

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: NEO-RAY

Report Number: P243173

Luminaire Tested: **S122DR-H1005D935-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-H1005D935-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3631.2 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

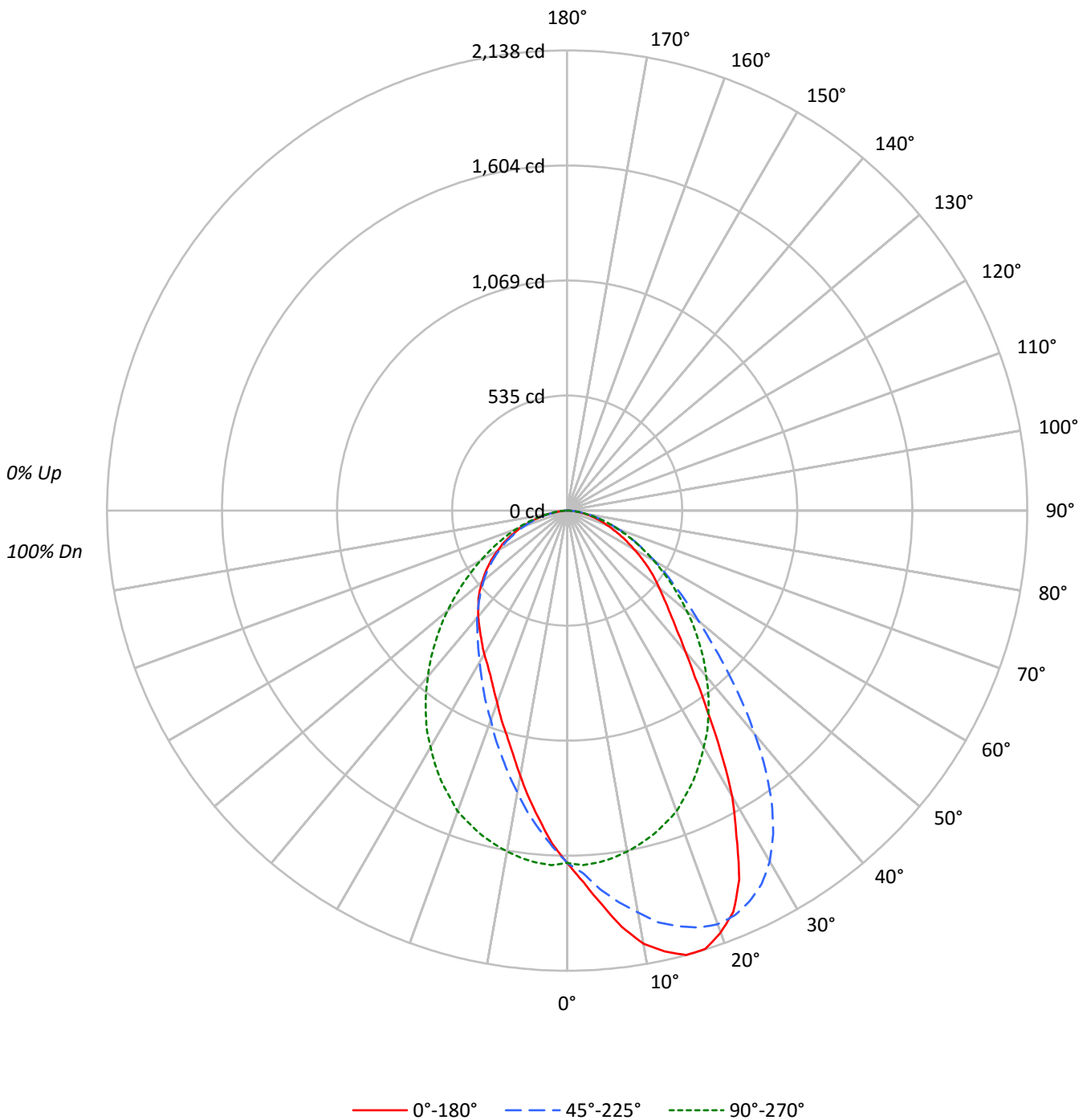
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243173

CATALOG NUMBER: S122DR-H1005D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243173

