

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: P334229

Luminaire Tested: **S124RDW-S1195D940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334229
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-S1195D940-4F0-1E-UDD-A
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1195 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4145.9 lumens
Efficiency: N/A
Efficacy: 100.9 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

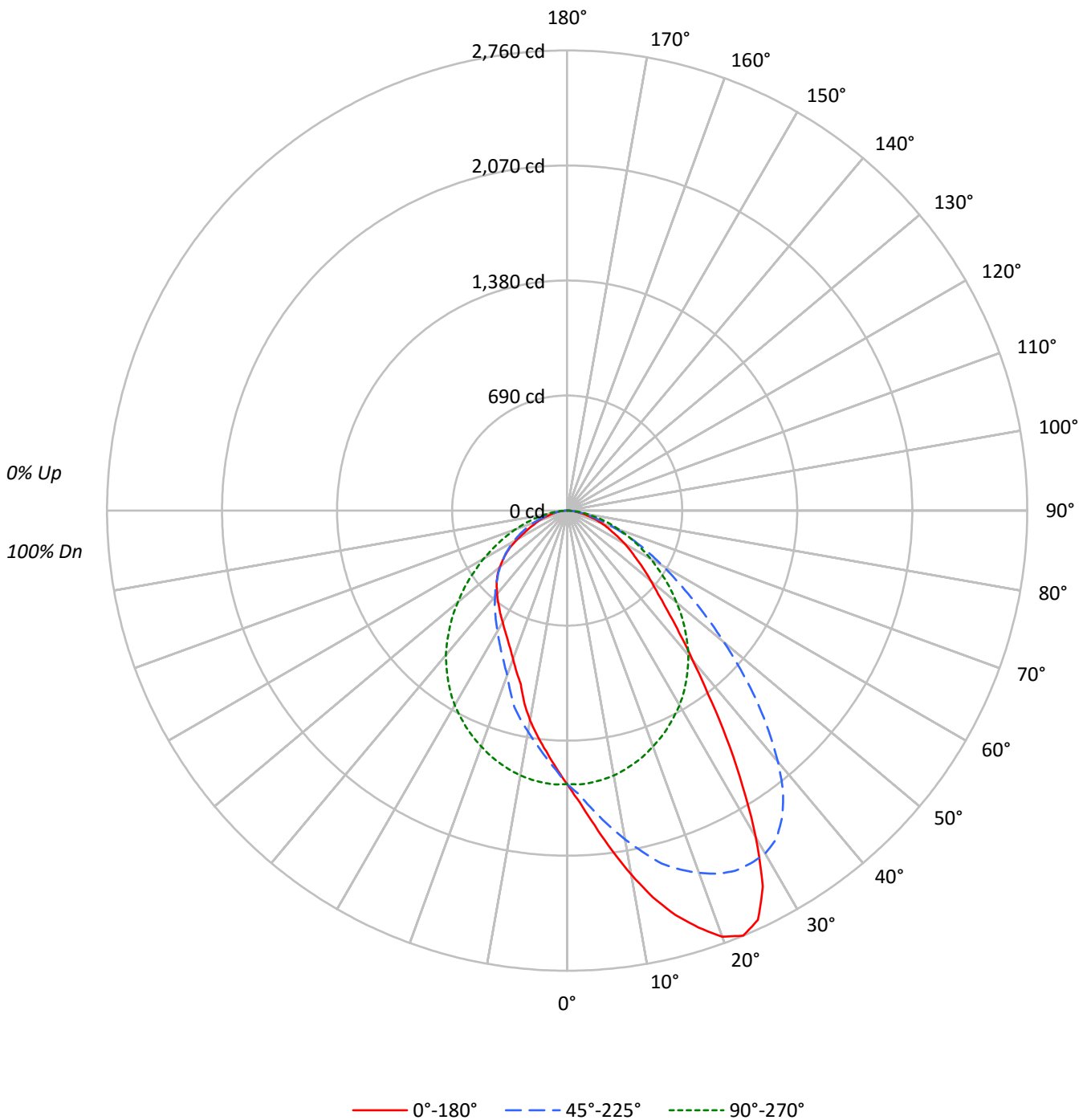
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334229

CATALOG NUMBER: S124RDW-S1195D940-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334229

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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° | 13240 | 13240 | 13240 |
| 5° | 15358 | 13280 | 11738 |
| 10° | 18168 | 13223 | 10476 |
| 15° | 20986 | 13100 | 9002 |
| 20° | 23366 | 12932 | 8141 |
| 25° | 24121 | 12767 | 7558 |
| 30° | 21116 | 12566 | 7207 |
| 35° | 16437 | 12269 | 6994 |
| 40° | 12326 | 11929 | 6881 |
| 45° | 9732 | 11384 | 6820 |
| 50° | 8216 | 10756 | 6623 |
| 55° | 7161 | 10063 | 6269 |
| 60° | 6444 | 9347 | 5548 |
| 65° | 5681 | 8571 | 4772 |
| 70° | 5115 | 7768 | 4305 |
| 75° | 4286 | 6884 | 3668 |
| 80° | 3626 | 5867 | 3440 |
| 85° | 3057 | 4594 | 3057 |



TEST NUMBER: P334229

CATALOG NUMBER: S124RDW-S1195D940-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 158.8 | 3.8 |
| 10°-20° | 479.6 | 11.6 |
| 20°-30° | 751.2 | 18.1 |
| 30°-40° | 834.2 | 20.1 |
| 40°-50° | 739.3 | 17.8 |
| 50°-60° | 576.1 | 13.9 |
| 60°-70° | 376.8 | 9.1 |
| 70°-80° | 184.9 | 4.5 |
| 80°-90° | 45.0 | 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° | 1389.6 | 33.5 |
| 0°-40° | 2223.8 | 53.6 |
| 0°-60° | 3539.2 | 85.4 |
| 0°-90° | 4145.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4145.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1640 | 1640 | 1640 | 1640 | 1640 | |
| 5° | 1895 | 1804 | 1639 | 1483 | 1448 | 191 |
| 15° | 2511 | 2192 | 1567 | 1221 | 1077 | 714 |
| 25° | 2708 | 2384 | 1433 | 934 | 848 | 1209 |
| 35° | 1668 | 2249 | 1245 | 751 | 710 | 1044 |
| 45° | 852 | 1602 | 997 | 597 | 597 | 672 |
