

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: P333014-840

Luminaire Tested: **SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333014-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

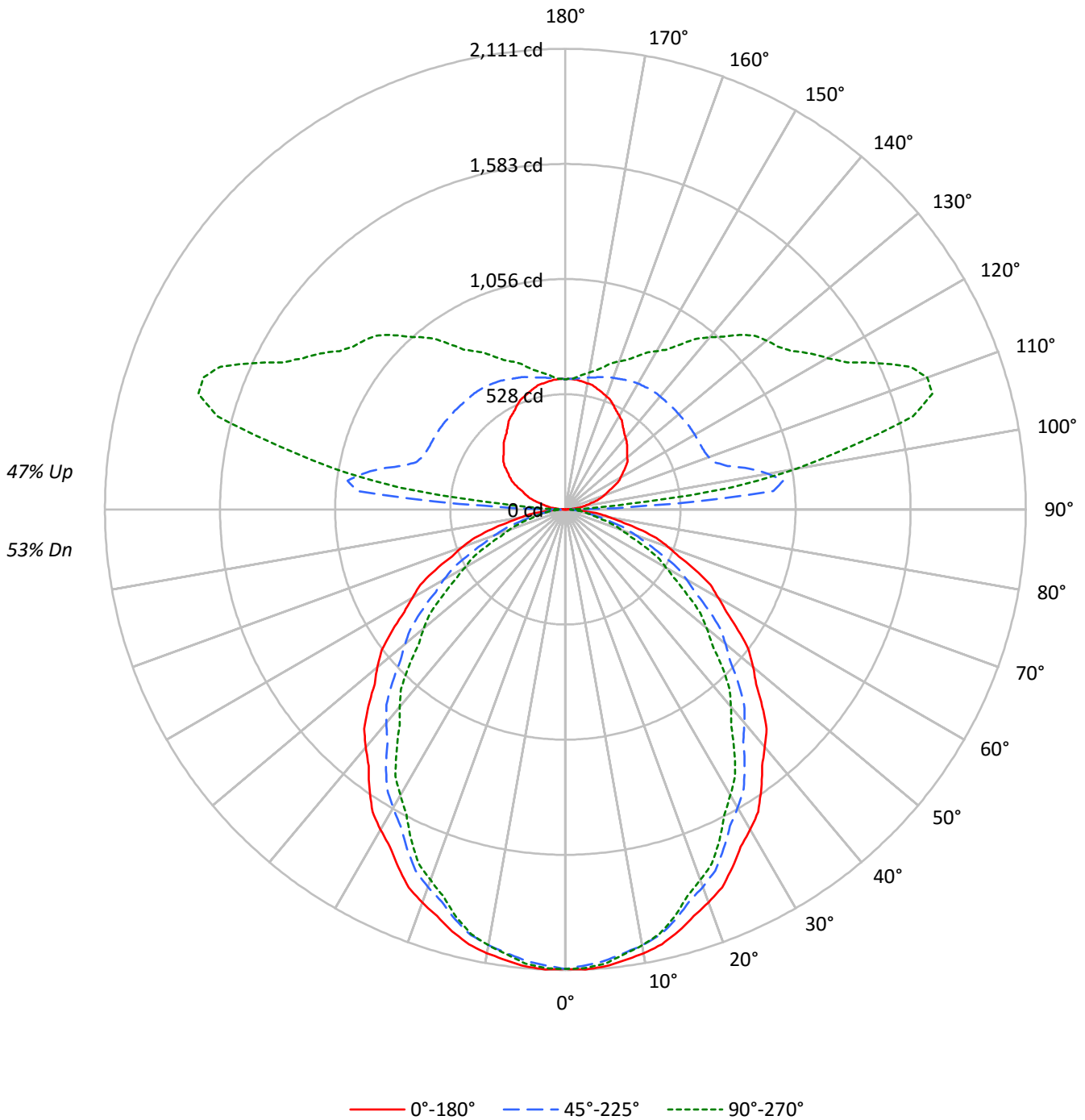
Lumens per Lamp: N/A
Luminaire Lumens: 9213.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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: P333014-840
CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P333014-840

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 | 53 | | | | |
| 1 | 99 | 94 | 91 | 87 | 91 | 88 | 84 | 81 | 75 | 73 | 70 | 63 | 62 | 60 | 52 | 51 | 50 | 45 | | | | |
| 2 | 90 | 83 | 77 | 72 | 83 | 77 | 72 | 67 | 66 | 62 | 59 | 56 | 53 | 51 | 46 | 44 | 43 | 38 | | | | |
| 3 | 82 | 73 | 66 | 60 | 76 | 68 | 62 | 57 | 58 | 54 | 50 | 50 | 46 | 43 | 41 | 39 | 37 | 33 | | | | |
| 4 | 75 | 65 | 57 | 51 | 70 | 60 | 53 | 48 | 52 | 47 | 43 | 44 | 40 | 37 | 37 | 34 | 32 | 28 | | | | |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 42 | 47 | 41 | 37 | 40 | 36 | 32 | 34 | 30 | 28 | 25 | | | | |
| 6 | 64 | 52 | 44 | 38 | 59 | 49 | 41 | 36 | 42 | 37 | 32 | 36 | 32 | 28 | 31 | 27 | 25 | 22 | | | | |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 38 | 33 | 29 | 33 | 29 | 25 | 28 | 25 | 22 | 19 | | | | |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 23 | 26 | 22 | 20 | 17 | | | | |
| 9 | 51 | 39 | 32 | 27 | 48 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 18 | 16 | | | | |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 30 | 24 | 21 | 26 | 21 | 18 | 22 | 19 | 16 | 14 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17002 | 17002 | 17002 |
| 5° | 17040 | 16832 | 16936 |
| 10° | 16934 | 16629 | 16629 |
| 15° | 16739 | 16280 | 16160 |
| 20° | 16472 | 15821 | 15530 |
| 25° | 16131 | 15284 | 14895 |
| 30° | 15800 | 14716 | 14100 |
| 35° | 15431 | 14128 | 13302 |
| 40° | 14989 | 13460 | 12440 |
| 45° | 14582 | 12795 | 11562 |
| 50° | 14117 | 12031 | 10633 |
| 55° | 13619 | 11234 | 9623 |
| 60° | 13070 | 10362 | 8591 |
| 65° | 12567 | 9270 | 7578 |
| 70° | 11837 | 8068 | 6434 |