CATALOG NUMBER: S122DR-H1005D935-X4F0-XX-UDD-A-W

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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | | | | | 74 | | | | |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 66 | | | | | 63 | | | | |
| 4 | 86 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | | | | | 55 | | | | |
| 5 | 79 | 67 | 59 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | | | | | 49 | | | | |
| 6 | 73 | 61 | 52 | 46 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | | | | | 43 | | | | |
| 7 | 68 | 56 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | | | | | 39 | | | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | | | | | 35 | | | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 33 | | | | | 32 | | | | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 40 | 35 | 31 | | | | | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 31170 | 31170 | 31170 |
| 5° | 35111 | 31394 | 27652 |
| 10° | 39523 | 31113 | 24200 |
| 15° | 42159 | 30694 | 21331 |
| 20° | 42279 | 30138 | 19249 |
| 25° | 39764 | 29136 | 17742 |
| 30° | 33755 | 27920 | 16944 |
| 35° | 26392 | 26615 | 16307 |
| 40° | 21202 | 25014 | 15993 |
| 45° | 18239 | 23363 | 15694 |
| 50° | 16547 | 21499 | 15255 |
| 55° | 15246 | 19590 | 14844 |
| 60° | 13703 | 17650 | 14168 |
| 65° | 12336 | 15860 | 13485 |
| 70° | 10994 | 14101 | 12614 |
| 75° | 9891 | 12121 | 11054 |
| 80° | 8633 | 9763 | 8633 |
| 85° | 7409 | 7278 | 4764 |



TEST NUMBER: P243173

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.9 | 4.3 |
| 10°-20° | 448.1 | 12.3 |
| 20°-30° | 651.6 | 17.9 |
| 30°-40° | 699.0 | 19.3 |
| 40°-50° | 626.5 | 17.3 |
| 50°-60° | 499.4 | 13.8 |
| 60°-70° | 337.8 | 9.3 |
| 70°-80° | 172.3 | 4.7 |
| 80°-90° | 40.4 | 1.1 |
| 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° | 1255.7 | 34.6 |
| 0°-40° | 1954.7 | 53.8 |
| 0°-60° | 3080.6 | 84.8 |
| 0°-90° | 3631.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3631.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1636 | 1636 | 1636 | 1636 | 1636 | |
| 5° | 1836 | 1766 | 1642 | 1487 | 1446 | 182 |
| 15° | 2138 | 1999 | 1556 | 1178 | 1082 | 599 |
| 25° | 1892 | 2004 | 1386 | 921 | 844 | 851 |
| 35° | 1135 | 1658 | 1145 | 725 | 701 | 719 |
| 45° | 677 | 1049 | 867 | 575 | 583 | 530 |
| 55° | 459 | 610 | 590 | 434 | 447 | 410 |
| 65° | 274 | 354 | 352 | 285 | 299 | 272 |
| 75° | 134 | 168 | 165 | 142 | 150 | 143 |
| 85° | 34 | 39 | 33 | 26 | 22 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243173

