

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: P333001-840

Luminaire Tested: **S124RDIP-S1195D810U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333001-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-S1195D810U840-4F0-1E-UDD-F1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7701.0 lumens  
Efficiency: N/A  
Efficacy: 126.9 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: Semi-Direct

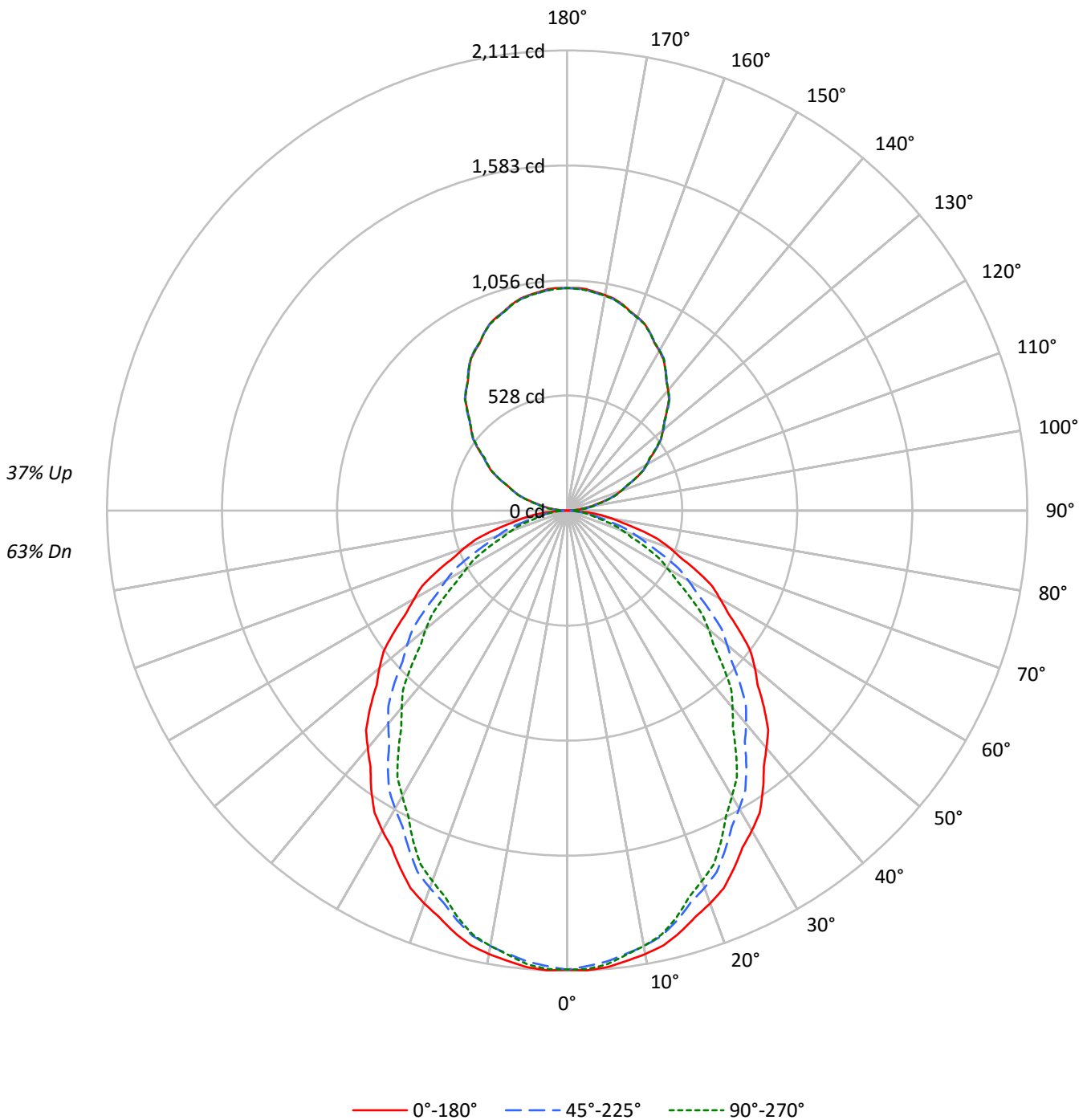
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 91 | 91 | 91 | 79 | 79 | 79 | 68 | 68 | 68 |
| 1   | 101 | 97  | 93  | 90  | 95  | 91  | 88  | 85  | 80 | 78 | 75 | 70 | 68 | 67 | 61 | 60 | 58 |
| 2   | 92  | 85  | 79  | 74  | 86  | 80  | 75  | 70  | 71 | 66 | 63 | 62 | 59 | 56 | 54 | 52 | 50 |
| 3   | 84  | 75  | 68  | 62  | 79  | 71  | 64  | 59  | 63 | 57 | 53 | 55 | 51 | 48 | 48 | 45 | 43 |
| 4   | 77  | 67  | 59  | 53  | 72  | 63  | 56  | 50  | 56 | 50 | 46 | 49 | 45 | 41 | 43 | 40 | 37 |
| 5   | 71  | 60  | 51  | 45  | 67  | 56  | 49  | 43  | 50 | 44 | 40 | 44 | 40 | 36 | 39 | 35 | 32 |
| 6   | 66  | 54  | 45  | 40  | 62  | 51  | 43  | 38  | 45 | 39 | 35 | 40 | 35 | 32 | 36 | 32 | 29 |
| 7   | 61  | 49  | 41  | 35  | 57  | 46  | 39  | 34  | 41 | 35 | 31 | 37 | 32 | 28 | 33 | 29 | 26 |
| 8   | 57  | 44  | 36  | 31  | 53  | 42  | 35  | 30  | 38 | 32 | 28 | 34 | 29 | 25 | 30 | 26 | 23 |
| 9   | 53  | 41  | 33  | 28  | 50  | 39  | 32  | 27  | 35 | 29 | 25 | 31 | 26 | 23 | 28 | 24 | 21 |
| 10  | 50  | 37  | 30  | 25  | 47  | 36  | 29  | 24  | 32 | 26 | 23 | 29 | 24 | 21 | 26 | 22 | 19 |

