

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

Luminaire Tested: **S124RDIP-S1195D1205U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333014
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S1195D1205U835-4F0-1E-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: 9123.1 lumens
Efficiency: N/A
Efficacy: 127.2 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

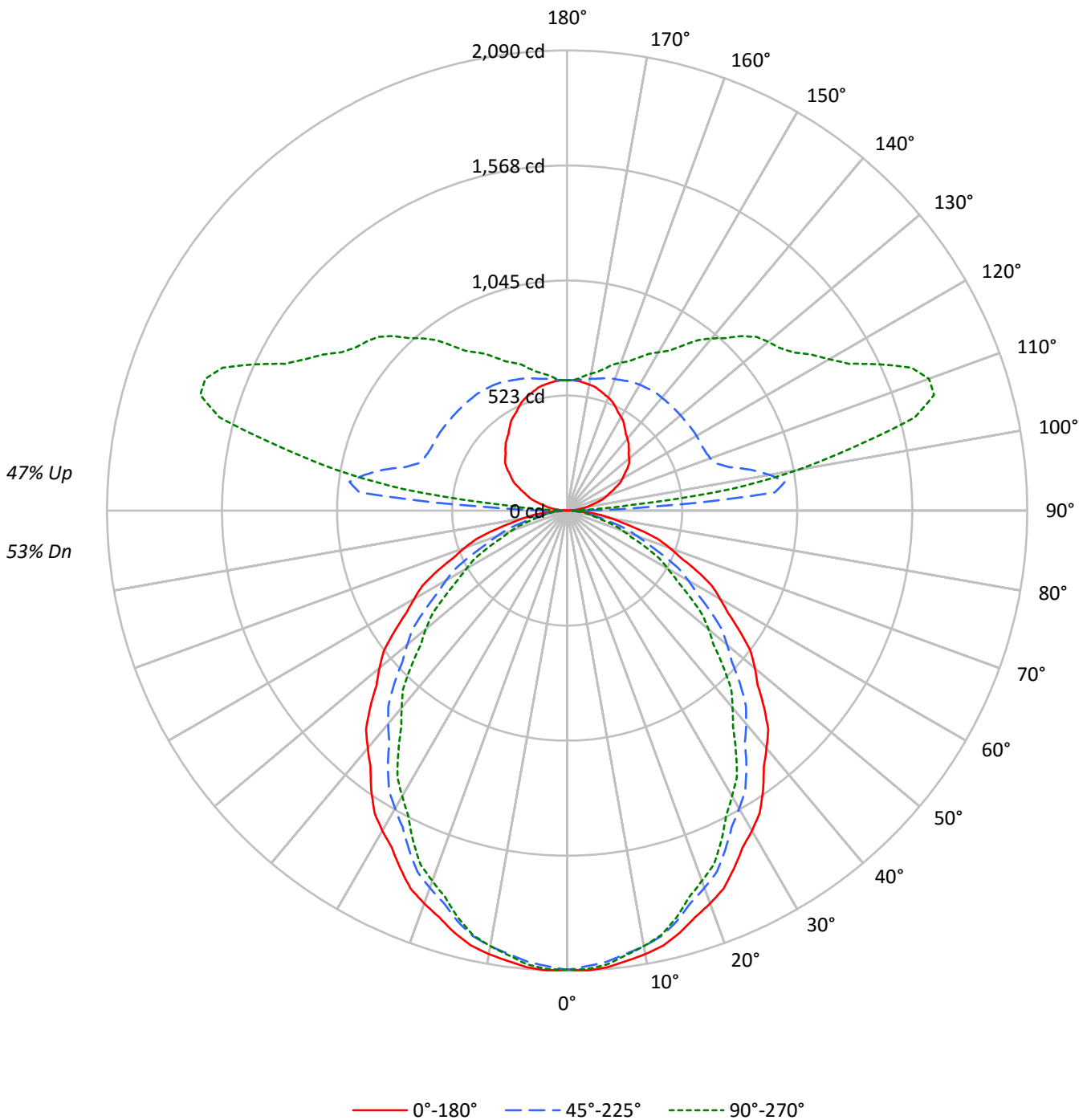
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333014

