

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: P243157

Luminaire Tested: **S122DR-H865D835-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243157
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-H865D835-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3610.2 lumens
Efficiency: N/A
Efficacy: 114.6 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

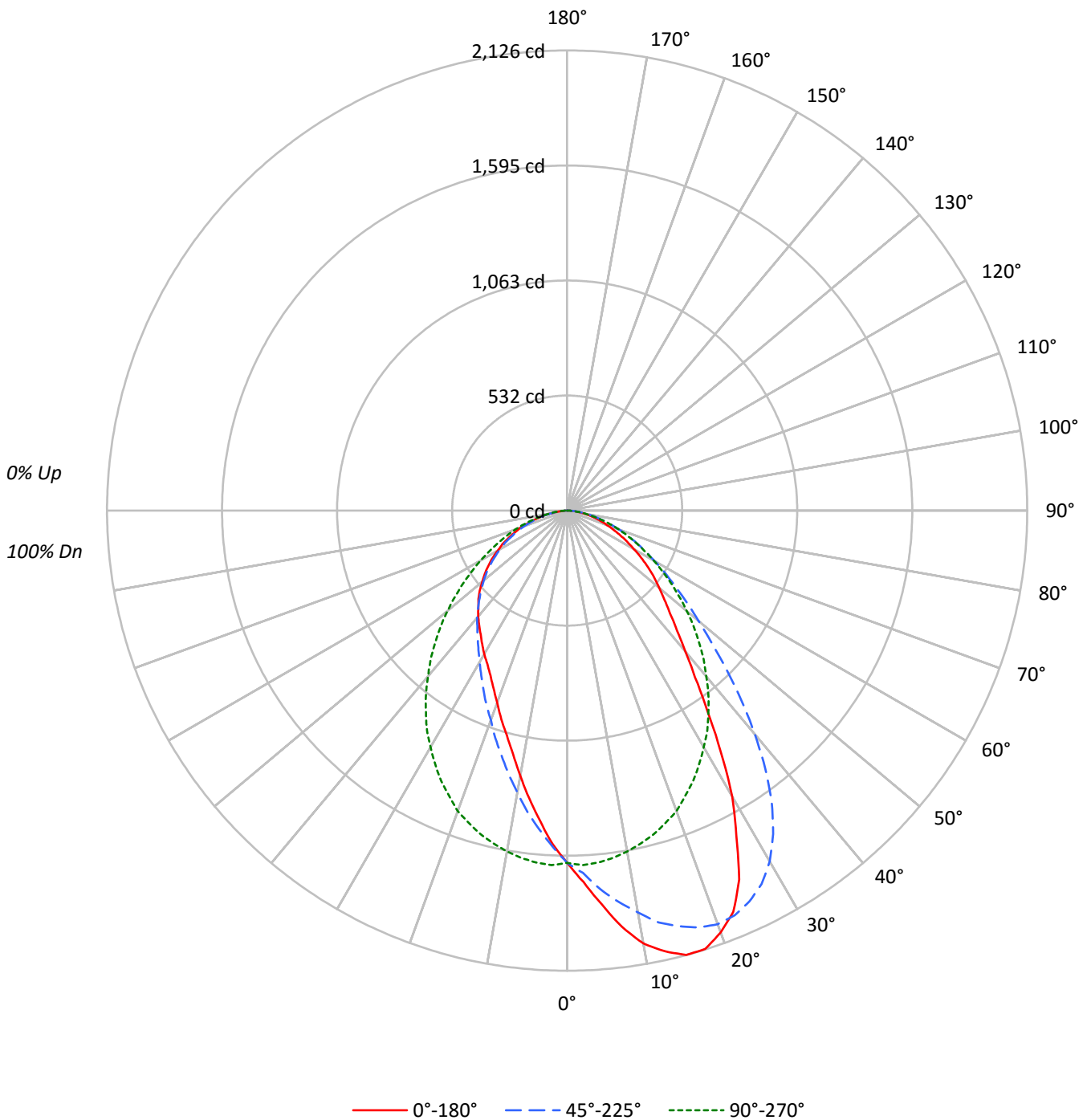
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243157

CATALOG NUMBER: S122DR-H865D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243157

CATALOG NUMBER: S122DR-H865D835-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 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° | 30991 | 30991 | 30991 |
| 5° | 34908 | 31212 | 27493 |
| 10° | 39294 | 30933 | 24061 |
| 15° | 41914 | 30516 | 21207 |
| 20° | 42034 | 29963 | 19137 |
| 25° | 39535 | 28967 | 17642 |
| 30° | 33559 | 27759 | 16846 |
| 35° | 26239 | 26462 | 16214 |
| 40° | 21081 | 24868 | 15901 |
| 45° | 18134 | 23228 | 15602 |
| 50° | 16452 | 21377 | 15166 |
| 55° | 15156 | 19477 | 14758 |
| 60° | 13627 | 17547 | 14084 |
| 65° | 12268 | 15766 | 13409 |
| 70° | 10932 | 14018 | 12542 |
| 75° | 9840 | 12055 | 10988 |
| 80° | 8589 | 9708 | 8589 |
| 85° | 7365 | 7234 | 4742 |



TEST NUMBER: P243157

CATALOG NUMBER: S122DR-H865D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.0 | 4.3 |
| 10°-20° | 445.5 | 12.3 |
| 20°-30° | 647.9 | 17.9 |
| 30°-40° | 695.0 | 19.3 |
| 40°-50° | 622.9 | 17.3 |
| 50°-60° | 496.6 | 13.8 |
| 60°-70° | 335.9 | 9.3 |
| 70°-80° | 171.3 | 4.7 |
| 80°-90° | 40.1 | 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° | 1248.4 | 34.6 |
| 0°-40° | 1943.4 | 53.8 |
| 0°-60° | 3062.8 | 84.8 |
| 0°-90° | 3610.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3610.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1627 | 1627 | 1627 | 1627 | 1627 | |
| 5° | 1826 | 1756 | 1632 | 1478 | 1438 | 181 |
| 15° | 2126 | 1988 | 1548 | 1171 | 1075 | 595 |
| 25° | 1881 | 1992 | 1378 | 915 | 839 | 846 |
| 35° | 1128 | 1649 | 1138 | 721 | 697 | 715 |
| 45° | 673 | 1043 | 862 | 572 | 579 | 527 |
