

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: P245500

Luminaire Tested: **LSR8B40D010 EC8B40935 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245500  
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: LSR8B40D010 EC8B40935 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3834.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

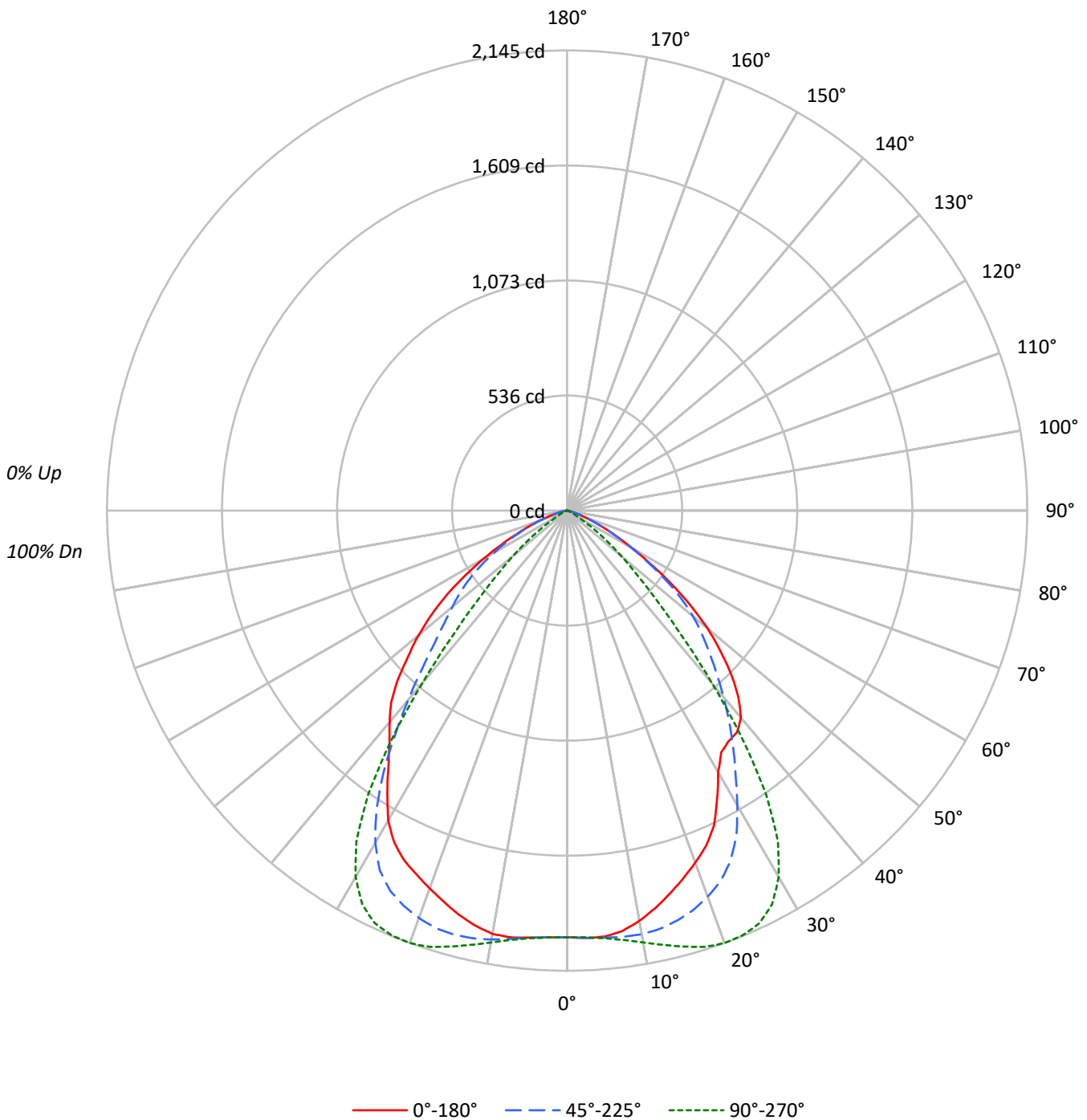
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 61330 | 61330 | 61330 |
| 5°  | 61698 | 61927 | 61859 |
| 10° | 60789 | 63999 | 62740 |
| 15° | 59012 | 67168 | 62249 |
| 20° | 57302 | 70395 | 61493 |
| 25° | 55102 | 72199 | 61206 |
| 30° | 50145 | 70220 | 59392 |
| 35° | 49397 | 60844 | 54644 |
| 40° | 50740 | 42198 | 51803 |
| 45° | 47237 | 25507 | 48711 |
| 50° | 40974 | 15749 | 43401 |
| 55° | 31445 | 8231  | 36837 |
| 60° | 21419 | 3318  | 27802 |
| 65° | 13323 | 1693  | 19182 |
| 70° | 7231  | 1046  | 11712 |
| 75° | 3777  | 500   | 6922  |
| 80° | 1687  | 568   | 3747  |
| 85° | 1132  | 389   | 3361  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 191.3  | 5.0       |
| 10°-20°   | 566.6  | 14.8      |
| 20°-30°   | 864.4  | 22.5      |
| 30°-40°   | 902.1  | 23.5      |
| 40°-50°   | 677.6  | 17.7      |
| 50°-60°   | 416.9  | 10.9      |
| 60°-70°   | 169.7  | 4.4       |
| 70°-80°   | 40.0   | 1.0       |
| 80°-90°   | 5.5    | 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°    | 1622.3 | 42.3      |
| 0°-40°    | 2524.4 | 65.8      |
| 0°-60°    | 3618.9 | 94.4      |
| 0°-90°    | 3834.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3834.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1989 | 1989 | 1989 | 1989 | 1989 |      |
| 5°  | 1993 | 1998 | 2001 | 1998 | 1998 | 189  |
| 15° | 1848 | 1978 | 2104 | 2046 | 1950 | 521  |
| 25° | 1620 | 1801 | 2122 | 1954 | 1799 | 736  |
| 35° | 1312 | 1349 | 1616 | 1494 | 1452 | 829  |
| 45° | 1083 | 938  | 585  | 873  | 1117 | 826  |
| 55° | 585  | 555  | 153  | 555  | 685  | 526  |
| 65° | 183  | 185  | 23   | 248  | 263  | 190  |
| 75° | 32   | 32   | 4    | 56   | 58   | 38   |
| 85° | 3    | 3    | 1    | 7    | 10   | 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°    | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 |
