

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: P334224

Luminaire Tested: **S124RDW-S1195D935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDW-S1195D935-4F0-1E-UDD-A
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1195 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4003.2 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Direct

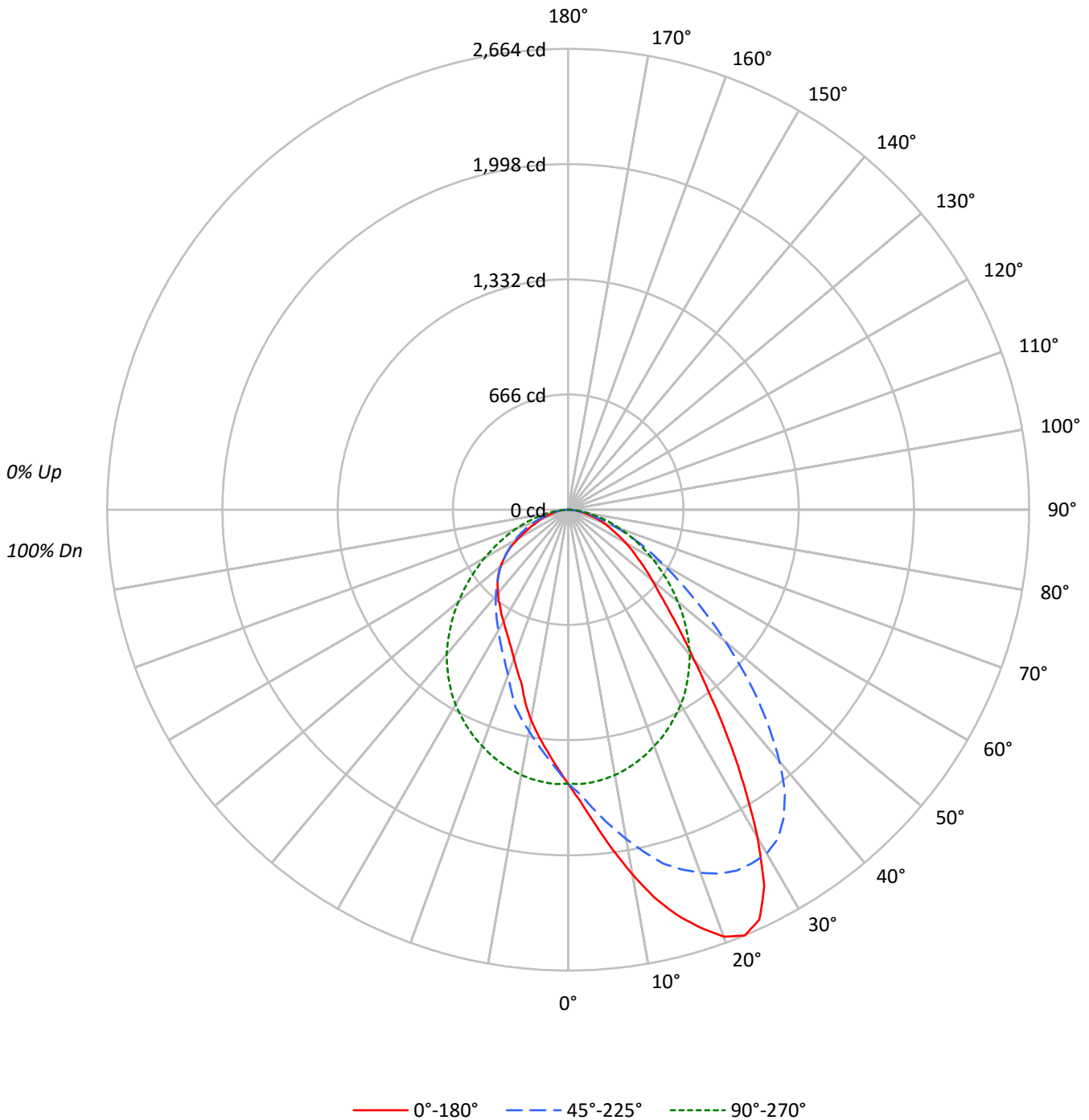
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334224

CATALOG NUMBER: S124RDW-S1195D935-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334224

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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 | 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 | 81 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 65 | 63 |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 65 | 59 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | 55 |
| 5 | 79 | 67 | 58 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 50 | 48 |
| 6 | 73 | 61 | 52 | 46 | 71 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 43 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 64 | 51 | 42 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 47 | 39 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 12784 | 12784 | 12784 |
| 5° | 14829 | 12823 | 11334 |
| 10° | 17543 | 12767 | 10116 |
| 15° | 20263 | 12649 | 8692 |
| 20° | 22562 | 12486 | 7860 |
| 25° | 23290 | 12327 | 7297 |
| 30° | 20389 | 12133 | 6959 |
| 35° | 15871 | 11847 | 6754 |
| 40° | 11901 | 11519 | 6643 |
| 45° | 9397 | 10992 | 6585 |
| 50° | 7934 | 10385 | 6395 |
| 55° | 6915 | 9717 | 6052 |
| 60° | 6223 | 9024 | 5357 |
| 65° | 5484 | 8275 | 4607 |
| 70° | 4940 | 7499 | 4157 |
| 75° | 4139 | 6647 | 3543 |
| 80° | 3501 | 5667 | 3324 |
| 85° | 2955 | 4437 | 2955 |



TEST NUMBER: P334224

CATALOG NUMBER: S124RDW-S1195D935-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.3 | 3.8 |
| 10°-20° | 463.1 | 11.6 |
| 20°-30° | 725.4 | 18.1 |
| 30°-40° | 805.5 | 20.1 |
| 40°-50° | 713.8 | 17.8 |
| 50°-60° | 556.3 | 13.9 |
| 60°-70° | 363.9 | 9.1 |
| 70°-80° | 178.5 | 4.5 |
| 80°-90° | 43.5 | 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° | 1341.7 | 33.5 |