**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  | 2.6       |
| 10°-20°   | 551.7  | 7.2       |
| 20°-30°   | 796.6  | 10.3      |
| 30°-40°   | 903.0  | 11.7      |
| 40°-50°   | 872.0  | 11.3      |
| 50°-60°   | 725.1  | 9.4       |
| 60°-70°   | 500.7  | 6.5       |
| 70°-80°   | 253.8  | 3.3       |
| 80°-90°   | 68.2   | 0.9       |
| 90°-100°  | 67.3   | 0.9       |
| 100°-110° | 199.5  | 2.6       |
| 110°-120° | 338.5  | 4.4       |
| 120°-130° | 446.4  | 5.8       |
| 130°-140° | 501.3  | 6.5       |
| 140°-150° | 492.6  | 6.4       |
| 150°-160° | 414.3  | 5.4       |
| 160°-170° | 275.7  | 3.6       |
| 170°-180° | 96.5   | 1.3       |
| 0°-30°    | 1546.1 | 20.1      |
| 0°-40°    | 2449.1 | 31.8      |
| 0°-60°    | 4046.2 | 52.5      |
| 0°-90°    | 4868.8 | 63.2      |
| 90°-120°  | 605.4  | 7.9       |
| 90°-150°  | 2045.7 | 26.6      |
| 90°-180°  | 2832.0 | 36.8      |
| 0°-180°   | 7701.0 | 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°  | 2    | 11    | 17   | 22    | 24   | 7    |
| 95°  | 47   | 54    | 60   | 62    | 62   | 53   |
| 105° | 184  | 185   | 188  | 190   | 193  | 195  |
| 115° | 344  | 344   | 343  | 342   | 341  | 339  |
| 125° | 501  | 501   | 501  | 499   | 497  | 447  |
| 135° | 647  | 651   | 651  | 650   | 647  | 500  |
| 145° | 786  | 789   | 790  | 789   | 786  | 491  |
| 155° | 900  | 900   | 899  | 902   | 899  | 414  |
| 165° | 980  | 977   | 976  | 980   | 977  | 276  |
| 175° | 1019 | 1015  | 1014 | 1020  | 1014 | 97   |
| 180° | 1021 | 1021  | 1021 | 1021  | 1021 |      |