CATALOG NUMBER: S124RDIP-S1195D1205U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P333014

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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° | 16835 | 16835 | 16835 |
| 5° | 16874 | 16667 | 16771 |
| 10° | 16768 | 16467 | 16467 |
| 15° | 16575 | 16121 | 16002 |
| 20° | 16311 | 15667 | 15378 |
| 25° | 15973 | 15134 | 14750 |
| 30° | 15645 | 14573 | 13962 |
| 35° | 15281 | 13991 | 13172 |
| 40° | 14842 | 13328 | 12318 |
| 45° | 14439 | 12670 | 11449 |
| 50° | 13978 | 11912 | 10528 |
| 55° | 13485 | 11125 | 9529 |
| 60° | 12943 | 10261 | 8507 |
| 65° | 12445 | 9181 | 7503 |
| 70° | 11722 | 7990 | 6371 |
| 75° | 10808 | 6625 | 5181 |
| 80° | 9428 | 5049 | 4751 |
| 85° | 7984 | 4585 | 4289 |



TEST NUMBER: P333014

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 195.9 | 2.1 |
| 10°-20° | 546.3 | 6.0 |
| 20°-30° | 788.8 | 8.6 |
| 30°-40° | 894.2 | 9.8 |
| 40°-50° | 863.5 | 9.5 |
| 50°-60° | 718.0 | 7.9 |
| 60°-70° | 495.8 | 5.4 |
| 70°-80° | 251.3 | 2.8 |
| 80°-90° | 67.7 | 0.7 |
| 90°-100° | 427.2 | 4.7 |
| 100°-110° | 889.1 | 9.7 |
| 110°-120° | 796.4 | 8.7 |
| 120°-130° | 669.9 | 7.3 |
| 130°-140° | 558.5 | 6.1 |
| 140°-150° | 426.7 | 4.7 |
| 150°-160° | 299.9 | 3.3 |
| 160°-170° | 176.4 | 1.9 |
| 170°-180° | 57.4 | 0.6 |
| 0°-30° | 1531.0 | 16.8 |
| 0°-40° | 2425.2 | 26.6 |
| 0°-60° | 4006.7 | 43.9 |
| 0°-90° | 4821.5 | 52.8 |
| 90°-120° | 2112.7 | 23.2 |
| 90°-150° | 3767.8 | 41.3 |
| 90°-180° | 4302.0 | 47.2 |
| 0°-180° | 9123.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2085 | 2085 | 2085 | 2085 | 2085 | |
| 5° | 2082 | 2075 | 2057 | 2072 | 2070 | 197 |
| 15° | 1983 | 1967 | 1929 | 1925 | 1915 | 559 |
| 25° | 1793 | 1762 | 1699 | 1672 | 1656 | 826 |
| 35° | 1550 | 1498 | 1420 | 1367 | 1336 | 968 |
| 45° | 1265 | 1204 | 1110 | 1034 | 1003 | 975 |
| 55° | 958 | 892 | 790 | 710 | 677 | 857 |
| 65° | 652 | 581 | 481 | 415 | 393 | 643 |
| 75° | 346 | 287 | 212 | 177 | 166 | 366 |
| 85° | 86 | 56 | 50 | 46 | 46 | 97 |
| 90° | 1 | 9 | 21 | 23 | 24 | 6 |
| 95° | 38 | 121 | 947 | 469 | 284 | 43 |
| 105° | 136 | 197 | 762 | 1641 | 1635 | 145 |
| 115° | 239 | 300 | 680 | 1306 | 1570 | 237 |
| 125° | 334 | 396 | 676 | 1111 | 1253 | 297 |
| 135° | 396 | 472 | 670 | 987 | 1120 | 306 |
| 145° | 457 | 523 | 667 | 832 | 914 | 287 |
| 155° | 519 | 561 | 648 | 734 | 766 | 239 |
| 165° | 566 | 583 | 622 | 658 | 668 | 160 |
| 175° | 590 | 592 | 596 | 604 | 602 | 56 |
| 180° | 592 | 592 | 592 | 592 | 592 | |