| 0°-40° | 2147.3 | 53.6 |
| 0°-60° | 3417.3 | 85.4 |
| 0°-90° | 4003.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4003.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1584 | 1584 | 1584 | 1584 | 1584 | |
| 5° | 1830 | 1742 | 1582 | 1432 | 1399 | 184 |
| 15° | 2424 | 2117 | 1513 | 1179 | 1040 | 690 |
| 25° | 2615 | 2302 | 1384 | 902 | 819 | 1168 |
| 35° | 1610 | 2171 | 1202 | 725 | 685 | 1008 |
| 45° | 823 | 1547 | 963 | 576 | 577 | 649 |
| 55° | 491 | 875 | 690 | 434 | 430 | 446 |
| 65° | 287 | 450 | 433 | 281 | 241 | 288 |
| 75° | 133 | 171 | 213 | 136 | 114 | 146 |
| 85° | 32 | 34 | 48 | 34 | 32 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334224

CATALOG NUMBER: S124RDW-S1195D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 |
| 2.5° | 1692.1 | 1697.8 | 1692.1 | 1691.4 | 1685.1 | 1683.1 | 1680.6 | 1672.3 | 1657.0 | 1648.0 | 1650.0 |
| 5° | 1829.9 | 1845.8 | 1836.9 | 1835.6 | 1821.6 | 1807.6 | 1798.6 | 1778.2 | 1756.5 | 1741.8 | 1729.7 |
| 7.5° | 1983.0 | 1992.6 | 1986.2 | 1979.2 | 1954.9 | 1947.3 | 1926.2 | 1902.0 | 1865.6 | 1838.2 | 1813.3 |
| 10° | 2140.0 | 2147.6 | 2145.1 | 2128.5 | 2111.9 | 2078.1 | 2058.9 | 2021.3 | 1972.2 | 1933.3 | 1896.9 |
| 12.5° | 2294.4 | 2302.7 | 2275.2 | 2280.3 | 2245.3 | 2220.4 | 2187.2 | 2137.4 | 2078.7 | 2025.8 | 1977.9 |
| 15° | 2424.5 | 2414.3 | 2414.3 | 2401.6 | 2366.5 | 2329.5 | 2298.2 | 2248.4 | 2177.0 | 2117.0 | 2053.8 |
| 17.5° | 2531.7 | 2536.2 | 2531.1 | 2498.6 | 2473.0 | 2435.4 | 2379.2 | 2322.5 | 2260.6 | 2180.2 | 2117.6 |
| 20° | 2626.2 | 2626.2 | 2620.4 | 2600.0 | 2564.3 | 2523.4 | 2461.5 | 2398.4 | 2314.2 | 2233.1 | 2160.4 |
| 22.5° | 2664.4 | 2667.0 | 2660.0 | 2644.0 | 2612.8 | 2573.2 | 2522.8 | 2458.4 | 2370.9 | 2277.2 | 2182.7 |
| 25° | 2614.7 | 2626.8 | 2628.1 | 2623.6 | 2614.0 | 2589.8 | 2544.5 | 2478.8 | 2400.9 | 2302.0 | 2205.1 |
| 27.5° | 2453.9 | 2469.8 | 2476.2 | 2490.3 | 2516.4 | 2526.0 | 2520.2 | 2476.2 | 2400.9 | 2303.3 | 2207.0 |
| 30° | 2187.2 | 2199.9 | 2241.4 | 2295.7 | 2337.8 | 2376.0 | 2409.2 | 2418.2 | 2379.9 | 2294.4 | 2191.7 |
| 32.5° | 1891.1 | 1909.6 | 1951.1 | 2010.5 | 2087.7 | 2159.1 | 2244.0 | 2289.3 | 2297.6 | 2254.8 | 2161.7 |
| 35° | 1610.4 | 1623.2 | 1661.4 | 1722.7 | 1806.9 | 1903.3 | 2021.3 | 2113.2 | 2175.7 | 2171.2 | 2113.2 |
