

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: P334124

Luminaire Tested: **S124DP-S1195D940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DP-S1195D940-4F0-1E-UDD-A
Description: DEFINE 4 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

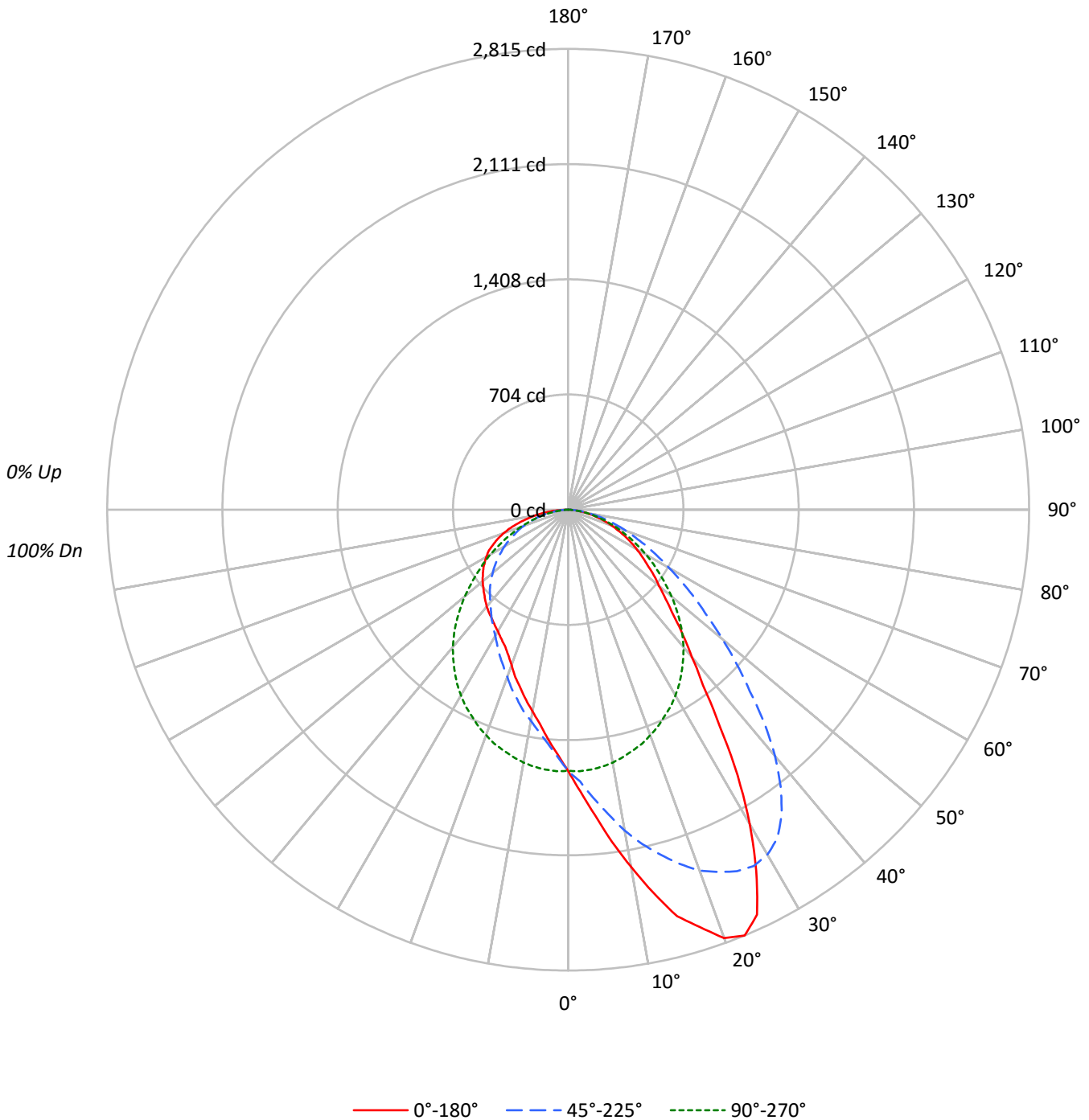
Lumens per Lamp: N/A
Luminaire Lumens: 4401.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (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



TEST NUMBER: P334124
CATALOG NUMBER: S124DP-S1195D940-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334124

CATALOG NUMBER: S124DP-S1195D940-4F0-1E-UDD-A

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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 12878 | 12878 | 12878 |
| 5° | 15165 | 12911 | 11396 |
| 10° | 18157 | 12854 | 10259 |
| 15° | 21484 | 12725 | 9422 |
| 20° | 23923 | 12591 | 8674 |
| 25° | 24309 | 12396 | 8158 |
| 30° | 20685 | 12209 | 7995 |
| 35° | 15903 | 11904 | 7998 |
| 40° | 12395 | 11546 | 8147 |
| 45° | 10336 | 11007 | 8284 |
| 50° | 9095 | 10349 | 8564 |
| 55° | 8334 | 9561 | 8909 |
| 60° | 7810 | 8856 | 9324 |
| 65° | 7270 | 8065 | 9670 |
| 70° | 6644 | 7284 | 9888 |
| 75° | 5936 | 6410 | 9769 |
| 80° | 4974 | 5253 | 9461 |
| 85° | 3668 | 3798 | 9059 |



TEST NUMBER: P334124

CATALOG NUMBER: S124DP-S1195D940-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.2 | 3.5 |
| 10°-20° | 479.2 | 10.9 |
| 20°-30° | 761.2 | 17.3 |
| 30°-40° | 845.8 | 19.2 |
| 40°-50° | 769.3 | 17.5 |
| 50°-60° | 628.6 | 14.3 |
| 60°-70° | 448.7 | 10.2 |
| 70°-80° | 246.9 | 5.6 |
| 80°-90° | 66.7 | 1.5 |
| 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° | 1395.7 | 31.7 |
| 0°-40° | 2241.5 | 50.9 |
| 0°-60° | 3639.4 | 82.7 |
| 0°-90° | 4401.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4401.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1595 | 1595 | 1595 | 1595 | 1595 | |
| 5° | 1871 | 1768 | 1593 | 1432 | 1406 | 189 |
| 15° | 2570 | 2181 | 1522 | 1200 | 1127 | 727 |
| 25° | 2729 | 2436 | 1392 | 987 | 916 | 1211 |
| 35° | 1614 | 2272 | 1208 | 815 | 812 | 1021 |
| 45° | 905 | 1569 | 964 | 675 | 726 | 711 |