TEST NUMBER: P333014

CATALOG NUMBER: S124RDIP-S1195D1205U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 |
| 2.5° | 2090.5 | 2089.4 | 2088.3 | 2087.1 | 2086.0 | 2083.9 | 2080.8 | 2077.6 | 2074.5 | 2071.4 | 2074.5 |
| 5° | 2082.2 | 2080.8 | 2079.4 | 2078.0 | 2076.6 | 2073.7 | 2069.5 | 2065.2 | 2061.0 | 2056.7 | 2060.2 |
| 7.5° | 2063.4 | 2061.9 | 2060.4 | 2058.9 | 2057.4 | 2053.9 | 2048.4 | 2042.9 | 2037.3 | 2031.8 | 2034.1 |
| 10° | 2045.5 | 2043.7 | 2042.0 | 2040.2 | 2038.4 | 2034.3 | 2028.0 | 2021.6 | 2015.2 | 2008.8 | 2010.2 |
| 12.5° | 2022.5 | 2020.5 | 2018.4 | 2016.3 | 2014.3 | 2009.5 | 2002.0 | 1994.5 | 1986.9 | 1979.4 | 1980.3 |
| 15° | 1983.2 | 1980.0 | 1976.9 | 1973.7 | 1970.5 | 1964.4 | 1955.6 | 1946.7 | 1937.8 | 1928.9 | 1928.2 |
| 17.5° | 1935.7 | 1931.0 | 1926.4 | 1921.8 | 1917.2 | 1909.6 | 1898.9 | 1888.3 | 1877.6 | 1867.0 | 1865.0 |
| 20° | 1898.6 | 1894.0 | 1889.4 | 1884.8 | 1880.2 | 1871.8 | 1859.8 | 1847.7 | 1835.6 | 1823.6 | 1820.7 |
| 22.5° | 1857.7 | 1852.6 | 1847.4 | 1842.2 | 1837.0 | 1828.0 | 1815.0 | 1802.1 | 1789.2 | 1776.3 | 1772.0 |
| 25° | 1793.2 | 1786.8 | 1780.4 | 1774.1 | 1767.7 | 1757.2 | 1742.7 | 1728.1 | 1713.6 | 1699.0 | 1693.0 |
| 27.5° | 1725.5 | 1717.5 | 1709.5 | 1701.5 | 1693.4 | 1681.7 | 1666.1 | 1650.6 | 1635.0 | 1619.5 | 1612.0 |
| 30° | 1678.3 | 1669.4 | 1660.5 | 1651.6 | 1642.8 | 1630.0 | 1613.3 | 1596.6 | 1580.0 | 1563.3 | 1554.4 |
| 32.5° | 1628.4 | 1618.4 | 1608.4 | 1598.4 | 1588.4 | 1574.8 | 1557.5 | 1540.3 | 1523.0 | 1505.8 | 1495.5 |
| 35° | 1550.5 | 1539.1 | 1527.8 | 1516.4 | 1505.1 | 1490.5 | 1472.8 | 1455.1 | 1437.3 | 1419.6 | 1407.5 |
| 37.5° | 1467.2 | 1455.4 | 1443.7 | 1432.0 | 1420.3 | 1404.6 | 1385.0 | 1365.3 | 1345.7 | 1326.0 | 1312.5 |
| 40° | 1408.4 | 1396.7 | 1385.0 | 1373.3 | 1361.5 | 1345.6 | 1325.4 | 1305.1 | 1284.9 | 1264.7 | 1249.8 |
| 42.5° | 1352.2 | 1339.9 | 1327.6 | 1315.3 | 1303.1 | 1286.4 | 1265.3 | 1244.2 | 1223.2 | 1202.1 | 1186.9 |
| 45° | 1264.7 | 1251.5 | 1238.4 | 1225.3 | 1212.2 | 1194.9 | 1173.7 | 1152.4 | 1131.1 | 1109.8 | 1092.4 |
| 47.5° | 1174.3 | 1160.7 | 1147.2 | 1133.6 | 1120.1 | 1102.2 | 1080.1 | 1057.9 | 1035.8 | 1013.7 | 995.6 |
| 50° | 1113.0 | 1099.1 | 1085.3 | 1071.5 | 1057.6 | 1039.3 | 1016.6 | 993.9 | 971.2 | 948.5 | 930.8 |