| 55° | 509 | 907 | 715 | 450 | 445 | 462 |
| 65° | 297 | 466 | 449 | 291 | 250 | 299 |
| 75° | 137 | 177 | 221 | 141 | 118 | 151 |
| 85° | 33 | 36 | 50 | 35 | 33 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334229

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 |
| 2.5° | 1752.4 | 1758.4 | 1752.4 | 1751.8 | 1745.2 | 1743.2 | 1740.5 | 1731.9 | 1716.1 | 1706.8 | 1708.8 |
| 5° | 1895.2 | 1911.7 | 1902.4 | 1901.1 | 1886.6 | 1872.0 | 1862.8 | 1841.6 | 1819.2 | 1804.0 | 1791.4 |
| 7.5° | 2053.7 | 2063.7 | 2057.1 | 2049.8 | 2024.7 | 2016.7 | 1994.9 | 1969.8 | 1932.2 | 1903.7 | 1878.0 |
| 10° | 2216.3 | 2224.2 | 2221.6 | 2204.4 | 2187.2 | 2152.2 | 2132.4 | 2093.4 | 2042.5 | 2002.2 | 1964.5 |
| 12.5° | 2376.2 | 2384.8 | 2356.4 | 2361.7 | 2325.3 | 2299.6 | 2265.2 | 2213.7 | 2152.9 | 2098.0 | 2048.5 |
| 15° | 2511.0 | 2500.4 | 2500.4 | 2487.2 | 2450.9 | 2412.6 | 2380.2 | 2328.6 | 2254.6 | 2192.5 | 2127.1 |
| 17.5° | 2622.0 | 2626.7 | 2621.4 | 2587.7 | 2561.2 | 2522.3 | 2464.1 | 2405.3 | 2341.2 | 2257.9 | 2193.2 |
| 20° | 2719.8 | 2719.8 | 2713.9 | 2692.7 | 2655.7 | 2613.4 | 2549.3 | 2483.9 | 2396.7 | 2312.8 | 2237.5 |
| 22.5° | 2759.5 | 2762.1 | 2754.9 | 2738.3 | 2706.0 | 2665.0 | 2612.8 | 2546.0 | 2455.5 | 2358.4 | 2260.6 |
| 25° | 2707.9 | 2720.5 | 2721.8 | 2717.2 | 2707.3 | 2682.2 | 2635.2 | 2567.2 | 2486.6 | 2384.1 | 2283.7 |
| 27.5° | 2541.4 | 2557.9 | 2564.5 | 2579.1 | 2606.2 | 2616.1 | 2610.1 | 2564.5 | 2486.6 | 2385.5 | 2285.7 |
| 30° | 2265.2 | 2278.4 | 2321.4 | 2377.5 | 2421.2 | 2460.8 | 2495.2 | 2504.4 | 2464.8 | 2376.2 | 2269.8 |
| 32.5° | 1958.6 | 1977.8 | 2020.7 | 2082.2 | 2162.1 | 2236.1 | 2324.0 | 2370.9 | 2379.5 | 2335.2 | 2238.8 |
| 35° | 1667.8 | 1681.1 | 1720.7 | 1784.1 | 1871.4 | 1971.1 | 2093.4 | 2188.6 | 2253.3 | 2248.7 | 2188.6 |
| 37.5° | 1389.0 | 1407.5 | 1447.8 | 1500.0 | 1585.9 | 1713.4 | 1829.1 | 1956.6 | 2072.9 | 2129.7 | 2099.3 |
| 40° | 1169.6 | 1170.3 | 1209.3 | 1263.4 | 1342.7 | 1450.4 | 1579.3 | 1724.7 | 1858.2 | 1967.2 | 1988.3 |
| 42.5° | 996.5 | 996.5 | 1018.9 | 1078.4 | 1130.0 | 1229.7 | 1351.3 | 1495.4 | 1657.3 | 1787.4 | 1852.2 |