| 37.5° | 1341.2 | 1359.0 | 1397.9 | 1448.3 | 1531.3 | 1654.4 | 1766.1 | 1889.2 | 2001.5 | 2056.4 | 2027.0 |
| 40° | 1129.3 | 1130.0 | 1167.6 | 1219.9 | 1296.5 | 1400.5 | 1524.9 | 1665.3 | 1794.2 | 1899.4 | 1919.9 |
| 42.5° | 962.2 | 962.2 | 983.9 | 1041.3 | 1091.0 | 1187.4 | 1304.8 | 1443.9 | 1600.2 | 1725.9 | 1788.4 |
| 45° | 823.1 | 828.8 | 849.2 | 883.0 | 926.4 | 1009.4 | 1104.4 | 1234.0 | 1403.0 | 1547.2 | 1637.2 |
| 47.5° | 713.3 | 723.5 | 735.7 | 766.3 | 802.0 | 860.1 | 941.1 | 1062.3 | 1202.7 | 1362.8 | 1487.3 |
| 50° | 631.7 | 632.9 | 649.5 | 664.8 | 694.8 | 738.8 | 807.8 | 904.7 | 1031.1 | 1183.6 | 1325.8 |
| 52.5° | 561.5 | 560.8 | 569.1 | 589.5 | 612.5 | 644.4 | 696.7 | 782.9 | 891.3 | 1024.0 | 1172.1 |
| 55° | 491.3 | 494.5 | 502.1 | 517.4 | 536.0 | 560.2 | 604.2 | 670.6 | 758.6 | 875.4 | 1008.7 |
| 57.5° | 437.7 | 439.6 | 446.6 | 452.4 | 470.2 | 488.1 | 523.8 | 571.7 | 648.9 | 746.5 | 877.3 |
| 60° | 385.4 | 386.0 | 387.9 | 397.5 | 410.9 | 427.5 | 449.8 | 488.7 | 551.3 | 638.7 | 736.9 |
| 62.5° | 334.3 | 335.6 | 338.8 | 345.2 | 354.7 | 365.0 | 388.6 | 417.9 | 467.0 | 538.5 | 624.6 |
| 65° | 287.1 | 287.8 | 292.2 | 294.8 | 303.1 | 313.3 | 330.5 | 351.6 | 387.3 | 449.8 | 516.8 |
| 67.5° | 247.6 | 247.6 | 247.6 | 251.4 | 257.8 | 264.8 | 276.3 | 294.1 | 322.8 | 363.0 | 425.6 |
| 70° | 209.3 | 209.3 | 210.6 | 212.5 | 215.7 | 221.4 | 227.1 | 239.9 | 259.7 | 290.9 | 336.2 |
| 72.5° | 173.5 | 174.2 | 175.5 | 175.5 | 176.7 | 181.2 | 185.0 | 192.0 | 205.4 | 227.1 | 261.6 |
| 75° | 132.7 | 134.6 | 137.8 | 140.4 | 143.6 | 142.9 | 147.4 | 152.5 | 157.0 | 171.0 | 192.0 |
| 77.5° | 104.6 | 103.4 | 103.4 | 105.9 | 106.6 | 107.2 | 110.4 | 114.8 | 118.7 | 126.3 | 134.0 |
| 80° | 75.3 | 75.3 | 77.2 | 77.8 | 77.2 | 77.8 | 81.0 | 82.9 | 84.2 | 86.8 | 93.8 |
| 82.5° | 52.3 | 53.6 | 52.3 | 53.0 | 53.6 | 54.2 | 56.8 | 56.8 | 58.1 | 58.7 | 60.6 |
| 85° | 31.9 | 32.5 | 33.2 | 31.9 | 31.9 | 31.9 | 33.2 | 33.8 | 35.1 | 34.5 | 35.7 |
| 87.5° | 14.0 | 13.4 | 14.0 | 14.0 | 14.7 | 14.0 | 14.7 | 16.0 | 14.7 | 15.3 | 15.3 |
| 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: P334224

CATALOG NUMBER: S124RDW-S1195D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 |