| 52.5° | 1050.4 | 1036.8 | 1023.3 | 1009.7 | 996.2 | 977.7 | 954.5 | 931.2 | 907.9 | 884.6 | 866.6 |
| 55° | 958.1 | 943.9 | 929.7 | 915.5 | 901.3 | 882.7 | 859.6 | 836.6 | 813.5 | 790.4 | 772.0 |
| 57.5° | 866.7 | 852.0 | 837.2 | 822.5 | 807.7 | 789.0 | 766.3 | 743.5 | 720.8 | 698.1 | 679.4 |
| 60° | 801.6 | 787.4 | 773.2 | 759.0 | 744.8 | 726.4 | 703.7 | 681.0 | 658.2 | 635.5 | 617.1 |
| 62.5° | 742.8 | 728.1 | 713.3 | 698.6 | 683.8 | 664.8 | 641.5 | 618.2 | 594.9 | 571.7 | 554.6 |
| 65° | 651.5 | 636.2 | 621.0 | 605.7 | 590.5 | 571.5 | 548.8 | 526.1 | 503.4 | 480.6 | 465.4 |
| 67.5° | 556.6 | 542.0 | 527.4 | 512.8 | 498.2 | 480.3 | 459.2 | 438.2 | 417.1 | 396.0 | 382.9 |
| 70° | 496.6 | 481.7 | 466.8 | 451.9 | 437.0 | 419.4 | 399.2 | 379.0 | 358.8 | 338.5 | 326.8 |
| 72.5° | 432.7 | 419.3 | 405.8 | 392.3 | 378.8 | 362.5 | 343.4 | 324.3 | 305.2 | 286.1 | 276.1 |
| 75° | 346.5 | 333.4 | 320.2 | 307.1 | 294.0 | 279.1 | 262.4 | 245.7 | 229.1 | 212.4 | 204.2 |
| 77.5° | 259.0 | 247.9 | 236.7 | 225.6 | 214.4 | 202.1 | 188.6 | 175.2 | 161.7 | 148.2 | 143.4 |
| 80° | 202.8 | 192.5 | 182.2 | 171.9 | 161.6 | 151.2 | 140.5 | 129.9 | 119.2 | 108.6 | 107.5 |
| 82.5° | 154.3 | 144.8 | 135.4 | 125.9 | 116.5 | 108.7 | 102.6 | 96.5 | 90.4 | 84.3 | 83.5 |
| 85° | 86.2 | 79.1 | 72.0 | 64.9 | 57.8 | 53.8 | 52.7 | 51.6 | 50.6 | 49.5 | 48.8 |
| 87.5° | 29.6 | 27.8 | 26.2 | 24.2 | 22.2 | 20.9 | 22.0 | 21.7 | 21.9 | 22.1 | 21.6 |
| 90° | 1.2 | 3.5 | 7.0 | 8.1 | 9.3 | 9.3 | 16.3 | 16.3 | 18.6 | 20.9 | 19.8 |
| 92.5° | 13.2 | 19.3 | 30.2 | 44.4 | 61.4 | 85.5 | 144.6 | 234.7 | 322.6 | 368.6 | 307.0 |
| 95° | 38.3 | 41.8 | 53.5 | 68.6 | 96.4 | 145.3 | 246.3 | 436.9 | 714.6 | 947.0 | 973.8 |
| 97.5° | 68.8 | 68.8 | 78.8 | 92.7 | 116.7 | 157.6 | 235.4 | 392.8 | 668.8 | 997.5 | 1223.4 |
| 100° | 88.3 | 88.3 | 96.4 | 110.4 | 132.5 | 169.7 | 238.2 | 369.5 | 606.6 | 934.2 | 1231.7 |
| 102.5° | 106.9 | 108.8 | 116.0 | 129.0 | 150.1 | 185.5 | 247.5 | 363.0 | 564.7 | 855.2 | 1162.0 |
| 105° | 136.0 | 139.4 | 145.3 | 159.2 | 180.1 | 213.8 | 269.6 | 366.0 | 528.7 | 762.3 | 1035.3 |
| 107.5° | 168.0 | 170.3 | 176.2 | 191.0 | 211.0 | 244.3 | 295.4 | 383.2 | 522.2 | 710.2 | 933.1 |
| 110° | 189.4 | 191.7 | 197.5 | 211.5 | 232.4 | 263.8 | 314.9 | 396.2 | 524.1 | 692.6 | 882.0 |