| 75° | 10914 | 6691 | 5231 |
| 80° | 9521 | 5100 | 4798 |
| 85° | 8068 | 4631 | 4335 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 197.8 | 2.1 |
| 10°-20° | 551.7 | 6.0 |
| 20°-30° | 796.6 | 8.6 |
| 30°-40° | 903.0 | 9.8 |
| 40°-50° | 872.0 | 9.5 |
| 50°-60° | 725.1 | 7.9 |
| 60°-70° | 500.7 | 5.4 |
| 70°-80° | 253.8 | 2.8 |
| 80°-90° | 68.4 | 0.7 |
| 90°-100° | 431.4 | 4.7 |
| 100°-110° | 897.9 | 9.7 |
| 110°-120° | 804.2 | 8.7 |
| 120°-130° | 676.5 | 7.3 |
| 130°-140° | 564.1 | 6.1 |
| 140°-150° | 430.9 | 4.7 |
| 150°-160° | 302.9 | 3.3 |
| 160°-170° | 178.2 | 1.9 |
| 170°-180° | 58.0 | 0.6 |
| 0°-30° | 1546.1 | 16.8 |
| 0°-40° | 2449.1 | 26.6 |
| 0°-60° | 4046.2 | 43.9 |
| 0°-90° | 4869.1 | 52.8 |
| 90°-120° | 2133.5 | 23.2 |
| 90°-150° | 3805.0 | 41.3 |
| 90°-180° | 4344.0 | 47.2 |
| 0°-180° | 9213.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2106 | 2106 | 2106 | 2106 | 2106 | |
| 5° | 2103 | 2096 | 2077 | 2092 | 2090 | 199 |
| 15° | 2003 | 1987 | 1948 | 1944 | 1934 | 564 |
| 25° | 1811 | 1780 | 1716 | 1689 | 1672 | 834 |
| 35° | 1566 | 1513 | 1434 | 1380 | 1350 | 978 |
| 45° | 1277 | 1215 | 1121 | 1044 | 1013 | 984 |
| 55° | 968 | 901 | 798 | 717 | 684 | 865 |
| 65° | 658 | 587 | 485 | 419 | 397 | 649 |
| 75° | 350 | 289 | 214 | 179 | 168 | 369 |
| 85° | 87 | 56 | 50 | 47 | 47 | 98 |
| 90° | 1 | 9 | 21 | 23 | 25 | 6 |
| 95° | 39 | 122 | 956 | 474 | 286 | 43 |
| 105° | 137 | 199 | 770 | 1658 | 1651 | 146 |
| 115° | 242 | 303 | 686 | 1319 | 1585 | 240 |
| 125° | 337 | 400 | 683 | 1122 | 1265 | 300 |
| 135° | 400 | 476 | 677 | 996 | 1131 | 309 |
| 145° | 461 | 528 | 674 | 840 | 924 | 289 |
| 155° | 524 | 566 | 655 | 742 | 773 | 242 |
| 165° | 572 | 589 | 628 | 665 | 675 | 161 |
| 175° | 596 | 597 | 602 | 610 | 608 | 57 |
| 180° | 597 | 597 | 597 | 597 | 597 | |



TEST NUMBER: P333014-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 |
| 2.5° | 2111.1 | 2110.0 | 2108.9 | 2107.7 | 2106.6 | 2104.5 | 2101.3 | 2098.1 | 2095.0 | 2091.8 | 2095.0 |
| 5° | 2102.7 | 2101.3 | 2099.9 | 2098.5 | 2097.1 | 2094.2 | 2089.9 | 2085.6 | 2081.3 | 2077.0 | 2080.5 |
