

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: P244594

Luminaire Tested: **LD8B40D010 ER8B40827 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244594
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 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4185.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

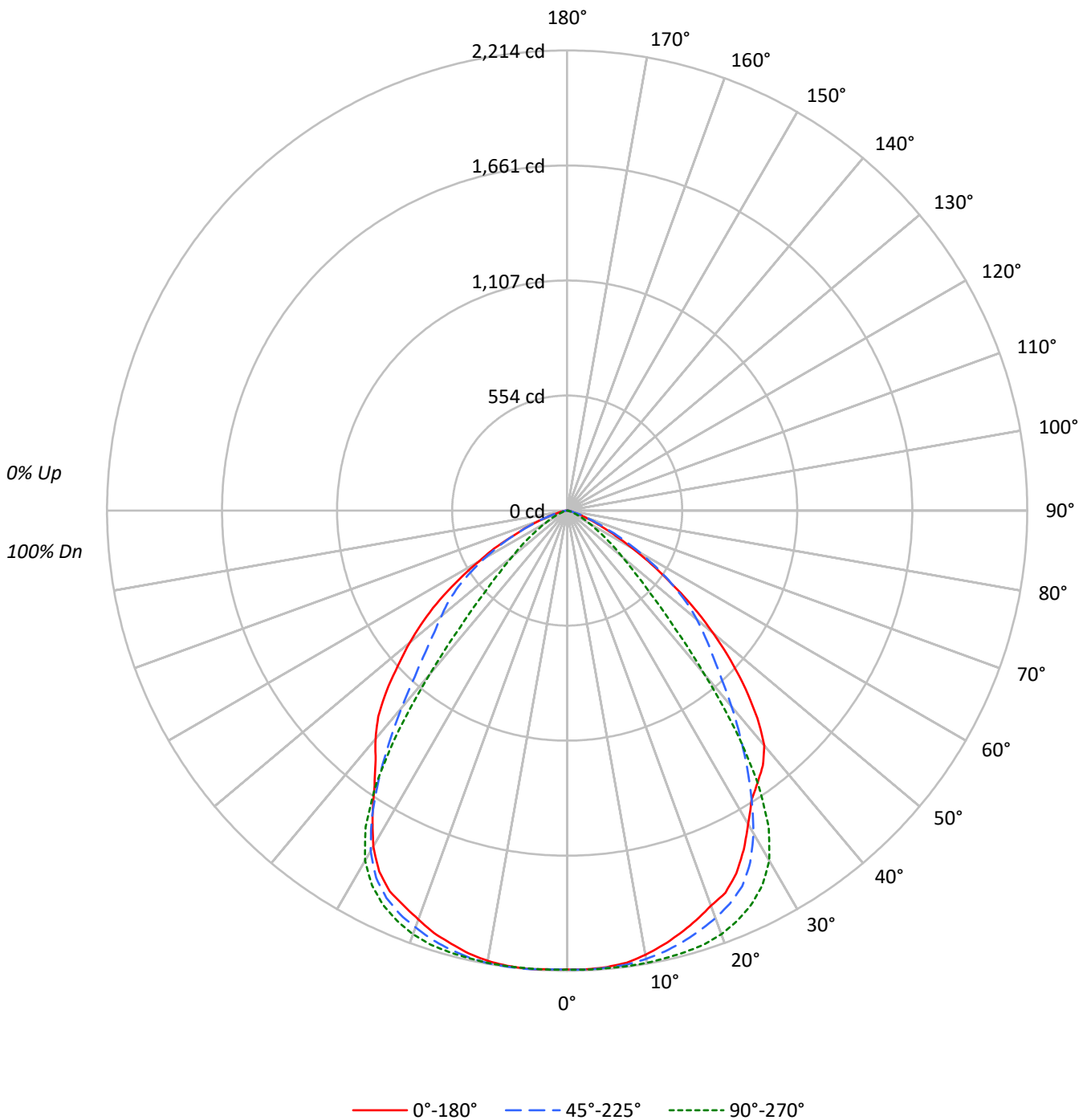
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244594

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P244594

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0H

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 68090 | 68090 | 68090 |
| 5° | 68238 | 68424 | 68495 |
| 10° | 67953 | 69178 | 68880 |
| 15° | 67200 | 70188 | 68863 |
| 20° | 66392 | 71176 | 68686 |
| 25° | 65530 | 71257 | 68756 |
| 30° | 61995 | 69255 | 66428 |
| 35° | 60144 | 60189 | 60814 |
| 40° | 59399 | 41413 | 57728 |
| 45° | 52928 | 24862 | 53652 |
| 50° | 44010 | 16546 | 47421 |
| 55° | 33004 | 11408 | 40208 |
| 60° | 22369 | 7604 | 30337 |
| 65° | 13491 | 4932 | 20839 |
| 70° | 7483 | 2669 | 12821 |
| 75° | 3384 | 1132 | 6636 |
| 80° | 2948 | 1261 | 4635 |
| 85° | 3361 | 1663 | 4599 |



TEST NUMBER: P244594

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.7 | 5.0 |
| 10°-20° | 612.0 | 14.6 |
| 20°-30° | 928.9 | 22.2 |
| 30°-40° | 975.6 | 23.3 |
| 40°-50° | 731.4 | 17.5 |
| 50°-60° | 469.3 | 11.2 |
| 60°-70° | 200.8 | 4.8 |
| 70°-80° | 47.4 | 1.1 |
| 80°-90° | 8.8 | 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° | 1751.6 | 41.9 |
| 0°-40° | 2727.2 | 65.2 |
| 0°-60° | 3928.0 | 93.9 |
| 0°-90° | 4185.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4185.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2208 | 2208 | 2208 | 2208 | 2208 | |
| 5° | 2204 | 2208 | 2210 | 2214 | 2213 | 209 |
| 15° | 2105 | 2149 | 2199 | 2184 | 2157 | 594 |
| 25° | 1926 | 1994 | 2094 | 2056 | 2021 | 880 |
| 35° | 1598 | 1509 | 1599 | 1580 | 1616 | 1003 |
| 45° | 1214 | 992 | 570 | 964 | 1230 | 929 |
| 55° | 614 | 614 | 212 | 640 | 748 | 557 |
| 65° | 185 | 218 | 68 | 281 | 286 | 197 |