TEST NUMBER: P333014

CATALOG NUMBER: S124RDIP-S1195D1205U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 209.9 | 212.2 | 218.9 | 231.9 | 252.9 | 284.2 | 333.5 | 410.2 | 529.6 | 684.2 | 853.1 |
| 115° | 239.4 | 242.9 | 251.0 | 262.6 | 284.7 | 316.1 | 362.5 | 432.3 | 540.3 | 679.8 | 826.2 |
| 117.5° | 270.0 | 273.3 | 280.5 | 293.3 | 314.0 | 346.5 | 390.7 | 454.8 | 551.7 | 678.6 | 814.1 |
| 120° | 290.5 | 292.8 | 301.0 | 313.7 | 333.5 | 366.0 | 410.2 | 470.6 | 560.1 | 678.6 | 807.6 |
| 122.5° | 309.1 | 311.4 | 319.6 | 331.4 | 353.0 | 384.6 | 428.8 | 485.5 | 568.5 | 677.7 | 800.2 |
| 125° | 333.5 | 338.1 | 345.1 | 357.9 | 380.0 | 412.5 | 454.3 | 507.8 | 581.0 | 676.3 | 787.8 |
| 127.5° | 355.1 | 358.8 | 367.2 | 381.8 | 404.8 | 437.6 | 478.0 | 527.1 | 591.0 | 673.7 | 771.3 |
| 130° | 367.2 | 371.8 | 381.1 | 398.6 | 420.6 | 454.3 | 493.9 | 539.2 | 598.4 | 672.8 | 761.1 |
| 132.5° | 379.3 | 383.0 | 395.1 | 411.6 | 435.5 | 467.4 | 506.9 | 551.3 | 604.9 | 671.9 | 751.8 |
| 135° | 396.2 | 400.9 | 412.5 | 432.3 | 456.7 | 486.9 | 525.2 | 567.1 | 614.7 | 670.5 | 737.9 |
| 137.5° | 413.2 | 417.6 | 430.4 | 449.2 | 474.6 | 503.4 | 539.2 | 578.2 | 620.5 | 670.2 | 725.8 |
| 140° | 425.3 | 428.8 | 441.6 | 461.3 | 485.7 | 513.6 | 548.5 | 585.6 | 625.2 | 669.3 | 719.3 |
| 142.5° | 438.3 | 441.8 | 453.6 | 472.5 | 495.9 | 522.9 | 556.8 | 591.2 | 628.9 | 669.3 | 713.7 |
| 145° | 456.7 | 460.2 | 471.8 | 488.0 | 510.1 | 535.7 | 565.9 | 597.3 | 631.0 | 667.0 | 704.2 |
| 147.5° | 477.3 | 478.5 | 488.7 | 505.5 | 523.8 | 546.8 | 575.2 | 602.6 | 632.1 | 662.8 | 695.6 |
| 150° | 490.4 | 491.5 | 500.8 | 514.8 | 532.2 | 554.3 | 579.8 | 605.4 | 632.1 | 660.0 | 689.1 |
| 152.5° | 502.4 | 502.7 | 512.0 | 525.0 | 540.6 | 560.8 | 583.6 | 607.3 | 630.3 | 655.4 | 681.6 |
| 155° | 519.4 | 520.6 | 527.5 | 539.2 | 552.0 | 569.4 | 589.1 | 608.9 | 627.5 | 648.4 | 670.5 |
| 157.5° | 535.9 | 535.9 | 542.4 | 551.5 | 562.6 | 576.4 | 593.1 | 608.9 | 624.5 | 641.2 | 659.1 |
| 160° | 546.1 | 546.1 | 550.8 | 558.9 | 568.2 | 581.0 | 594.9 | 608.9 | 621.7 | 635.6 | 650.7 |
| 162.5° | 555.4 | 554.5 | 558.2 | 565.4 | 573.8 | 583.8 | 596.8 | 608.9 | 618.9 | 630.0 | 643.3 |
| 165° | 565.9 | 565.9 | 568.2 | 574.0 | 579.8 | 586.8 | 597.3 | 606.6 | 613.5 | 621.7 | 631.0 |
| 167.5° | 576.4 | 575.2 | 576.4 | 580.8 | 584.0 | 589.4 | 597.0 | 603.8 | 608.0 | 613.3 | 619.8 |
| 170° | 581.0 | 579.8 | 581.0 | 584.5 | 586.8 | 590.3 | 596.1 | 601.9 | 604.2 | 607.7 | 612.4 |
| 172.5° | 585.6 | 584.5 | 584.7 | 587.3 | 588.7 | 591.2 | 595.2 | 600.1 | 600.5 | 602.1 | 605.9 |
| 175° | 590.3 | 589.1 | 589.1 | 590.3 | 591.5 | 591.5 | 593.8 | 597.3 | 596.1 | 596.1 | 598.4 |
| 177.5° | 592.4 | 591.5 | 590.5 | 591.5 | 591.5 | 591.5 | 592.4 | 594.2 | 592.4 | 592.4 | 593.3 |
| 180° | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 |



