

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: P333007-830

Luminaire Tested: **S124RDIP-S1195D1035U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333007-830  
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-S1195D1035U830-4F0-1E-UDD-F1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7919.9 lumens  
Efficiency: N/A  
Efficacy: 118.6 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

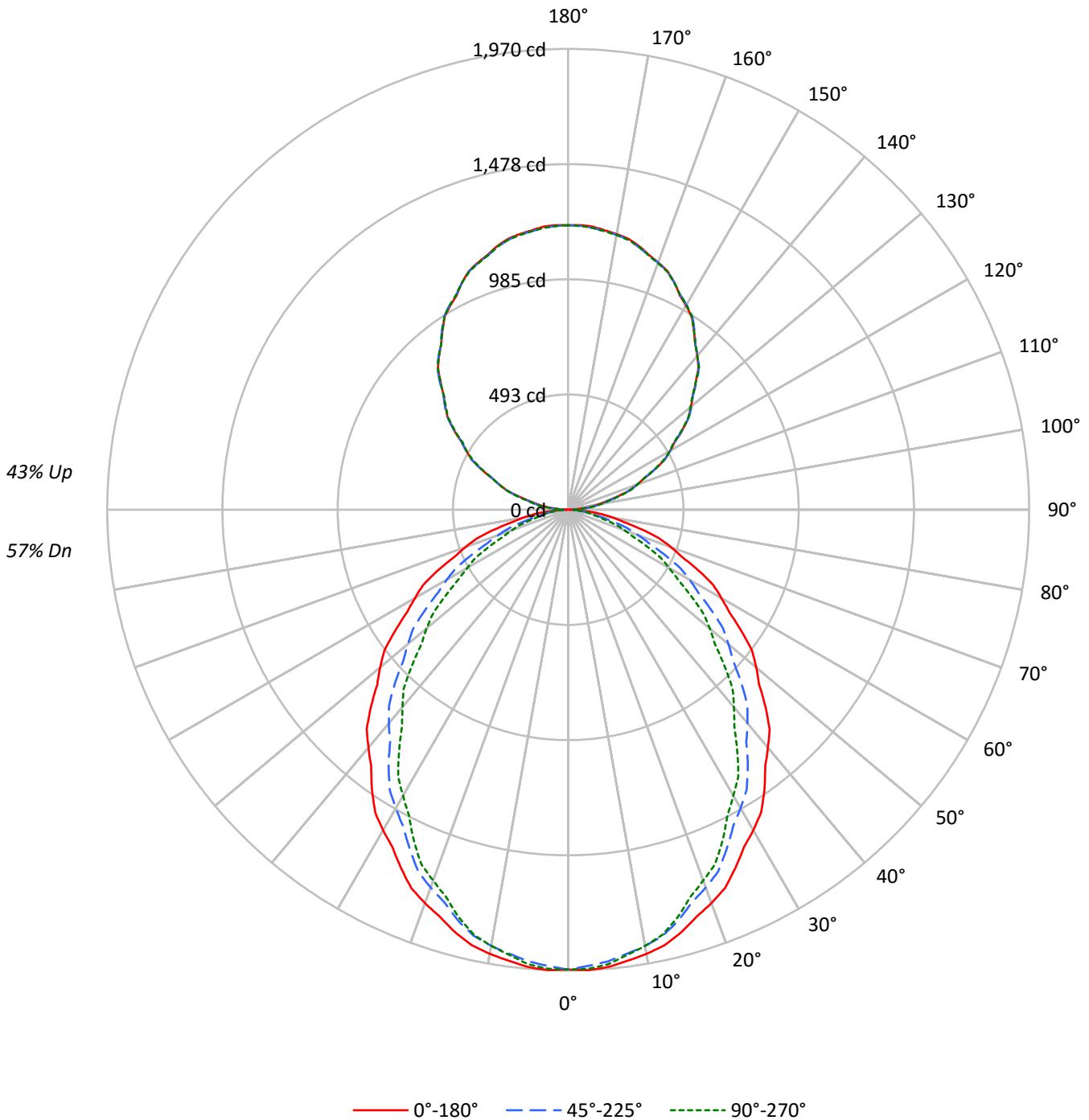
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333007-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-F1

### Luminous Intensity Polar Plot





TEST NUMBER: P333007-830

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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   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 | 57 |
| 1   | 100 | 95  | 92  | 88  | 93  | 89  | 86  | 83  | 77 | 75 | 73 | 66 | 64 | 63 | 56 | 55 | 54 | 49 |
| 2   | 91  | 84  | 78  | 73  | 85  | 78  | 73  | 68  | 68 | 64 | 61 | 59 | 56 | 53 | 50 | 48 | 46 | 41 |
| 3   | 83  | 74  | 67  | 61  | 77  | 69  | 63  | 58  | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 42 | 39 | 35 |
| 4   | 76  | 66  | 58  | 52  | 71  | 61  | 54  | 49  | 54 | 48 | 44 | 46 | 42 | 39 | 40 | 37 | 34 | 31 |
| 5   | 70  | 59  | 51  | 45  | 65  | 55  | 48  | 42  | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 33 | 30 | 27 |
| 6   | 65  | 53  | 45  | 39  | 60  | 50  | 42  | 37  | 44 | 38 | 33 | 38 | 33 | 30 | 33 | 29 | 26 | 24 |
| 7   | 60  | 48  | 40  | 34  | 56  | 45  | 38  | 33  | 40 | 34 | 30 | 35 | 30 | 27 | 30 | 26 | 24 | 21 |
| 8   | 56  | 43  | 36  | 30  | 52  | 41  | 34  | 29  | 36 | 30 | 26 | 32 | 27 | 24 | 28 | 24 | 21 | 19 |
| 9   | 52  | 40  | 32  | 27  | 48  | 38  | 31  | 26  | 33 | 28 | 24 | 29 | 25 | 21 | 26 | 22 | 19 | 17 |
| 10  | 49  | 37  | 29  | 24  | 45  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 23 | 19 | 24 | 20 | 18 | 16 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15868 | 15868 | 15868 |
| 5°  | 15904 | 15709 | 15807 |
| 10° | 15805 | 15521 | 15521 |
| 15° | 15623 | 15195 | 15082 |
| 20° | 15374 | 14766 | 14495 |