| 75° | 28 | 33 | 10 | 57 | 56 | 41 |
| 85° | 10 | 6 | 5 | 10 | 13 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244594

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 |
| 2.5° | 2209.3 | 2211.7 | 2210.5 | 2210.5 | 2209.3 | 2210.5 | 2210.5 | 2212.8 | 2212.8 | 2210.5 | 2209.3 |
| 5° | 2204.5 | 2206.9 | 2206.9 | 2204.5 | 2204.5 | 2210.5 | 2206.9 | 2209.3 | 2209.3 | 2208.1 | 2208.1 |
| 7.5° | 2193.9 | 2193.9 | 2198.6 | 2195.1 | 2195.1 | 2198.6 | 2197.4 | 2199.8 | 2202.2 | 2203.4 | 2203.4 |
| 10° | 2170.2 | 2172.5 | 2173.7 | 2173.7 | 2174.9 | 2178.4 | 2180.8 | 2185.6 | 2187.9 | 2190.3 | 2191.5 |
| 12.5° | 2140.5 | 2144.1 | 2145.3 | 2144.1 | 2147.7 | 2152.4 | 2158.3 | 2164.2 | 2167.8 | 2172.5 | 2176.1 |
| 15° | 2105.0 | 2105.0 | 2107.3 | 2110.9 | 2113.3 | 2120.4 | 2126.3 | 2133.4 | 2142.9 | 2148.8 | 2154.8 |
| 17.5° | 2065.9 | 2068.2 | 2071.8 | 2071.8 | 2076.5 | 2088.4 | 2091.9 | 2102.6 | 2113.3 | 2119.2 | 2131.1 |
| 20° | 2023.2 | 2025.6 | 2029.1 | 2031.5 | 2037.4 | 2046.9 | 2054.0 | 2063.5 | 2075.4 | 2086.0 | 2097.9 |
| 22.5° | 1990.0 | 1985.3 | 1987.6 | 1990.0 | 1995.9 | 2004.2 | 2012.5 | 2024.4 | 2036.2 | 2046.9 | 2058.8 |
| 25° | 1926.0 | 1927.2 | 1930.8 | 1933.1 | 1940.2 | 1947.3 | 1956.8 | 1971.0 | 1981.7 | 1993.6 | 2006.6 |
| 27.5° | 1839.5 | 1840.7 | 1846.6 | 1846.6 | 1852.5 | 1864.4 | 1870.3 | 1882.1 | 1896.4 | 1908.2 | 1923.6 |
| 30° | 1741.1 | 1743.5 | 1743.5 | 1748.2 | 1751.8 | 1757.7 | 1763.6 | 1775.5 | 1782.6 | 1793.3 | 1814.6 |
| 32.5° | 1651.0 | 1653.4 | 1652.2 | 1651.0 | 1647.5 | 1646.3 | 1645.1 | 1647.5 | 1649.9 | 1653.4 | 1661.7 |
| 35° | 1597.7 | 1591.8 | 1587.0 | 1578.7 | 1569.3 | 1557.4 | 1546.7 | 1532.5 | 1519.5 | 1508.8 | 1497.0 |
| 37.5° | 1546.7 | 1545.5 | 1538.4 | 1526.6 | 1507.6 | 1486.3 | 1461.4 | 1430.6 | 1399.8 | 1366.6 | 1334.6 |
| 40° | 1475.6 | 1472.0 | 1466.1 | 1449.5 | 1428.2 | 1402.1 | 1369.0 | 1331.0 | 1281.2 | 1230.3 | 1178.1 |
| 42.5° | 1354.7 | 1355.9 | 1348.8 | 1335.7 | 1315.6 | 1290.7 | 1256.3 | 1214.9 | 1161.5 | 1101.1 | 1033.5 |
| 45° | 1213.7 | 1213.7 | 1211.3 | 1200.6 | 1186.4 | 1166.3 | 1140.2 | 1105.8 | 1053.7 | 992.0 | 919.7 |