| 2.5°  | 1994.2 | 1991.1 | 1994.2 | 1994.2 | 1995.3 | 1993.2 | 1994.2 | 1995.3 | 1993.2 | 1993.2 | 1993.2 |
| 5°    | 1993.2 | 1991.1 | 1993.2 | 1992.1 | 1994.2 | 1994.2 | 1996.4 | 1996.4 | 1998.4 | 1998.4 | 2001.6 |
| 7.5°  | 1976.3 | 1972.1 | 1976.3 | 1979.5 | 1981.6 | 1985.8 | 1991.1 | 1995.3 | 1999.5 | 2003.7 | 2009.0 |
| 10°   | 1941.4 | 1941.4 | 1944.6 | 1950.9 | 1957.3 | 1964.7 | 1974.2 | 1984.7 | 1995.3 | 2004.8 | 2014.3 |
| 12.5° | 1898.2 | 1895.0 | 1901.3 | 1909.8 | 1919.3 | 1930.9 | 1945.7 | 1961.5 | 1978.4 | 1997.4 | 2012.2 |
| 15°   | 1848.5 | 1845.4 | 1852.8 | 1861.2 | 1872.8 | 1889.7 | 1907.7 | 1928.8 | 1953.1 | 1978.4 | 2002.7 |
| 17.5° | 1797.9 | 1796.8 | 1804.2 | 1815.8 | 1825.3 | 1843.3 | 1866.5 | 1891.8 | 1919.3 | 1953.1 | 1984.7 |
| 20°   | 1746.2 | 1745.1 | 1752.5 | 1762.0 | 1774.6 | 1791.5 | 1814.8 | 1844.3 | 1877.0 | 1915.1 | 1952.0 |
| 22.5° | 1692.3 | 1693.4 | 1699.7 | 1710.2 | 1720.8 | 1738.7 | 1763.0 | 1792.6 | 1828.5 | 1869.7 | 1910.8 |
| 25°   | 1619.5 | 1614.2 | 1622.6 | 1633.2 | 1651.1 | 1665.9 | 1689.1 | 1720.8 | 1757.8 | 1801.0 | 1849.6 |
| 27.5° | 1513.9 | 1512.8 | 1520.2 | 1529.7 | 1545.5 | 1563.5 | 1588.8 | 1621.6 | 1660.6 | 1708.1 | 1755.6 |
| 30°   | 1408.3 | 1410.4 | 1413.6 | 1423.1 | 1433.6 | 1451.6 | 1476.9 | 1504.4 | 1541.3 | 1586.7 | 1637.4 |
| 32.5° | 1336.5 | 1336.5 | 1340.8 | 1347.1 | 1354.5 | 1364.0 | 1381.9 | 1402.0 | 1430.5 | 1462.2 | 1499.1 |
| 35°   | 1312.2 | 1308.0 | 1312.2 | 1313.3 | 1314.4 | 1316.5 | 1319.6 | 1326.0 | 1335.5 | 1349.2 | 1362.9 |
| 37.5° | 1301.7 | 1298.5 | 1298.5 | 1294.3 | 1289.0 | 1282.7 | 1274.2 | 1264.7 | 1254.2 | 1240.5 | 1229.9 |
| 40°   | 1260.5 | 1258.4 | 1256.3 | 1252.1 | 1240.5 | 1227.8 | 1214.1 | 1191.9 | 1167.6 | 1133.8 | 1100.1 |
| 42.5° | 1181.3 | 1179.2 | 1178.2 | 1169.7 | 1159.2 | 1144.4 | 1128.6 | 1105.3 | 1074.7 | 1031.4 | 982.9  |
| 45°   | 1083.2 | 1078.9 | 1075.8 | 1068.4 | 1061.0 | 1048.3 | 1033.5 | 1012.4 | 981.8  | 937.5  | 879.4  |
| 47.5° | 969.1  | 967.0  | 966.0  | 962.8  | 955.4  | 948.0  | 938.5  | 921.6  | 894.2  | 851.9  | 791.8  |
| 50°   | 854.1  | 849.9  | 851.9  | 850.9  | 847.7  | 842.5  | 836.1  | 824.5  | 803.4  | 765.4  | 710.5  |
| 52.5° | 722.1  | 722.1  | 721.1  | 724.2  | 725.3  | 724.2  | 725.3  | 712.6  | 694.7  | 666.1  | 619.7  |