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**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°  | 30.2   | 28.3   | 26.4   | 24.4   | 22.5   | 21.5   | 21.5   | 21.5   | 21.5   | 21.5   | 21.4   |
| 90°    | 2.3    | 4.3    | 6.3    | 8.2    | 10.1   | 11.7   | 13.1   | 14.5   | 16.0   | 17.4   | 18.4   |
| 92.5°  | 16.9   | 19.1   | 21.3   | 23.5   | 25.8   | 27.4   | 28.3   | 29.3   | 30.3   | 31.3   | 31.9   |
| 95°    | 47.4   | 49.0   | 50.5   | 52.1   | 53.7   | 55.1   | 56.4   | 57.6   | 58.8   | 60.0   | 60.5   |
| 97.5°  | 82.7   | 84.0   | 85.2   | 86.5   | 87.8   | 89.2   | 90.6   | 92.0   | 93.4   | 94.9   | 95.5   |
| 100°   | 110.6  | 111.2  | 111.9  | 112.6  | 113.3  | 114.5  | 116.0  | 117.6  | 119.2  | 120.8  | 121.2  |
| 102.5° | 139.6  | 139.9  | 140.2  | 140.5  | 140.7  | 141.6  | 143.0  | 144.4  | 145.9  | 147.3  | 147.8  |
| 105°   | 184.0  | 184.1  | 184.3  | 184.5  | 184.7  | 185.1  | 185.8  | 186.5  | 187.2  | 187.9  | 188.4  |
| 107.5° | 230.6  | 230.8  | 231.0  | 231.2  | 231.4  | 231.6  | 231.7  | 231.8  | 231.9  | 232.0  | 232.5  |
| 110°   | 262.2  | 262.5  | 262.8  | 263.2  | 263.5  | 263.6  | 263.5  | 263.3  | 263.1  | 262.9  | 262.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 295.0  | 295.0  | 295.1  | 295.2  | 295.3  | 295.1  | 294.8  | 294.5  | 294.2  | 293.9  | 293.8  |
| 115°   | 344.3  | 344.3  | 344.3  | 344.3  | 344.3  | 344.1  | 343.7  | 343.4  | 343.0  | 342.6  | 342.4  |
| 117.5° | 390.6  | 390.8  | 390.9  | 391.0  | 391.2  | 391.1  | 390.9  | 390.6  | 390.4  | 390.2  | 389.6  |
| 120°   | 421.6  | 422.3  | 423.0  | 423.7  | 424.4  | 424.4  | 423.9  | 423.4  | 422.9  | 422.4  | 421.5  |
| 122.5° | 453.8  | 454.0  | 454.3  | 454.6  | 454.9  | 454.9  | 454.7  | 454.4  | 454.2  | 453.9  | 453.3  |
| 125°   | 501.3  | 501.3  | 501.3  | 501.3  | 501.3  | 501.2  | 501.1  | 500.9  | 500.7  | 500.6  | 500.2  |
| 127.5° | 544.4  | 544.9  | 545.5  | 546.0  | 546.5  | 546.6  | 546.3  | 546.1  | 545.8  | 545.5  | 545.2  |
| 130°   | 574.7  | 575.3  | 575.8  | 576.3  | 576.8  | 577.1  | 577.1  | 577.1  | 577.1  | 577.1  | 576.7  |
| 132.5° | 605.7  | 606.1  | 606.5  | 606.8  | 607.2  | 607.3  | 607.2  | 607.1  | 606.9  | 606.8  | 606.4  |
| 135°   | 646.6  | 647.6  | 648.7  | 649.7  | 650.9  | 651.4  | 651.4  | 651.4  | 651.4  | 651.4  | 651.0  |
| 137.5° | 691.2  | 691.7  | 692.1  | 692.6  | 693.1  | 693.5  | 693.8  | 694.1  | 694.3  | 694.6  | 694.2  |
| 140°   | 720.8  | 721.1  | 721.5  | 721.9  | 722.3  | 722.4  | 722.4  | 722.4  | 722.4  | 722.4  | 722.3  |
| 142.5° | 748.0  | 748.3  | 748.7  | 749.0  | 749.4  | 749.5  | 749.3  | 749.2  | 749.0  | 748.9  | 748.9  |
| 145°   | 785.6  | 786.3  | 787.0  | 787.7  | 788.4  | 788.8  | 789.0  | 789.1  | 789.3  | 789.5  | 789.3  |
| 147.5° | 822.8  | 823.6  | 824.5  | 825.4  | 826.2  | 826.6  | 826.4  | 826.3  | 826.1  | 826.0  | 825.9  |
| 150°   | 845.6  | 846.3  | 847.0  | 847.7  | 848.4  | 848.7  | 848.7  | 848.7  | 848.7  | 848.7  | 848.7  |
| 152.5° | 867.1  | 867.5  | 867.9  | 868.3  | 868.7  | 869.0  | 869.1  | 869.3  | 869.4  | 869.6  | 870.0  |
| 155°   | 900.0  | 900.0  | 900.0  | 900.0  | 900.0  | 899.9  | 899.8  | 899.6  | 899.4  | 899.3  | 899.9  |
| 157.5° | 927.9  | 927.5  | 927.2  | 926.9  | 926.6  | 926.3  | 926.3  | 926.3  | 926.2  | 926.2  | 926.8  |
| 160°   | 944.2  | 944.0  | 943.9  | 943.7  | 943.5  | 943.3  | 943.2  | 943.0  | 942.8  | 942.7  | 943.2  |
| 162.5° | 959.4  | 959.0  | 958.5  | 958.1  | 957.6  | 957.3  | 957.0  | 956.9  | 956.7  | 956.5  | 957.6  |
| 165°   | 979.8  | 979.3  | 978.8  | 978.2  | 977.7  | 977.2  | 976.8  | 976.5  | 976.1  | 975.8  | 976.8  |
| 167.5° | 995.4  | 994.6  | 993.9  | 993.2  | 992.5  | 992.1  | 992.1  | 992.2  | 992.2  | 992.2  | 993.3  |
| 170°   | 1004.2 | 1003.4 | 1002.5 | 1001.6 | 1000.8 | 1000.4 | 1000.6 | 1000.8 | 1000.9 | 1001.1 | 1002.1 |
| 172.5° | 1010.6 | 1009.9 | 1009.1 | 1008.4 | 1007.6 | 1007.2 | 1007.3 | 1007.3 | 1007.3 | 1007.4 | 1008.6 |
| 175°   | 1019.3 | 1018.3 | 1017.4 | 1016.6 | 1015.7 | 1015.2 | 1015.0 | 1014.8 | 1014.7 | 1014.5 | 1015.7 |
| 177.5° | 1022.1 | 1021.4 | 1020.7 | 1020.0 | 1019.3 | 1019.0 | 1019.0 | 1019.0 | 1019.0 | 1019.0 | 1019.9 |
| 180°   | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 |