CATALOG NUMBER: S122DR-H1005D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 |
| 2.5° | 1727.3 | 1732.7 | 1727.9 | 1726.0 | 1722.4 | 1721.2 | 1711.5 | 1703.6 | 1698.8 | 1685.5 | 1686.7 |
| 5° | 1836.3 | 1848.4 | 1841.7 | 1841.1 | 1827.8 | 1819.3 | 1810.8 | 1798.7 | 1780.6 | 1766.0 | 1754.5 |
| 7.5° | 1951.3 | 1945.3 | 1943.5 | 1936.8 | 1927.1 | 1915.0 | 1896.2 | 1878.7 | 1855.6 | 1834.5 | 1818.7 |
| 10° | 2043.4 | 2041.6 | 2044.6 | 2027.6 | 2021.6 | 2002.8 | 1986.5 | 1959.2 | 1929.5 | 1896.2 | 1875.6 |
| 12.5° | 2097.9 | 2103.4 | 2107.6 | 2100.9 | 2086.4 | 2080.9 | 2053.7 | 2015.5 | 2005.2 | 1959.8 | 1935.0 |
| 15° | 2137.9 | 2140.3 | 2140.9 | 2133.6 | 2126.4 | 2112.4 | 2096.1 | 2071.9 | 2038.5 | 1999.2 | 1980.4 |
| 17.5° | 2135.5 | 2134.8 | 2138.5 | 2134.2 | 2130.0 | 2125.8 | 2113.0 | 2094.3 | 2068.2 | 2031.3 | 1999.8 |
| 20° | 2085.8 | 2096.7 | 2105.2 | 2107.0 | 2106.4 | 2108.8 | 2102.7 | 2090.6 | 2071.9 | 2045.2 | 2009.5 |
| 22.5° | 2018.0 | 2013.7 | 2031.9 | 2030.7 | 2038.5 | 2056.7 | 2064.6 | 2059.7 | 2052.5 | 2035.5 | 2007.1 |
| 25° | 1892.0 | 1896.2 | 1908.9 | 1922.3 | 1953.2 | 1964.1 | 1987.7 | 2005.8 | 2008.3 | 2004.0 | 1986.5 |
| 27.5° | 1703.0 | 1733.3 | 1740.0 | 1757.5 | 1800.5 | 1836.3 | 1884.1 | 1912.6 | 1953.2 | 1956.8 | 1948.9 |
| 30° | 1534.7 | 1533.5 | 1543.8 | 1575.2 | 1614.6 | 1668.5 | 1730.3 | 1803.6 | 1850.2 | 1882.3 | 1893.8 |
| 32.5° | 1327.5 | 1332.4 | 1359.0 | 1397.8 | 1437.8 | 1491.7 | 1563.1 | 1652.8 | 1715.1 | 1781.8 | 1819.3 |
| 35° | 1135.0 | 1150.1 | 1175.5 | 1202.2 | 1245.8 | 1319.7 | 1399.0 | 1473.5 | 1569.2 | 1658.2 | 1718.8 |
| 37.5° | 976.3 | 996.9 | 1016.2 | 1041.7 | 1084.1 | 1141.0 | 1212.5 | 1311.2 | 1406.3 | 1513.5 | 1602.5 |
| 40° | 852.7 | 860.6 | 873.9 | 898.8 | 927.2 | 984.1 | 1056.2 | 1130.1 | 1233.1 | 1356.0 | 1472.9 |
| 42.5° | 755.8 | 754.0 | 768.5 | 784.3 | 810.3 | 852.7 | 915.7 | 989.6 | 1092.0 | 1201.0 | 1319.1 |
| 45° | 677.1 | 677.7 | 683.8 | 700.1 | 720.7 | 744.9 | 793.4 | 863.0 | 940.5 | 1049.0 | 1174.3 |
| 47.5° | 612.9 | 614.7 | 623.8 | 635.3 | 647.4 | 669.8 | 701.9 | 747.3 | 820.0 | 910.9 | 1028.4 |
| 50° | 558.4 | 561.4 | 567.5 | 576.0 | 585.0 | 600.8 | 625.0 | 660.7 | 718.3 | 795.2 | 901.8 |
| 52.5° | 509.9 | 511.2 | 513.0 | 520.8 | 528.1 | 542.6 | 560.8 | 588.7 | 634.1 | 698.3 | 781.3 |
| 55° | 459.1 | 457.9 | 462.1 | 468.8 | 475.4 | 485.7 | 504.5 | 526.9 | 559.0 | 609.9 | 678.3 |
| 57.5° | 407.0 | 408.8 | 411.8 | 415.5 | 427.6 | 438.5 | 452.4 | 473.0 | 498.4 | 538.4 | 595.3 |
| 60° | 359.7 | 359.7 | 363.4 | 368.2 | 376.1 | 383.4 | 396.7 | 415.5 | 437.9 | 468.8 | 516.6 |
| 62.5° | 313.7 | 316.1 | 319.8 | 322.2 | 329.5 | 338.5 | 348.8 | 363.4 | 384.0 | 408.8 | 444.5 |
| 65° | 273.7 | 272.5 | 276.2 | 281.0 | 286.5 | 292.5 | 304.0 | 316.1 | 331.9 | 354.3 | 384.0 |
| 67.5° | 232.6 | 236.2 | 237.4 | 239.8 | 244.1 | 251.9 | 257.4 | 270.1 | 282.8 | 302.8 | 327.6 |
| 70° | 197.4 | 199.9 | 201.7 | 204.7 | 208.3 | 212.0 | 217.4 | 227.7 | 240.4 | 254.4 | 271.9 |
| 72.5° | 165.9 | 167.8 | 165.9 | 169.0 | 170.8 | 174.4 | 181.7 | 186.5 | 196.2 | 208.3 | 224.1 |
| 75° | 134.4 | 135.7 | 135.1 | 138.1 | 138.7 | 142.3 | 146.0 | 150.2 | 161.1 | 167.8 | 178.7 |
| 77.5° | 105.4 | 106.6 | 107.2 | 108.4 | 109.6 | 111.4 | 113.3 | 117.5 | 123.5 | 129.6 | 138.1 |
| 80° | 78.7 | 78.7 | 80.5 | 81.2 | 81.8 | 83.0 | 86.0 | 87.2 | 91.5 | 93.3 | 99.9 |
| 82.5° | 54.5 | 55.1 | 55.7 | 55.7 | 56.3 | 57.5 | 58.1 | 60.6 | 61.8 | 64.8 | 67.8 |
| 85° | 33.9 | 34.5 | 34.5 | 34.5 | 36.3 | 35.7 | 35.7 | 36.9 | 38.8 | 38.8 | 40.0 |
| 87.5° | 17.0 | 17.6 | 17.6 | 17.6 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 19.4 | 18.8 |
| 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: P243173