| 2.5° | 1643.6 | 1634.6 | 1630.2 | 1620.0 | 1607.9 | 1601.5 | 1595.7 | 1587.4 | 1576.6 | 1565.1 | 1556.8 |
| 5° | 1714.4 | 1699.1 | 1680.0 | 1657.0 | 1636.6 | 1616.8 | 1599.6 | 1582.3 | 1562.6 | 1542.1 | 1521.7 |
| 7.5° | 1784.6 | 1757.2 | 1727.8 | 1692.7 | 1658.9 | 1627.6 | 1599.6 | 1572.1 | 1540.9 | 1512.8 | 1486.6 |
| 10° | 1858.6 | 1817.8 | 1772.5 | 1724.6 | 1676.8 | 1635.3 | 1594.5 | 1557.4 | 1516.6 | 1480.2 | 1449.6 |
| 12.5° | 1918.6 | 1868.8 | 1812.0 | 1749.5 | 1689.5 | 1637.2 | 1588.7 | 1537.7 | 1489.8 | 1449.6 | 1406.2 |
| 15° | 1986.2 | 1920.5 | 1847.1 | 1775.7 | 1701.0 | 1632.7 | 1569.6 | 1513.4 | 1460.5 | 1405.0 | 1366.0 |
| 17.5° | 2032.8 | 1956.9 | 1870.1 | 1787.1 | 1701.6 | 1622.5 | 1551.1 | 1486.0 | 1425.4 | 1369.9 | 1323.9 |
| 20° | 2073.6 | 1987.5 | 1888.6 | 1791.0 | 1692.1 | 1605.9 | 1527.5 | 1453.4 | 1390.3 | 1329.0 | 1281.2 |
| 22.5° | 2096.6 | 1999.0 | 1888.6 | 1785.2 | 1681.9 | 1586.8 | 1498.7 | 1420.9 | 1350.7 | 1289.5 | 1235.2 |
| 25° | 2097.9 | 1995.8 | 1885.4 | 1768.0 | 1655.7 | 1556.8 | 1467.5 | 1383.9 | 1307.3 | 1246.1 | 1189.9 |
| 27.5° | 2092.8 | 1974.7 | 1863.7 | 1744.4 | 1628.9 | 1523.6 | 1431.1 | 1342.4 | 1266.5 | 1201.4 | 1144.0 |
| 30° | 2077.4 | 1948.6 | 1827.3 | 1702.3 | 1584.9 | 1484.7 | 1385.8 | 1301.6 | 1221.8 | 1153.6 | 1095.5 |
| 32.5° | 2044.3 | 1916.7 | 1783.9 | 1655.1 | 1535.8 | 1431.8 | 1339.2 | 1254.4 | 1176.5 | 1106.4 | 1043.8 |
| 35° | 1998.3 | 1868.8 | 1727.2 | 1595.7 | 1479.0 | 1371.8 | 1283.7 | 1202.1 | 1127.4 | 1052.8 | 987.7 |
| 37.5° | 1945.4 | 1810.1 | 1670.4 | 1526.2 | 1410.1 | 1308.0 | 1225.7 | 1147.2 | 1074.5 | 1006.2 | 934.1 |
| 40° | 1863.7 | 1743.1 | 1597.6 | 1454.7 | 1334.8 | 1237.2 | 1162.5 | 1093.0 | 1019.6 | 952.0 | 879.9 |
| 42.5° | 1764.8 | 1666.6 | 1519.2 | 1375.6 | 1257.6 | 1164.4 | 1096.1 | 1028.5 | 963.4 | 898.4 | 822.4 |
| 45° | 1652.5 | 1574.7 | 1436.9 | 1299.0 | 1179.7 | 1086.6 | 1022.8 | 962.8 | 904.1 | 841.6 | 770.7 |
| 47.5° | 1527.5 | 1470.0 | 1350.1 | 1205.9 | 1094.2 | 1008.7 | 947.5 | 897.7 | 846.0 | 782.9 | 719.1 |
| 50° | 1396.0 | 1362.2 | 1247.4 | 1118.5 | 1013.2 | 936.0 | 872.8 | 826.9 | 785.4 | 725.4 | 669.9 |
| 52.5° | 1255.7 | 1241.6 | 1149.1 | 1027.2 | 926.4 | 851.1 | 799.5 | 759.3 | 717.2 | 669.9 | 618.9 |