| 55°   | 584.9  | 584.9  | 588.0  | 592.3  | 596.5  | 597.5  | 596.5  | 591.2  | 578.5  | 555.3  | 514.1  |
| 57.5° | 456.1  | 454.0  | 460.3  | 466.6  | 470.9  | 475.1  | 471.9  | 467.7  | 460.3  | 441.3  | 409.6  |
| 60°   | 347.3  | 347.3  | 351.5  | 355.8  | 360.0  | 364.2  | 363.2  | 362.1  | 355.8  | 343.1  | 317.8  |
| 62.5° | 255.5  | 256.5  | 256.5  | 259.7  | 263.9  | 268.2  | 271.3  | 268.2  | 265.0  | 256.5  | 239.6  |
| 65°   | 182.6  | 181.6  | 182.6  | 185.8  | 189.0  | 193.2  | 195.3  | 194.3  | 191.1  | 184.7  | 172.1  |
| 67.5° | 122.5  | 121.4  | 125.6  | 126.7  | 128.8  | 133.0  | 132.0  | 133.0  | 132.0  | 126.7  | 116.1  |
| 70°   | 80.2   | 78.1   | 80.2   | 79.2   | 82.4   | 83.4   | 85.5   | 86.6   | 85.5   | 82.4   | 79.2   |
| 72.5° | 49.6   | 48.6   | 49.6   | 50.7   | 51.7   | 52.8   | 54.9   | 54.9   | 53.8   | 51.7   | 47.5   |
| 75°   | 31.7   | 28.5   | 29.6   | 27.5   | 29.6   | 29.6   | 31.7   | 32.7   | 31.7   | 31.7   | 29.6   |
| 77.5° | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 20.1   | 21.1   | 19.0   | 18.0   |
| 80°   | 9.5    | 9.5    | 10.6   | 10.6   | 10.6   | 11.6   | 10.6   | 10.6   | 10.6   | 11.6   | 8.4    |
| 82.5° | 7.4    | 6.3    | 6.3    | 6.3    | 7.4    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 85°   | 3.2    | 4.2    | 3.2    | 2.1    | 3.2    | 3.2    | 4.2    | 3.2    | 3.2    | 3.2    | 4.2    |
| 87.5° | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 1.1    | 0.0    | 1.1    | 1.1    | 2.1    | 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°    | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 |
| 2.5°  | 1994.2 | 1992.1 | 1992.1 | 1991.1 | 1993.2 | 1991.1 | 1992.1 | 1991.1 | 1991.1 | 1993.2 | 1991.1 |
| 5°    | 2001.6 | 2002.7 | 2000.6 | 1999.5 | 2002.7 | 2002.7 | 2002.7 | 2000.6 | 2000.6 | 2001.6 | 2000.6 |
| 7.5°  | 2012.2 | 2014.3 | 2015.3 | 2016.4 | 2018.5 | 2019.6 | 2019.6 | 2018.5 | 2017.5 | 2020.6 | 2016.4 |
| 10°   | 2023.8 | 2027.0 | 2033.3 | 2036.5 | 2041.7 | 2041.7 | 2043.9 | 2043.9 | 2041.7 | 2043.9 | 2042.8 |
| 12.5° | 2019.6 | 2038.6 | 2049.1 | 2056.5 | 2063.9 | 2070.2 | 2072.4 | 2073.4 | 2072.4 | 2076.6 | 2072.4 |