| 7.5° | 2083.8 | 2082.2 | 2080.7 | 2079.2 | 2077.7 | 2074.2 | 2068.6 | 2063.1 | 2057.4 | 2051.8 | 2054.2 |
| 10° | 2065.7 | 2063.9 | 2062.1 | 2060.3 | 2058.5 | 2054.4 | 2048.0 | 2041.5 | 2035.1 | 2028.6 | 2030.0 |
| 12.5° | 2042.5 | 2040.4 | 2038.3 | 2036.2 | 2034.2 | 2029.3 | 2021.7 | 2014.2 | 2006.5 | 1998.9 | 1999.8 |
| 15° | 2002.8 | 1999.5 | 1996.4 | 1993.2 | 1989.9 | 1983.8 | 1974.9 | 1965.9 | 1956.9 | 1947.9 | 1947.2 |
| 17.5° | 1954.8 | 1950.0 | 1945.4 | 1940.8 | 1936.1 | 1928.4 | 1917.6 | 1906.9 | 1896.1 | 1885.4 | 1883.4 |
| 20° | 1917.3 | 1912.7 | 1908.0 | 1903.4 | 1898.7 | 1890.3 | 1878.1 | 1865.9 | 1853.7 | 1841.6 | 1838.7 |
| 22.5° | 1876.0 | 1870.9 | 1865.6 | 1860.4 | 1855.1 | 1846.0 | 1832.9 | 1819.9 | 1806.9 | 1793.8 | 1789.5 |
| 25° | 1810.9 | 1804.4 | 1798.0 | 1791.6 | 1785.1 | 1774.5 | 1759.9 | 1745.1 | 1730.5 | 1715.8 | 1709.7 |
| 27.5° | 1742.5 | 1734.4 | 1726.4 | 1718.3 | 1710.1 | 1698.3 | 1682.5 | 1666.9 | 1651.1 | 1635.5 | 1627.9 |
| 30° | 1694.9 | 1685.9 | 1676.9 | 1667.9 | 1659.0 | 1646.1 | 1629.2 | 1612.4 | 1595.6 | 1578.7 | 1569.7 |
| 32.5° | 1644.5 | 1634.4 | 1624.3 | 1614.2 | 1604.1 | 1590.3 | 1572.9 | 1555.5 | 1538.0 | 1520.7 | 1510.3 |
| 35° | 1565.8 | 1554.3 | 1542.9 | 1531.4 | 1519.9 | 1505.2 | 1487.3 | 1469.5 | 1451.5 | 1433.6 | 1421.4 |
| 37.5° | 1481.7 | 1469.8 | 1457.9 | 1446.1 | 1434.3 | 1418.5 | 1398.7 | 1378.8 | 1359.0 | 1339.1 | 1325.4 |
| 40° | 1422.3 | 1410.5 | 1398.7 | 1386.8 | 1374.9 | 1358.9 | 1338.5 | 1318.0 | 1297.6 | 1277.2 | 1262.1 |
| 42.5° | 1365.5 | 1353.1 | 1340.7 | 1328.3 | 1316.0 | 1299.1 | 1277.8 | 1256.5 | 1235.3 | 1214.0 | 1198.6 |
| 45° | 1277.2 | 1263.8 | 1250.6 | 1237.4 | 1224.2 | 1206.7 | 1185.3 | 1163.8 | 1142.3 | 1120.7 | 1103.2 |
| 47.5° | 1185.9 | 1172.2 | 1158.5 | 1144.8 | 1131.1 | 1113.1 | 1090.8 | 1068.3 | 1046.0 | 1023.7 | 1005.4 |
| 50° | 1124.0 | 1109.9 | 1096.0 | 1082.1 | 1068.0 | 1049.6 | 1026.6 | 1003.7 | 980.8 | 957.9 | 940.0 |
| 52.5° | 1060.8 | 1047.0 | 1033.4 | 1019.7 | 1006.0 | 987.3 | 963.9 | 940.4 | 916.9 | 893.3 | 875.1 |
| 55° | 967.6 | 953.2 | 938.9 | 924.5 | 910.2 | 891.4 | 868.1 | 844.9 | 821.5 | 798.2 | 779.6 |