| 55° | 1112.7 | 1122.3 | 1040.0 | 933.4 | 837.7 | 773.9 | 724.8 | 690.4 | 654.6 | 612.5 | 572.3 |
| 57.5° | 964.1 | 1000.4 | 939.2 | 842.8 | 750.3 | 690.4 | 652.7 | 622.1 | 592.1 | 556.4 | 520.0 |
| 60° | 833.3 | 862.6 | 831.4 | 749.1 | 670.6 | 615.7 | 581.3 | 558.9 | 528.9 | 497.0 | 470.9 |
| 62.5° | 705.7 | 737.6 | 722.3 | 659.7 | 588.3 | 543.0 | 513.6 | 493.2 | 472.8 | 446.0 | 418.6 |
| 65° | 602.9 | 623.4 | 614.4 | 568.5 | 516.8 | 476.6 | 448.5 | 433.2 | 412.8 | 392.4 | 368.1 |
| 67.5° | 482.4 | 522.6 | 516.2 | 490.7 | 440.9 | 409.0 | 389.2 | 375.2 | 356.0 | 340.7 | 323.5 |
| 70° | 379.6 | 416.0 | 415.4 | 395.6 | 371.3 | 342.0 | 329.2 | 317.7 | 301.2 | 286.5 | 273.1 |
| 72.5° | 293.5 | 326.0 | 332.4 | 318.4 | 303.7 | 283.3 | 271.2 | 264.1 | 248.2 | 239.3 | 229.1 |
| 75° | 217.6 | 241.8 | 248.2 | 248.2 | 240.5 | 229.1 | 218.2 | 213.1 | 201.6 | 192.7 | 186.3 |
| 77.5° | 153.1 | 169.7 | 179.3 | 181.2 | 181.8 | 177.4 | 167.2 | 163.3 | 154.4 | 151.2 | 144.2 |
| 80° | 100.8 | 111.0 | 122.5 | 126.3 | 129.5 | 128.2 | 124.4 | 121.9 | 113.6 | 110.4 | 107.8 |
| 82.5° | 61.9 | 66.4 | 75.3 | 84.9 | 82.9 | 87.4 | 84.2 | 82.3 | 76.6 | 75.9 | 73.4 |
| 85° | 36.4 | 37.0 | 38.3 | 44.0 | 47.2 | 48.5 | 49.1 | 47.9 | 45.9 | 45.9 | 41.5 |
| 87.5° | 15.3 | 14.7 | 16.0 | 16.0 | 16.6 | 19.1 | 21.1 | 21.7 | 19.8 | 17.9 | 16.0 |
| 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: P334224

CATALOG NUMBER: S124RDW-S1195D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 |
| 2.5° | 1547.9 | 1541.5 | 1533.2 | 1523.6 | 1512.1 | 1501.9 | 1497.5 | 1501.3 | 1503.2 | 1498.1 | 1497.5 |
| 5° | 1507.7 | 1491.7 | 1479.0 | 1459.8 | 1444.5 | 1431.8 | 1422.8 | 1419.0 | 1420.3 | 1410.1 | 1407.5 |
| 7.5° | 1463.0 | 1445.8 | 1424.7 | 1403.0 | 1382.6 | 1364.8 | 1355.2 | 1350.7 | 1339.9 | 1335.4 | 1328.4 |
| 10° | 1420.3 | 1394.7 | 1374.3 | 1347.5 | 1323.3 | 1301.0 | 1290.1 | 1281.2 | 1270.3 | 1265.2 | 1254.4 |
| 12.5° | 1376.2 | 1345.6 | 1322.6 | 1294.6 | 1269.7 | 1241.6 | 1231.4 | 1212.9 | 1194.4 | 1182.3 | 1167.6 |
| 15° | 1335.4 | 1299.7 | 1272.2 | 1239.1 | 1209.7 | 1179.1 | 1151.7 | 1121.0 | 1109.5 | 1085.3 | 1071.3 |
