

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: P246034

Luminaire Tested: **LD8B40D010 ER8B40827 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40827 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

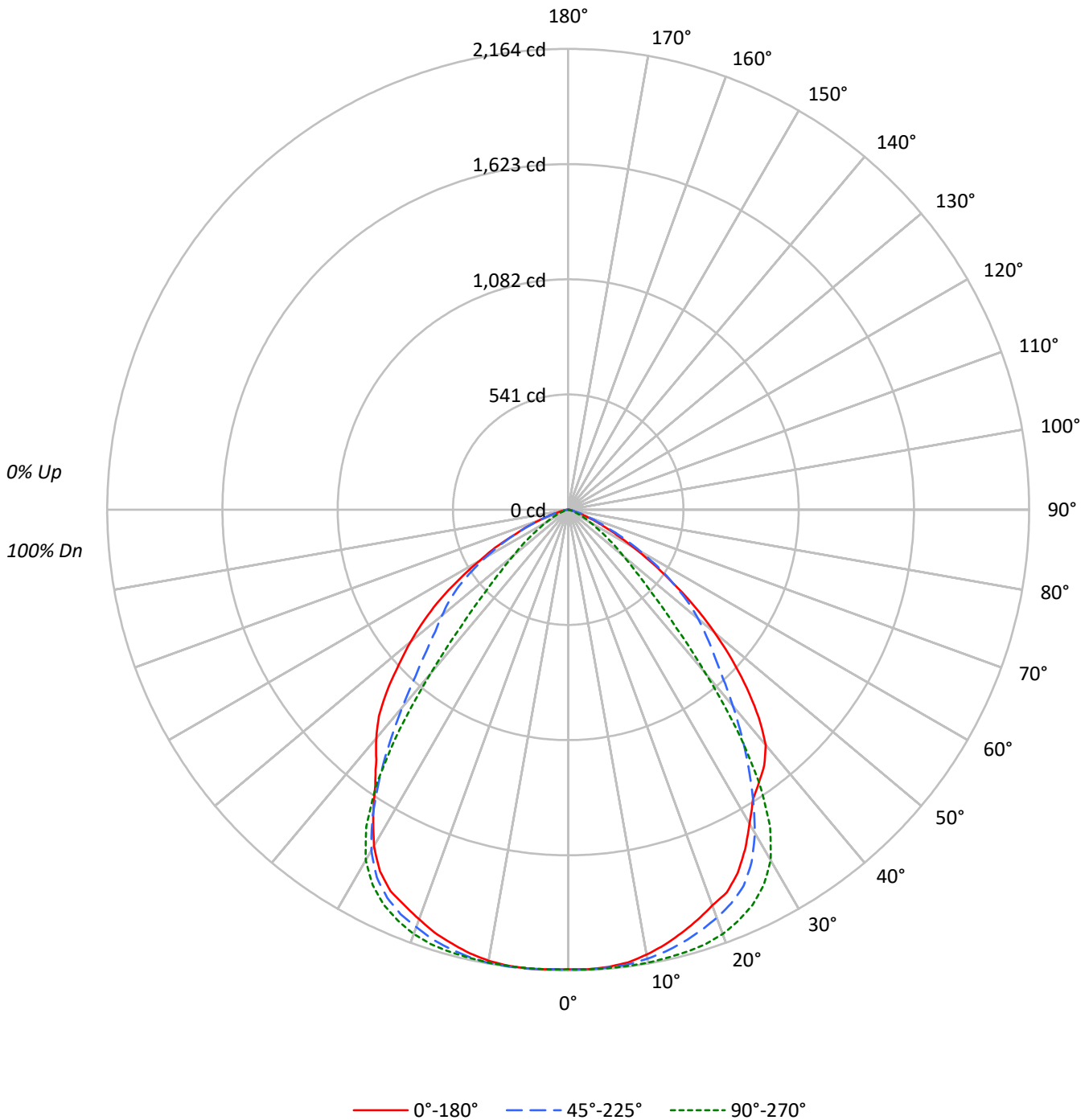
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246034

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P246034

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0GPH

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 | 91 | 90 | | | | | 90 | | | |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | 62 | | | |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | | | | 55 | | | |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 | | | | | 50 | | | |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 66560 | 66560 | 66560 |
| 5° | 66706 | 66886 | 66957 |
| 10° | 66425 | 67625 | 67333 |
| 15° | 65690 | 68611 | 67318 |
| 20° | 64902 | 69575 | 67143 |
| 25° | 64057 | 69658 | 67211 |
| 30° | 60603 | 67699 | 64936 |
| 35° | 58793 | 58838 | 59448 |
| 40° | 58066 | 40483 | 56432 |
| 45° | 51738 | 24303 | 52444 |
| 50° | 43022 | 16176 | 46356 |
| 55° | 32268 | 11150 | 39305 |
| 60° | 21863 | 7432 | 29652 |
| 65° | 13192 | 4823 | 20372 |
| 70° | 7312 | 2615 | 12532 |
| 75° | 3312 | 1108 | 6493 |
| 80° | 2877 | 1225 | 4528 |
| 85° | 3290 | 1628 | 4529 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 206.0 | 5.0 |
| 10°-20° | 598.2 | 14.6 |
| 20°-30° | 908.0 | 22.2 |
| 30°-40° | 953.7 | 23.3 |
| 40°-50° | 715.0 | 17.5 |
| 50°-60° | 458.8 | 11.2 |
| 60°-70° | 196.3 | 4.8 |
| 70°-80° | 46.4 | 1.1 |
| 80°-90° | 8.6 | 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° | 1712.3 | 41.9 |
| 0°-40° | 2666.0 | 65.2 |
| 0°-60° | 3839.8 | 93.9 |
| 0°-90° | 4091.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4091.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2158 | 2158 | 2158 | 2158 | 2158 | |
| 5° | 2155 | 2158 | 2161 | 2164 | 2163 | 205 |
| 15° | 2058 | 2101 | 2149 | 2135 | 2109 | 580 |
| 25° | 1883 | 1949 | 2047 | 2010 | 1975 | 860 |
| 35° | 1562 | 1475 | 1563 | 1544 | 1579 | 980 |