| 47.5° | 1066.7 | 1067.9 | 1064.3 | 1062.0 | 1056.0 | 1043.0 | 1024.0 | 998.0 | 961.2 | 902.0 | 829.7 |
| 50° | 917.4 | 917.4 | 923.3 | 922.1 | 922.1 | 917.4 | 909.1 | 893.7 | 861.7 | 814.3 | 746.7 |
| 52.5° | 768.0 | 770.4 | 774.0 | 778.7 | 784.6 | 794.1 | 784.6 | 777.5 | 757.4 | 720.6 | 662.6 |
| 55° | 613.9 | 616.3 | 622.2 | 630.5 | 637.7 | 647.2 | 649.5 | 649.5 | 638.8 | 613.9 | 570.1 |
| 57.5° | 482.4 | 478.8 | 483.6 | 490.7 | 500.2 | 509.7 | 516.8 | 525.1 | 523.9 | 507.3 | 471.7 |
| 60° | 362.7 | 363.9 | 367.4 | 374.5 | 381.6 | 389.9 | 399.4 | 406.5 | 410.1 | 401.8 | 379.3 |
| 62.5° | 264.3 | 264.3 | 269.0 | 276.1 | 279.7 | 291.6 | 297.5 | 301.1 | 304.6 | 303.4 | 289.2 |
| 65° | 184.9 | 187.3 | 189.6 | 193.2 | 196.7 | 203.8 | 207.4 | 214.5 | 216.9 | 218.1 | 207.4 |
| 67.5° | 130.4 | 126.8 | 129.2 | 131.5 | 135.1 | 139.9 | 147.0 | 147.0 | 150.5 | 150.5 | 143.4 |
| 70° | 83.0 | 83.0 | 84.2 | 87.7 | 90.1 | 91.3 | 93.6 | 96.0 | 99.6 | 98.4 | 98.4 |
| 72.5° | 55.7 | 54.5 | 55.7 | 56.9 | 58.1 | 61.6 | 61.6 | 62.8 | 65.2 | 66.4 | 61.6 |
| 75° | 28.4 | 29.6 | 32.0 | 30.8 | 34.4 | 32.0 | 33.2 | 36.7 | 35.6 | 33.2 | 33.2 |
| 77.5° | 23.7 | 23.7 | 23.7 | 22.5 | 24.9 | 24.9 | 23.7 | 26.1 | 24.9 | 24.9 | 23.7 |
| 80° | 16.6 | 17.8 | 16.6 | 15.4 | 16.6 | 15.4 | 15.4 | 15.4 | 15.4 | 15.4 | 14.2 |
| 82.5° | 13.0 | 10.7 | 11.9 | 10.7 | 11.9 | 11.9 | 10.7 | 9.5 | 9.5 | 10.7 | 9.5 |
| 85° | 9.5 | 7.1 | 8.3 | 8.3 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 5.9 | 5.9 |
| 87.5° | 5.9 | 3.6 | 3.6 | 3.6 | 4.7 | 4.7 | 4.7 | 3.6 | 4.7 | 4.7 | 2.4 |
| 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: P244594

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 |
| 2.5° | 2211.7 | 2210.5 | 2212.8 | 2211.7 | 2211.7 | 2210.5 | 2211.7 | 2210.5 | 2212.8 | 2208.1 | 2209.3 |
| 5° | 2211.7 | 2209.3 | 2210.5 | 2211.7 | 2212.8 | 2210.5 | 2210.5 | 2210.5 | 2212.8 | 2210.5 | 2211.7 |
| 7.5° | 2206.9 | 2205.7 | 2209.3 | 2211.7 | 2210.5 | 2209.3 | 2211.7 | 2210.5 | 2212.8 | 2211.7 | 2214.0 |
| 10° | 2197.4 | 2198.6 | 2201.0 | 2204.5 | 2205.7 | 2206.9 | 2209.3 | 2209.3 | 2212.8 | 2208.1 | 2210.5 |