| 25° | 15055 | 14264 | 13903 |
| 30° | 14746 | 13736 | 13160 |
| 35° | 14402 | 13186 | 12415 |
| 40° | 13990 | 12562 | 11610 |
| 45° | 13609 | 11942 | 10791 |
| 50° | 13175 | 11228 | 9923  |
| 55° | 12711 | 10486 | 8981  |
| 60° | 12198 | 9671  | 8018  |
| 65° | 11731 | 8653  | 7072  |
| 70° | 11049 | 7532  | 6005  |
| 75° | 10187 | 6245  | 4885  |
| 80° | 8884  | 4761  | 4477  |
| 85° | 7521  | 4326  | 4039  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.6  | 2.3       |
| 10°-20°   | 514.9  | 6.5       |
| 20°-30°   | 743.5  | 9.4       |
| 30°-40°   | 842.8  | 10.6      |
| 40°-50°   | 813.8  | 10.3      |
| 50°-60°   | 676.7  | 8.5       |
| 60°-70°   | 467.3  | 5.9       |
| 70°-80°   | 236.9  | 3.0       |
| 80°-90°   | 64.4   | 0.8       |
| 90°-100°  | 80.2   | 1.0       |
| 100°-110° | 237.7  | 3.0       |
| 110°-120° | 403.4  | 5.1       |
| 120°-130° | 531.9  | 6.7       |
| 130°-140° | 597.4  | 7.5       |
| 140°-150° | 587.0  | 7.4       |
| 150°-160° | 493.7  | 6.2       |
| 160°-170° | 328.5  | 4.1       |
| 170°-180° | 115.0  | 1.5       |
| 0°-30°    | 1443.1 | 18.2      |
| 0°-40°    | 2285.8 | 28.9      |
| 0°-60°    | 3776.4 | 47.7      |
| 0°-90°    | 4545.0 | 57.4      |
| 90°-120°  | 721.3  | 9.1       |
| 90°-150°  | 2437.7 | 30.8      |
| 90°-180°  | 3375.0 | 42.6      |
| 0°-180°   | 7919.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1966 | 1966  | 1966 | 1966  | 1966 |      |
| 5°   | 1963 | 1956  | 1938 | 1953  | 1951 | 186  |
| 15°  | 1869 | 1854  | 1818 | 1815  | 1805 | 526  |
| 25°  | 1690 | 1661  | 1601 | 1576  | 1561 | 778  |
| 35°  | 1461 | 1412  | 1338 | 1288  | 1260 | 913  |
| 45°  | 1192 | 1134  | 1046 | 975   | 945  | 919  |
| 55°  | 903  | 841   | 745  | 669   | 638  | 807  |
| 65°  | 614  | 548   | 453  | 391   | 370  | 606  |
| 75°  | 327  | 270   | 200  | 167   | 157  | 345  |
| 85°  | 81   | 53    | 47   | 44    | 44   | 91   |
| 90°  | 3    | 13    | 21   | 26    | 28   | 7    |
| 95°  | 56   | 65    | 72   | 74    | 74   | 63   |
| 105° | 219  | 220   | 224  | 227   | 230  | 233  |
| 115° | 410  | 410   | 408  | 407   | 406  | 404  |