| 45° | 1186 | 970 | 557 | 942 | 1203 | 909 |
| 55° | 600 | 600 | 207 | 626 | 731 | 544 |
| 65° | 181 | 213 | 66 | 275 | 279 | 193 |
| 75° | 28 | 32 | 9 | 56 | 54 | 41 |
| 85° | 9 | 6 | 5 | 9 | 13 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P246034

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 |
| 2.5° | 2159.7 | 2162.0 | 2160.8 | 2160.8 | 2159.7 | 2160.8 | 2160.8 | 2163.1 | 2163.1 | 2160.8 | 2159.7 |
| 5° | 2155.0 | 2157.3 | 2157.3 | 2155.0 | 2155.0 | 2160.8 | 2157.3 | 2159.7 | 2159.7 | 2158.5 | 2158.5 |
| 7.5° | 2144.6 | 2144.6 | 2149.2 | 2145.8 | 2145.8 | 2149.2 | 2148.1 | 2150.4 | 2152.7 | 2153.9 | 2153.9 |
| 10° | 2121.4 | 2123.7 | 2124.9 | 2124.9 | 2126.1 | 2129.5 | 2131.8 | 2136.5 | 2138.8 | 2141.1 | 2142.3 |
| 12.5° | 2092.5 | 2095.9 | 2097.1 | 2095.9 | 2099.4 | 2104.0 | 2109.8 | 2115.6 | 2119.1 | 2123.7 | 2127.2 |
| 15° | 2057.7 | 2057.7 | 2060.0 | 2063.5 | 2065.8 | 2072.8 | 2078.5 | 2085.5 | 2094.8 | 2100.6 | 2106.4 |
| 17.5° | 2019.5 | 2021.8 | 2025.3 | 2025.3 | 2029.9 | 2041.5 | 2045.0 | 2055.4 | 2065.8 | 2071.6 | 2083.2 |
| 20° | 1977.8 | 1980.1 | 1983.5 | 1985.9 | 1991.7 | 2000.9 | 2007.9 | 2017.1 | 2028.7 | 2039.2 | 2050.7 |
| 22.5° | 1945.3 | 1940.7 | 1943.0 | 1945.3 | 1951.1 | 1959.2 | 1967.3 | 1978.9 | 1990.5 | 2000.9 | 2012.5 |
| 25° | 1882.7 | 1883.9 | 1887.4 | 1889.7 | 1896.7 | 1903.6 | 1912.9 | 1926.8 | 1937.2 | 1948.8 | 1961.5 |
| 27.5° | 1798.2 | 1799.3 | 1805.1 | 1805.1 | 1810.9 | 1822.5 | 1828.3 | 1839.9 | 1853.8 | 1865.4 | 1880.4 |
| 30° | 1702.0 | 1704.3 | 1704.3 | 1709.0 | 1712.4 | 1718.2 | 1724.0 | 1735.6 | 1742.6 | 1753.0 | 1773.8 |
| 32.5° | 1614.0 | 1616.3 | 1615.1 | 1614.0 | 1610.5 | 1609.3 | 1608.1 | 1610.5 | 1612.8 | 1616.3 | 1624.4 |
| 35° | 1561.8 | 1556.0 | 1551.4 | 1543.3 | 1534.0 | 1522.4 | 1512.0 | 1498.1 | 1485.3 | 1474.9 | 1463.3 |
| 37.5° | 1512.0 | 1510.8 | 1503.9 | 1492.3 | 1473.7 | 1452.9 | 1428.6 | 1398.4 | 1368.3 | 1335.9 | 1304.6 |
| 40° | 1442.5 | 1439.0 | 1433.2 | 1417.0 | 1396.1 | 1370.6 | 1338.2 | 1301.1 | 1252.4 | 1202.6 | 1151.7 |
| 42.5° | 1324.3 | 1325.4 | 1318.5 | 1305.7 | 1286.1 | 1261.7 | 1228.1 | 1187.6 | 1135.4 | 1076.3 | 1010.3 |