| 55° | 456 | 606 | 586 | 431 | 444 | 407 |
| 65° | 272 | 352 | 350 | 284 | 298 | 270 |
| 75° | 134 | 167 | 164 | 141 | 149 | 143 |
| 85° | 34 | 38 | 33 | 26 | 22 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243157

CATALOG NUMBER: S122DR-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 |
| 2.5° | 1717.3 | 1722.7 | 1717.9 | 1716.1 | 1712.5 | 1711.3 | 1701.6 | 1693.8 | 1689.0 | 1675.7 | 1676.9 |
| 5° | 1825.7 | 1837.7 | 1831.1 | 1830.5 | 1817.2 | 1808.8 | 1800.4 | 1788.3 | 1770.3 | 1755.8 | 1744.4 |
| 7.5° | 1940.1 | 1934.0 | 1932.2 | 1925.6 | 1916.0 | 1903.9 | 1885.3 | 1867.8 | 1844.9 | 1823.9 | 1808.2 |
| 10° | 2031.6 | 2029.8 | 2032.8 | 2015.9 | 2009.9 | 1991.2 | 1975.0 | 1947.9 | 1918.4 | 1885.3 | 1864.8 |
| 12.5° | 2085.8 | 2091.2 | 2095.4 | 2088.8 | 2074.3 | 2068.9 | 2041.8 | 2003.9 | 1993.7 | 1948.5 | 1923.8 |
| 15° | 2125.5 | 2127.9 | 2128.5 | 2121.3 | 2114.1 | 2100.2 | 2084.0 | 2059.9 | 2026.8 | 1987.6 | 1969.0 |
| 17.5° | 2123.1 | 2122.5 | 2126.1 | 2121.9 | 2117.7 | 2113.5 | 2100.8 | 2082.2 | 2056.3 | 2019.5 | 1988.2 |
| 20° | 2073.7 | 2084.6 | 2093.0 | 2094.8 | 2094.2 | 2096.6 | 2090.6 | 2078.6 | 2059.9 | 2033.4 | 1997.9 |
| 22.5° | 2006.3 | 2002.1 | 2020.1 | 2018.9 | 2026.8 | 2044.8 | 2052.7 | 2047.8 | 2040.6 | 2023.8 | 1995.5 |
| 25° | 1881.1 | 1885.3 | 1897.9 | 1911.2 | 1941.9 | 1952.7 | 1976.2 | 1994.3 | 1996.7 | 1992.4 | 1975.0 |
| 27.5° | 1693.2 | 1723.3 | 1729.9 | 1747.4 | 1790.1 | 1825.7 | 1873.2 | 1901.5 | 1941.9 | 1945.5 | 1937.7 |
| 30° | 1525.8 | 1524.6 | 1534.8 | 1566.1 | 1605.3 | 1658.9 | 1720.3 | 1793.1 | 1839.5 | 1871.4 | 1882.9 |
| 32.5° | 1319.9 | 1324.7 | 1351.2 | 1389.7 | 1429.5 | 1483.0 | 1554.1 | 1643.2 | 1705.2 | 1771.5 | 1808.8 |
| 35° | 1128.4 | 1143.4 | 1168.7 | 1195.2 | 1238.6 | 1312.0 | 1390.9 | 1465.0 | 1560.1 | 1648.6 | 1708.8 |
| 37.5° | 970.6 | 991.1 | 1010.4 | 1035.7 | 1077.8 | 1134.4 | 1205.5 | 1303.6 | 1398.1 | 1504.7 | 1593.2 |
| 40° | 847.8 | 855.6 | 868.9 | 893.6 | 921.9 | 978.5 | 1050.1 | 1123.6 | 1225.9 | 1348.2 | 1464.4 |
| 42.5° | 751.5 | 749.7 | 764.1 | 779.8 | 805.7 | 847.8 | 910.4 | 983.9 | 1085.6 | 1194.0 | 1311.4 |