| 45° | 852.4 | 858.4 | 879.5 | 914.5 | 959.5 | 1045.4 | 1143.8 | 1278.0 | 1453.1 | 1602.4 | 1695.6 |
| 47.5° | 738.8 | 749.3 | 761.9 | 793.6 | 830.6 | 890.8 | 974.7 | 1100.2 | 1245.6 | 1411.5 | 1540.3 |
| 50° | 654.2 | 655.5 | 672.7 | 688.5 | 719.6 | 765.2 | 836.6 | 937.0 | 1067.8 | 1225.8 | 1373.1 |
| 52.5° | 581.5 | 580.8 | 589.4 | 610.6 | 634.4 | 667.4 | 721.6 | 810.8 | 923.1 | 1060.6 | 1213.9 |
| 55° | 508.8 | 512.1 | 520.0 | 535.9 | 555.1 | 580.2 | 625.8 | 694.5 | 785.7 | 906.6 | 1044.7 |
| 57.5° | 453.3 | 455.3 | 462.6 | 468.5 | 487.0 | 505.5 | 542.5 | 592.1 | 672.0 | 773.1 | 908.6 |
| 60° | 399.1 | 399.8 | 401.8 | 411.7 | 425.6 | 442.7 | 465.9 | 506.2 | 570.9 | 661.5 | 763.2 |
| 62.5° | 346.3 | 347.6 | 350.9 | 357.5 | 367.4 | 378.0 | 402.4 | 432.8 | 483.7 | 557.7 | 646.9 |
| 65° | 297.4 | 298.0 | 302.6 | 305.3 | 313.9 | 324.5 | 342.3 | 364.1 | 401.1 | 465.9 | 535.2 |
| 67.5° | 256.4 | 256.4 | 256.4 | 260.4 | 267.0 | 274.2 | 286.1 | 304.6 | 334.4 | 376.0 | 440.7 |
| 70° | 216.7 | 216.7 | 218.1 | 220.0 | 223.3 | 229.3 | 235.2 | 248.5 | 268.9 | 301.3 | 348.2 |
| 72.5° | 179.7 | 180.4 | 181.7 | 181.7 | 183.0 | 187.7 | 191.6 | 198.9 | 212.8 | 235.2 | 270.9 |
| 75° | 137.4 | 139.4 | 142.7 | 145.4 | 148.7 | 148.0 | 152.6 | 157.9 | 162.6 | 177.1 | 198.9 |
| 77.5° | 108.4 | 107.0 | 107.0 | 109.7 | 110.4 | 111.0 | 114.3 | 118.9 | 122.9 | 130.8 | 138.8 |
| 80° | 78.0 | 78.0 | 80.0 | 80.6 | 80.0 | 80.6 | 83.9 | 85.9 | 87.2 | 89.9 | 97.1 |
| 82.5° | 54.2 | 55.5 | 54.2 | 54.8 | 55.5 | 56.2 | 58.8 | 58.8 | 60.1 | 60.8 | 62.8 |
| 85° | 33.0 | 33.7 | 34.4 | 33.0 | 33.0 | 33.0 | 34.4 | 35.0 | 36.3 | 35.7 | 37.0 |
| 87.5° | 14.5 | 13.9 | 14.5 | 14.5 | 15.2 | 14.5 | 15.2 | 16.5 | 15.2 | 15.9 | 15.9 |
| 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: P334229

CATALOG NUMBER: S124RDW-S1195D940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 |
| 2.5° | 1702.2 | 1693.0 | 1688.3 | 1677.8 | 1665.2 | 1658.6 | 1652.6 | 1644.1 | 1632.8 | 1620.9 | 1612.3 |
| 5° | 1775.6 | 1759.7 | 1739.9 | 1716.1 | 1694.9 | 1674.5 | 1656.6 | 1638.8 | 1618.3 | 1597.1 | 1576.0 |
| 7.5° | 1848.2 | 1819.8 | 1789.4 | 1753.1 | 1718.1 | 1685.7 | 1656.6 | 1628.2 | 1595.8 | 1566.7 | 1539.7 |