| 125° | 597  | 597   | 596  | 595   | 593  | 532  |
| 135° | 770  | 776   | 776  | 774   | 772  | 596  |
| 145° | 936  | 940   | 941  | 940   | 937  | 586  |
| 155° | 1072 | 1072  | 1072 | 1075  | 1072 | 493  |
| 165° | 1168 | 1165  | 1163 | 1168  | 1165 | 329  |
| 175° | 1215 | 1210  | 1209 | 1215  | 1209 | 115  |
| 180° | 1216 | 1216  | 1216 | 1216  | 1216 |      |



TEST NUMBER: P333007-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 |
| 2.5°   | 1970.4 | 1969.3 | 1968.3 | 1967.2 | 1966.1 | 1964.2 | 1961.2 | 1958.2 | 1955.3 | 1952.4 | 1955.3 |
| 5°     | 1962.6 | 1961.2 | 1959.9 | 1958.6 | 1957.3 | 1954.6 | 1950.6 | 1946.5 | 1942.6 | 1938.5 | 1941.8 |
| 7.5°   | 1944.8 | 1943.4 | 1942.0 | 1940.6 | 1939.2 | 1935.9 | 1930.7 | 1925.5 | 1920.2 | 1915.1 | 1917.2 |
| 10°    | 1928.0 | 1926.3 | 1924.7 | 1923.0 | 1921.3 | 1917.4 | 1911.5 | 1905.4 | 1899.4 | 1893.4 | 1894.7 |
| 12.5°  | 1906.3 | 1904.4 | 1902.4 | 1900.4 | 1898.6 | 1894.0 | 1887.0 | 1879.9 | 1872.7 | 1865.7 | 1866.5 |
| 15°    | 1869.3 | 1866.2 | 1863.3 | 1860.3 | 1857.3 | 1851.5 | 1843.2 | 1834.8 | 1826.5 | 1818.1 | 1817.4 |
| 17.5°  | 1824.5 | 1820.0 | 1815.7 | 1811.4 | 1807.0 | 1799.9 | 1789.8 | 1779.8 | 1769.7 | 1759.7 | 1757.8 |
| 20°    | 1789.5 | 1785.2 | 1780.8 | 1776.5 | 1772.2 | 1764.3 | 1752.9 | 1741.5 | 1730.1 | 1718.8 | 1716.1 |
| 22.5°  | 1751.0 | 1746.2 | 1741.3 | 1736.4 | 1731.5 | 1723.0 | 1710.7 | 1698.6 | 1686.4 | 1674.2 | 1670.2 |
| 25°    | 1690.2 | 1684.1 | 1678.1 | 1672.2 | 1666.1 | 1656.2 | 1642.6 | 1628.8 | 1615.1 | 1601.4 | 1595.7 |
| 27.5°  | 1626.4 | 1618.8 | 1611.3 | 1603.7 | 1596.1 | 1585.1 | 1570.4 | 1555.8 | 1541.1 | 1526.4 | 1519.4 |
| 30°    | 1581.9 | 1573.5 | 1565.1 | 1556.7 | 1548.4 | 1536.3 | 1520.6 | 1504.9 | 1489.2 | 1473.5 | 1465.1 |
| 32.5°  | 1534.8 | 1525.4 | 1516.0 | 1506.6 | 1497.1 | 1484.3 | 1468.0 | 1451.8 | 1435.5 | 1419.3 | 1409.6 |
| 35°    | 1461.4 | 1450.7 | 1440.0 | 1429.3 | 1418.6 | 1404.9 | 1388.2 | 1371.5 | 1354.7 | 1338.0 | 1326.6 |
| 37.5°  | 1382.9 | 1371.8 | 1360.7 | 1349.7 | 1338.7 | 1323.9 | 1305.4 | 1286.9 | 1268.4 | 1249.8 | 1237.1 |