| 12.5° | 2183.2 | 2187.9 | 2193.9 | 2196.2 | 2201.0 | 2201.0 | 2203.4 | 2204.5 | 2206.9 | 2205.7 | 2209.3 |
| 15° | 2165.4 | 2171.3 | 2178.4 | 2184.4 | 2190.3 | 2193.9 | 2197.4 | 2198.6 | 2202.2 | 2198.6 | 2199.8 |
| 17.5° | 2144.1 | 2151.2 | 2161.9 | 2169.0 | 2178.4 | 2182.0 | 2186.7 | 2189.1 | 2192.7 | 2190.3 | 2191.5 |
| 20° | 2114.4 | 2122.8 | 2134.6 | 2145.3 | 2151.2 | 2159.5 | 2165.4 | 2169.0 | 2171.3 | 2169.0 | 2170.2 |
| 22.5° | 2073.0 | 2084.8 | 2100.2 | 2108.5 | 2120.4 | 2127.5 | 2128.7 | 2137.0 | 2142.9 | 2137.0 | 2139.4 |
| 25° | 2024.4 | 2036.2 | 2048.1 | 2065.9 | 2076.5 | 2084.8 | 2093.1 | 2094.3 | 2100.2 | 2099.0 | 2097.9 |
| 27.5° | 1943.8 | 1959.2 | 1979.3 | 1993.6 | 2007.8 | 2020.8 | 2030.3 | 2032.7 | 2038.6 | 2036.2 | 2037.4 |
| 30° | 1833.5 | 1850.2 | 1869.1 | 1891.6 | 1911.8 | 1924.8 | 1936.7 | 1945.0 | 1950.9 | 1947.3 | 1946.2 |
| 32.5° | 1677.1 | 1693.7 | 1713.9 | 1736.4 | 1760.1 | 1779.0 | 1793.3 | 1803.9 | 1811.0 | 1808.7 | 1802.7 |
| 35° | 1498.1 | 1502.9 | 1515.9 | 1533.7 | 1553.8 | 1574.0 | 1587.0 | 1598.9 | 1607.2 | 1609.5 | 1609.5 |
| 37.5° | 1314.4 | 1299.0 | 1289.5 | 1289.5 | 1301.4 | 1309.7 | 1321.5 | 1328.6 | 1341.7 | 1346.4 | 1350.0 |
| 40° | 1136.6 | 1101.1 | 1067.9 | 1043.0 | 1026.4 | 1025.2 | 1025.2 | 1028.8 | 1040.6 | 1056.0 | 1070.3 |
| 42.5° | 977.8 | 920.9 | 870.0 | 823.7 | 790.6 | 771.6 | 763.3 | 764.5 | 774.0 | 788.2 | 811.9 |
| 45° | 851.0 | 779.9 | 715.9 | 660.2 | 615.1 | 585.5 | 571.3 | 570.1 | 577.2 | 593.8 | 619.9 |
| 47.5° | 752.6 | 676.8 | 604.5 | 540.5 | 491.9 | 459.9 | 443.3 | 438.5 | 443.3 | 458.7 | 489.5 |
| 50° | 670.8 | 592.6 | 518.0 | 451.6 | 399.4 | 366.2 | 350.8 | 344.9 | 350.8 | 363.9 | 394.7 |
| 52.5° | 595.0 | 514.4 | 444.5 | 380.5 | 324.8 | 296.3 | 279.7 | 276.1 | 279.7 | 295.1 | 320.0 |
| 55° | 507.3 | 438.5 | 369.8 | 305.8 | 257.2 | 228.8 | 215.7 | 212.2 | 215.7 | 229.9 | 256.0 |
| 57.5° | 420.8 | 361.5 | 301.1 | 243.0 | 201.5 | 176.6 | 164.8 | 160.0 | 168.3 | 177.8 | 208.6 |
| 60° | 340.2 | 292.8 | 241.8 | 190.8 | 156.5 | 133.9 | 124.4 | 123.3 | 125.6 | 137.5 | 158.8 |