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CATALOG NUMBER: S124RDIP-S1195D810U840-4F0-1E-UDD-F1

**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°  | 21.4   | 21.3   | 21.2   | 21.4   | 21.7   | 22.1   | 22.4   | 22.8   |
| 90°    | 19.5   | 20.5   | 21.6   | 22.3   | 22.6   | 23.0   | 23.3   | 23.7   |
| 92.5°  | 32.5   | 33.1   | 33.8   | 34.2   | 34.4   | 34.6   | 34.8   | 35.0   |
| 95°    | 61.1   | 61.6   | 62.1   | 62.4   | 62.4   | 62.4   | 62.4   | 62.4   |
| 97.5°  | 96.1   | 96.7   | 97.5   | 97.8   | 97.8   | 97.8   | 97.8   | 97.8   |
| 100°   | 121.5  | 121.9  | 122.2  | 122.4  | 122.4  | 122.4  | 122.4  | 122.4  |
| 102.5° | 148.3  | 148.8  | 149.3  | 149.6  | 149.8  | 149.9  | 150.1  | 150.2  |
| 105°   | 188.9  | 189.5  | 190.0  | 190.6  | 191.1  | 191.6  | 192.1  | 192.7  |
| 107.5° | 233.0  | 233.4  | 233.9  | 234.2  | 234.1  | 234.1  | 234.1  | 234.0  |
| 110°   | 262.2  | 261.9  | 261.5  | 261.6  | 262.2  | 262.7  | 263.2  | 263.7  |