TEST NUMBER: P333014

CATALOG NUMBER: S124RDIP-S1195D1205U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 |
| 2.5° | 2077.6 | 2080.8 | 2083.9 | 2085.3 | 2085.0 | 2084.7 | 2084.4 | 2084.2 |
| 5° | 2063.8 | 2067.3 | 2070.9 | 2072.3 | 2071.6 | 2070.9 | 2070.2 | 2069.5 |
| 7.5° | 2036.3 | 2038.6 | 2040.9 | 2041.4 | 2040.3 | 2039.2 | 2038.0 | 2036.9 |
| 10° | 2011.6 | 2013.0 | 2014.5 | 2014.5 | 2013.0 | 2011.6 | 2010.2 | 2008.8 |
| 12.5° | 1981.1 | 1982.0 | 1982.8 | 1982.2 | 1980.3 | 1978.3 | 1976.3 | 1974.3 |
| 15° | 1927.5 | 1926.8 | 1926.1 | 1924.5 | 1922.0 | 1919.5 | 1917.1 | 1914.6 |
| 17.5° | 1863.0 | 1861.0 | 1859.0 | 1856.2 | 1852.4 | 1848.6 | 1844.9 | 1841.1 |
| 20° | 1817.9 | 1815.0 | 1812.2 | 1808.5 | 1803.9 | 1799.3 | 1794.6 | 1790.0 |
| 22.5° | 1767.8 | 1763.5 | 1759.3 | 1755.3 | 1751.5 | 1747.7 | 1744.0 | 1740.2 |
| 25° | 1686.9 | 1680.9 | 1674.9 | 1670.1 | 1666.5 | 1663.0 | 1659.4 | 1655.9 |
| 27.5° | 1604.6 | 1597.1 | 1589.7 | 1583.4 | 1578.3 | 1573.2 | 1568.1 | 1563.0 |
| 30° | 1545.5 | 1536.7 | 1527.8 | 1520.5 | 1514.8 | 1509.2 | 1503.5 | 1497.8 |
| 32.5° | 1485.2 | 1474.9 | 1464.6 | 1456.8 | 1451.4 | 1446.0 | 1440.6 | 1435.2 |
| 35° | 1395.4 | 1383.4 | 1371.3 | 1362.1 | 1355.7 | 1349.3 | 1342.9 | 1336.5 |
| 37.5° | 1299.0 | 1285.5 | 1272.1 | 1262.1 | 1255.7 | 1249.3 | 1243.0 | 1236.6 |
| 40° | 1234.9 | 1220.0 | 1205.1 | 1194.4 | 1188.0 | 1181.6 | 1175.3 | 1168.9 |
| 42.5° | 1171.7 | 1156.5 | 1141.3 | 1130.4 | 1123.7 | 1117.1 | 1110.4 | 1103.7 |
| 45° | 1075.0 | 1057.6 | 1040.2 | 1028.3 | 1022.0 | 1015.6 | 1009.2 | 1002.8 |
| 47.5° | 977.6 | 959.6 | 941.6 | 929.0 | 922.0 | 915.0 | 907.9 | 900.9 |
| 50° | 913.0 | 895.3 | 877.5 | 865.3 | 858.6 | 851.8 | 845.1 | 838.3 |