| 40°    | 1327.5 | 1316.4 | 1305.4 | 1294.4 | 1283.3 | 1268.3 | 1249.2 | 1230.1 | 1211.1 | 1192.0 | 1178.0 |
| 42.5°  | 1274.5 | 1262.9 | 1251.3 | 1239.7 | 1228.2 | 1212.5 | 1192.6 | 1172.7 | 1152.9 | 1133.0 | 1118.7 |
| 45°    | 1192.0 | 1179.6 | 1167.2 | 1154.9 | 1142.6 | 1126.2 | 1106.3 | 1086.2 | 1066.1 | 1046.0 | 1029.6 |
| 47.5°  | 1106.8 | 1094.0 | 1081.3 | 1068.5 | 1055.7 | 1038.9 | 1018.0 | 997.1  | 976.3  | 955.5  | 938.4  |
| 50°    | 1049.0 | 1035.9 | 1022.9 | 1009.9 | 996.8  | 979.6  | 958.2  | 936.8  | 915.4  | 894.0  | 877.3  |
| 52.5°  | 990.0  | 977.2  | 964.5  | 951.7  | 939.0  | 921.5  | 899.7  | 877.7  | 855.7  | 833.8  | 816.8  |
| 55°    | 903.1  | 889.7  | 876.3  | 862.9  | 849.5  | 832.0  | 810.2  | 788.5  | 766.8  | 745.0  | 727.6  |
| 57.5°  | 816.9  | 803.0  | 789.1  | 775.2  | 761.3  | 743.7  | 722.3  | 700.8  | 679.4  | 658.0  | 640.4  |
| 60°    | 755.5  | 742.2  | 728.8  | 715.4  | 702.0  | 684.7  | 663.3  | 641.9  | 620.4  | 599.0  | 581.6  |
| 62.5°  | 700.1  | 686.3  | 672.3  | 658.5  | 644.5  | 626.6  | 604.6  | 582.7  | 560.7  | 538.9  | 522.7  |
| 65°    | 614.1  | 599.6  | 585.3  | 570.9  | 556.6  | 538.7  | 517.3  | 495.9  | 474.5  | 453.0  | 438.7  |
| 67.5°  | 524.6  | 510.9  | 497.1  | 483.3  | 469.6  | 452.7  | 432.8  | 413.0  | 393.1  | 373.2  | 360.9  |
| 70°    | 468.1  | 454.0  | 440.0  | 425.9  | 411.9  | 395.3  | 376.3  | 357.2  | 338.2  | 319.1  | 308.0  |
| 72.5°  | 407.8  | 395.2  | 382.5  | 369.8  | 357.0  | 341.7  | 323.7  | 305.7  | 287.7  | 269.7  | 260.2  |
| 75°    | 326.6  | 314.2  | 301.8  | 289.5  | 277.1  | 263.1  | 247.3  | 231.6  | 215.9  | 200.2  | 192.5  |
| 77.5°  | 244.1  | 233.7  | 223.1  | 212.6  | 202.1  | 190.5  | 177.8  | 165.1  | 152.4  | 139.7  | 135.2  |
| 80°    | 191.1  | 181.4  | 171.7  | 162.0  | 152.3  | 142.5  | 132.4  | 122.4  | 112.4  | 102.4  | 101.3  |
| 82.5°  | 145.4  | 136.5  | 127.6  | 118.7  | 109.8  | 102.5  | 96.7   | 91.0   | 85.2   | 79.5   | 78.7   |
| 85°    | 81.2   | 74.6   | 67.9   | 61.2   | 54.5   | 50.7   | 49.7   | 48.6   | 47.7   | 46.7   | 46.0   |