| 57.5° | 875.3 | 860.4 | 845.5 | 830.6 | 815.7 | 796.8 | 773.9 | 750.8 | 727.9 | 705.0 | 686.1 |
| 60° | 809.5 | 795.2 | 780.8 | 766.5 | 752.1 | 733.6 | 710.6 | 687.7 | 664.7 | 641.8 | 623.2 |
| 62.5° | 750.1 | 735.3 | 720.3 | 705.5 | 690.5 | 671.4 | 647.8 | 624.3 | 600.8 | 577.3 | 560.1 |
| 65° | 657.9 | 642.5 | 627.1 | 611.7 | 596.3 | 577.1 | 554.2 | 531.3 | 508.4 | 485.3 | 470.0 |
| 67.5° | 562.1 | 547.3 | 532.6 | 517.9 | 503.1 | 485.0 | 463.7 | 442.5 | 421.2 | 399.9 | 386.7 |
| 70° | 501.5 | 486.5 | 471.4 | 456.4 | 441.3 | 423.5 | 403.1 | 382.7 | 362.3 | 341.8 | 330.0 |
| 72.5° | 437.0 | 423.4 | 409.8 | 396.2 | 382.5 | 366.1 | 346.8 | 327.5 | 308.2 | 288.9 | 278.8 |
| 75° | 349.9 | 336.7 | 323.4 | 310.1 | 296.9 | 281.9 | 265.0 | 248.1 | 231.4 | 214.5 | 206.2 |
| 77.5° | 261.6 | 250.3 | 239.0 | 227.8 | 216.5 | 204.1 | 190.5 | 176.9 | 163.3 | 149.7 | 144.8 |
| 80° | 204.8 | 194.4 | 184.0 | 173.6 | 163.2 | 152.7 | 141.9 | 131.2 | 120.4 | 109.7 | 108.6 |
| 82.5° | 155.8 | 146.2 | 136.7 | 127.1 | 117.6 | 109.8 | 103.6 | 97.5 | 91.3 | 85.1 | 84.3 |
| 85° | 87.1 | 79.9 | 72.7 | 65.5 | 58.4 | 54.3 | 53.2 | 52.1 | 51.1 | 50.0 | 49.3 |
| 87.5° | 29.9 | 28.1 | 26.5 | 24.4 | 22.4 | 21.1 | 22.2 | 21.9 | 22.1 | 22.3 | 21.8 |
| 90° | 1.2 | 3.5 | 7.1 | 8.2 | 9.4 | 9.4 | 16.5 | 16.5 | 18.8 | 21.1 | 20.0 |
| 92.5° | 13.3 | 19.5 | 30.5 | 44.8 | 62.0 | 86.3 | 146.0 | 237.0 | 325.8 | 372.2 | 310.0 |
| 95° | 38.7 | 42.2 | 54.0 | 69.3 | 97.4 | 146.7 | 248.7 | 441.2 | 721.6 | 956.3 | 983.4 |
| 97.5° | 69.5 | 69.5 | 79.6 | 93.6 | 117.9 | 159.2 | 237.7 | 396.7 | 675.4 | 1007.3 | 1235.5 |
| 100° | 89.2 | 89.2 | 97.4 | 111.5 | 133.8 | 171.4 | 240.5 | 373.1 | 612.6 | 943.4 | 1243.9 |
| 102.5° | 108.0 | 109.9 | 117.1 | 130.3 | 151.6 | 187.3 | 249.9 | 366.6 | 570.3 | 863.6 | 1173.5 |
| 105° | 137.3 | 140.8 | 146.7 | 160.8 | 181.9 | 215.9 | 272.3 | 369.6 | 533.9 | 769.8 | 1045.5 |
| 107.5° | 169.7 | 172.0 | 177.9 | 192.9 | 213.1 | 246.7 | 298.3 | 387.0 | 527.4 | 717.2 | 942.3 |