CATALOG NUMBER: S122DR-H1005D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 |
| 2.5° | 1686.1 | 1685.5 | 1683.0 | 1672.1 | 1663.7 | 1652.8 | 1650.9 | 1649.1 | 1634.0 | 1617.6 | 1612.8 |
| 5° | 1745.4 | 1734.5 | 1719.4 | 1701.2 | 1683.0 | 1663.1 | 1651.6 | 1641.9 | 1618.8 | 1593.4 | 1578.9 |
| 7.5° | 1803.6 | 1782.4 | 1758.7 | 1730.3 | 1700.0 | 1667.9 | 1647.3 | 1627.9 | 1596.4 | 1563.1 | 1543.1 |
| 10° | 1853.2 | 1824.8 | 1792.1 | 1754.5 | 1712.7 | 1669.1 | 1638.8 | 1608.6 | 1568.6 | 1528.0 | 1501.4 |
| 12.5° | 1894.4 | 1858.1 | 1815.1 | 1764.2 | 1726.0 | 1666.1 | 1623.7 | 1583.7 | 1539.5 | 1486.8 | 1457.8 |
| 15° | 1925.9 | 1890.2 | 1832.0 | 1780.6 | 1730.3 | 1650.3 | 1598.9 | 1556.5 | 1497.1 | 1445.6 | 1399.6 |
| 17.5° | 1964.1 | 1913.2 | 1855.6 | 1781.8 | 1726.0 | 1634.6 | 1576.5 | 1521.3 | 1457.1 | 1396.6 | 1345.7 |
| 20° | 1981.0 | 1927.7 | 1865.9 | 1783.6 | 1712.7 | 1617.6 | 1540.1 | 1486.8 | 1409.3 | 1339.7 | 1282.1 |
| 22.5° | 1983.4 | 1932.6 | 1865.3 | 1778.1 | 1689.7 | 1592.8 | 1503.8 | 1434.1 | 1356.6 | 1282.7 | 1217.9 |
| 25° | 1973.1 | 1924.7 | 1855.0 | 1768.4 | 1664.3 | 1566.2 | 1466.8 | 1386.3 | 1296.7 | 1220.3 | 1154.3 |
| 27.5° | 1945.3 | 1905.9 | 1839.9 | 1747.2 | 1638.2 | 1525.0 | 1416.6 | 1328.8 | 1240.3 | 1153.7 | 1090.7 |
| 30° | 1900.5 | 1874.4 | 1817.5 | 1719.4 | 1604.9 | 1480.2 | 1371.8 | 1269.4 | 1173.7 | 1092.6 | 1024.7 |
| 32.5° | 1842.9 | 1830.2 | 1783.0 | 1686.1 | 1571.0 | 1431.1 | 1317.9 | 1212.5 | 1108.3 | 1031.4 | 961.7 |
| 35° | 1769.7 | 1776.3 | 1736.3 | 1648.5 | 1528.0 | 1381.4 | 1254.9 | 1144.6 | 1042.9 | 961.1 | 896.9 |
| 37.5° | 1674.6 | 1707.3 | 1681.8 | 1599.5 | 1472.9 | 1331.2 | 1188.9 | 1078.0 | 971.4 | 892.7 | 836.4 |
| 40° | 1568.0 | 1625.5 | 1613.4 | 1544.4 | 1413.5 | 1272.4 | 1125.3 | 1006.0 | 901.8 | 827.3 | 773.4 |
| 42.5° | 1442.6 | 1526.2 | 1539.5 | 1477.1 | 1354.8 | 1199.1 | 1053.8 | 938.7 | 838.2 | 764.9 | 713.4 |
