1070.0 |
| 32.5° | 1244.1 | 1237.7 | 1218.6 | 1180.4 | 1167.7 | 1150.7 | 1108.2 | 1072.1 | 1042.4 | 985.1 | 957.5 |
| 35° | 1163.4 | 1140.1 | 1099.8 | 1067.9 | 1057.2 | 1027.6 | 993.5 | 968.1 | 936.2 | 885.3 | 849.2 |
| 37.5° | 1042.4 | 1019.1 | 980.8 | 942.6 | 942.6 | 912.9 | 866.2 | 840.7 | 796.2 | 766.4 | 736.7 |
| 40° | 936.2 | 906.5 | 868.4 | 823.8 | 817.4 | 774.9 | 755.8 | 713.3 | 685.7 | 639.0 | 634.8 |
| 42.5° | 817.4 | 789.8 | 755.8 | 721.8 | 696.3 | 675.1 | 626.3 | 594.5 | 564.8 | 541.4 | 535.0 |
| 45° | 709.1 | 673.0 | 643.3 | 600.8 | 575.3 | 549.9 | 518.0 | 496.8 | 473.4 | 448.0 | 433.1 |
| 47.5° | 615.7 | 586.0 | 543.5 | 505.3 | 479.8 | 467.0 | 430.9 | 407.6 | 388.5 | 371.5 | 360.9 |
| 50° | 520.2 | 484.1 | 460.7 | 418.2 | 414.0 | 384.3 | 354.6 | 335.4 | 324.8 | 310.0 | 295.1 |
| 52.5° | 448.0 | 414.0 | 382.1 | 350.3 | 333.3 | 322.7 | 295.1 | 276.0 | 261.2 | 250.5 | 242.0 |
| 55° | 377.9 | 348.2 | 322.7 | 290.9 | 280.2 | 265.4 | 233.6 | 229.3 | 214.4 | 199.5 | 189.0 |
| 57.5° | 324.8 | 297.2 | 267.5 | 246.3 | 227.2 | 216.6 | 191.1 | 174.1 | 165.6 | 152.9 | 142.2 |
| 60° | 276.0 | 246.3 | 222.9 | 197.5 | 189.0 | 174.1 | 155.0 | 140.2 | 129.5 | 118.9 | 108.3 |
| 62.5° | 231.4 | 205.9 | 180.5 | 159.2 | 146.5 | 138.0 | 123.1 | 110.4 | 99.8 | 91.3 | 82.8 |
| 65° | 191.1 | 167.7 | 146.5 | 125.3 | 118.9 | 108.3 | 97.6 | 87.1 | 78.5 | 68.0 | 59.5 |
| 67.5° | 157.1 | 135.9 | 114.6 | 99.8 | 93.4 | 89.2 | 76.4 | 65.8 | 59.5 | 53.1 | 44.6 |
| 70° | 123.1 | 108.3 | 91.3 | 78.5 | 72.2 | 65.8 | 57.3 | 51.0 | 42.4 | 38.2 | 31.9 |
| 72.5° | 95.6 | 82.8 | 68.0 | 57.3 | 53.1 | 48.8 | 40.3 | 33.9 | 29.7 | 25.5 | 21.2 |
| 75° | 68.0 | 57.3 | 48.8 | 38.2 | 36.1 | 33.9 | 27.6 | 23.4 | 19.1 | 14.9 | 12.7 |
| 77.5° | 46.7 | 38.2 | 29.7 | 25.5 | 23.4 | 19.1 | 17.0 | 12.7 | 10.6 | 8.5 | 6.4 |
| 80° | 25.5 | 19.1 | 14.9 | 12.7 | 10.6 | 8.5 | 8.5 | 6.4 | 4.2 | 4.2 | 2.2 |
| 82.5° | 8.5 | 6.4 | 4.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 0.0 | 2.2 |
| 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° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 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: LD4C40D010 EX4C409027 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5° | 1768.5 | 1745.1 | 1751.5 | 1751.5 | 1747.3 | 1747.3 | 1743.0 | 1736.6 | 1738.8 | 1726.0 | 1698.5 |
| 5° | 1749.4 | 1719.7 | 1715.4 | 1719.7 | 1702.7 | 1698.5 | 1690.0 | 1702.7 | 1664.4 | 1679.3 | 1662.4 |