| 45° | 673.2 | 673.8 | 679.8 | 696.1 | 716.5 | 740.6 | 788.8 | 858.0 | 935.1 | 1042.9 | 1167.5 |
| 47.5° | 609.4 | 611.2 | 620.2 | 631.6 | 643.7 | 666.0 | 697.9 | 743.0 | 815.3 | 905.6 | 1022.4 |
| 50° | 555.2 | 558.2 | 564.2 | 572.6 | 581.7 | 597.3 | 621.4 | 656.9 | 714.1 | 790.6 | 896.6 |
| 52.5° | 507.0 | 508.2 | 510.0 | 517.8 | 525.1 | 539.5 | 557.6 | 585.3 | 630.4 | 694.3 | 776.7 |
| 55° | 456.4 | 455.2 | 459.4 | 466.0 | 472.7 | 482.9 | 501.6 | 523.9 | 555.8 | 606.3 | 674.4 |
| 57.5° | 404.6 | 406.4 | 409.4 | 413.1 | 425.1 | 435.9 | 449.8 | 470.3 | 495.6 | 535.3 | 591.9 |
| 60° | 357.7 | 357.7 | 361.3 | 366.1 | 373.9 | 381.1 | 394.4 | 413.1 | 435.3 | 466.0 | 513.6 |
| 62.5° | 311.9 | 314.3 | 317.9 | 320.3 | 327.6 | 336.6 | 346.8 | 361.3 | 381.8 | 406.4 | 442.0 |
| 65° | 272.2 | 271.0 | 274.6 | 279.4 | 284.8 | 290.8 | 302.3 | 314.3 | 330.0 | 352.2 | 381.8 |
| 67.5° | 231.2 | 234.8 | 236.0 | 238.4 | 242.7 | 250.5 | 255.9 | 268.6 | 281.2 | 301.1 | 325.8 |
| 70° | 196.3 | 198.7 | 200.5 | 203.5 | 207.1 | 210.7 | 216.2 | 226.4 | 239.0 | 252.9 | 270.4 |
| 72.5° | 165.0 | 166.8 | 165.0 | 168.0 | 169.8 | 173.4 | 180.6 | 185.5 | 195.1 | 207.1 | 222.8 |
| 75° | 133.7 | 134.9 | 134.3 | 137.3 | 137.9 | 141.5 | 145.1 | 149.3 | 160.2 | 166.8 | 177.6 |
| 77.5° | 104.8 | 106.0 | 106.6 | 107.8 | 109.0 | 110.8 | 112.6 | 116.8 | 122.8 | 128.9 | 137.3 |
| 80° | 78.3 | 78.3 | 80.1 | 80.7 | 81.3 | 82.5 | 85.5 | 86.7 | 90.9 | 92.7 | 99.4 |
| 82.5° | 54.2 | 54.8 | 55.4 | 55.4 | 56.0 | 57.2 | 57.8 | 60.2 | 61.4 | 64.4 | 67.4 |
| 85° | 33.7 | 34.3 | 34.3 | 34.3 | 36.1 | 35.5 | 35.5 | 36.7 | 38.5 | 38.5 | 39.7 |
| 87.5° | 16.9 | 17.5 | 17.5 | 17.5 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 19.3 | 18.7 |
| 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: P243157

CATALOG NUMBER: S122DR-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 |
| 2.5° | 1676.3 | 1675.7 | 1673.3 | 1662.5 | 1654.1 | 1643.2 | 1641.4 | 1639.6 | 1624.5 | 1608.3 | 1603.5 |
| 5° | 1735.3 | 1724.5 | 1709.4 | 1691.4 | 1673.3 | 1653.4 | 1642.0 | 1632.4 | 1609.5 | 1584.2 | 1569.8 |
| 7.5° | 1793.1 | 1772.1 | 1748.6 | 1720.3 | 1690.2 | 1658.3 | 1637.8 | 1618.5 | 1587.2 | 1554.1 | 1534.2 |