| 55° | 592 | 944 | 679 | 528 | 633 | 534 |
| 65° | 381 | 526 | 422 | 367 | 506 | 377 |
| 75° | 190 | 245 | 206 | 204 | 313 | 202 |
| 85° | 40 | 51 | 41 | 58 | 98 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334124

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 |
| 2.5° | 1723.4 | 1722.7 | 1716.1 | 1714.8 | 1710.1 | 1704.2 | 1702.9 | 1692.3 | 1671.2 | 1661.2 | 1658.6 |
| 5° | 1871.4 | 1884.6 | 1867.4 | 1864.1 | 1862.1 | 1840.3 | 1829.1 | 1815.9 | 1785.5 | 1767.6 | 1753.8 |
| 7.5° | 2044.5 | 2045.2 | 2037.9 | 2030.6 | 2018.1 | 1999.6 | 1974.5 | 1945.4 | 1910.4 | 1874.7 | 1849.6 |
| 10° | 2215.0 | 2220.3 | 2211.7 | 2210.4 | 2176.7 | 2155.5 | 2113.2 | 2077.5 | 2036.6 | 1991.0 | 1949.3 |
| 12.5° | 2394.7 | 2384.2 | 2380.8 | 2345.8 | 2346.5 | 2303.5 | 2252.7 | 2215.6 | 2146.9 | 2092.7 | 2033.9 |
| 15° | 2570.5 | 2556.0 | 2546.7 | 2507.7 | 2488.6 | 2435.0 | 2382.8 | 2342.5 | 2259.9 | 2181.3 | 2121.8 |
| 17.5° | 2672.3 | 2690.1 | 2666.3 | 2650.5 | 2598.3 | 2563.2 | 2511.0 | 2428.4 | 2367.0 | 2269.2 | 2201.1 |
| 20° | 2784.6 | 2785.9 | 2774.0 | 2757.5 | 2718.5 | 2670.9 | 2612.8 | 2520.3 | 2443.0 | 2345.8 | 2242.7 |
| 22.5° | 2815.0 | 2815.0 | 2811.7 | 2796.5 | 2769.4 | 2733.1 | 2674.2 | 2600.9 | 2503.1 | 2395.4 | 2292.3 |
| 25° | 2729.1 | 2726.4 | 2732.4 | 2749.6 | 2738.3 | 2726.4 | 2692.7 | 2635.3 | 2548.0 | 2436.4 | 2325.3 |
| 27.5° | 2485.9 | 2503.1 | 2538.8 | 2581.1 | 2611.5 | 2638.6 | 2636.6 | 2612.1 | 2550.0 | 2453.5 | 2335.3 |
| 30° | 2219.0 | 2241.4 | 2266.5 | 2308.8 | 2390.8 | 2437.7 | 2489.2 | 2528.2 | 2506.4 | 2433.1 | 2324.7 |
| 32.5° | 1925.6 | 1926.9 | 1967.2 | 2016.8 | 2090.1 | 2191.2 | 2280.4 | 2369.6 | 2407.9 | 2378.2 | 2292.3 |
| 35° | 1613.7 | 1622.9 | 1663.2 | 1710.8 | 1802.7 | 1913.0 | 2035.9 | 2145.6 | 2236.1 | 2272.5 | 2226.2 |
| 37.5° | 1352.0 | 1381.1 | 1411.5 | 1465.6 | 1549.6 | 1649.3 | 1781.5 | 1918.3 | 2051.1 | 2131.7 | 2140.3 |
| 40° | 1176.2 | 1192.7 | 1213.2 | 1252.2 | 1320.9 | 1418.7 | 1528.4 | 1691.0 | 1834.4 | 1963.9 | 2006.2 |
| 42.5° | 1037.5 | 1045.4 | 1056.0 | 1090.3 | 1138.6 | 1235.7 | 1333.5 | 1471.6 | 1615.6 | 1776.9 | 1854.9 |
| 45° | 905.3 | 915.2 | 936.3 | 956.8 | 996.5 | 1063.9 | 1157.1 | 1274.7 | 1419.4 | 1568.7 | 1699.6 |