| 87.5°  | 28.3   | 26.6   | 24.9   | 23.2   | 21.5   | 20.7   | 20.8   | 20.8   | 20.9   | 21.0   | 21.0   |
| 90°    | 2.8    | 5.1    | 7.4    | 9.7    | 12.1   | 14.0   | 15.6   | 17.3   | 19.0   | 20.7   | 22.0   |
| 92.5°  | 20.2   | 22.8   | 25.4   | 28.0   | 30.6   | 32.6   | 33.7   | 34.9   | 36.1   | 37.2   | 38.0   |
| 95°    | 56.5   | 58.3   | 60.2   | 62.1   | 64.0   | 65.6   | 67.1   | 68.6   | 70.0   | 71.5   | 72.1   |
| 97.5°  | 98.6   | 100.1  | 101.6  | 103.1  | 104.6  | 106.2  | 107.9  | 109.6  | 111.4  | 113.1  | 113.9  |
| 100°   | 131.7  | 132.5  | 133.4  | 134.2  | 135.1  | 136.4  | 138.3  | 140.2  | 142.0  | 143.9  | 144.4  |
| 102.5° | 166.4  | 166.6  | 167.0  | 167.3  | 167.7  | 168.7  | 170.4  | 172.1  | 173.8  | 175.6  | 176.2  |
| 105°   | 219.2  | 219.4  | 219.6  | 219.8  | 220.1  | 220.6  | 221.4  | 222.3  | 223.1  | 223.9  | 224.5  |
| 107.5° | 274.8  | 274.9  | 275.2  | 275.5  | 275.7  | 275.9  | 276.1  | 276.2  | 276.3  | 276.4  | 277.0  |
| 110°   | 312.4  | 312.7  | 313.2  | 313.6  | 314.1  | 314.1  | 313.9  | 313.7  | 313.5  | 313.3  | 312.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 351.5  | 351.6  | 351.7  | 351.8  | 351.9  | 351.7  | 351.3  | 350.9  | 350.5  | 350.2  | 350.1  |
| 115°   | 410.2  | 410.2  | 410.2  | 410.2  | 410.2  | 410.0  | 409.5  | 409.2  | 408.7  | 408.3  | 408.1  |
| 117.5° | 465.5  | 465.7  | 465.8  | 466.0  | 466.2  | 466.1  | 465.8  | 465.5  | 465.2  | 465.0  | 464.2  |
| 120°   | 502.4  | 503.2  | 504.1  | 504.9  | 505.8  | 505.9  | 505.2  | 504.5  | 504.0  | 503.3  | 502.3  |
| 122.5° | 540.7  | 541.1  | 541.4  | 541.8  | 542.1  | 542.2  | 541.9  | 541.5  | 541.2  | 540.9  | 540.3  |
| 125°   | 597.4  | 597.4  | 597.4  | 597.4  | 597.4  | 597.3  | 597.1  | 596.9  | 596.6  | 596.4  | 596.1  |
| 127.5° | 648.8  | 649.4  | 650.0  | 650.6  | 651.3  | 651.4  | 651.1  | 650.7  | 650.4  | 650.1  | 649.7  |
| 130°   | 684.9  | 685.5  | 686.2  | 686.7  | 687.4  | 687.7  | 687.7  | 687.7  | 687.7  | 687.7  | 687.3  |
| 132.5° | 721.8  | 722.3  | 722.6  | 723.1  | 723.6  | 723.8  | 723.6  | 723.4  | 723.2  | 723.1  | 722.6  |