| 15°   | 2027.0 | 2042.8 | 2059.7 | 2072.4 | 2086.1 | 2093.5 | 2095.6 | 2104.0 | 2106.1 | 2107.2 | 2100.9 |
| 17.5° | 2015.3 | 2043.9 | 2061.8 | 2080.8 | 2100.9 | 2114.6 | 2127.2 | 2132.5 | 2133.6 | 2135.7 | 2127.2 |
| 20°   | 1988.9 | 2020.6 | 2048.1 | 2075.5 | 2098.8 | 2119.9 | 2130.4 | 2145.2 | 2141.0 | 2149.4 | 2137.8 |
| 22.5° | 1953.1 | 1988.9 | 2023.8 | 2059.7 | 2084.0 | 2109.3 | 2131.5 | 2142.0 | 2147.3 | 2147.3 | 2134.6 |
| 25°   | 1896.1 | 1938.3 | 1976.3 | 2013.2 | 2050.2 | 2080.8 | 2106.1 | 2122.0 | 2125.2 | 2124.1 | 2109.3 |
| 27.5° | 1807.4 | 1852.8 | 1897.1 | 1939.3 | 1984.7 | 2020.6 | 2050.2 | 2069.2 | 2074.5 | 2074.5 | 2058.6 |
| 30°   | 1684.9 | 1733.5 | 1776.8 | 1827.4 | 1873.9 | 1914.0 | 1955.2 | 1972.1 | 1981.6 | 1981.6 | 1963.6 |
| 32.5° | 1539.2 | 1580.4 | 1620.5 | 1670.1 | 1720.8 | 1766.2 | 1805.3 | 1828.5 | 1840.1 | 1839.0 | 1823.2 |
| 35°   | 1380.9 | 1400.9 | 1431.6 | 1468.5 | 1513.9 | 1556.1 | 1594.1 | 1616.3 | 1636.3 | 1635.3 | 1620.5 |
| 37.5° | 1222.5 | 1217.2 | 1220.4 | 1234.1 | 1262.6 | 1292.2 | 1321.7 | 1342.9 | 1359.7 | 1367.2 | 1364.0 |
| 40°   | 1067.3 | 1039.9 | 1013.5 | 1004.0 | 1006.1 | 1016.6 | 1032.5 | 1048.3 | 1067.3 | 1076.8 | 1081.0 |
| 42.5° | 928.0  | 881.5  | 835.1  | 800.2  | 780.2  | 773.8  | 781.2  | 786.5  | 798.1  | 811.8  | 825.6  |
| 45°   | 816.1  | 753.8  | 692.5  | 638.7  | 604.9  | 584.9  | 580.6  | 584.9  | 591.2  | 604.9  | 622.9  |
| 47.5° | 724.2  | 651.4  | 582.8  | 522.6  | 472.9  | 446.6  | 439.2  | 437.1  | 443.4  | 456.1  | 480.3  |
| 50°   | 642.9  | 570.1  | 494.1  | 424.4  | 372.7  | 343.1  | 332.6  | 328.3  | 335.7  | 345.2  | 367.4  |
| 52.5° | 554.2  | 482.5  | 404.3  | 336.8  | 282.9  | 252.3  | 240.7  | 234.4  | 238.6  | 251.3  | 273.4  |
| 55°   | 458.2  | 391.7  | 320.9  | 251.3  | 199.5  | 171.0  | 157.3  | 153.1  | 157.3  | 171.0  | 193.2  |
| 57.5° | 362.1  | 306.2  | 247.0  | 181.6  | 135.1  | 106.6  | 92.9   | 88.7   | 100.3  | 105.6  | 128.8  |
| 60°   | 282.9  | 237.5  | 186.9  | 133.0  | 92.9   | 70.7   | 57.0   | 53.8   | 59.1   | 68.6   | 87.6   |
| 62.5° | 212.2  | 183.7  | 143.6  | 95.0   | 68.6   | 45.4   | 38.0   | 34.8   | 38.0   | 45.4   | 60.2   |
| 65°   | 154.1  | 132.0  | 100.3  | 69.7   | 46.4   | 33.8   | 25.3   | 23.2   | 26.4   | 31.7   | 44.4   |