| 110° | 191.3 | 193.6 | 199.4 | 213.6 | 234.7 | 266.4 | 318.0 | 400.1 | 529.3 | 699.4 | 890.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 212.0 | 214.3 | 221.1 | 234.2 | 255.4 | 287.0 | 336.8 | 414.2 | 534.8 | 690.9 | 861.5 |
| 115° | 241.8 | 245.3 | 253.5 | 265.2 | 287.5 | 319.2 | 366.1 | 436.6 | 545.6 | 686.5 | 834.4 |
| 117.5° | 272.7 | 276.0 | 283.3 | 296.2 | 317.1 | 349.9 | 394.6 | 459.3 | 557.1 | 685.3 | 822.1 |
| 120° | 293.4 | 295.7 | 304.0 | 316.8 | 336.8 | 369.6 | 414.2 | 475.2 | 565.6 | 685.3 | 815.6 |
| 122.5° | 312.1 | 314.5 | 322.8 | 334.7 | 356.5 | 388.4 | 433.0 | 490.3 | 574.1 | 684.4 | 808.1 |
| 125° | 336.8 | 341.4 | 348.5 | 361.4 | 383.7 | 416.6 | 458.8 | 512.8 | 586.7 | 683.0 | 795.6 |
| 127.5° | 358.6 | 362.3 | 370.8 | 385.6 | 408.8 | 441.9 | 482.7 | 532.3 | 596.8 | 680.3 | 778.9 |
| 130° | 370.8 | 375.5 | 384.9 | 402.5 | 424.7 | 458.8 | 498.8 | 544.5 | 604.3 | 679.4 | 768.6 |
| 132.5° | 383.0 | 386.8 | 399.0 | 415.7 | 439.8 | 472.0 | 511.9 | 556.7 | 610.9 | 678.5 | 759.2 |
| 135° | 400.1 | 404.9 | 416.6 | 436.6 | 461.2 | 491.7 | 530.4 | 572.7 | 620.8 | 677.1 | 745.2 |
| 137.5° | 417.3 | 421.7 | 434.6 | 453.6 | 479.3 | 508.4 | 544.5 | 583.9 | 626.6 | 676.8 | 733.0 |
| 140° | 429.5 | 433.0 | 446.0 | 465.9 | 490.5 | 518.7 | 553.9 | 591.4 | 631.4 | 675.9 | 726.4 |
| 142.5° | 442.6 | 446.2 | 458.1 | 477.2 | 500.8 | 528.1 | 562.3 | 597.0 | 635.1 | 675.9 | 720.7 |
| 145° | 461.2 | 464.7 | 476.5 | 492.8 | 515.1 | 541.0 | 571.5 | 603.2 | 637.2 | 673.6 | 711.1 |
| 147.5° | 482.0 | 483.2 | 493.5 | 510.5 | 529.0 | 552.2 | 580.9 | 608.5 | 638.3 | 669.3 | 702.5 |
| 150° | 495.2 | 496.3 | 505.7 | 519.9 | 537.5 | 559.8 | 585.5 | 611.4 | 638.3 | 666.5 | 695.9 |
| 152.5° | 507.4 | 507.7 | 517.1 | 530.2 | 545.9 | 566.3 | 589.4 | 613.3 | 636.5 | 661.9 | 688.3 |
| 155° | 524.5 | 525.7 | 532.7 | 544.5 | 557.4 | 575.0 | 594.9 | 614.9 | 633.7 | 654.8 | 677.1 |
| 157.5° | 541.2 | 541.2 | 547.8 | 556.9 | 568.2 | 582.1 | 599.0 | 614.9 | 630.7 | 647.5 | 665.6 |
| 160° | 551.5 | 551.5 | 556.2 | 564.4 | 573.8 | 586.7 | 600.8 | 614.9 | 627.8 | 641.9 | 657.1 |
| 162.5° | 560.9 | 560.0 | 563.7 | 571.0 | 579.5 | 589.6 | 602.7 | 614.9 | 625.0 | 636.2 | 649.6 |