| 10° | 1842.5 | 1814.2 | 1781.7 | 1744.4 | 1702.8 | 1659.5 | 1629.4 | 1599.3 | 1559.5 | 1519.2 | 1492.7 |
| 12.5° | 1883.5 | 1847.3 | 1804.6 | 1754.0 | 1716.1 | 1656.5 | 1614.3 | 1574.6 | 1530.6 | 1478.2 | 1449.3 |
| 15° | 1914.8 | 1879.2 | 1821.4 | 1770.3 | 1720.3 | 1640.8 | 1589.6 | 1547.5 | 1488.5 | 1437.3 | 1391.5 |
| 17.5° | 1952.7 | 1902.1 | 1844.9 | 1771.5 | 1716.1 | 1625.1 | 1567.3 | 1512.6 | 1448.7 | 1388.5 | 1337.9 |
| 20° | 1969.6 | 1916.6 | 1855.2 | 1773.3 | 1702.8 | 1608.3 | 1531.2 | 1478.2 | 1401.2 | 1331.9 | 1274.7 |
| 22.5° | 1972.0 | 1921.4 | 1854.6 | 1767.9 | 1679.9 | 1583.6 | 1495.1 | 1425.8 | 1348.8 | 1275.3 | 1210.9 |
| 25° | 1961.7 | 1913.6 | 1844.3 | 1758.2 | 1654.7 | 1557.1 | 1458.4 | 1378.3 | 1289.2 | 1213.3 | 1147.7 |
| 27.5° | 1934.0 | 1894.9 | 1829.3 | 1737.1 | 1628.8 | 1516.2 | 1408.4 | 1321.1 | 1233.2 | 1147.1 | 1084.4 |
| 30° | 1889.5 | 1863.6 | 1807.0 | 1709.4 | 1595.6 | 1471.6 | 1363.8 | 1262.1 | 1166.9 | 1086.2 | 1018.8 |
| 32.5° | 1832.3 | 1819.6 | 1772.7 | 1676.3 | 1561.9 | 1422.8 | 1310.2 | 1205.5 | 1101.9 | 1025.4 | 956.2 |
| 35° | 1759.4 | 1766.0 | 1726.3 | 1639.0 | 1519.2 | 1373.5 | 1247.6 | 1138.0 | 1036.9 | 955.6 | 891.8 |
| 37.5° | 1664.9 | 1697.4 | 1672.1 | 1590.2 | 1464.4 | 1323.5 | 1182.0 | 1071.8 | 965.8 | 887.5 | 831.5 |
| 40° | 1558.9 | 1616.1 | 1604.1 | 1535.4 | 1405.4 | 1265.1 | 1118.8 | 1000.1 | 896.6 | 822.5 | 768.9 |
| 42.5° | 1434.3 | 1517.4 | 1530.6 | 1468.6 | 1347.0 | 1192.2 | 1047.7 | 933.3 | 833.3 | 760.5 | 709.3 |
| 45° | 1294.6 | 1397.5 | 1442.1 | 1393.3 | 1278.9 | 1121.8 | 974.8 | 862.3 | 763.5 | 701.5 | 658.7 |
| 47.5° | 1154.3 | 1278.3 | 1338.5 | 1315.1 | 1199.4 | 1046.5 | 902.6 | 792.4 | 699.1 | 644.9 | 604.5 |
| 50° | 1015.8 | 1148.9 | 1236.8 | 1221.1 | 1121.2 | 974.8 | 829.7 | 721.4 | 635.8 | 585.9 | 551.6 |
| 52.5° | 894.2 | 1020.0 | 1115.7 | 1123.6 | 1033.9 | 893.0 | 752.7 | 652.1 | 579.2 | 534.1 | 505.2 |
| 55° | 774.3 | 891.2 | 995.9 | 1015.2 | 942.3 | 806.9 | 681.6 | 586.5 | 520.2 | 482.9 | 459.4 |
| 57.5° | 667.2 | 773.1 | 877.3 | 911.0 | 852.0 | 729.8 | 605.1 | 521.4 | 464.2 | 435.3 | 414.9 |