| 10° | 1924.9 | 1882.6 | 1835.7 | 1786.1 | 1736.6 | 1693.6 | 1651.3 | 1613.0 | 1570.7 | 1533.0 | 1501.3 |
| 12.5° | 1987.0 | 1935.5 | 1876.7 | 1811.9 | 1749.8 | 1695.6 | 1645.4 | 1592.5 | 1543.0 | 1501.3 | 1456.4 |
| 15° | 2057.1 | 1989.0 | 1913.0 | 1839.0 | 1761.7 | 1691.0 | 1625.6 | 1567.4 | 1512.6 | 1455.1 | 1414.8 |
| 17.5° | 2105.3 | 2026.7 | 1936.8 | 1850.9 | 1762.3 | 1680.4 | 1606.4 | 1539.0 | 1476.2 | 1418.7 | 1371.1 |
| 20° | 2147.6 | 2058.4 | 1956.0 | 1854.9 | 1752.4 | 1663.2 | 1581.9 | 1505.3 | 1439.9 | 1376.4 | 1326.9 |
| 22.5° | 2171.4 | 2070.3 | 1956.0 | 1848.9 | 1741.9 | 1643.4 | 1552.2 | 1471.6 | 1398.9 | 1335.5 | 1279.3 |
| 25° | 2172.7 | 2067.0 | 1952.6 | 1831.1 | 1714.8 | 1612.3 | 1519.8 | 1433.3 | 1354.0 | 1290.5 | 1232.4 |
| 27.5° | 2167.4 | 2045.2 | 1930.2 | 1806.6 | 1687.0 | 1578.0 | 1482.2 | 1390.3 | 1311.7 | 1244.3 | 1184.8 |
| 30° | 2151.5 | 2018.1 | 1892.5 | 1763.0 | 1641.4 | 1537.7 | 1435.2 | 1348.0 | 1265.4 | 1194.7 | 1134.6 |
| 32.5° | 2117.2 | 1985.0 | 1847.6 | 1714.1 | 1590.5 | 1482.8 | 1387.0 | 1299.1 | 1218.5 | 1145.8 | 1081.1 |
| 35° | 2069.6 | 1935.5 | 1788.8 | 1652.6 | 1531.7 | 1420.7 | 1329.5 | 1244.9 | 1167.6 | 1090.3 | 1022.9 |
| 37.5° | 2014.8 | 1874.7 | 1730.0 | 1580.6 | 1460.4 | 1354.6 | 1269.4 | 1188.1 | 1112.8 | 1042.1 | 967.4 |
| 40° | 1930.2 | 1805.3 | 1654.6 | 1506.6 | 1382.4 | 1281.3 | 1204.0 | 1131.9 | 1055.9 | 985.9 | 911.2 |
| 42.5° | 1827.8 | 1726.0 | 1573.4 | 1424.7 | 1302.4 | 1205.9 | 1135.2 | 1065.2 | 997.8 | 930.4 | 851.8 |
| 45° | 1711.5 | 1630.8 | 1488.1 | 1345.4 | 1221.8 | 1125.3 | 1059.3 | 997.1 | 936.3 | 871.6 | 798.2 |
| 47.5° | 1581.9 | 1522.5 | 1398.2 | 1248.9 | 1133.3 | 1044.7 | 981.3 | 929.7 | 876.2 | 810.8 | 744.7 |
| 50° | 1445.8 | 1410.8 | 1291.9 | 1158.4 | 1049.3 | 969.4 | 904.0 | 856.4 | 813.4 | 751.3 | 693.8 |
| 52.5° | 1300.4 | 1285.9 | 1190.1 | 1063.9 | 959.5 | 881.5 | 828.0 | 786.3 | 742.7 | 693.8 | 641.0 |
| 55° | 1152.4 | 1162.3 | 1077.1 | 966.7 | 867.6 | 801.5 | 750.7 | 715.0 | 678.0 | 634.4 | 592.7 |
| 57.5° | 998.5 | 1036.1 | 972.7 | 872.9 | 777.1 | 715.0 | 676.0 | 644.3 | 613.2 | 576.2 | 538.5 |