| 62.5° | 266.7 | 227.6 | 187.3 | 145.8 | 117.3 | 107.9 | 96.0 | 94.8 | 97.2 | 104.3 | 120.9 |
| 65° | 192.0 | 167.1 | 136.3 | 106.7 | 84.2 | 71.1 | 66.4 | 67.6 | 69.9 | 74.7 | 90.1 |
| 67.5° | 133.9 | 116.1 | 94.8 | 74.7 | 58.1 | 52.1 | 47.4 | 46.2 | 47.4 | 55.7 | 64.0 |
| 70° | 90.1 | 79.4 | 64.0 | 56.9 | 40.3 | 32.0 | 33.2 | 29.6 | 34.4 | 34.4 | 41.5 |
| 72.5° | 59.2 | 52.1 | 42.7 | 33.2 | 28.4 | 22.5 | 22.5 | 21.3 | 23.7 | 24.9 | 30.8 |
| 75° | 30.8 | 23.7 | 23.7 | 16.6 | 11.9 | 5.9 | 10.7 | 9.5 | 8.3 | 9.5 | 11.9 |
| 77.5° | 21.3 | 17.8 | 16.6 | 13.0 | 11.9 | 9.5 | 9.5 | 9.5 | 9.5 | 10.7 | 11.9 |
| 80° | 13.0 | 13.0 | 9.5 | 8.3 | 7.1 | 5.9 | 7.1 | 7.1 | 7.1 | 7.1 | 8.3 |
| 82.5° | 8.3 | 7.1 | 7.1 | 5.9 | 5.9 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 7.1 |
| 85° | 7.1 | 4.7 | 4.7 | 3.6 | 4.7 | 8.3 | 3.6 | 4.7 | 4.7 | 4.7 | 3.6 |
| 87.5° | 2.4 | 3.6 | 3.6 | 3.6 | 2.4 | 1.2 | 2.4 | 3.6 | 3.6 | 5.9 | 4.7 |
| 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° | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 | 2208.1 |
| 2.5° | 2211.7 | 2212.8 | 2212.8 | 2211.7 | 2211.7 | 2209.3 | 2214.0 | 2210.5 | 2211.7 | 2216.4 | 2212.8 |
| 5° | 2214.0 | 2215.2 | 2215.2 | 2214.0 | 2214.0 | 2214.0 | 2215.2 | 2215.2 | 2214.0 | 2212.8 | 2215.2 |
| 7.5° | 2218.8 | 2217.6 | 2217.6 | 2215.2 | 2215.2 | 2212.8 | 2215.2 | 2211.7 | 2214.0 | 2211.7 | 2215.2 |
| 10° | 2212.8 | 2214.0 | 2212.8 | 2211.7 | 2211.7 | 2210.5 | 2210.5 | 2206.9 | 2208.1 | 2204.5 | 2206.9 |
| 12.5° | 2209.3 | 2208.1 | 2208.1 | 2205.7 | 2203.4 | 2201.0 | 2199.8 | 2196.2 | 2196.2 | 2187.9 | 2191.5 |
| 15° | 2199.8 | 2201.0 | 2197.4 | 2192.7 | 2190.3 | 2184.4 | 2182.0 | 2177.3 | 2172.5 | 2166.6 | 2167.8 |
| 17.5° | 2191.5 | 2187.9 | 2183.2 | 2178.4 | 2169.0 | 2164.2 | 2159.5 | 2152.4 | 2150.0 | 2142.9 | 2140.5 |
| 20° | 2166.6 | 2164.2 | 2158.3 | 2150.0 | 2144.1 | 2133.4 | 2128.7 | 2121.6 | 2115.6 | 2108.5 | 2105.0 |
| 22.5° | 2134.6 | 2132.2 | 2125.1 | 2116.8 | 2107.3 | 2102.6 | 2097.9 | 2084.8 | 2078.9 | 2071.8 | 2070.6 |