| 45° | 1186.4 | 1186.4 | 1184.1 | 1173.7 | 1159.8 | 1140.1 | 1114.6 | 1081.0 | 1030.0 | 969.7 | 899.1 |
| 47.5° | 1042.7 | 1043.9 | 1040.4 | 1038.1 | 1032.3 | 1019.6 | 1001.0 | 975.6 | 939.6 | 881.7 | 811.0 |
| 50° | 896.8 | 896.8 | 902.6 | 901.4 | 901.4 | 896.8 | 888.7 | 873.6 | 842.3 | 796.0 | 729.9 |
| 52.5° | 750.8 | 753.1 | 756.6 | 761.2 | 767.0 | 776.3 | 767.0 | 760.0 | 740.3 | 704.4 | 647.7 |
| 55° | 600.2 | 602.5 | 608.3 | 616.4 | 623.3 | 632.6 | 634.9 | 634.9 | 624.5 | 600.2 | 557.3 |
| 57.5° | 471.6 | 468.1 | 472.7 | 479.7 | 488.9 | 498.2 | 505.2 | 513.3 | 512.1 | 495.9 | 461.1 |
| 60° | 354.5 | 355.7 | 359.2 | 366.1 | 373.1 | 381.2 | 390.5 | 397.4 | 400.9 | 392.8 | 370.8 |
| 62.5° | 258.4 | 258.4 | 263.0 | 269.9 | 273.4 | 285.0 | 290.8 | 294.3 | 297.8 | 296.6 | 282.7 |
| 65° | 180.8 | 183.1 | 185.4 | 188.9 | 192.3 | 199.3 | 202.8 | 209.7 | 212.0 | 213.2 | 202.8 |
| 67.5° | 127.5 | 124.0 | 126.3 | 128.6 | 132.1 | 136.7 | 143.7 | 143.7 | 147.1 | 147.1 | 140.2 |
| 70° | 81.1 | 81.1 | 82.3 | 85.7 | 88.1 | 89.2 | 91.5 | 93.8 | 97.3 | 96.2 | 96.2 |
| 72.5° | 54.5 | 53.3 | 54.5 | 55.6 | 56.8 | 60.2 | 60.2 | 61.4 | 63.7 | 64.9 | 60.2 |
| 75° | 27.8 | 29.0 | 31.3 | 30.1 | 33.6 | 31.3 | 32.4 | 35.9 | 34.8 | 32.4 | 32.4 |
| 77.5° | 23.2 | 23.2 | 23.2 | 22.0 | 24.3 | 24.3 | 23.2 | 25.5 | 24.3 | 24.3 | 23.2 |
| 80° | 16.2 | 17.4 | 16.2 | 15.1 | 16.2 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 13.9 |
| 82.5° | 12.8 | 10.4 | 11.6 | 10.4 | 11.6 | 11.6 | 10.4 | 9.3 | 9.3 | 10.4 | 9.3 |
| 85° | 9.3 | 6.9 | 8.1 | 8.1 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 5.8 | 5.8 |
| 87.5° | 5.8 | 3.5 | 3.5 | 3.5 | 4.6 | 4.6 | 4.6 | 3.5 | 4.6 | 4.6 | 2.3 |
| 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: P246034

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 |
| 2.5° | 2162.0 | 2160.8 | 2163.1 | 2162.0 | 2162.0 | 2160.8 | 2162.0 | 2160.8 | 2163.1 | 2158.5 | 2159.7 |
| 5° | 2162.0 | 2159.7 | 2160.8 | 2162.0 | 2163.1 | 2160.8 | 2160.8 | 2160.8 | 2163.1 | 2160.8 | 2162.0 |
| 7.5° | 2157.3 | 2156.2 | 2159.7 | 2162.0 | 2160.8 | 2159.7 | 2162.0 | 2160.8 | 2163.1 | 2162.0 | 2164.3 |