| 47.5° | 806.2 | 812.8 | 826.0 | 848.5 | 884.1 | 929.7 | 1009.0 | 1108.8 | 1250.2 | 1394.9 | 1535.0 |
| 50° | 724.2 | 729.5 | 739.4 | 759.3 | 785.0 | 824.7 | 886.8 | 978.6 | 1083.7 | 1229.7 | 1366.5 |
| 52.5° | 659.5 | 660.8 | 667.4 | 679.3 | 698.5 | 730.2 | 778.4 | 850.4 | 946.3 | 1072.5 | 1208.6 |
| 55° | 592.1 | 594.7 | 601.3 | 611.2 | 629.1 | 650.2 | 689.2 | 746.0 | 831.3 | 944.3 | 1062.6 |
| 57.5° | 536.6 | 539.2 | 544.5 | 548.5 | 564.3 | 582.2 | 613.9 | 654.8 | 721.6 | 822.0 | 929.7 |
| 60° | 483.7 | 482.4 | 489.0 | 492.3 | 502.2 | 516.7 | 539.9 | 578.9 | 635.0 | 712.3 | 809.5 |
| 62.5° | 432.2 | 430.2 | 435.5 | 440.1 | 444.7 | 456.6 | 474.5 | 502.9 | 545.8 | 613.9 | 694.5 |
| 65° | 380.6 | 378.0 | 381.3 | 386.6 | 391.9 | 398.5 | 412.3 | 439.4 | 475.8 | 526.0 | 590.1 |
| 67.5° | 327.8 | 331.1 | 331.1 | 334.4 | 337.7 | 346.9 | 356.8 | 378.0 | 403.7 | 444.7 | 501.5 |
| 70° | 281.5 | 282.2 | 284.8 | 284.8 | 286.8 | 294.7 | 302.6 | 313.9 | 339.0 | 376.0 | 420.3 |
| 72.5° | 235.2 | 238.5 | 236.6 | 239.2 | 240.5 | 245.2 | 250.4 | 261.0 | 281.5 | 306.6 | 342.3 |
| 75° | 190.3 | 192.3 | 192.3 | 193.0 | 194.9 | 196.9 | 201.5 | 209.5 | 224.7 | 245.2 | 270.9 |
| 77.5° | 146.7 | 146.7 | 148.0 | 150.7 | 150.7 | 154.0 | 157.9 | 163.9 | 172.5 | 187.7 | 204.2 |
| 80° | 107.0 | 108.4 | 107.7 | 109.0 | 109.0 | 111.7 | 113.0 | 120.9 | 124.2 | 133.5 | 146.0 |
| 82.5° | 71.4 | 72.7 | 72.7 | 74.7 | 76.0 | 76.0 | 78.0 | 80.0 | 83.3 | 91.2 | 94.5 |
| 85° | 39.6 | 41.0 | 39.6 | 41.0 | 43.0 | 43.6 | 45.6 | 46.3 | 48.9 | 50.9 | 55.5 |
| 87.5° | 14.5 | 16.5 | 16.5 | 17.2 | 18.5 | 19.2 | 19.8 | 19.2 | 21.8 | 22.5 | 25.1 |
| 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: P334124

CATALOG NUMBER: S124DP-S1195D940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 |
| 2.5° | 1659.3 | 1650.0 | 1643.4 | 1638.1 | 1623.6 | 1615.0 | 1608.4 | 1599.1 | 1588.6 | 1577.3 | 1563.4 |
| 5° | 1739.9 | 1717.4 | 1700.9 | 1675.8 | 1652.0 | 1632.2 | 1611.7 | 1593.2 | 1570.7 | 1546.3 | 1528.4 |
| 7.5° | 1822.5 | 1791.4 | 1749.8 | 1717.4 | 1678.4 | 1644.7 | 1615.0 | 1583.9 | 1550.9 | 1519.2 | 1489.4 |