| 25° | 2094.3 | 2090.8 | 2083.6 | 2074.2 | 2069.4 | 2056.4 | 2051.6 | 2042.1 | 2039.8 | 2032.7 | 2031.5 |
| 27.5° | 2032.7 | 2027.9 | 2019.6 | 2007.8 | 1999.5 | 1991.2 | 1986.5 | 1979.3 | 1977.0 | 1969.8 | 1968.7 |
| 30° | 1940.2 | 1934.3 | 1917.7 | 1913.0 | 1898.7 | 1890.4 | 1890.4 | 1881.0 | 1882.1 | 1877.4 | 1877.4 |
| 32.5° | 1794.5 | 1785.0 | 1771.9 | 1762.4 | 1753.0 | 1748.2 | 1748.2 | 1744.7 | 1747.0 | 1747.0 | 1749.4 |
| 35° | 1601.2 | 1588.2 | 1581.1 | 1575.2 | 1575.2 | 1579.9 | 1594.1 | 1597.7 | 1604.8 | 1610.7 | 1615.5 |
| 37.5° | 1353.5 | 1352.4 | 1360.7 | 1367.8 | 1385.5 | 1405.7 | 1430.6 | 1451.9 | 1472.0 | 1486.3 | 1500.5 |
| 40° | 1085.7 | 1115.3 | 1139.0 | 1172.2 | 1199.4 | 1238.6 | 1283.6 | 1320.3 | 1354.7 | 1379.6 | 1405.7 |
| 42.5° | 847.4 | 885.4 | 935.2 | 983.7 | 1032.3 | 1085.7 | 1144.9 | 1195.9 | 1240.9 | 1275.3 | 1302.6 |
| 45° | 660.2 | 712.3 | 772.8 | 834.4 | 897.2 | 963.6 | 1025.2 | 1077.4 | 1124.8 | 1160.3 | 1187.6 |
| 47.5° | 532.2 | 589.1 | 657.8 | 725.4 | 796.5 | 866.4 | 935.2 | 980.2 | 1019.3 | 1047.7 | 1072.7 |
| 50° | 439.7 | 500.2 | 572.5 | 649.5 | 720.6 | 790.6 | 849.8 | 893.7 | 925.7 | 950.6 | 966.0 |
| 52.5° | 367.4 | 431.4 | 508.5 | 585.5 | 656.6 | 720.6 | 774.0 | 807.1 | 833.2 | 851.0 | 865.2 |
| 55° | 303.4 | 365.1 | 437.4 | 509.7 | 579.6 | 640.0 | 683.9 | 708.8 | 728.9 | 739.6 | 747.9 |
| 57.5° | 247.7 | 304.6 | 371.0 | 437.4 | 497.8 | 547.6 | 582.0 | 606.8 | 616.3 | 624.6 | 623.4 |
| 60° | 194.4 | 247.7 | 308.2 | 365.1 | 417.2 | 457.5 | 482.4 | 496.6 | 503.7 | 507.3 | 504.9 |
| 62.5° | 152.9 | 201.5 | 247.7 | 297.5 | 335.4 | 369.8 | 393.5 | 393.5 | 397.0 | 398.2 | 401.8 |
| 65° | 113.8 | 150.5 | 190.8 | 227.6 | 258.4 | 280.9 | 294.0 | 297.5 | 302.2 | 301.1 | 298.7 |
| 67.5° | 84.2 | 111.4 | 141.0 | 168.3 | 189.6 | 203.8 | 213.3 | 221.7 | 220.5 | 218.1 | 216.9 |
| 70° | 58.1 | 75.9 | 101.9 | 118.5 | 133.9 | 148.2 | 150.5 | 151.7 | 152.9 | 154.1 | 151.7 |
| 72.5° | 40.3 | 53.3 | 67.6 | 81.8 | 91.3 | 97.2 | 103.1 | 104.3 | 104.3 | 104.3 | 103.1 |
| 75° | 20.2 | 27.3 | 40.3 | 46.2 | 54.5 | 56.9 | 61.6 | 61.6 | 65.2 | 60.4 | 59.2 |