| 10° | 2148.1 | 2149.2 | 2151.5 | 2155.0 | 2156.2 | 2157.3 | 2159.7 | 2159.7 | 2163.1 | 2158.5 | 2160.8 |
| 12.5° | 2134.2 | 2138.8 | 2144.6 | 2146.9 | 2151.5 | 2151.5 | 2153.9 | 2155.0 | 2157.3 | 2156.2 | 2159.7 |
| 15° | 2116.8 | 2122.6 | 2129.5 | 2135.3 | 2141.1 | 2144.6 | 2148.1 | 2149.2 | 2152.7 | 2149.2 | 2150.4 |
| 17.5° | 2095.9 | 2102.9 | 2113.3 | 2120.2 | 2129.5 | 2133.0 | 2137.6 | 2140.0 | 2143.4 | 2141.1 | 2142.3 |
| 20° | 2067.0 | 2075.1 | 2086.7 | 2097.1 | 2102.9 | 2111.0 | 2116.8 | 2120.2 | 2122.6 | 2120.2 | 2121.4 |
| 22.5° | 2026.4 | 2038.0 | 2053.1 | 2061.2 | 2072.8 | 2079.7 | 2080.9 | 2089.0 | 2094.8 | 2089.0 | 2091.3 |
| 25° | 1978.9 | 1990.5 | 2002.1 | 2019.5 | 2029.9 | 2038.0 | 2046.1 | 2047.3 | 2053.1 | 2051.9 | 2050.7 |
| 27.5° | 1900.1 | 1915.2 | 1934.9 | 1948.8 | 1962.7 | 1975.4 | 1984.7 | 1987.0 | 1992.8 | 1990.5 | 1991.7 |
| 30° | 1792.4 | 1808.6 | 1827.1 | 1849.1 | 1868.8 | 1881.6 | 1893.2 | 1901.3 | 1907.1 | 1903.6 | 1902.4 |
| 32.5° | 1639.4 | 1655.7 | 1675.4 | 1697.4 | 1720.6 | 1739.1 | 1753.0 | 1763.4 | 1770.4 | 1768.0 | 1762.3 |
| 35° | 1464.5 | 1469.1 | 1481.9 | 1499.3 | 1518.9 | 1538.6 | 1551.4 | 1563.0 | 1571.1 | 1573.4 | 1573.4 |
| 37.5° | 1284.9 | 1269.9 | 1260.6 | 1260.6 | 1272.1 | 1280.3 | 1291.9 | 1298.8 | 1311.6 | 1316.2 | 1319.7 |
| 40° | 1111.1 | 1076.3 | 1043.9 | 1019.6 | 1003.4 | 1002.2 | 1002.2 | 1005.7 | 1017.3 | 1032.3 | 1046.2 |
| 42.5° | 955.9 | 900.2 | 850.4 | 805.2 | 772.8 | 754.3 | 746.2 | 747.3 | 756.6 | 770.5 | 793.6 |
| 45° | 831.9 | 762.4 | 699.8 | 645.3 | 601.3 | 572.3 | 558.5 | 557.3 | 564.2 | 580.5 | 606.0 |
| 47.5° | 735.7 | 661.6 | 590.9 | 528.3 | 480.8 | 449.5 | 433.3 | 428.7 | 433.3 | 448.4 | 478.5 |
| 50° | 655.8 | 579.3 | 506.3 | 441.4 | 390.5 | 358.0 | 342.9 | 337.2 | 342.9 | 355.7 | 385.8 |
| 52.5° | 581.6 | 502.8 | 434.5 | 371.9 | 317.5 | 289.6 | 273.4 | 269.9 | 273.4 | 288.5 | 312.8 |
| 55° | 495.9 | 428.7 | 361.5 | 298.9 | 251.4 | 223.6 | 210.9 | 207.4 | 210.9 | 224.8 | 250.3 |
| 57.5° | 411.3 | 353.4 | 294.3 | 237.5 | 197.0 | 172.6 | 161.1 | 156.4 | 164.5 | 173.8 | 203.9 |