| 135°   | 770.5  | 771.8  | 773.0  | 774.3  | 775.5  | 776.2  | 776.2  | 776.2  | 776.2  | 776.2  | 775.7  |
| 137.5° | 823.6  | 824.2  | 824.7  | 825.3  | 826.0  | 826.3  | 826.7  | 827.1  | 827.4  | 827.7  | 827.2  |
| 140°   | 858.9  | 859.3  | 859.8  | 860.2  | 860.6  | 860.8  | 860.8  | 860.8  | 860.8  | 860.8  | 860.6  |
| 142.5° | 891.3  | 891.7  | 892.1  | 892.6  | 893.0  | 893.1  | 893.0  | 892.8  | 892.6  | 892.4  | 892.4  |
| 145°   | 936.0  | 936.9  | 937.7  | 938.6  | 939.4  | 939.9  | 940.2  | 940.4  | 940.6  | 940.8  | 940.6  |
| 147.5° | 980.5  | 981.5  | 982.5  | 983.5  | 984.5  | 985.0  | 984.8  | 984.6  | 984.4  | 984.3  | 984.1  |
| 150°   | 1007.6 | 1008.4 | 1009.3 | 1010.1 | 1011.0 | 1011.3 | 1011.3 | 1011.3 | 1011.3 | 1011.3 | 1011.3 |
| 152.5° | 1033.2 | 1033.7 | 1034.2 | 1034.7 | 1035.2 | 1035.5 | 1035.7 | 1035.9 | 1036.0 | 1036.1 | 1036.7 |
| 155°   | 1072.5 | 1072.5 | 1072.5 | 1072.5 | 1072.5 | 1072.4 | 1072.1 | 1072.0 | 1071.8 | 1071.6 | 1072.4 |
| 157.5° | 1105.6 | 1105.2 | 1104.8 | 1104.5 | 1104.1 | 1103.9 | 1103.8 | 1103.8 | 1103.8 | 1103.7 | 1104.4 |
| 160°   | 1125.2 | 1124.9 | 1124.7 | 1124.5 | 1124.4 | 1124.2 | 1123.9 | 1123.7 | 1123.5 | 1123.3 | 1123.9 |
| 162.5° | 1143.2 | 1142.7 | 1142.2 | 1141.6 | 1141.0 | 1140.7 | 1140.5 | 1140.3 | 1140.1 | 1139.8 | 1140.9 |
| 165°   | 1167.5 | 1166.9 | 1166.3 | 1165.6 | 1165.0 | 1164.5 | 1164.0 | 1163.7 | 1163.2 | 1162.8 | 1164.0 |
| 167.5° | 1186.2 | 1185.2 | 1184.4 | 1183.6 | 1182.6 | 1182.2 | 1182.2 | 1182.3 | 1182.3 | 1182.4 | 1183.6 |
| 170°   | 1196.7 | 1195.6 | 1194.6 | 1193.5 | 1192.5 | 1192.0 | 1192.3 | 1192.5 | 1192.7 | 1192.9 | 1194.2 |
| 172.5° | 1204.2 | 1203.3 | 1202.5 | 1201.6 | 1200.7 | 1200.2 | 1200.3 | 1200.3 | 1200.4 | 1200.4 | 1201.8 |
| 175°   | 1214.6 | 1213.5 | 1212.5 | 1211.4 | 1210.4 | 1209.8 | 1209.6 | 1209.3 | 1209.1 | 1208.9 | 1210.4 |
| 177.5° | 1218.0 | 1217.1 | 1216.3 | 1215.4 | 1214.6 | 1214.2 | 1214.2 | 1214.2 | 1214.2 | 1214.2 | 1215.3 |
| 180°   | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 |



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CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 |