| 60° | 576.2 | 672.0 | 761.7 | 796.0 | 755.7 | 644.3 | 535.3 | 460.6 | 413.1 | 387.2 | 370.9 |
| 62.5° | 496.8 | 570.8 | 650.3 | 688.2 | 661.1 | 564.2 | 469.1 | 402.8 | 364.3 | 342.0 | 329.4 |
| 65° | 425.1 | 482.3 | 544.9 | 588.9 | 558.8 | 486.5 | 407.0 | 349.8 | 317.3 | 296.9 | 287.8 |
| 67.5° | 358.9 | 406.4 | 456.4 | 491.3 | 476.3 | 410.7 | 343.8 | 299.3 | 272.2 | 256.5 | 248.1 |
| 70° | 298.7 | 334.2 | 374.5 | 401.6 | 390.8 | 340.2 | 287.2 | 251.7 | 228.8 | 218.0 | 210.7 |
| 72.5° | 245.1 | 267.9 | 298.7 | 320.9 | 309.5 | 274.0 | 236.0 | 207.7 | 190.9 | 178.2 | 172.8 |
| 75° | 194.5 | 214.4 | 236.0 | 251.1 | 242.1 | 215.6 | 185.5 | 163.8 | 152.3 | 144.5 | 140.9 |
| 77.5° | 147.5 | 163.2 | 178.2 | 185.5 | 181.2 | 162.0 | 141.5 | 124.6 | 115.0 | 110.2 | 106.0 |
| 80° | 106.0 | 115.0 | 125.2 | 131.9 | 129.5 | 116.2 | 101.8 | 88.5 | 84.3 | 78.3 | 77.1 |
| 82.5° | 71.1 | 78.3 | 80.7 | 83.7 | 81.9 | 75.9 | 65.6 | 57.8 | 54.2 | 51.2 | 50.6 |
| 85° | 42.1 | 44.0 | 47.0 | 47.0 | 45.2 | 40.9 | 35.5 | 33.1 | 29.5 | 28.9 | 27.1 |
| 87.5° | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 17.5 | 15.1 | 13.8 | 12.6 | 12.0 | 11.4 |
| 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: P243157

CATALOG NUMBER: S122DR-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 | 1627.0 |
| 2.5° | 1599.3 | 1593.2 | 1584.8 | 1575.2 | 1566.7 | 1553.5 | 1549.3 | 1549.3 | 1552.3 | 1548.7 | 1545.7 |
| 5° | 1557.7 | 1545.7 | 1533.6 | 1515.0 | 1499.3 | 1478.2 | 1472.2 | 1466.2 | 1465.6 | 1459.6 | 1451.7 |
| 7.5° | 1513.2 | 1495.1 | 1470.4 | 1443.9 | 1427.0 | 1404.2 | 1391.5 | 1387.9 | 1376.5 | 1365.6 | 1353.0 |
| 10° | 1461.4 | 1433.7 | 1404.2 | 1378.9 | 1352.4 | 1322.9 | 1307.8 | 1297.6 | 1286.2 | 1272.9 | 1263.9 |
| 12.5° | 1398.7 | 1367.4 | 1340.3 | 1310.8 | 1288.6 | 1247.0 | 1242.2 | 1228.9 | 1206.1 | 1186.2 | 1179.0 |
| 15° | 1360.2 | 1305.4 | 1274.7 | 1247.6 | 1213.9 | 1171.1 | 1155.5 | 1141.0 | 1119.4 | 1106.7 | 1096.5 |
| 17.5° | 1292.2 | 1242.8 | 1204.3 | 1168.1 | 1135.6 | 1102.5 | 1079.0 | 1067.0 | 1049.5 | 1038.7 | 1028.4 |
| 20° | 1230.2 | 1176.6 | 1136.2 | 1094.1 | 1060.4 | 1030.2 | 1010.4 | 995.3 | 986.3 | 975.5 | 965.2 |