| 60° | 332.5 | 286.2 | 236.3 | 186.5 | 152.9 | 130.9 | 121.6 | 120.5 | 122.8 | 134.4 | 155.2 |
| 62.5° | 260.7 | 222.5 | 183.1 | 142.5 | 114.7 | 105.4 | 93.8 | 92.7 | 95.0 | 101.9 | 118.2 |
| 65° | 187.7 | 163.4 | 133.2 | 104.3 | 82.3 | 69.5 | 64.9 | 66.1 | 68.4 | 73.0 | 88.1 |
| 67.5° | 130.9 | 113.5 | 92.7 | 73.0 | 56.8 | 51.0 | 46.4 | 45.2 | 46.4 | 54.5 | 62.6 |
| 70° | 88.1 | 77.6 | 62.6 | 55.6 | 39.4 | 31.3 | 32.4 | 29.0 | 33.6 | 33.6 | 40.5 |
| 72.5° | 57.9 | 51.0 | 41.7 | 32.4 | 27.8 | 22.0 | 22.0 | 20.9 | 23.2 | 24.3 | 30.1 |
| 75° | 30.1 | 23.2 | 23.2 | 16.2 | 11.6 | 5.8 | 10.4 | 9.3 | 8.1 | 9.3 | 11.6 |
| 77.5° | 20.9 | 17.4 | 16.2 | 12.8 | 11.6 | 9.3 | 9.3 | 9.3 | 9.3 | 10.4 | 11.6 |
| 80° | 12.8 | 12.8 | 9.3 | 8.1 | 6.9 | 5.8 | 6.9 | 6.9 | 6.9 | 6.9 | 8.1 |
| 82.5° | 8.1 | 6.9 | 6.9 | 5.8 | 5.8 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 6.9 |
| 85° | 6.9 | 4.6 | 4.6 | 3.5 | 4.6 | 8.1 | 3.5 | 4.6 | 4.6 | 4.6 | 3.5 |
| 87.5° | 2.3 | 3.5 | 3.5 | 3.5 | 2.3 | 1.2 | 2.3 | 3.5 | 3.5 | 5.8 | 4.6 |
| 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: P246034

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 |
| 2.5° | 2162.0 | 2163.1 | 2163.1 | 2162.0 | 2162.0 | 2159.7 | 2164.3 | 2160.8 | 2162.0 | 2166.6 | 2163.1 |
| 5° | 2164.3 | 2165.4 | 2165.4 | 2164.3 | 2164.3 | 2164.3 | 2165.4 | 2165.4 | 2164.3 | 2163.1 | 2165.4 |
| 7.5° | 2168.9 | 2167.8 | 2167.8 | 2165.4 | 2165.4 | 2163.1 | 2165.4 | 2162.0 | 2164.3 | 2162.0 | 2165.4 |
| 10° | 2163.1 | 2164.3 | 2163.1 | 2162.0 | 2162.0 | 2160.8 | 2160.8 | 2157.3 | 2158.5 | 2155.0 | 2157.3 |
| 12.5° | 2159.7 | 2158.5 | 2158.5 | 2156.2 | 2153.9 | 2151.5 | 2150.4 | 2146.9 | 2146.9 | 2138.8 | 2142.3 |
| 15° | 2150.4 | 2151.5 | 2148.1 | 2143.4 | 2141.1 | 2135.3 | 2133.0 | 2128.4 | 2123.7 | 2118.0 | 2119.1 |
| 17.5° | 2142.3 | 2138.8 | 2134.2 | 2129.5 | 2120.2 | 2115.6 | 2111.0 | 2104.0 | 2101.7 | 2094.8 | 2092.5 |
| 20° | 2118.0 | 2115.6 | 2109.8 | 2101.7 | 2095.9 | 2085.5 | 2080.9 | 2073.9 | 2068.1 | 2061.2 | 2057.7 |
| 22.5° | 2086.7 | 2084.3 | 2077.4 | 2069.3 | 2060.0 | 2055.4 | 2050.7 | 2038.0 | 2032.2 | 2025.3 | 2024.1 |