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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 293.7  | 293.7  | 293.6  | 293.6  | 293.7  | 293.8  | 293.9  | 294.0  |
| 115°   | 342.2  | 342.1  | 341.9  | 341.7  | 341.6  | 341.4  | 341.2  | 341.0  |
| 117.5° | 389.0  | 388.4  | 387.8  | 387.3  | 387.0  | 386.6  | 386.3  | 385.9  |
| 120°   | 420.6  | 419.7  | 418.9  | 418.6  | 419.0  | 419.3  | 419.7  | 420.0  |
| 122.5° | 452.7  | 452.2  | 451.6  | 451.0  | 450.3  | 449.7  | 449.1  | 448.5  |
| 125°   | 499.9  | 499.5  | 499.2  | 498.8  | 498.5  | 498.1  | 497.8  | 497.4  |
| 127.5° | 544.8  | 544.5  | 544.1  | 543.8  | 543.5  | 543.3  | 543.0  | 542.7  |
| 130°   | 576.4  | 576.0  | 575.7  | 575.2  | 574.5  | 573.8  | 573.1  | 572.4  |
| 132.5° | 606.1  | 605.7  | 605.4  | 605.1  | 604.8  | 604.5  | 604.2  | 604.0  |
| 135°   | 650.7  | 650.3  | 649.9  | 649.4  | 648.9  | 648.4  | 647.9  | 647.4  |
| 137.5° | 693.7  | 693.3  | 692.8  | 692.6  | 692.7  | 692.8  | 692.9  | 693.1  |
| 140°   | 722.1  | 721.9  | 721.6  | 721.5  | 721.3  | 721.1  | 720.9  | 720.8  |
| 142.5° | 748.8  | 748.8  | 748.8  | 748.7  | 748.7  | 748.7  | 748.6  | 748.6  |
| 145°   | 789.1  | 789.0  | 788.8  | 788.4  | 787.9  | 787.4  | 786.9  | 786.4  |
| 147.5° | 825.7  | 825.6  | 825.4  | 825.3  | 825.1  | 824.9  | 824.8  | 824.6  |
| 150°   | 848.7  | 848.7  | 848.7  | 848.6  | 848.5  | 848.3  | 848.1  | 847.9  |
| 152.5° | 870.4  | 870.8  | 871.2  | 871.2  | 870.8  | 870.3  | 869.9  | 869.4  |
| 155°   | 900.6  | 901.3  | 902.0  | 902.0  | 901.3  | 900.6  | 899.9  | 899.3  |
| 157.5° | 927.3  | 927.9  | 928.4  | 928.3  | 927.8  | 927.2  | 926.6  | 925.9  |
| 160°   | 943.7  | 944.2  | 944.7  | 944.6  | 943.7  | 942.8  | 942.0  | 941.1  |
| 162.5° | 958.5  | 959.4  | 960.4  | 960.4  | 959.5  | 958.7  | 957.8  | 956.8  |
| 165°   | 978.0  | 979.0  | 980.1  | 980.2  | 979.5  | 978.8  | 978.1  | 977.4  |
| 167.5° | 994.3  | 995.4  | 996.4  | 996.4  | 995.3  | 994.2  | 993.2  | 992.1  |
| 170°   | 1003.2 | 1004.2 | 1005.3 | 1005.2 | 1004.0 | 1002.8 | 1001.5 | 1000.3 |
| 172.5° | 1009.8 | 1011.0 | 1012.2 | 1012.2 | 1011.0 | 1009.7 | 1008.5 | 1007.2 |
| 175°   | 1016.9 | 1018.1 | 1019.5 | 1019.5 | 1018.1 | 1016.9 | 1015.7 | 1014.5 |
| 177.5° | 1020.9 | 1021.9 | 1022.9 | 1022.8 | 1021.7 | 1020.6 | 1019.5 | 1018.2 |
| 180°   | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 |

(END OF REPORT)