| 22.5° | 1167.5 | 1111.5 | 1073.0 | 1030.2 | 990.5 | 972.4 | 949.0 | 936.3 | 924.3 | 915.8 | 905.0 |
| 25° | 1094.7 | 1050.1 | 1001.9 | 968.8 | 933.9 | 915.2 | 893.0 | 880.9 | 871.3 | 861.6 | 856.2 |
| 27.5° | 1029.6 | 984.5 | 939.9 | 906.8 | 877.3 | 859.2 | 845.4 | 834.0 | 821.9 | 814.7 | 810.5 |
| 30° | 962.2 | 920.7 | 881.5 | 849.6 | 826.7 | 806.9 | 798.4 | 787.6 | 778.6 | 775.5 | 768.9 |
| 32.5° | 902.0 | 855.6 | 824.3 | 795.4 | 776.1 | 762.3 | 756.3 | 744.8 | 743.0 | 740.0 | 736.4 |
| 35° | 841.8 | 802.0 | 771.9 | 747.2 | 731.0 | 720.7 | 712.9 | 709.9 | 706.9 | 703.9 | 700.9 |
| 37.5° | 782.2 | 750.9 | 722.6 | 702.7 | 689.4 | 681.6 | 679.8 | 673.8 | 673.2 | 669.0 | 669.0 |
| 40° | 728.6 | 696.7 | 676.8 | 661.1 | 650.3 | 646.7 | 641.9 | 640.7 | 638.9 | 637.7 | 640.1 |
| 42.5° | 675.0 | 653.3 | 636.5 | 620.2 | 611.8 | 608.8 | 607.5 | 605.7 | 604.5 | 608.2 | 609.4 |
| 45° | 625.0 | 606.3 | 591.9 | 580.5 | 575.6 | 572.0 | 572.0 | 573.8 | 573.2 | 575.0 | 575.0 |
| 47.5° | 578.6 | 561.8 | 549.7 | 545.5 | 539.5 | 538.3 | 538.9 | 538.3 | 541.3 | 543.7 | 546.1 |
| 50° | 534.7 | 519.6 | 510.0 | 505.8 | 504.6 | 502.8 | 505.2 | 506.4 | 508.2 | 510.6 | 511.8 |
| 52.5° | 485.9 | 478.7 | 472.7 | 468.5 | 467.9 | 468.5 | 467.9 | 472.1 | 473.9 | 477.5 | 476.9 |
| 55° | 444.4 | 439.0 | 434.7 | 429.9 | 429.3 | 431.1 | 432.3 | 435.9 | 438.4 | 441.4 | 440.8 |
| 57.5° | 405.2 | 401.0 | 396.2 | 395.0 | 394.4 | 395.0 | 400.4 | 399.8 | 403.4 | 405.8 | 407.0 |
| 60° | 362.5 | 359.5 | 355.3 | 355.3 | 357.1 | 358.3 | 360.1 | 363.1 | 366.7 | 366.1 | 370.3 |
| 62.5° | 323.3 | 319.7 | 318.5 | 320.3 | 319.7 | 322.7 | 324.5 | 324.5 | 329.4 | 331.2 | 332.4 |
| 65° | 284.2 | 283.0 | 281.2 | 281.2 | 283.0 | 283.6 | 286.6 | 288.4 | 290.2 | 293.8 | 296.9 |
| 67.5° | 247.5 | 244.5 | 244.5 | 243.3 | 245.7 | 247.5 | 249.3 | 251.7 | 252.9 | 257.1 | 258.9 |
| 70° | 208.9 | 207.7 | 207.1 | 208.3 | 208.3 | 210.1 | 213.2 | 216.2 | 218.6 | 219.2 | 222.8 |
| 72.5° | 171.6 | 171.6 | 171.6 | 173.4 | 174.6 | 176.4 | 177.0 | 179.4 | 183.0 | 183.6 | 185.5 |
| 75° | 137.9 | 138.5 | 137.9 | 138.5 | 139.1 | 140.9 | 142.1 | 144.5 | 146.9 | 147.5 | 148.7 |