| 60° | 863.0 | 893.4 | 861.0 | 775.8 | 694.5 | 637.7 | 602.0 | 578.9 | 547.8 | 514.8 | 487.7 |
| 62.5° | 730.8 | 763.9 | 748.0 | 683.3 | 609.3 | 562.3 | 531.9 | 510.8 | 489.6 | 461.9 | 433.5 |
| 65° | 624.5 | 645.6 | 636.3 | 588.8 | 535.2 | 493.6 | 464.5 | 448.7 | 427.5 | 406.4 | 381.3 |
| 67.5° | 499.6 | 541.2 | 534.6 | 508.2 | 456.6 | 423.6 | 403.1 | 388.5 | 368.7 | 352.9 | 335.0 |
| 70° | 393.2 | 430.8 | 430.2 | 409.7 | 384.6 | 354.2 | 341.0 | 329.1 | 311.9 | 296.7 | 282.8 |
| 72.5° | 304.0 | 337.7 | 344.3 | 329.7 | 314.5 | 293.4 | 280.8 | 273.6 | 257.0 | 247.8 | 237.2 |
| 75° | 225.3 | 250.4 | 257.0 | 257.0 | 249.1 | 237.2 | 226.0 | 220.7 | 208.8 | 199.6 | 193.0 |
| 77.5° | 158.6 | 175.8 | 185.7 | 187.7 | 188.3 | 183.7 | 173.1 | 169.2 | 159.9 | 156.6 | 149.3 |
| 80° | 104.4 | 115.0 | 126.9 | 130.8 | 134.1 | 132.8 | 128.9 | 126.2 | 117.6 | 114.3 | 111.7 |
| 82.5° | 64.1 | 68.7 | 78.0 | 87.9 | 85.9 | 90.5 | 87.2 | 85.2 | 79.3 | 78.6 | 76.0 |
| 85° | 37.7 | 38.3 | 39.6 | 45.6 | 48.9 | 50.2 | 50.9 | 49.6 | 47.6 | 47.6 | 43.0 |
| 87.5° | 15.9 | 15.2 | 16.5 | 16.5 | 17.2 | 19.8 | 21.8 | 22.5 | 20.5 | 18.5 | 16.5 |
| 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: P334229

CATALOG NUMBER: S124RDW-S1195D940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 | 1640.1 |
| 2.5° | 1603.1 | 1596.5 | 1587.9 | 1578.0 | 1566.1 | 1555.5 | 1550.9 | 1554.8 | 1556.8 | 1551.5 | 1550.9 |
| 5° | 1561.5 | 1544.9 | 1531.7 | 1511.9 | 1496.0 | 1482.8 | 1473.6 | 1469.6 | 1470.9 | 1460.4 | 1457.7 |
| 7.5° | 1515.2 | 1497.4 | 1475.6 | 1453.1 | 1431.9 | 1413.4 | 1403.5 | 1398.9 | 1387.7 | 1383.0 | 1375.8 |
| 10° | 1470.9 | 1444.5 | 1423.4 | 1395.6 | 1370.5 | 1347.4 | 1336.1 | 1326.9 | 1315.6 | 1310.4 | 1299.1 |
| 12.5° | 1425.3 | 1393.6 | 1369.8 | 1340.8 | 1315.0 | 1285.9 | 1275.3 | 1256.2 | 1237.0 | 1224.5 | 1209.3 |
| 15° | 1383.0 | 1346.0 | 1317.6 | 1283.3 | 1252.9 | 1221.1 | 1192.7 | 1161.0 | 1149.1 | 1124.0 | 1109.5 |
| 17.5° | 1332.8 | 1294.5 | 1262.8 | 1218.5 | 1172.9 | 1134.6 | 1102.9 | 1069.8 | 1052.0 | 1034.8 | 1027.5 |
| 20° | 1283.3 | 1248.9 | 1200.0 | 1146.5 | 1094.3 | 1050.7 | 1026.2 | 1006.4 | 986.6 | 975.3 | 967.4 |