| 77.5° | 17.8 | 21.3 | 28.4 | 33.2 | 36.7 | 40.3 | 41.5 | 45.0 | 43.8 | 41.5 | 42.7 |
| 80° | 10.7 | 13.0 | 17.8 | 20.2 | 24.9 | 26.1 | 27.3 | 28.4 | 27.3 | 28.4 | 28.4 |
| 82.5° | 8.3 | 9.5 | 11.9 | 11.9 | 15.4 | 15.4 | 16.6 | 16.6 | 17.8 | 17.8 | 17.8 |
| 85° | 4.7 | 8.3 | 7.1 | 14.2 | 9.5 | 9.5 | 11.9 | 14.2 | 11.9 | 11.9 | 14.2 |
| 87.5° | 4.7 | 4.7 | 3.6 | 4.7 | 4.7 | 4.7 | 5.9 | 7.1 | 7.1 | 8.3 | 7.1 |
| 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: P244594

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2208.1 | 2208.1 | 2208.1 | 2208.1 |
| 2.5° | 2211.7 | 2214.0 | 2210.5 | 2209.3 |
| 5° | 2215.2 | 2215.2 | 2212.8 | 2212.8 |
| 7.5° | 2215.2 | 2215.2 | 2211.7 | 2209.3 |
| 10° | 2205.7 | 2205.7 | 2202.2 | 2199.8 |
| 12.5° | 2187.9 | 2187.9 | 2186.7 | 2183.2 |
| 15° | 2165.4 | 2165.4 | 2160.7 | 2157.1 |
| 17.5° | 2134.6 | 2137.0 | 2131.1 | 2131.1 |
| 20° | 2101.4 | 2100.2 | 2095.5 | 2093.1 |
| 22.5° | 2067.1 | 2064.7 | 2063.5 | 2056.4 |
| 25° | 2030.3 | 2027.9 | 2024.4 | 2020.8 |
| 27.5° | 1967.5 | 1966.3 | 1962.7 | 1958.0 |
| 30° | 1871.5 | 1870.3 | 1865.6 | 1865.6 |
| 32.5° | 1747.0 | 1745.8 | 1741.1 | 1742.3 |
| 35° | 1617.8 | 1622.6 | 1620.2 | 1615.5 |
| 37.5° | 1510.0 | 1513.5 | 1515.9 | 1513.5 |
| 40° | 1419.9 | 1430.6 | 1431.8 | 1434.1 |
| 42.5° | 1323.9 | 1338.1 | 1342.9 | 1345.2 |
| 45° | 1208.9 | 1222.0 | 1232.6 | 1230.3 |
| 47.5° | 1091.6 | 1101.1 | 1110.6 | 1103.4 |
| 50° | 979.0 | 984.9 | 988.5 | 988.5 |
| 52.5° | 872.3 | 872.3 | 871.2 | 872.3 |
| 55° | 750.2 | 750.2 | 745.5 | 747.9 |
| 57.5° | 622.2 | 624.6 | 621.1 | 615.1 |
| 60° | 503.7 | 497.8 | 495.4 | 491.9 |
| 62.5° | 392.3 | 392.3 | 384.0 | 394.7 |
| 65° | 294.0 | 290.4 | 286.8 | 285.6 |
| 67.5° | 213.3 | 212.2 | 208.6 | 207.4 |
| 70° | 150.5 | 145.8 | 144.6 | 142.2 |
| 72.5° | 100.7 | 100.7 | 98.4 | 98.4 |
| 75° | 61.6 | 55.7 | 54.5 | 55.7 |
| 77.5° | 42.7 | 41.5 | 41.5 | 40.3 |
| 80° | 28.4 | 27.3 | 29.6 | 26.1 |
| 82.5° | 17.8 | 19.0 | 17.8 | 19.0 |
| 85° | 11.9 | 14.2 | 13.0 | 13.0 |
| 87.5° | 7.1 | 7.1 | 7.1 | 7.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)