| 45° | 1302.1 | 1405.7 | 1450.5 | 1401.4 | 1286.4 | 1128.3 | 980.5 | 867.3 | 767.9 | 705.6 | 662.6 |
| 47.5° | 1161.0 | 1285.8 | 1346.3 | 1322.7 | 1206.4 | 1052.6 | 907.8 | 797.0 | 703.1 | 648.6 | 608.1 |
| 50° | 1021.7 | 1155.5 | 1244.0 | 1228.2 | 1127.7 | 980.5 | 834.6 | 725.5 | 639.5 | 589.3 | 554.8 |
| 52.5° | 899.4 | 1025.9 | 1122.2 | 1130.1 | 1039.9 | 898.1 | 757.0 | 655.9 | 582.6 | 537.2 | 508.1 |
| 55° | 778.8 | 896.3 | 1001.7 | 1021.1 | 947.8 | 811.5 | 685.6 | 589.9 | 523.3 | 485.7 | 462.1 |
| 57.5° | 671.0 | 777.6 | 882.4 | 916.3 | 857.0 | 734.0 | 608.7 | 524.5 | 466.9 | 437.9 | 417.3 |
| 60° | 579.6 | 675.9 | 766.1 | 800.6 | 760.1 | 648.0 | 538.4 | 463.3 | 415.5 | 389.4 | 373.1 |
| 62.5° | 499.6 | 574.1 | 654.1 | 692.2 | 665.0 | 567.5 | 471.8 | 405.2 | 366.4 | 344.0 | 331.3 |
| 65° | 427.6 | 485.1 | 548.1 | 592.3 | 562.0 | 489.3 | 409.4 | 351.9 | 319.2 | 298.6 | 289.5 |
| 67.5° | 361.0 | 408.8 | 459.1 | 494.2 | 479.1 | 413.0 | 345.8 | 301.0 | 273.7 | 258.0 | 249.5 |
| 70° | 300.4 | 336.1 | 376.7 | 404.0 | 393.1 | 342.2 | 288.9 | 253.2 | 230.1 | 219.2 | 212.0 |
| 72.5° | 246.5 | 269.5 | 300.4 | 322.8 | 311.3 | 275.6 | 237.4 | 208.9 | 192.0 | 179.3 | 173.8 |
| 75° | 195.6 | 215.6 | 237.4 | 252.5 | 243.5 | 216.8 | 186.5 | 164.7 | 153.2 | 145.4 | 141.7 |
| 77.5° | 148.4 | 164.1 | 179.3 | 186.5 | 182.3 | 162.9 | 142.3 | 125.4 | 115.7 | 110.8 | 106.6 |
| 80° | 106.6 | 115.7 | 126.0 | 132.6 | 130.2 | 116.9 | 102.4 | 89.0 | 84.8 | 78.7 | 77.5 |
| 82.5° | 71.5 | 78.7 | 81.2 | 84.2 | 82.4 | 76.3 | 66.0 | 58.1 | 54.5 | 51.5 | 50.9 |
| 85° | 42.4 | 44.2 | 47.2 | 47.2 | 45.4 | 41.2 | 35.7 | 33.3 | 29.7 | 29.1 | 27.3 |
| 87.5° | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 | 17.6 | 15.1 | 13.9 | 12.7 | 12.1 | 11.5 |
| 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: P243173