| 25° | 2047.3 | 2043.8 | 2036.8 | 2027.6 | 2022.9 | 2010.2 | 2005.5 | 1996.3 | 1994.0 | 1987.0 | 1985.9 |
| 27.5° | 1987.0 | 1982.4 | 1974.3 | 1962.7 | 1954.6 | 1946.5 | 1941.8 | 1934.9 | 1932.6 | 1925.6 | 1924.5 |
| 30° | 1896.7 | 1890.8 | 1874.6 | 1870.0 | 1856.1 | 1848.0 | 1848.0 | 1838.7 | 1839.9 | 1835.3 | 1835.3 |
| 32.5° | 1754.1 | 1744.9 | 1732.1 | 1722.8 | 1713.6 | 1709.0 | 1709.0 | 1705.5 | 1707.8 | 1707.8 | 1710.1 |
| 35° | 1565.3 | 1552.6 | 1545.6 | 1539.8 | 1539.8 | 1544.4 | 1558.3 | 1561.8 | 1568.8 | 1574.6 | 1579.2 |
| 37.5° | 1323.1 | 1322.0 | 1330.1 | 1337.0 | 1354.4 | 1374.1 | 1398.4 | 1419.3 | 1439.0 | 1452.9 | 1466.8 |
| 40° | 1061.3 | 1090.3 | 1113.4 | 1145.9 | 1172.5 | 1210.7 | 1254.8 | 1290.7 | 1324.3 | 1348.6 | 1374.1 |
| 42.5° | 828.4 | 865.5 | 914.2 | 961.6 | 1009.2 | 1061.3 | 1119.2 | 1169.0 | 1213.1 | 1246.7 | 1273.3 |
| 45° | 645.3 | 696.3 | 755.4 | 815.7 | 877.1 | 942.0 | 1002.2 | 1053.2 | 1099.5 | 1134.3 | 1160.9 |
| 47.5° | 520.2 | 575.8 | 643.0 | 709.1 | 778.6 | 846.9 | 914.2 | 958.2 | 996.4 | 1024.2 | 1048.6 |
| 50° | 429.8 | 488.9 | 559.6 | 634.9 | 704.4 | 772.8 | 830.7 | 873.6 | 904.9 | 929.2 | 944.3 |
| 52.5° | 359.2 | 421.7 | 497.0 | 572.3 | 641.9 | 704.4 | 756.6 | 789.0 | 814.5 | 831.9 | 845.8 |
| 55° | 296.6 | 356.9 | 427.5 | 498.2 | 566.6 | 625.6 | 668.5 | 692.9 | 712.5 | 723.0 | 731.1 |
| 57.5° | 242.2 | 297.8 | 362.6 | 427.5 | 486.6 | 535.3 | 568.9 | 593.2 | 602.5 | 610.6 | 609.4 |
| 60° | 190.0 | 242.2 | 301.2 | 356.9 | 407.8 | 447.2 | 471.6 | 485.5 | 492.4 | 495.9 | 493.6 |
| 62.5° | 149.5 | 197.0 | 242.2 | 290.8 | 327.9 | 361.5 | 384.7 | 384.7 | 388.1 | 389.3 | 392.8 |
| 65° | 111.2 | 147.1 | 186.5 | 222.5 | 252.6 | 274.6 | 287.3 | 290.8 | 295.5 | 294.3 | 292.0 |
| 67.5° | 82.3 | 108.9 | 137.9 | 164.5 | 185.4 | 199.3 | 208.5 | 216.7 | 215.5 | 213.2 | 212.0 |
| 70° | 56.8 | 74.2 | 99.6 | 115.9 | 130.9 | 144.8 | 147.1 | 148.3 | 149.5 | 150.6 | 148.3 |
| 72.5° | 39.4 | 52.1 | 66.1 | 79.9 | 89.2 | 95.0 | 100.8 | 101.9 | 101.9 | 101.9 | 100.8 |
| 75° | 19.7 | 26.6 | 39.4 | 45.2 | 53.3 | 55.6 | 60.2 | 60.2 | 63.7 | 59.1 | 57.9 |