| 77.5° | 106.6 | 105.4 | 104.2 | 106.0 | 107.2 | 110.8 | 110.2 | 111.4 | 113.8 | 112.6 | 113.8 |
| 80° | 74.7 | 76.5 | 74.1 | 77.7 | 77.7 | 77.1 | 78.3 | 80.1 | 79.5 | 80.7 | 79.5 |
| 82.5° | 50.6 | 48.8 | 48.8 | 50.6 | 51.2 | 49.4 | 50.6 | 51.2 | 51.8 | 50.6 | 50.0 |
| 85° | 27.7 | 27.1 | 28.3 | 26.5 | 27.1 | 25.9 | 25.9 | 24.7 | 25.9 | 24.7 | 23.5 |
| 87.5° | 10.2 | 9.6 | 10.2 | 8.4 | 7.8 | 7.2 | 6.6 | 6.6 | 5.4 | 5.4 | 5.4 |
| 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: P243157

CATALOG NUMBER: S122DR-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1627.0 | 1627.0 | 1627.0 | 1627.0 |
| 2.5° | 1549.9 | 1543.3 | 1540.2 | 1542.7 |
| 5° | 1443.3 | 1445.1 | 1434.3 | 1437.9 |
| 7.5° | 1351.2 | 1343.4 | 1345.8 | 1341.5 |
| 10° | 1253.6 | 1249.4 | 1242.8 | 1244.0 |
| 12.5° | 1188.0 | 1159.7 | 1157.9 | 1152.5 |
| 15° | 1095.9 | 1080.2 | 1076.6 | 1075.4 |
| 17.5° | 1022.4 | 1009.2 | 1014.0 | 1010.4 |
| 20° | 956.2 | 956.8 | 949.0 | 944.1 |
| 22.5° | 897.8 | 896.6 | 893.6 | 888.7 |
| 25° | 848.4 | 848.4 | 841.2 | 839.4 |
| 27.5° | 803.2 | 804.4 | 798.4 | 798.4 |
| 30° | 769.5 | 765.3 | 764.7 | 765.9 |
| 32.5° | 735.8 | 731.0 | 731.6 | 731.0 |
| 35° | 699.7 | 700.9 | 699.1 | 697.3 |
| 37.5° | 669.0 | 669.0 | 669.0 | 667.2 |
| 40° | 638.9 | 640.1 | 638.3 | 639.5 |
| 42.5° | 608.8 | 609.4 | 609.4 | 606.9 |
| 45° | 578.6 | 578.0 | 576.8 | 579.2 |
| 47.5° | 547.3 | 547.3 | 546.7 | 547.9 |
| 50° | 513.0 | 514.2 | 512.4 | 511.8 |
| 52.5° | 478.1 | 478.7 | 478.1 | 479.3 |
| 55° | 442.6 | 442.6 | 443.2 | 444.4 |
| 57.5° | 405.8 | 410.1 | 407.0 | 409.4 |
| 60° | 369.7 | 370.3 | 370.9 | 369.7 |
| 62.5° | 335.4 | 334.8 | 335.4 | 337.2 |
| 65° | 298.1 | 299.3 | 298.7 | 297.5 |
| 67.5° | 261.3 | 260.1 | 261.9 | 260.1 |
| 70° | 222.2 | 224.6 | 222.8 | 225.2 |
| 72.5° | 186.7 | 186.1 | 187.3 | 184.3 |
| 75° | 149.3 | 149.3 | 149.9 | 149.3 |
| 77.5° | 114.4 | 113.2 | 112.6 | 110.8 |
| 80° | 78.9 | 78.9 | 76.5 | 78.3 |
| 82.5° | 48.2 | 48.8 | 49.4 | 45.8 |
| 85° | 22.9 | 22.9 | 22.3 | 21.7 |
| 87.5° | 4.8 | 4.8 | 5.4 | 6.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)