| 67.5° | 105.6  | 88.7   | 69.7   | 48.6   | 31.7   | 21.1   | 18.0   | 18.0   | 19.0   | 23.2   | 32.7   |
| 70°   | 68.6   | 58.1   | 44.4   | 31.7   | 21.1   | 15.8   | 13.7   | 11.6   | 13.7   | 16.9   | 22.2   |
| 72.5° | 43.3   | 36.9   | 28.5   | 22.2   | 15.8   | 11.6   | 9.5    | 8.4    | 10.6   | 12.7   | 16.9   |
| 75°   | 26.4   | 20.1   | 14.8   | 11.6   | 8.4    | 8.4    | 8.4    | 4.2    | 5.3    | 8.4    | 10.6   |
| 77.5° | 15.8   | 13.7   | 11.6   | 9.5    | 7.4    | 4.2    | 4.2    | 4.2    | 5.3    | 6.3    | 9.5    |
| 80°   | 8.4    | 7.4    | 5.3    | 5.3    | 4.2    | 3.2    | 4.2    | 3.2    | 2.1    | 5.3    | 6.3    |
| 82.5° | 5.3    | 4.2    | 4.2    | 4.2    | 5.3    | 2.1    | 3.2    | 2.1    | 3.2    | 4.2    | 3.2    |
| 85°   | 3.2    | 3.2    | 3.2    | 2.1    | 5.3    | 2.1    | 2.1    | 1.1    | 1.1    | 2.1    | 2.1    |
| 87.5° | 0.0    | 1.1    | 1.1    | 0.0    | 1.1    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 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°    | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 | 1988.9 |
| 2.5°  | 1992.1 | 1991.1 | 1992.1 | 1991.1 | 1991.1 | 1991.1 | 1992.1 | 1992.1 | 1991.1 | 1991.1 | 1993.2 |
| 5°    | 2000.6 | 2000.6 | 2000.6 | 1999.5 | 1998.4 | 1998.4 | 2000.6 | 2000.6 | 1997.4 | 2000.6 | 2000.6 |
| 7.5°  | 2018.5 | 2015.3 | 2018.5 | 2014.3 | 2012.2 | 2013.2 | 2014.3 | 2012.2 | 2010.1 | 2011.1 | 2011.1 |
| 10°   | 2041.7 | 2038.6 | 2038.6 | 2035.4 | 2032.2 | 2030.1 | 2028.0 | 2022.7 | 2017.5 | 2016.4 | 2012.2 |
| 12.5° | 2069.2 | 2063.9 | 2060.8 | 2054.4 | 2049.1 | 2041.7 | 2035.4 | 2027.0 | 2016.4 | 2009.0 | 2001.6 |
| 15°   | 2096.6 | 2088.2 | 2080.8 | 2070.2 | 2058.6 | 2046.0 | 2032.2 | 2018.5 | 2001.6 | 1986.9 | 1974.2 |
| 17.5° | 2118.8 | 2107.2 | 2093.5 | 2076.6 | 2059.7 | 2040.7 | 2020.6 | 2000.6 | 1976.3 | 1957.3 | 1942.5 |
| 20°   | 2126.2 | 2109.3 | 2091.4 | 2069.2 | 2047.0 | 2020.6 | 1995.3 | 1968.9 | 1941.4 | 1921.4 | 1904.5 |
| 22.5° | 2116.7 | 2096.6 | 2074.5 | 2051.2 | 2021.7 | 1993.2 | 1963.6 | 1933.0 | 1908.7 | 1881.3 | 1865.4 |
| 25°   | 2090.3 | 2066.0 | 2041.7 | 2014.3 | 1985.8 | 1954.1 | 1922.5 | 1890.8 | 1861.2 | 1846.4 | 1826.4 |
| 27.5° | 2036.5 | 2010.1 | 1983.7 | 1955.2 | 1922.5 | 1890.8 | 1858.1 | 1827.4 | 1802.1 | 1782.0 | 1770.4 |