| 52.5° | 848.6 | 830.6 | 812.5 | 800.0 | 793.0 | 786.0 | 778.9 | 771.9 |
| 55° | 753.5 | 735.1 | 716.6 | 704.0 | 697.3 | 690.5 | 683.8 | 677.0 |
| 57.5° | 660.7 | 641.9 | 623.2 | 611.3 | 606.2 | 601.0 | 595.9 | 590.8 |
| 60° | 598.6 | 580.2 | 561.7 | 549.7 | 544.0 | 538.3 | 532.6 | 526.9 |
| 62.5° | 537.6 | 520.6 | 503.5 | 492.7 | 488.2 | 483.7 | 479.1 | 474.6 |
| 65° | 450.1 | 434.9 | 419.6 | 409.8 | 405.6 | 401.3 | 397.1 | 392.8 |
| 67.5° | 369.8 | 356.6 | 343.5 | 334.6 | 329.9 | 325.2 | 320.5 | 315.8 |
| 70° | 315.1 | 303.4 | 291.7 | 284.1 | 280.5 | 277.0 | 273.4 | 269.9 |
| 72.5° | 266.1 | 256.1 | 246.1 | 239.5 | 236.2 | 233.0 | 229.7 | 226.4 |
| 75° | 196.1 | 187.9 | 179.7 | 174.6 | 172.5 | 170.3 | 168.2 | 166.1 |
| 77.5° | 138.7 | 133.9 | 129.2 | 126.5 | 125.8 | 125.2 | 124.6 | 123.9 |
| 80° | 106.5 | 105.4 | 104.3 | 103.6 | 103.3 | 102.9 | 102.6 | 102.2 |
| 82.5° | 82.8 | 82.0 | 81.2 | 80.6 | 80.3 | 79.9 | 79.6 | 79.2 |
| 85° | 48.1 | 47.4 | 46.7 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| 87.5° | 21.5 | 21.4 | 21.4 | 21.4 | 21.9 | 22.4 | 22.5 | 22.8 |
| 90° | 20.9 | 22.1 | 23.2 | 23.2 | 24.4 | 25.6 | 24.4 | 24.4 |
| 92.5° | 228.2 | 171.7 | 136.7 | 113.4 | 99.7 | 93.4 | 89.5 | 89.5 |
| 95° | 861.0 | 680.9 | 525.2 | 412.5 | 355.6 | 319.6 | 298.6 | 283.5 |
| 97.5° | 1272.2 | 1205.2 | 1091.6 | 970.3 | 886.8 | 816.9 | 782.0 | 757.9 |
| 100° | 1401.4 | 1424.6 | 1367.7 | 1281.7 | 1180.6 | 1109.7 | 1074.9 | 1065.6 |
| 102.5° | 1394.9 | 1510.1 | 1526.6 | 1490.8 | 1428.8 | 1377.4 | 1340.7 | 1333.3 |
| 105° | 1301.4 | 1502.5 | 1617.5 | 1665.1 | 1667.5 | 1658.2 | 1641.9 | 1634.9 |
| 107.5° | 1168.7 | 1382.8 | 1544.8 | 1648.4 | 1705.8 | 1732.3 | 1743.9 | 1747.0 |
| 110° | 1088.8 | 1289.8 | 1458.3 | 1586.1 | 1668.6 | 1717.4 | 1738.4 | 1748.8 |