| 7.5° | 1694.2 | 1666.6 | 1660.2 | 1675.1 | 1653.9 | 1641.1 | 1639.0 | 1656.0 | 1622.0 | 1605.0 | 1585.9 |
| 10° | 1632.6 | 1622.0 | 1602.9 | 1592.2 | 1585.9 | 1588.0 | 1571.0 | 1549.8 | 1543.4 | 1539.2 | 1522.2 |
| 12.5° | 1577.4 | 1554.1 | 1537.1 | 1524.4 | 1520.1 | 1520.1 | 1492.5 | 1488.3 | 1469.1 | 1464.9 | 1439.4 |
| 15° | 1511.6 | 1484.0 | 1473.4 | 1456.4 | 1441.5 | 1450.0 | 1418.2 | 1409.7 | 1403.3 | 1375.7 | 1380.0 |
| 17.5° | 1454.2 | 1424.6 | 1399.1 | 1388.5 | 1375.7 | 1363.0 | 1333.2 | 1339.6 | 1324.7 | 1324.7 | 1286.6 |
| 20° | 1380.0 | 1348.1 | 1329.0 | 1307.8 | 1307.8 | 1290.8 | 1269.6 | 1271.7 | 1252.5 | 1233.5 | 1199.5 |
| 22.5° | 1301.5 | 1267.4 | 1244.1 | 1235.6 | 1214.4 | 1210.1 | 1184.7 | 1178.3 | 1152.8 | 1154.9 | 1125.2 |
| 25° | 1218.6 | 1184.7 | 1152.8 | 1154.9 | 1135.9 | 1127.4 | 1112.5 | 1082.8 | 1072.1 | 1059.4 | 1050.9 |
| 27.5° | 1121.0 | 1097.6 | 1070.0 | 1067.9 | 1031.8 | 1033.9 | 1014.8 | 1006.3 | 980.8 | 987.2 | 968.1 |
| 30° | 1031.8 | 997.9 | 972.3 | 966.0 | 951.1 | 946.9 | 917.2 | 904.4 | 908.7 | 891.6 | 881.1 |
| 32.5° | 940.5 | 889.6 | 878.9 | 866.2 | 857.7 | 847.1 | 825.9 | 834.3 | 815.2 | 819.4 | 802.5 |
| 35° | 819.4 | 798.2 | 770.6 | 770.6 | 762.1 | 753.7 | 738.9 | 747.3 | 728.2 | 719.7 | 702.8 |
| 37.5° | 717.6 | 698.5 | 670.9 | 679.4 | 664.5 | 651.8 | 639.0 | 641.1 | 624.2 | 622.1 | 605.0 |
| 40° | 607.2 | 596.5 | 577.5 | 577.5 | 566.8 | 566.8 | 560.4 | 554.1 | 543.5 | 530.7 | 511.6 |
| 42.5° | 503.1 | 494.6 | 486.2 | 488.3 | 473.4 | 486.2 | 469.2 | 479.8 | 445.8 | 443.7 | 430.9 |
| 45° | 426.7 | 407.6 | 409.7 | 401.2 | 392.8 | 397.0 | 382.1 | 386.4 | 367.3 | 363.1 | 350.3 |
| 47.5° | 346.1 | 339.7 | 327.0 | 322.7 | 322.7 | 316.3 | 310.0 | 307.8 | 299.4 | 288.7 | 271.7 |
| 50° | 284.5 | 261.2 | 256.8 | 250.5 | 246.3 | 246.3 | 237.8 | 225.1 | 227.2 | 216.6 | 199.5 |
| 52.5° | 222.9 | 203.8 | 195.3 | 193.2 | 184.7 | 180.5 | 169.8 | 161.4 | 155.0 | 150.7 | 140.2 |
| 55° | 171.9 | 155.0 | 144.4 | 144.4 | 131.7 | 131.7 | 116.8 | 110.4 | 101.9 | 93.4 | 87.1 |
| 57.5° | 129.5 | 121.0 | 110.4 | 101.9 | 97.6 | 87.1 | 78.5 | 68.0 | 61.6 | 48.8 | 40.3 |
| 60° | 97.6 | 89.2 | 78.5 | 72.2 | 68.0 | 57.3 | 46.7 | 38.2 | 23.4 | 19.1 | 17.0 |
| 62.5° | 72.2 | 63.7 | 53.1 | 48.8 | 44.6 | 36.1 | 25.5 | 12.7 | 6.4 | 6.4 | 6.4 |
| 65° | 53.1 | 42.4 | 33.9 | 29.7 | 25.5 | 19.1 | 8.5 | 4.2 | 2.2 | 2.2 | 2.2 |