| 17.5° | 1286.9 | 1249.9 | 1219.3 | 1176.5 | 1132.5 | 1095.5 | 1064.9 | 1033.0 | 1015.8 | 999.2 | 992.1 |
| 20° | 1239.1 | 1205.9 | 1158.7 | 1107.0 | 1056.6 | 1014.5 | 990.9 | 971.7 | 952.6 | 941.7 | 934.1 |
| 22.5° | 1193.8 | 1149.1 | 1092.3 | 1035.5 | 985.1 | 954.5 | 935.4 | 915.6 | 900.9 | 890.7 | 879.9 |
| 25° | 1142.1 | 1086.6 | 1028.5 | 964.7 | 930.3 | 901.5 | 879.9 | 863.9 | 854.3 | 840.9 | 835.8 |
| 27.5° | 1091.7 | 1024.7 | 959.0 | 915.6 | 879.9 | 852.4 | 832.6 | 821.2 | 808.4 | 799.5 | 792.4 |
| 30° | 1031.7 | 963.4 | 906.0 | 865.2 | 828.8 | 807.1 | 791.8 | 777.8 | 768.2 | 761.2 | 756.1 |
| 32.5° | 972.4 | 904.1 | 858.2 | 813.5 | 786.7 | 765.6 | 749.1 | 739.5 | 732.5 | 722.9 | 720.3 |
| 35° | 915.6 | 855.0 | 812.9 | 773.3 | 744.0 | 724.8 | 712.0 | 701.2 | 694.8 | 692.3 | 690.4 |
| 37.5° | 860.1 | 809.7 | 763.1 | 731.2 | 703.8 | 689.1 | 672.5 | 667.4 | 662.9 | 657.2 | 659.7 |
| 40° | 807.8 | 761.2 | 721.0 | 686.5 | 665.5 | 648.9 | 640.0 | 633.6 | 629.7 | 629.7 | 629.7 |
| 42.5° | 762.5 | 717.2 | 678.2 | 648.2 | 627.2 | 613.8 | 603.6 | 598.5 | 597.8 | 597.2 | 601.0 |
| 45° | 715.2 | 673.1 | 633.6 | 608.0 | 590.2 | 576.1 | 570.4 | 565.9 | 565.9 | 568.5 | 569.1 |
| 47.5° | 668.0 | 628.5 | 596.6 | 567.2 | 550.6 | 541.7 | 536.6 | 534.0 | 534.0 | 537.2 | 539.8 |
| 50° | 625.3 | 586.4 | 555.1 | 529.6 | 514.3 | 506.0 | 501.5 | 500.2 | 501.5 | 501.5 | 506.0 |
| 52.5° | 578.7 | 544.9 | 514.3 | 493.8 | 476.0 | 468.3 | 466.4 | 464.5 | 465.1 | 467.7 | 469.0 |
| 55° | 533.4 | 502.1 | 472.8 | 452.4 | 439.6 | 434.5 | 428.8 | 429.4 | 428.1 | 429.4 | 429.4 |
| 57.5° | 487.5 | 460.0 | 431.3 | 414.7 | 403.9 | 396.2 | 389.8 | 391.8 | 389.8 | 389.8 | 389.2 |
| 60° | 443.4 | 412.8 | 391.1 | 376.4 | 363.7 | 357.3 | 351.6 | 352.8 | 350.9 | 349.6 | 347.1 |
| 62.5° | 395.6 | 371.3 | 350.9 | 336.9 | 327.3 | 319.7 | 313.9 | 312.0 | 306.9 | 301.8 | 295.4 |
| 65° | 349.6 | 328.6 | 310.1 | 296.7 | 287.1 | 281.4 | 276.9 | 273.1 | 263.5 | 253.3 | 248.2 |
| 67.5° | 304.3 | 289.0 | 271.2 | 259.7 | 252.0 | 244.4 | 236.1 | 229.1 | 219.5 | 213.1 | 209.9 |
| 70° | 261.0 | 246.3 | 231.6 | 220.8 | 212.5 | 205.4 | 195.9 | 191.4 | 185.0 | 182.5 | 179.3 |
| 72.5° | 219.5 | 206.1 | 192.7 | 183.1 | 174.2 | 169.1 | 162.1 | 157.6 | 155.7 | 155.0 | 151.9 |