| 22.5° | 1236.3 | 1190.1 | 1131.3 | 1072.5 | 1020.3 | 988.5 | 968.7 | 948.2 | 933.0 | 922.5 | 911.2 |
| 25° | 1182.8 | 1125.3 | 1065.2 | 999.1 | 963.4 | 933.7 | 911.2 | 894.7 | 884.8 | 870.9 | 865.6 |
| 27.5° | 1130.6 | 1061.2 | 993.2 | 948.2 | 911.2 | 882.8 | 862.3 | 850.4 | 837.2 | 828.0 | 820.7 |
| 30° | 1068.5 | 997.8 | 938.3 | 896.0 | 858.4 | 835.9 | 820.0 | 805.5 | 795.6 | 788.3 | 783.0 |
| 32.5° | 1007.1 | 936.3 | 888.8 | 842.5 | 814.8 | 793.0 | 775.8 | 765.9 | 758.6 | 748.7 | 746.0 |
| 35° | 948.2 | 885.5 | 841.9 | 800.9 | 770.5 | 750.7 | 737.4 | 726.2 | 719.6 | 717.0 | 715.0 |
| 37.5° | 890.8 | 838.5 | 790.3 | 757.3 | 728.9 | 713.7 | 696.5 | 691.2 | 686.6 | 680.6 | 683.3 |
| 40° | 836.6 | 788.3 | 746.7 | 711.0 | 689.2 | 672.0 | 662.8 | 656.2 | 652.2 | 652.2 | 652.2 |
| 42.5° | 789.6 | 742.7 | 702.4 | 671.4 | 649.6 | 635.7 | 625.1 | 619.8 | 619.2 | 618.5 | 622.5 |
| 45° | 740.8 | 697.1 | 656.2 | 629.7 | 611.2 | 596.7 | 590.8 | 586.1 | 586.1 | 588.8 | 589.4 |
| 47.5° | 691.9 | 650.9 | 617.8 | 587.4 | 570.3 | 561.0 | 555.7 | 553.1 | 553.1 | 556.4 | 559.0 |
| 50° | 647.6 | 607.3 | 574.9 | 548.5 | 532.6 | 524.0 | 519.4 | 518.1 | 519.4 | 519.4 | 524.0 |
| 52.5° | 599.3 | 564.3 | 532.6 | 511.5 | 493.0 | 485.0 | 483.0 | 481.1 | 481.7 | 484.4 | 485.7 |
| 55° | 552.4 | 520.0 | 489.6 | 468.5 | 455.3 | 450.0 | 444.1 | 444.7 | 443.4 | 444.7 | 444.7 |
| 57.5° | 504.8 | 476.4 | 446.7 | 429.5 | 418.3 | 410.4 | 403.7 | 405.7 | 403.7 | 403.7 | 403.1 |
| 60° | 459.3 | 427.5 | 405.1 | 389.9 | 376.7 | 370.0 | 364.1 | 365.4 | 363.4 | 362.1 | 359.5 |
| 62.5° | 409.7 | 384.6 | 363.4 | 348.9 | 339.0 | 331.1 | 325.1 | 323.1 | 317.8 | 312.6 | 305.9 |
| 65° | 362.1 | 340.3 | 321.1 | 307.3 | 297.4 | 291.4 | 286.8 | 282.8 | 272.9 | 262.3 | 257.0 |
| 67.5° | 315.2 | 299.3 | 280.8 | 268.9 | 261.0 | 253.1 | 244.5 | 237.2 | 227.3 | 220.7 | 217.4 |
| 70° | 270.3 | 255.1 | 239.9 | 228.6 | 220.0 | 212.8 | 202.9 | 198.2 | 191.6 | 189.0 | 185.7 |
| 72.5° | 227.3 | 213.4 | 199.6 | 189.6 | 180.4 | 175.1 | 167.8 | 163.2 | 161.2 | 160.6 | 157.3 |
| 75° | 183.7 | 172.5 | 161.9 | 152.6 | 145.4 | 141.4 | 138.1 | 134.8 | 133.5 | 127.5 | 124.2 |