| 67.5° | 36.1 | 27.6 | 19.1 | 17.0 | 12.7 | 6.4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 70° | 23.4 | 17.0 | 8.5 | 6.4 | 4.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 72.5° | 14.9 | 8.5 | 4.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 8.5 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 2.2 | 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 | 2.2 | 2.2 | 2.2 |
| 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: LD4C40D010 EX4C409027 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5° | 1728.1 | 1713.3 | 1721.7 | 1702.7 | 1711.2 | 1726.0 | 1715.4 | 1719.7 |
| 5° | 1668.7 | 1660.2 | 1649.6 | 1622.0 | 1643.2 | 1660.2 | 1651.7 | 1649.6 |
| 7.5° | 1605.0 | 1575.3 | 1590.2 | 1581.7 | 1577.4 | 1594.4 | 1575.3 | 1596.5 |
| 10° | 1539.2 | 1518.0 | 1515.9 | 1501.0 | 1501.0 | 1513.7 | 1515.9 | 1503.1 |
| 12.5° | 1441.5 | 1431.0 | 1431.0 | 1428.8 | 1426.6 | 1439.4 | 1441.5 | 1435.2 |
| 15° | 1371.5 | 1367.2 | 1356.6 | 1354.5 | 1341.8 | 1360.8 | 1363.0 | 1360.8 |
| 17.5° | 1286.6 | 1288.6 | 1278.1 | 1278.1 | 1286.6 | 1292.9 | 1275.9 | 1292.9 |
| 20° | 1229.3 | 1218.6 | 1214.4 | 1195.2 | 1205.9 | 1216.5 | 1216.5 | 1218.6 |
| 22.5° | 1146.4 | 1129.4 | 1135.9 | 1125.2 | 1118.8 | 1133.7 | 1133.7 | 1140.1 |
| 25° | 1053.0 | 1053.0 | 1057.2 | 1050.9 | 1055.2 | 1063.7 | 1057.2 | 1072.1 |
| 27.5° | 963.8 | 972.3 | 972.3 | 963.8 | 968.1 | 993.5 | 1004.2 | 987.2 |
| 30° | 881.1 | 883.2 | 889.6 | 885.3 | 898.1 | 906.5 | 904.4 | 917.2 |
| 32.5° | 787.7 | 798.2 | 802.5 | 796.2 | 800.4 | 819.4 | 808.9 | 806.7 |
| 35° | 715.5 | 696.3 | 694.3 | 696.3 | 704.8 | 709.1 | 704.8 | 719.7 |
| 37.5° | 611.4 | 605.0 | 596.5 | 598.7 | 605.0 | 613.6 | 617.8 | 628.4 |
| 40° | 511.6 | 503.1 | 503.1 | 501.1 | 494.6 | 518.0 | 518.0 | 518.0 |
| 42.5° | 424.6 | 422.5 | 411.9 | 411.9 | 420.4 | 426.7 | 422.5 | 437.3 |
| 45° | 348.2 | 339.7 | 333.3 | 333.3 | 339.7 | 339.7 | 346.1 | 343.9 |
| 47.5° | 273.9 | 265.4 | 267.5 | 261.2 | 267.5 | 276.0 | 265.4 | 267.5 |
| 50° | 205.9 | 205.9 | 201.7 | 205.9 | 203.8 | 205.9 | 201.7 | 197.5 |
| 52.5° | 140.2 | 159.2 | 161.4 | 152.9 | 133.7 | 116.8 | 106.1 | 114.6 |
| 55° | 80.7 | 72.2 | 72.2 | 70.0 | 65.8 | 63.7 | 57.3 | 63.7 |
| 57.5° | 40.3 | 36.1 | 36.1 | 36.1 | 33.9 | 31.9 | 27.6 | 27.6 |
| 60° | 17.0 | 14.9 | 14.9 | 12.7 | 10.6 | 8.5 | 6.4 | 8.5 |
| 62.5° | 6.4 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 65° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 67.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 70° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 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)