CATALOG NUMBER: S122DR-H1005D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 | 1636.4 |
| 2.5° | 1608.6 | 1602.5 | 1594.0 | 1584.3 | 1575.8 | 1562.5 | 1558.3 | 1558.3 | 1561.3 | 1557.7 | 1554.7 |
| 5° | 1566.8 | 1554.7 | 1542.5 | 1523.8 | 1508.0 | 1486.8 | 1480.8 | 1474.7 | 1474.1 | 1468.0 | 1460.2 |
| 7.5° | 1521.9 | 1503.8 | 1478.9 | 1452.3 | 1435.3 | 1412.3 | 1399.6 | 1396.0 | 1384.5 | 1373.6 | 1360.9 |
| 10° | 1469.9 | 1442.0 | 1412.3 | 1386.9 | 1360.2 | 1330.6 | 1315.4 | 1305.1 | 1293.6 | 1280.3 | 1271.2 |
| 12.5° | 1406.9 | 1375.4 | 1348.1 | 1318.5 | 1296.0 | 1254.3 | 1249.4 | 1236.1 | 1213.1 | 1193.1 | 1185.8 |
| 15° | 1368.1 | 1313.0 | 1282.1 | 1254.9 | 1220.9 | 1177.9 | 1162.2 | 1147.7 | 1125.9 | 1113.1 | 1102.9 |
| 17.5° | 1299.7 | 1250.0 | 1211.3 | 1174.9 | 1142.2 | 1108.9 | 1085.3 | 1073.2 | 1055.6 | 1044.7 | 1034.4 |
| 20° | 1237.3 | 1183.4 | 1142.8 | 1100.4 | 1066.5 | 1036.2 | 1016.2 | 1001.1 | 992.0 | 981.1 | 970.8 |
| 22.5° | 1174.3 | 1118.0 | 1079.2 | 1036.2 | 996.3 | 978.1 | 954.5 | 941.8 | 929.6 | 921.2 | 910.3 |
| 25° | 1101.0 | 1056.2 | 1007.8 | 974.5 | 939.3 | 920.6 | 898.1 | 886.0 | 876.3 | 866.7 | 861.2 |
| 27.5° | 1035.6 | 990.2 | 945.4 | 912.1 | 882.4 | 864.2 | 850.3 | 838.8 | 826.7 | 819.4 | 815.2 |
| 30° | 967.8 | 926.0 | 886.6 | 854.5 | 831.5 | 811.5 | 803.1 | 792.2 | 783.1 | 780.1 | 773.4 |
| 32.5° | 907.2 | 860.6 | 829.1 | 800.0 | 780.7 | 766.7 | 760.7 | 749.2 | 747.3 | 744.3 | 740.7 |
| 35° | 846.7 | 806.7 | 776.4 | 751.6 | 735.2 | 724.9 | 717.1 | 714.0 | 711.0 | 708.0 | 705.0 |
| 37.5° | 786.7 | 755.2 | 726.8 | 706.8 | 693.4 | 685.6 | 683.8 | 677.7 | 677.1 | 672.9 | 672.9 |
| 40° | 732.8 | 700.7 | 680.7 | 665.0 | 654.1 | 650.4 | 645.6 | 644.4 | 642.6 | 641.4 | 643.8 |
| 42.5° | 678.9 | 657.1 | 640.2 | 623.8 | 615.3 | 612.3 | 611.1 | 609.3 | 608.1 | 611.7 | 612.9 |
| 45° | 628.6 | 609.9 | 595.3 | 583.8 | 579.0 | 575.3 | 575.3 | 577.2 | 576.6 | 578.4 | 578.4 |
| 47.5° | 582.0 | 565.1 | 552.9 | 548.7 | 542.6 | 541.4 | 542.0 | 541.4 | 544.5 | 546.9 | 549.3 |
| 50° | 537.8 | 522.7 | 513.0 | 508.7 | 507.5 | 505.7 | 508.1 | 509.3 | 511.2 | 513.6 | 514.8 |
| 52.5° | 488.7 | 481.5 | 475.4 | 471.2 | 470.6 | 471.2 | 470.6 | 474.8 | 476.6 | 480.3 | 479.7 |
| 55° | 447.0 | 441.5 | 437.3 | 432.4 | 431.8 | 433.6 | 434.8 | 438.5 | 440.9 | 443.9 | 443.3 |
| 57.5° | 407.6 | 403.3 | 398.5 | 397.3 | 396.7 | 397.3 | 402.7 | 402.1 | 405.8 | 408.2 | 409.4 |
| 60° | 364.6 | 361.6 | 357.3 | 357.3 | 359.1 | 360.3 | 362.2 | 365.2 | 368.8 | 368.2 | 372.5 |
| 62.5° | 325.2 | 321.6 | 320.4 | 322.2 | 321.6 | 324.6 | 326.4 | 326.4 | 331.3 | 333.1 | 334.3 |
| 65° | 285.9 | 284.6 | 282.8 | 282.8 | 284.6 | 285.3 | 288.3 | 290.1 | 291.9 | 295.5 | 298.6 |
| 67.5° | 248.9 | 245.9 | 245.9 | 244.7 | 247.1 | 248.9 | 250.7 | 253.2 | 254.4 | 258.6 | 260.4 |
| 70° | 210.2 | 208.9 | 208.3 | 209.5 | 209.5 | 211.4 | 214.4 | 217.4 | 219.8 | 220.4 | 224.1 |
| 72.5° | 172.6 | 172.6 | 172.6 | 174.4 | 175.6 | 177.4 | 178.1 | 180.5 | 184.1 | 184.7 | 186.5 |
| 75° | 138.7 | 139.3 | 138.7 | 139.3 | 139.9 | 141.7 | 142.9 | 145.4 | 147.8 | 148.4 | 149.6 |
| 77.5° | 107.2 | 106.0 | 104.8 | 106.6 | 107.8 | 111.4 | 110.8 | 112.0 | 114.5 | 113.3 | 114.5 |
| 80° | 75.1 | 76.9 | 74.5 | 78.1 | 78.1 | 77.5 | 78.7 | 80.5 | 79.9 | 81.2 | 79.9 |
| 82.5° | 50.9 | 49.1 | 49.1 | 50.9 | 51.5 | 49.7 | 50.9 | 51.5 | 52.1 | 50.9 | 50.3 |
| 85° | 27.9 | 27.3 | 28.5 | 26.6 | 27.3 | 26.0 | 26.0 | 24.8 | 26.0 | 24.8 | 23.6 |
| 87.5° | 10.3 | 9.7 | 10.3 | 8.5 | 7.9 | 7.3 | 6.7 | 6.7 | 5.5 | 5.5 | 5.5 |
| 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: P243173