| 165° | 571.5 | 571.5 | 573.8 | 579.7 | 585.5 | 592.6 | 603.2 | 612.6 | 619.6 | 627.8 | 637.2 |
| 167.5° | 582.1 | 580.9 | 582.1 | 586.5 | 589.8 | 595.2 | 602.9 | 609.8 | 614.0 | 619.4 | 625.9 |
| 170° | 586.7 | 585.5 | 586.7 | 590.3 | 592.6 | 596.1 | 602.0 | 607.8 | 610.2 | 613.7 | 618.4 |
| 172.5° | 591.4 | 590.3 | 590.5 | 593.1 | 594.5 | 597.0 | 601.1 | 606.0 | 606.4 | 608.0 | 611.9 |
| 175° | 596.1 | 594.9 | 594.9 | 596.1 | 597.3 | 597.3 | 599.7 | 603.2 | 602.0 | 602.0 | 604.3 |
| 177.5° | 598.2 | 597.3 | 596.3 | 597.3 | 597.3 | 597.3 | 598.2 | 600.1 | 598.2 | 598.2 | 599.2 |
| 180° | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 |



TEST NUMBER: P333014-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 | 2106.0 |
| 2.5° | 2098.1 | 2101.3 | 2104.5 | 2105.9 | 2105.6 | 2105.3 | 2105.0 | 2104.8 |
| 5° | 2084.2 | 2087.7 | 2091.3 | 2092.7 | 2092.0 | 2091.3 | 2090.6 | 2089.9 |
| 7.5° | 2056.4 | 2058.7 | 2061.0 | 2061.5 | 2060.4 | 2059.3 | 2058.1 | 2057.0 |
| 10° | 2031.4 | 2032.9 | 2034.4 | 2034.4 | 2032.9 | 2031.4 | 2030.0 | 2028.6 |
| 12.5° | 2000.6 | 2001.6 | 2002.4 | 2001.8 | 1999.8 | 1997.8 | 1995.8 | 1993.8 |
| 15° | 1946.5 | 1945.8 | 1945.1 | 1943.5 | 1941.0 | 1938.4 | 1936.0 | 1933.5 |
| 17.5° | 1881.4 | 1879.4 | 1877.3 | 1874.5 | 1870.7 | 1866.8 | 1863.1 | 1859.3 |
| 20° | 1835.8 | 1832.9 | 1830.1 | 1826.3 | 1821.7 | 1817.1 | 1812.3 | 1807.7 |
| 22.5° | 1785.2 | 1780.9 | 1776.7 | 1772.6 | 1768.8 | 1764.9 | 1761.2 | 1757.4 |
| 25° | 1703.5 | 1697.5 | 1691.4 | 1686.6 | 1682.9 | 1679.4 | 1675.8 | 1672.2 |
| 27.5° | 1620.4 | 1612.9 | 1605.4 | 1599.0 | 1593.9 | 1588.7 | 1583.6 | 1578.4 |
| 30° | 1560.7 | 1551.9 | 1542.9 | 1535.5 | 1529.7 | 1524.1 | 1518.3 | 1512.6 |
| 32.5° | 1499.9 | 1489.4 | 1479.0 | 1471.2 | 1465.7 | 1460.3 | 1454.8 | 1449.4 |
| 35° | 1409.2 | 1397.0 | 1384.8 | 1375.5 | 1369.1 | 1362.6 | 1356.1 | 1349.7 |
| 37.5° | 1311.8 | 1298.2 | 1284.6 | 1274.6 | 1268.1 | 1261.6 | 1255.3 | 1248.8 |
| 40° | 1247.1 | 1232.0 | 1217.0 | 1206.2 | 1199.7 | 1193.3 | 1186.9 | 1180.4 |
| 42.5° | 1183.3 | 1167.9 | 1152.6 | 1141.6 | 1134.8 | 1128.1 | 1121.4 | 1114.6 |