| 10° | 1900.5 | 1857.5 | 1809.9 | 1753.8 | 1700.9 | 1654.0 | 1610.4 | 1568.1 | 1527.1 | 1486.1 | 1451.1 |
| 12.5° | 1984.4 | 1928.2 | 1852.2 | 1784.1 | 1723.4 | 1656.6 | 1601.8 | 1547.6 | 1496.0 | 1452.4 | 1410.1 |
| 15° | 2057.7 | 1980.4 | 1899.1 | 1811.2 | 1733.3 | 1659.9 | 1587.9 | 1522.5 | 1467.0 | 1410.1 | 1370.5 |
| 17.5° | 2104.0 | 2008.2 | 1920.9 | 1829.1 | 1739.2 | 1647.4 | 1572.7 | 1499.3 | 1430.6 | 1375.1 | 1325.6 |
| 20° | 2149.6 | 2054.4 | 1938.8 | 1846.9 | 1734.6 | 1639.4 | 1549.6 | 1465.6 | 1393.0 | 1332.8 | 1281.3 |
| 22.5° | 2189.2 | 2075.6 | 1959.9 | 1831.7 | 1720.1 | 1617.6 | 1517.2 | 1432.6 | 1357.9 | 1293.8 | 1244.9 |
| 25° | 2198.5 | 2072.3 | 1946.7 | 1826.4 | 1699.6 | 1580.0 | 1490.8 | 1391.6 | 1312.3 | 1245.6 | 1192.7 |
| 27.5° | 2201.8 | 2068.3 | 1928.9 | 1798.0 | 1667.2 | 1558.2 | 1441.9 | 1355.3 | 1273.4 | 1202.6 | 1152.4 |
| 30° | 2194.5 | 2053.8 | 1901.1 | 1756.4 | 1624.9 | 1504.0 | 1406.2 | 1309.7 | 1225.8 | 1155.7 | 1102.9 |
| 32.5° | 2171.4 | 2023.4 | 1865.4 | 1710.1 | 1572.7 | 1455.1 | 1353.3 | 1262.8 | 1181.5 | 1112.8 | 1056.6 |
| 35° | 2122.5 | 1977.8 | 1810.6 | 1651.3 | 1511.9 | 1392.3 | 1301.1 | 1207.9 | 1126.0 | 1060.6 | 1007.1 |
| 37.5° | 2057.1 | 1922.3 | 1752.4 | 1586.6 | 1452.4 | 1330.8 | 1239.0 | 1153.1 | 1079.1 | 1011.7 | 956.2 |
| 40° | 1965.9 | 1850.9 | 1680.4 | 1519.8 | 1371.8 | 1257.5 | 1172.9 | 1095.6 | 1022.3 | 959.5 | 907.3 |
| 42.5° | 1860.8 | 1764.3 | 1610.4 | 1437.9 | 1296.5 | 1181.5 | 1099.6 | 1032.2 | 964.1 | 907.3 | 855.1 |
| 45° | 1731.9 | 1665.9 | 1517.8 | 1360.6 | 1211.9 | 1103.5 | 1024.9 | 964.1 | 906.0 | 849.1 | 805.5 |
| 47.5° | 1588.6 | 1551.5 | 1422.7 | 1272.0 | 1129.3 | 1020.9 | 952.9 | 894.7 | 841.9 | 792.3 | 753.3 |
| 50° | 1443.8 | 1428.0 | 1320.3 | 1176.2 | 1041.4 | 941.0 | 872.3 | 824.0 | 780.4 | 738.1 | 701.8 |
| 52.5° | 1301.1 | 1304.4 | 1209.9 | 1081.1 | 958.8 | 863.0 | 794.9 | 750.7 | 714.3 | 681.9 | 650.2 |
| 55° | 1155.1 | 1173.6 | 1097.6 | 980.0 | 868.3 | 781.1 | 719.6 | 679.3 | 652.9 | 624.5 | 600.0 |
| 57.5° | 1020.9 | 1052.0 | 985.9 | 878.2 | 783.7 | 700.4 | 646.3 | 615.2 | 586.1 | 567.6 | 548.5 |