CATALOG NUMBER: S122DR-H1005D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1636.4 | 1636.4 | 1636.4 | 1636.4 |
| 2.5° | 1558.9 | 1552.2 | 1549.2 | 1551.6 |
| 5° | 1451.7 | 1453.5 | 1442.6 | 1446.2 |
| 7.5° | 1359.0 | 1351.2 | 1353.6 | 1349.3 |
| 10° | 1260.9 | 1256.7 | 1250.0 | 1251.2 |
| 12.5° | 1194.9 | 1166.4 | 1164.6 | 1159.2 |
| 15° | 1102.2 | 1086.5 | 1082.9 | 1081.7 |
| 17.5° | 1028.4 | 1015.0 | 1019.9 | 1016.2 |
| 20° | 961.7 | 962.3 | 954.5 | 949.6 |
| 22.5° | 903.0 | 901.8 | 898.8 | 893.9 |
| 25° | 853.3 | 853.3 | 846.1 | 844.2 |
| 27.5° | 807.9 | 809.1 | 803.1 | 803.1 |
| 30° | 774.0 | 769.8 | 769.1 | 770.4 |
| 32.5° | 740.1 | 735.2 | 735.8 | 735.2 |
| 35° | 703.7 | 705.0 | 703.1 | 701.3 |
| 37.5° | 672.9 | 672.9 | 672.9 | 671.0 |
| 40° | 642.6 | 643.8 | 642.0 | 643.2 |
| 42.5° | 612.3 | 612.9 | 612.9 | 610.5 |
| 45° | 582.0 | 581.4 | 580.2 | 582.6 |
| 47.5° | 550.5 | 550.5 | 549.9 | 551.1 |
| 50° | 516.0 | 517.2 | 515.4 | 514.8 |
| 52.5° | 480.9 | 481.5 | 480.9 | 482.1 |
| 55° | 445.1 | 445.1 | 445.7 | 447.0 |
| 57.5° | 408.2 | 412.4 | 409.4 | 411.8 |
| 60° | 371.9 | 372.5 | 373.1 | 371.9 |
| 62.5° | 337.3 | 336.7 | 337.3 | 339.2 |
| 65° | 299.8 | 301.0 | 300.4 | 299.2 |
| 67.5° | 262.8 | 261.6 | 263.4 | 261.6 |
| 70° | 223.5 | 225.9 | 224.1 | 226.5 |
| 72.5° | 187.7 | 187.1 | 188.4 | 185.3 |
| 75° | 150.2 | 150.2 | 150.8 | 150.2 |
| 77.5° | 115.1 | 113.9 | 113.3 | 111.4 |
| 80° | 79.3 | 79.3 | 76.9 | 78.7 |
| 82.5° | 48.5 | 49.1 | 49.7 | 46.0 |
| 85° | 23.0 | 23.0 | 22.4 | 21.8 |
| 87.5° | 4.8 | 4.8 | 5.5 | 6.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)