| 77.5° | 17.4 | 20.9 | 27.8 | 32.4 | 35.9 | 39.4 | 40.5 | 44.0 | 42.9 | 40.5 | 41.7 |
| 80° | 10.4 | 12.8 | 17.4 | 19.7 | 24.3 | 25.5 | 26.6 | 27.8 | 26.6 | 27.8 | 27.8 |
| 82.5° | 8.1 | 9.3 | 11.6 | 11.6 | 15.1 | 15.1 | 16.2 | 16.2 | 17.4 | 17.4 | 17.4 |
| 85° | 4.6 | 8.1 | 6.9 | 13.9 | 9.3 | 9.3 | 11.6 | 13.9 | 11.6 | 11.6 | 13.9 |
| 87.5° | 4.6 | 4.6 | 3.5 | 4.6 | 4.6 | 4.6 | 5.8 | 6.9 | 6.9 | 8.1 | 6.9 |
| 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: P246034

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2158.5 | 2158.5 | 2158.5 | 2158.5 |
| 2.5° | 2162.0 | 2164.3 | 2160.8 | 2159.7 |
| 5° | 2165.4 | 2165.4 | 2163.1 | 2163.1 |
| 7.5° | 2165.4 | 2165.4 | 2162.0 | 2159.7 |
| 10° | 2156.2 | 2156.2 | 2152.7 | 2150.4 |
| 12.5° | 2138.8 | 2138.8 | 2137.6 | 2134.2 |
| 15° | 2116.8 | 2116.8 | 2112.1 | 2108.7 |
| 17.5° | 2086.7 | 2089.0 | 2083.2 | 2083.2 |
| 20° | 2054.2 | 2053.1 | 2048.4 | 2046.1 |
| 22.5° | 2020.6 | 2018.3 | 2017.1 | 2010.2 |
| 25° | 1984.7 | 1982.4 | 1978.9 | 1975.4 |
| 27.5° | 1923.3 | 1922.1 | 1918.7 | 1914.0 |
| 30° | 1829.4 | 1828.3 | 1823.7 | 1823.7 |
| 32.5° | 1707.8 | 1706.6 | 1702.0 | 1703.2 |
| 35° | 1581.5 | 1586.1 | 1583.8 | 1579.2 |
| 37.5° | 1476.1 | 1479.6 | 1481.9 | 1479.6 |
| 40° | 1388.0 | 1398.4 | 1399.6 | 1401.9 |
| 42.5° | 1294.2 | 1308.1 | 1312.7 | 1315.0 |
| 45° | 1181.8 | 1194.5 | 1205.0 | 1202.6 |
| 47.5° | 1067.1 | 1076.3 | 1085.6 | 1078.7 |
| 50° | 957.0 | 962.8 | 966.3 | 966.3 |
| 52.5° | 852.7 | 852.7 | 851.6 | 852.7 |
| 55° | 733.4 | 733.4 | 728.8 | 731.1 |
| 57.5° | 608.3 | 610.6 | 607.1 | 601.3 |
| 60° | 492.4 | 486.6 | 484.3 | 480.8 |
| 62.5° | 383.5 | 383.5 | 375.4 | 385.8 |
| 65° | 287.3 | 283.9 | 280.4 | 279.2 |
| 67.5° | 208.5 | 207.4 | 203.9 | 202.8 |
| 70° | 147.1 | 142.5 | 141.3 | 139.0 |
| 72.5° | 98.5 | 98.5 | 96.2 | 96.2 |
| 75° | 60.2 | 54.5 | 53.3 | 54.5 |
| 77.5° | 41.7 | 40.5 | 40.5 | 39.4 |
| 80° | 27.8 | 26.6 | 29.0 | 25.5 |
| 82.5° | 17.4 | 18.5 | 17.4 | 18.5 |
| 85° | 11.6 | 13.9 | 12.8 | 12.8 |
| 87.5° | 6.9 | 6.9 | 6.9 | 6.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)