| 60° | 890.1 | 919.2 | 870.3 | 783.0 | 695.2 | 626.4 | 575.6 | 548.5 | 524.0 | 512.1 | 499.6 |
| 62.5° | 773.8 | 798.9 | 765.9 | 686.6 | 613.2 | 547.8 | 506.8 | 481.1 | 466.5 | 453.3 | 446.0 |
| 65° | 664.1 | 685.9 | 654.8 | 596.0 | 530.6 | 477.8 | 442.7 | 422.2 | 406.4 | 401.1 | 391.9 |
| 67.5° | 555.7 | 575.6 | 559.0 | 507.5 | 452.0 | 410.4 | 382.6 | 360.8 | 351.5 | 346.3 | 340.3 |
| 70° | 461.2 | 481.1 | 463.2 | 419.6 | 379.3 | 345.6 | 319.8 | 308.6 | 298.7 | 296.7 | 287.4 |
| 72.5° | 381.3 | 393.2 | 375.3 | 343.6 | 310.6 | 283.5 | 265.0 | 253.1 | 249.1 | 245.2 | 241.2 |
| 75° | 298.0 | 309.9 | 298.0 | 271.6 | 247.1 | 227.3 | 210.1 | 205.5 | 199.6 | 197.6 | 194.3 |
| 77.5° | 223.3 | 234.6 | 225.3 | 207.5 | 188.3 | 171.8 | 161.9 | 155.3 | 154.6 | 150.7 | 152.0 |
| 80° | 161.2 | 167.8 | 159.3 | 148.0 | 133.5 | 122.9 | 116.3 | 113.0 | 109.0 | 107.7 | 110.4 |
| 82.5° | 104.4 | 106.4 | 103.1 | 96.5 | 86.6 | 80.6 | 76.7 | 72.7 | 72.7 | 73.3 | 72.7 |
| 85° | 60.1 | 59.5 | 58.8 | 52.2 | 48.9 | 44.3 | 41.6 | 41.0 | 40.3 | 41.6 | 43.0 |
| 87.5° | 25.1 | 25.8 | 25.1 | 22.5 | 20.5 | 18.5 | 17.8 | 17.2 | 17.8 | 18.5 | 19.2 |
| 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: P334124

CATALOG NUMBER: S124DP-S1195D940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 | 1595.2 |
| 2.5° | 1556.8 | 1550.9 | 1542.3 | 1530.4 | 1520.5 | 1509.9 | 1507.3 | 1503.3 | 1511.2 | 1504.6 | 1502.7 |
| 5° | 1513.2 | 1499.3 | 1481.5 | 1461.0 | 1449.1 | 1431.9 | 1428.6 | 1422.0 | 1415.4 | 1414.8 | 1408.2 |
| 7.5° | 1467.6 | 1448.5 | 1426.0 | 1404.9 | 1386.4 | 1367.8 | 1356.0 | 1354.6 | 1344.1 | 1338.8 | 1332.2 |
| 10° | 1424.0 | 1398.9 | 1371.8 | 1352.0 | 1329.5 | 1309.7 | 1295.8 | 1287.9 | 1281.3 | 1274.0 | 1267.4 |
| 12.5° | 1372.5 | 1345.4 | 1324.2 | 1302.4 | 1274.7 | 1260.8 | 1235.7 | 1220.5 | 1220.5 | 1222.5 | 1202.6 |
| 15° | 1334.8 | 1308.4 | 1274.0 | 1243.6 | 1229.1 | 1200.0 | 1187.5 | 1171.6 | 1161.7 | 1151.8 | 1143.8 |
| 17.5° | 1288.6 | 1256.2 | 1229.7 | 1195.4 | 1168.3 | 1146.5 | 1129.3 | 1120.7 | 1104.9 | 1090.3 | 1080.4 |
| 20° | 1245.6 | 1210.6 | 1182.2 | 1145.2 | 1114.8 | 1086.3 | 1072.5 | 1059.3 | 1048.0 | 1036.1 | 1024.9 |