| 75° | 177.4 | 166.5 | 156.3 | 147.4 | 140.4 | 136.5 | 133.3 | 130.2 | 128.9 | 123.1 | 120.0 |
| 77.5° | 136.5 | 128.9 | 122.5 | 115.5 | 111.0 | 108.5 | 101.4 | 97.0 | 94.4 | 91.2 | 90.6 |
| 80° | 100.8 | 95.7 | 89.3 | 85.5 | 78.5 | 75.9 | 73.4 | 72.7 | 72.1 | 71.5 | 70.8 |
| 82.5° | 69.5 | 64.4 | 58.1 | 56.1 | 55.5 | 54.2 | 53.0 | 52.3 | 51.7 | 52.3 | 52.3 |
| 85° | 38.3 | 35.7 | 35.7 | 35.1 | 34.5 | 33.8 | 33.2 | 33.2 | 32.5 | 33.2 | 32.5 |
| 87.5° | 16.0 | 15.3 | 15.3 | 14.0 | 14.7 | 14.7 | 14.0 | 14.0 | 14.7 | 13.4 | 13.4 |
| 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: P334224

CATALOG NUMBER: S124RDW-S1195D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1583.6 | 1583.6 | 1583.6 | 1583.6 |
| 2.5° | 1493.6 | 1494.9 | 1490.5 | 1489.2 |
| 5° | 1402.4 | 1401.1 | 1397.9 | 1398.6 |
| 7.5° | 1323.3 | 1318.8 | 1322.0 | 1316.9 |
| 10° | 1251.8 | 1244.8 | 1239.1 | 1234.0 |
| 12.5° | 1154.2 | 1148.5 | 1140.2 | 1143.4 |
| 15° | 1063.0 | 1053.4 | 1038.1 | 1040.0 |
| 17.5° | 981.3 | 982.6 | 973.6 | 976.2 |
| 20° | 920.7 | 916.2 | 916.9 | 914.9 |
| 22.5° | 878.6 | 872.8 | 867.1 | 862.6 |
| 25° | 830.1 | 826.3 | 820.5 | 819.2 |
| 27.5° | 787.3 | 786.7 | 784.1 | 781.0 |
| 30° | 751.0 | 749.7 | 748.4 | 746.5 |
| 32.5° | 718.4 | 717.8 | 716.5 | 717.2 |
| 35° | 687.8 | 687.2 | 685.9 | 685.3 |
| 37.5° | 659.1 | 661.0 | 659.7 | 659.7 |
| 40° | 629.1 | 629.7 | 631.0 | 630.4 |
| 42.5° | 604.2 | 604.2 | 606.1 | 603.6 |
| 45° | 573.6 | 577.4 | 576.8 | 576.8 |
| 47.5° | 541.1 | 545.5 | 546.2 | 546.2 |
| 50° | 509.2 | 507.9 | 509.8 | 509.2 |
| 52.5° | 470.2 | 470.9 | 470.2 | 469.6 |
| 55° | 430.0 | 430.7 | 429.4 | 430.0 |
| 57.5° | 387.3 | 384.7 | 386.7 | 385.4 |
| 60° | 340.7 | 335.6 | 334.3 | 331.8 |
| 62.5° | 288.4 | 285.2 | 280.1 | 283.3 |
| 65° | 243.1 | 240.5 | 238.6 | 241.2 |
| 67.5° | 206.7 | 205.4 | 205.4 | 204.2 |
| 70° | 179.3 | 177.4 | 177.4 | 176.1 |
| 72.5° | 151.2 | 149.3 | 149.9 | 149.3 |
| 75° | 116.1 | 112.9 | 112.9 | 113.6 |
| 77.5° | 90.6 | 90.0 | 91.2 | 89.3 |
| 80° | 70.8 | 70.2 | 69.5 | 71.5 |
| 82.5° | 51.0 | 51.0 | 51.0 | 53.6 |
| 85° | 33.2 | 31.9 | 33.2 | 31.9 |
| 87.5° | 14.7 | 14.0 | 13.4 | 14.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)