| 45° | 1085.6 | 1068.0 | 1050.5 | 1038.4 | 1032.1 | 1025.6 | 1019.2 | 1012.7 |
| 47.5° | 987.2 | 969.1 | 950.9 | 938.2 | 931.1 | 924.0 | 916.9 | 909.8 |
| 50° | 922.0 | 904.1 | 886.2 | 873.8 | 867.1 | 860.2 | 853.4 | 846.6 |
| 52.5° | 857.0 | 838.8 | 820.5 | 807.9 | 800.8 | 793.8 | 786.6 | 779.5 |
| 55° | 760.9 | 742.4 | 723.7 | 710.9 | 704.2 | 697.3 | 690.5 | 683.7 |
| 57.5° | 667.2 | 648.2 | 629.3 | 617.3 | 612.2 | 606.9 | 601.8 | 596.6 |
| 60° | 604.5 | 585.9 | 567.2 | 555.1 | 549.4 | 543.6 | 537.9 | 532.1 |
| 62.5° | 542.9 | 525.7 | 508.5 | 497.6 | 493.0 | 488.5 | 483.8 | 479.3 |
| 65° | 454.5 | 439.2 | 423.7 | 413.8 | 409.6 | 405.3 | 401.0 | 396.7 |
| 67.5° | 373.4 | 360.1 | 346.9 | 337.9 | 333.2 | 328.4 | 323.7 | 318.9 |
| 70° | 318.2 | 306.4 | 294.6 | 286.9 | 283.3 | 279.7 | 276.1 | 272.6 |
| 72.5° | 268.7 | 258.6 | 248.5 | 241.9 | 238.5 | 235.3 | 232.0 | 228.6 |
| 75° | 198.0 | 189.8 | 181.5 | 176.3 | 174.2 | 172.0 | 169.9 | 167.7 |
| 77.5° | 140.1 | 135.2 | 130.5 | 127.7 | 127.0 | 126.4 | 125.8 | 125.1 |
| 80° | 107.6 | 106.4 | 105.3 | 104.6 | 104.3 | 103.9 | 103.6 | 103.2 |
| 82.5° | 83.6 | 82.8 | 82.0 | 81.4 | 81.1 | 80.7 | 80.4 | 80.0 |
| 85° | 48.6 | 47.9 | 47.2 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| 87.5° | 21.7 | 21.6 | 21.6 | 21.6 | 22.1 | 22.6 | 22.7 | 23.0 |
| 90° | 21.1 | 22.3 | 23.4 | 23.4 | 24.6 | 25.9 | 24.6 | 24.6 |
| 92.5° | 230.5 | 173.4 | 138.0 | 114.5 | 100.7 | 94.3 | 90.4 | 90.4 |
| 95° | 869.5 | 687.6 | 530.4 | 416.6 | 359.1 | 322.8 | 301.5 | 286.3 |
| 97.5° | 1284.8 | 1217.1 | 1102.4 | 979.9 | 895.5 | 825.0 | 789.7 | 765.4 |
| 100° | 1415.2 | 1438.7 | 1381.2 | 1294.3 | 1192.2 | 1120.6 | 1085.5 | 1076.1 |
| 102.5° | 1408.7 | 1525.0 | 1541.7 | 1505.5 | 1442.9 | 1391.0 | 1353.9 | 1346.5 |
| 105° | 1314.2 | 1517.3 | 1633.5 | 1681.5 | 1683.9 | 1674.6 | 1658.1 | 1651.0 |
| 107.5° | 1180.2 | 1396.4 | 1560.0 | 1664.7 | 1722.6 | 1749.4 | 1761.1 | 1764.2 |
| 110° | 1099.5 | 1302.5 | 1472.7 | 1601.7 | 1685.1 | 1734.3 | 1755.5 | 1766.1 |



TEST NUMBER: P333014-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1040.4 | 1219.9 | 1380.7 | 1509.7 | 1604.4 | 1664.0 | 1693.5 | 1710.7 |