| 30°   | 1941.4 | 1910.8 | 1880.2 | 1849.6 | 1821.1 | 1788.4 | 1757.8 | 1732.4 | 1707.1 | 1691.2 | 1679.6 |
| 32.5° | 1795.8 | 1768.3 | 1737.7 | 1708.1 | 1681.8 | 1654.3 | 1629.0 | 1606.8 | 1588.8 | 1578.3 | 1569.8 |
| 35°   | 1599.4 | 1571.9 | 1548.7 | 1527.6 | 1505.4 | 1493.8 | 1478.0 | 1465.3 | 1457.9 | 1453.7 | 1452.7 |
| 37.5° | 1352.4 | 1336.5 | 1329.1 | 1324.9 | 1320.7 | 1317.5 | 1319.6 | 1324.9 | 1329.1 | 1336.5 | 1345.0 |
| 40°   | 1088.4 | 1102.2 | 1106.4 | 1121.2 | 1134.9 | 1152.8 | 1172.9 | 1196.1 | 1215.1 | 1239.4 | 1256.3 |
| 42.5° | 847.7  | 873.1  | 902.6  | 934.3  | 968.1  | 1000.8 | 1040.9 | 1077.9 | 1111.7 | 1142.3 | 1168.7 |
| 45°   | 651.4  | 690.4  | 734.8  | 780.2  | 825.6  | 873.1  | 921.6  | 967.0  | 1007.1 | 1039.9 | 1067.3 |
| 47.5° | 507.8  | 551.1  | 608.1  | 664.0  | 718.9  | 774.9  | 828.7  | 876.2  | 910.0  | 941.7  | 966.0  |
| 50°   | 402.2  | 451.8  | 514.1  | 578.5  | 638.7  | 697.8  | 754.8  | 799.2  | 833.0  | 858.3  | 876.2  |
| 52.5° | 311.4  | 370.6  | 433.9  | 501.5  | 565.9  | 630.3  | 683.0  | 724.2  | 751.7  | 773.8  | 787.5  |
| 55°   | 232.3  | 290.3  | 357.9  | 427.6  | 493.0  | 555.3  | 604.9  | 640.8  | 665.1  | 677.8  | 685.2  |
| 57.5° | 167.9  | 220.7  | 288.2  | 357.9  | 417.0  | 476.1  | 516.2  | 549.0  | 562.7  | 570.1  | 573.3  |
| 60°   | 122.5  | 171.0  | 231.2  | 291.4  | 347.3  | 394.8  | 429.7  | 451.8  | 462.4  | 466.6  | 465.6  |
| 62.5° | 89.7   | 132.0  | 183.7  | 234.4  | 279.8  | 318.8  | 346.3  | 361.0  | 366.3  | 368.4  | 365.3  |
| 65°   | 68.6   | 101.3  | 145.7  | 184.7  | 219.6  | 248.1  | 268.2  | 277.7  | 280.8  | 279.8  | 277.7  |
| 67.5° | 50.7   | 76.0   | 108.7  | 138.3  | 163.6  | 185.8  | 196.4  | 204.8  | 206.9  | 203.8  | 200.6  |
| 70°   | 35.9   | 56.0   | 79.2   | 99.2   | 118.2  | 130.9  | 142.5  | 143.6  | 143.6  | 142.5  | 140.4  |
| 72.5° | 25.3   | 39.1   | 53.8   | 67.6   | 79.2   | 88.7   | 92.9   | 96.1   | 95.0   | 93.9   | 91.9   |
| 75°   | 16.9   | 24.3   | 39.1   | 42.2   | 52.8   | 56.0   | 60.2   | 60.2   | 61.2   | 58.1   | 58.1   |
| 77.5° | 10.6   | 16.9   | 23.2   | 27.5   | 31.7   | 35.9   | 38.0   | 38.0   | 39.1   | 38.0   | 38.0   |