| 22.5° | 1202.0 | 1165.0 | 1128.6 | 1093.0 | 1065.2 | 1034.8 | 1021.6 | 1002.4 | 991.9 | 986.6 | 975.3 |
| 25° | 1155.7 | 1116.1 | 1076.4 | 1042.1 | 1013.0 | 986.6 | 968.7 | 954.9 | 943.0 | 937.7 | 930.4 |
| 27.5° | 1105.5 | 1066.5 | 1028.9 | 989.2 | 955.5 | 936.3 | 921.8 | 910.6 | 903.3 | 895.4 | 892.1 |
| 30° | 1057.9 | 1017.0 | 976.0 | 939.7 | 909.3 | 890.1 | 876.9 | 869.6 | 864.3 | 861.0 | 857.7 |
| 32.5° | 1009.7 | 969.4 | 925.8 | 893.4 | 867.0 | 850.4 | 841.2 | 833.9 | 831.9 | 831.3 | 830.6 |
| 35° | 957.5 | 916.5 | 876.9 | 847.1 | 821.4 | 814.8 | 806.2 | 802.2 | 800.9 | 805.5 | 807.5 |
| 37.5° | 907.3 | 868.9 | 831.9 | 802.2 | 785.0 | 774.5 | 771.1 | 770.5 | 775.1 | 779.1 | 783.7 |
| 40° | 859.0 | 822.0 | 787.7 | 762.6 | 746.7 | 740.8 | 739.4 | 742.7 | 748.0 | 752.6 | 757.9 |
| 42.5° | 812.1 | 775.8 | 745.4 | 722.3 | 712.3 | 707.1 | 708.4 | 711.7 | 719.6 | 725.6 | 734.1 |
| 45° | 763.2 | 732.8 | 702.4 | 683.3 | 674.0 | 675.3 | 675.3 | 681.3 | 688.5 | 697.1 | 705.7 |
| 47.5° | 717.6 | 686.6 | 660.8 | 644.3 | 639.7 | 637.7 | 641.0 | 648.9 | 658.8 | 668.7 | 680.6 |
| 50° | 671.4 | 642.3 | 620.5 | 606.0 | 600.7 | 602.6 | 607.9 | 615.2 | 627.8 | 641.0 | 653.5 |
| 52.5° | 624.5 | 598.7 | 578.9 | 565.6 | 562.3 | 566.3 | 571.6 | 584.1 | 594.7 | 609.3 | 625.1 |
| 55° | 575.6 | 553.1 | 537.2 | 527.3 | 526.0 | 528.0 | 533.9 | 546.5 | 562.3 | 580.2 | 594.7 |
| 57.5° | 527.3 | 508.2 | 493.0 | 485.7 | 486.3 | 487.7 | 496.9 | 512.1 | 528.0 | 547.1 | 565.6 |
| 60° | 478.4 | 461.2 | 449.3 | 444.1 | 444.7 | 448.7 | 460.6 | 474.5 | 495.6 | 514.1 | 533.9 |
| 62.5° | 432.2 | 417.6 | 406.4 | 401.8 | 400.4 | 410.4 | 421.6 | 436.1 | 457.3 | 478.4 | 500.2 |
| 65° | 381.9 | 370.0 | 360.8 | 358.2 | 360.1 | 366.7 | 381.3 | 400.4 | 418.3 | 440.1 | 462.6 |
| 67.5° | 333.0 | 323.1 | 316.5 | 317.8 | 319.8 | 329.1 | 341.6 | 358.2 | 378.0 | 400.4 | 423.6 |
| 70° | 286.8 | 277.5 | 272.2 | 272.9 | 276.9 | 288.8 | 299.3 | 315.9 | 337.7 | 360.8 | 379.3 |
| 72.5° | 239.2 | 233.9 | 229.3 | 232.6 | 236.6 | 243.8 | 257.7 | 274.2 | 292.7 | 313.9 | 333.7 |
| 75° | 191.0 | 191.0 | 188.3 | 190.3 | 196.3 | 204.2 | 214.1 | 231.3 | 250.4 | 267.6 | 283.5 |