| 115° | 981.0 | 1125.4 | 1262.6 | 1375.3 | 1468.0 | 1538.4 | 1576.0 | 1585.4 |
| 117.5° | 951.9 | 1071.4 | 1179.3 | 1274.9 | 1353.9 | 1413.1 | 1451.1 | 1458.3 |
| 120° | 938.8 | 1047.9 | 1141.8 | 1225.1 | 1292.0 | 1343.6 | 1374.1 | 1387.0 |
| 122.5° | 927.5 | 1032.9 | 1118.3 | 1191.3 | 1247.9 | 1292.0 | 1317.8 | 1330.7 |
| 125° | 908.3 | 1009.2 | 1090.1 | 1154.7 | 1201.6 | 1235.7 | 1258.0 | 1265.0 |
| 127.5° | 884.7 | 981.3 | 1062.0 | 1123.3 | 1170.4 | 1200.7 | 1219.5 | 1226.5 |
| 130° | 866.1 | 958.8 | 1038.5 | 1100.8 | 1148.8 | 1178.1 | 1196.9 | 1204.0 |
| 132.5° | 846.3 | 933.4 | 1011.3 | 1073.5 | 1120.6 | 1153.8 | 1171.5 | 1178.6 |
| 135° | 819.1 | 895.3 | 966.9 | 1025.6 | 1072.6 | 1105.4 | 1124.2 | 1131.3 |
| 137.5° | 794.5 | 859.0 | 919.3 | 972.3 | 1016.2 | 1048.6 | 1064.1 | 1072.6 |
| 140° | 780.3 | 835.5 | 888.3 | 937.6 | 978.7 | 1004.5 | 1020.9 | 1030.3 |
| 142.5° | 767.2 | 815.8 | 861.1 | 903.8 | 940.2 | 964.1 | 978.7 | 985.2 |
| 145° | 748.7 | 788.6 | 823.7 | 856.7 | 886.0 | 905.9 | 917.7 | 923.5 |
| 147.5° | 733.5 | 765.1 | 793.2 | 819.1 | 840.7 | 857.8 | 866.8 | 868.8 |
| 150° | 724.1 | 751.0 | 774.5 | 795.6 | 814.4 | 829.6 | 836.7 | 837.9 |
| 152.5° | 713.7 | 736.9 | 758.5 | 775.9 | 791.8 | 804.3 | 808.5 | 809.7 |
| 155° | 698.2 | 717.0 | 734.6 | 748.7 | 760.4 | 769.8 | 773.4 | 773.4 |
| 157.5° | 681.6 | 697.3 | 712.1 | 723.4 | 732.3 | 739.3 | 741.4 | 741.4 |
| 160° | 671.3 | 684.1 | 697.0 | 706.4 | 713.5 | 720.5 | 721.6 | 721.6 |
| 162.5° | 660.9 | 672.0 | 682.1 | 690.4 | 695.6 | 702.7 | 703.9 | 702.9 |
| 165° | 646.6 | 653.6 | 661.9 | 667.7 | 672.4 | 677.1 | 675.9 | 674.8 |
| 167.5° | 632.8 | 638.1 | 644.7 | 648.2 | 650.6 | 653.6 | 653.4 | 652.5 |
| 170° | 624.3 | 627.8 | 632.5 | 636.0 | 638.3 | 639.5 | 638.3 | 638.3 |
| 172.5° | 616.7 | 619.4 | 622.2 | 624.7 | 626.1 | 627.3 | 626.1 | 624.3 |
| 175° | 606.7 | 607.8 | 610.2 | 610.2 | 610.2 | 612.6 | 610.2 | 607.8 |
| 177.5° | 600.1 | 601.1 | 601.1 | 602.0 | 601.1 | 602.0 | 600.1 | 598.2 |
| 180° | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 |

(END OF REPORT)