| 80°   | 6.3    | 10.6   | 12.7   | 19.0   | 19.0   | 22.2   | 23.2   | 24.3   | 22.2   | 25.3   | 22.2   |
| 82.5° | 4.2    | 6.3    | 9.5    | 9.5    | 11.6   | 13.7   | 13.7   | 14.8   | 14.8   | 13.7   | 13.7   |
| 85°   | 3.2    | 4.2    | 5.3    | 6.3    | 6.3    | 7.4    | 6.3    | 6.3    | 7.4    | 8.4    | 7.4    |
| 87.5° | 1.1    | 2.1    | 1.1    | 2.1    | 2.1    | 4.2    | 3.2    | 3.2    | 3.2    | 4.2    | 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: P245500

CATALOG NUMBER: LSR8B40D010 EC8B40935 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1988.9 | 1988.9 | 1988.9 | 1988.9 |
| 2.5°  | 1991.1 | 1992.1 | 1991.1 | 1991.1 |
| 5°    | 2000.6 | 1999.5 | 2000.6 | 1998.4 |
| 7.5°  | 2008.0 | 2008.0 | 2006.9 | 2006.9 |
| 10°   | 2008.0 | 2003.7 | 2003.7 | 2003.7 |
| 12.5° | 1992.1 | 1986.9 | 1983.7 | 1981.6 |
| 15°   | 1964.7 | 1955.2 | 1950.9 | 1949.9 |
| 17.5° | 1928.8 | 1920.3 | 1915.1 | 1911.9 |
| 20°   | 1887.6 | 1879.2 | 1872.8 | 1873.9 |
| 22.5° | 1851.7 | 1842.2 | 1838.0 | 1835.9 |
| 25°   | 1815.8 | 1804.2 | 1801.0 | 1798.9 |
| 27.5° | 1757.8 | 1751.4 | 1748.2 | 1745.1 |
| 30°   | 1669.1 | 1665.9 | 1660.6 | 1668.0 |
| 32.5° | 1566.7 | 1561.4 | 1557.2 | 1560.3 |
| 35°   | 1453.7 | 1450.5 | 1453.7 | 1451.6 |
| 37.5° | 1350.3 | 1353.4 | 1357.6 | 1359.7 |
| 40°   | 1269.0 | 1280.6 | 1284.8 | 1286.9 |
| 42.5° | 1187.7 | 1201.4 | 1209.8 | 1215.1 |
| 45°   | 1087.4 | 1101.1 | 1110.6 | 1117.0 |
| 47.5° | 983.9  | 995.5  | 1005.0 | 1004.0 |
| 50°   | 890.0  | 896.3  | 900.5  | 904.7  |
| 52.5° | 794.9  | 794.9  | 796.0  | 796.0  |
| 55°   | 687.3  | 685.2  | 684.1  | 685.2  |
| 57.5° | 569.0  | 566.9  | 565.9  | 562.7  |
| 60°   | 461.3  | 455.0  | 450.8  | 450.8  |
| 62.5° | 361.0  | 353.7  | 350.5  | 349.4  |
| 65°   | 271.3  | 270.2  | 263.9  | 262.9  |
| 67.5° | 196.4  | 192.1  | 187.9  | 189.0  |
| 70°   | 138.3  | 132.0  | 132.0  | 129.9  |
| 72.5° | 89.7   | 86.6   | 85.5   | 85.5   |
| 75°   | 56.0   | 56.0   | 53.8   | 58.1   |
| 77.5° | 36.9   | 36.9   | 35.9   | 36.9   |
| 80°   | 22.2   | 22.2   | 22.2   | 21.1   |
| 82.5° | 13.7   | 14.8   | 13.7   | 13.7   |
| 85°   | 7.4    | 8.4    | 6.3    | 9.5    |
| 87.5° | 4.2    | 5.3    | 4.2    | 5.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)