| 77.5° | 150.0 | 148.0 | 149.3 | 151.3 | 155.3 | 165.2 | 176.4 | 189.0 | 204.2 | 222.0 | 235.2 |
| 80° | 108.4 | 109.0 | 112.3 | 116.3 | 117.6 | 124.9 | 136.8 | 148.0 | 159.3 | 173.8 | 186.3 |
| 82.5° | 74.7 | 75.3 | 76.7 | 81.9 | 83.3 | 91.2 | 97.8 | 109.0 | 118.9 | 127.5 | 137.4 |
| 85° | 44.3 | 44.3 | 47.6 | 49.6 | 52.9 | 58.2 | 62.8 | 69.4 | 78.6 | 85.2 | 95.2 |
| 87.5° | 21.1 | 21.1 | 23.8 | 25.1 | 27.1 | 30.4 | 31.7 | 39.0 | 41.6 | 44.9 | 50.9 |
| 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: P334124

CATALOG NUMBER: S124DP-S1195D940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1595.2 | 1595.2 | 1595.2 | 1595.2 |
| 2.5° | 1501.3 | 1500.0 | 1495.4 | 1494.7 |
| 5° | 1404.2 | 1400.9 | 1398.9 | 1406.2 |
| 7.5° | 1330.8 | 1328.2 | 1322.3 | 1320.3 |
| 10° | 1260.8 | 1258.2 | 1252.9 | 1251.5 |
| 12.5° | 1193.4 | 1187.5 | 1187.5 | 1189.4 |
| 15° | 1135.2 | 1132.6 | 1125.3 | 1127.3 |
| 17.5° | 1075.8 | 1073.1 | 1063.2 | 1073.1 |
| 20° | 1020.3 | 1015.0 | 1010.4 | 1009.7 |
| 22.5° | 967.4 | 962.8 | 963.4 | 958.2 |
| 25° | 925.1 | 920.5 | 919.2 | 915.9 |
| 27.5° | 890.8 | 888.1 | 885.5 | 886.8 |
| 30° | 859.7 | 859.0 | 857.7 | 857.7 |
| 32.5° | 833.9 | 833.9 | 835.2 | 835.2 |
| 35° | 810.1 | 812.1 | 813.4 | 811.5 |
| 37.5° | 789.0 | 790.3 | 792.3 | 794.3 |
| 40° | 763.9 | 768.5 | 769.8 | 773.1 |
| 42.5° | 740.1 | 745.4 | 749.3 | 749.3 |
| 45° | 715.6 | 720.9 | 725.6 | 725.6 |
| 47.5° | 690.5 | 697.8 | 702.4 | 703.1 |
| 50° | 664.8 | 674.0 | 678.6 | 681.9 |
| 52.5° | 639.7 | 648.9 | 655.5 | 656.8 |
| 55° | 609.9 | 623.1 | 630.4 | 633.0 |
| 57.5° | 583.5 | 595.4 | 603.3 | 605.3 |
| 60° | 551.8 | 565.0 | 575.6 | 577.5 |
| 62.5° | 519.4 | 533.3 | 542.5 | 548.5 |
| 65° | 481.1 | 494.9 | 504.2 | 506.2 |
| 67.5° | 440.8 | 455.3 | 461.2 | 465.2 |
| 70° | 397.8 | 409.0 | 415.6 | 418.9 |
| 72.5° | 348.9 | 360.8 | 368.7 | 368.7 |
| 75° | 298.7 | 309.3 | 313.2 | 313.2 |
| 77.5° | 246.5 | 252.4 | 257.7 | 259.0 |
| 80° | 196.3 | 199.6 | 203.5 | 203.5 |
| 82.5° | 144.7 | 147.4 | 151.3 | 150.7 |
| 85° | 93.8 | 99.8 | 99.1 | 97.8 |
| 87.5° | 52.9 | 53.5 | 55.5 | 56.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)