| 77.5° | 141.4 | 133.5 | 126.9 | 119.6 | 115.0 | 112.3 | 105.1 | 100.4 | 97.8 | 94.5 | 93.8 |
| 80° | 104.4 | 99.1 | 92.5 | 88.5 | 81.3 | 78.6 | 76.0 | 75.3 | 74.7 | 74.0 | 73.3 |
| 82.5° | 72.0 | 66.7 | 60.1 | 58.1 | 57.5 | 56.2 | 54.8 | 54.2 | 53.5 | 54.2 | 54.2 |
| 85° | 39.6 | 37.0 | 37.0 | 36.3 | 35.7 | 35.0 | 34.4 | 34.4 | 33.7 | 34.4 | 33.7 |
| 87.5° | 16.5 | 15.9 | 15.9 | 14.5 | 15.2 | 15.2 | 14.5 | 14.5 | 15.2 | 13.9 | 13.9 |
| 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: P334229

CATALOG NUMBER: S124RDW-S1195D940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1640.1 | 1640.1 | 1640.1 | 1640.1 |
| 2.5° | 1546.9 | 1548.2 | 1543.6 | 1542.3 |
| 5° | 1452.4 | 1451.1 | 1447.8 | 1448.5 |
| 7.5° | 1370.5 | 1365.9 | 1369.2 | 1363.9 |
| 10° | 1296.5 | 1289.2 | 1283.3 | 1278.0 |
| 12.5° | 1195.4 | 1189.4 | 1180.8 | 1184.1 |
| 15° | 1100.9 | 1091.0 | 1075.1 | 1077.1 |
| 17.5° | 1016.3 | 1017.6 | 1008.4 | 1011.0 |
| 20° | 953.5 | 948.9 | 949.6 | 947.6 |
| 22.5° | 909.9 | 904.0 | 898.0 | 893.4 |
| 25° | 859.7 | 855.7 | 849.8 | 848.5 |
| 27.5° | 815.4 | 814.8 | 812.1 | 808.8 |
| 30° | 777.8 | 776.4 | 775.1 | 773.1 |
| 32.5° | 744.1 | 743.4 | 742.1 | 742.7 |
| 35° | 712.3 | 711.7 | 710.4 | 709.7 |
| 37.5° | 682.6 | 684.6 | 683.3 | 683.3 |
| 40° | 651.5 | 652.2 | 653.5 | 652.9 |
| 42.5° | 625.8 | 625.8 | 627.8 | 625.1 |
| 45° | 594.1 | 598.0 | 597.4 | 597.4 |
| 47.5° | 560.4 | 565.0 | 565.6 | 565.6 |
| 50° | 527.3 | 526.0 | 528.0 | 527.3 |
| 52.5° | 487.0 | 487.7 | 487.0 | 486.3 |
| 55° | 445.4 | 446.0 | 444.7 | 445.4 |
| 57.5° | 401.1 | 398.5 | 400.4 | 399.1 |
| 60° | 352.9 | 347.6 | 346.3 | 343.6 |
| 62.5° | 298.7 | 295.4 | 290.1 | 293.4 |
| 65° | 251.8 | 249.1 | 247.1 | 249.8 |
| 67.5° | 214.1 | 212.8 | 212.8 | 211.5 |
| 70° | 185.7 | 183.7 | 183.7 | 182.4 |
| 72.5° | 156.6 | 154.6 | 155.3 | 154.6 |
| 75° | 120.3 | 117.0 | 117.0 | 117.6 |
| 77.5° | 93.8 | 93.2 | 94.5 | 92.5 |
| 80° | 73.3 | 72.7 | 72.0 | 74.0 |
| 82.5° | 52.9 | 52.9 | 52.9 | 55.5 |
| 85° | 34.4 | 33.0 | 34.4 | 33.0 |
| 87.5° | 15.2 | 14.5 | 13.9 | 14.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)