TEST NUMBER: P333014

CATALOG NUMBER: S124RDIP-S1195D1205U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1030.2 | 1208.0 | 1367.2 | 1495.0 | 1588.7 | 1647.7 | 1677.0 | 1694.0 |
| 115° | 971.4 | 1114.4 | 1250.3 | 1361.9 | 1453.7 | 1523.4 | 1560.6 | 1569.9 |
| 117.5° | 942.6 | 1060.9 | 1167.8 | 1262.4 | 1340.7 | 1399.3 | 1436.9 | 1444.1 |
| 120° | 929.6 | 1037.7 | 1130.6 | 1213.1 | 1279.4 | 1330.5 | 1360.7 | 1373.5 |
| 122.5° | 918.4 | 1022.8 | 1107.4 | 1179.7 | 1235.7 | 1279.4 | 1304.9 | 1317.7 |
| 125° | 899.4 | 999.3 | 1079.5 | 1143.4 | 1189.9 | 1223.6 | 1245.7 | 1252.6 |
| 127.5° | 876.1 | 971.7 | 1051.6 | 1112.3 | 1159.0 | 1189.0 | 1207.6 | 1214.5 |
| 130° | 857.6 | 949.4 | 1028.4 | 1090.0 | 1137.6 | 1166.6 | 1185.2 | 1192.2 |
| 132.5° | 838.0 | 924.3 | 1001.4 | 1063.0 | 1109.7 | 1142.5 | 1160.1 | 1167.1 |
| 135° | 811.1 | 886.6 | 957.5 | 1015.6 | 1062.1 | 1094.6 | 1113.2 | 1120.2 |
| 137.5° | 786.7 | 850.6 | 910.3 | 962.8 | 1006.3 | 1038.4 | 1053.7 | 1062.1 |
| 140° | 772.7 | 827.3 | 879.6 | 928.4 | 969.1 | 994.7 | 1010.9 | 1020.2 |
| 142.5° | 759.7 | 807.8 | 852.7 | 895.0 | 931.0 | 954.7 | 969.1 | 975.6 |
| 145° | 741.4 | 780.9 | 815.7 | 848.3 | 877.3 | 897.1 | 908.7 | 914.5 |
| 147.5° | 726.3 | 757.6 | 785.5 | 811.1 | 832.5 | 849.4 | 858.3 | 860.3 |
| 150° | 717.0 | 743.7 | 766.9 | 787.8 | 806.4 | 821.5 | 828.5 | 829.7 |
| 152.5° | 706.7 | 729.7 | 751.1 | 768.3 | 784.1 | 796.4 | 800.6 | 801.8 |
| 155° | 691.4 | 710.0 | 727.4 | 741.4 | 753.0 | 762.3 | 765.8 | 765.8 |
| 157.5° | 674.9 | 690.5 | 705.1 | 716.3 | 725.1 | 732.1 | 734.2 | 734.2 |
| 160° | 664.7 | 677.4 | 690.2 | 699.5 | 706.5 | 713.5 | 714.6 | 714.6 |
| 162.5° | 654.4 | 665.4 | 675.4 | 683.7 | 688.8 | 695.8 | 697.0 | 696.0 |
| 165° | 640.3 | 647.2 | 655.4 | 661.2 | 665.8 | 670.5 | 669.3 | 668.2 |
| 167.5° | 626.6 | 631.9 | 638.4 | 641.9 | 644.2 | 647.2 | 647.0 | 646.1 |
| 170° | 618.2 | 621.7 | 626.3 | 629.8 | 632.1 | 633.3 | 632.1 | 632.1 |
| 172.5° | 610.7 | 613.3 | 616.1 | 618.6 | 620.0 | 621.2 | 620.0 | 618.2 |
| 175° | 600.8 | 601.9 | 604.2 | 604.2 | 604.2 | 606.6 | 604.2 | 601.9 |
| 177.5° | 594.2 | 595.2 | 595.2 | 596.1 | 595.2 | 596.1 | 594.2 | 592.4 |
| 180° | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 | 591.5 |

(END OF REPORT)