| 2.5°   | 1958.2 | 1961.2 | 1964.2 | 1965.5 | 1965.2 | 1964.9 | 1964.6 | 1964.4 |
| 5°     | 1945.2 | 1948.5 | 1951.9 | 1953.2 | 1952.6 | 1951.9 | 1951.3 | 1950.6 |
| 7.5°   | 1919.3 | 1921.5 | 1923.6 | 1924.1 | 1923.1 | 1922.0 | 1920.9 | 1919.9 |
| 10°    | 1896.0 | 1897.3 | 1898.8 | 1898.8 | 1897.3 | 1896.0 | 1894.7 | 1893.4 |
| 12.5°  | 1867.3 | 1868.1 | 1868.9 | 1868.3 | 1866.5 | 1864.6 | 1862.7 | 1860.9 |
| 15°    | 1816.8 | 1816.1 | 1815.4 | 1813.9 | 1811.6 | 1809.2 | 1806.9 | 1804.6 |
| 17.5°  | 1756.0 | 1754.1 | 1752.2 | 1749.5 | 1746.0 | 1742.4 | 1738.9 | 1735.3 |
| 20°    | 1713.4 | 1710.7 | 1708.1 | 1704.6 | 1700.3 | 1695.9 | 1691.5 | 1687.2 |
| 22.5°  | 1666.2 | 1662.2 | 1658.2 | 1654.4 | 1650.9 | 1647.3 | 1643.8 | 1640.2 |
| 25°    | 1590.0 | 1584.3 | 1578.7 | 1574.1 | 1570.7 | 1567.4 | 1564.1 | 1560.8 |
| 27.5°  | 1512.4 | 1505.3 | 1498.4 | 1492.4 | 1487.6 | 1482.8 | 1478.0 | 1473.2 |
| 30°    | 1456.7 | 1448.4 | 1440.0 | 1433.1 | 1427.8 | 1422.5 | 1417.1 | 1411.7 |
| 32.5°  | 1399.9 | 1390.2 | 1380.4 | 1373.1 | 1368.0 | 1362.9 | 1357.8 | 1352.7 |
| 35°    | 1315.2 | 1303.9 | 1292.5 | 1283.8 | 1277.8 | 1271.8 | 1265.7 | 1259.7 |
| 37.5°  | 1224.4 | 1211.6 | 1199.0 | 1189.6 | 1183.6 | 1177.5 | 1171.6 | 1165.5 |
| 40°    | 1163.9 | 1149.9 | 1135.9 | 1125.8 | 1119.7 | 1113.7 | 1107.8 | 1101.7 |
| 42.5°  | 1104.4 | 1090.1 | 1075.7 | 1065.5 | 1059.1 | 1052.9 | 1046.6 | 1040.3 |
| 45°    | 1013.2 | 996.8  | 980.4  | 969.2  | 963.3  | 957.2  | 951.2  | 945.2  |
| 47.5°  | 921.4  | 904.5  | 887.5  | 875.6  | 869.0  | 862.4  | 855.7  | 849.1  |
| 50°    | 860.5  | 843.9  | 827.1  | 815.6  | 809.3  | 802.9  | 796.5  | 790.1  |
| 52.5°  | 799.8  | 782.9  | 765.8  | 754.0  | 747.4  | 740.8  | 734.1  | 727.5  |
| 55°    | 710.2  | 692.9  | 675.4  | 663.5  | 657.2  | 650.8  | 644.5  | 638.1  |
| 57.5°  | 622.7  | 605.0  | 587.4  | 576.2  | 571.4  | 566.5  | 561.7  | 556.9  |
| 60°    | 564.2  | 546.9  | 529.4  | 518.1  | 512.7  | 507.4  | 502.0  | 496.6  |
| 62.5°  | 506.7  | 490.7  | 474.6  | 464.4  | 460.1  | 455.9  | 451.6  | 447.3  |
| 65°    | 424.2  | 409.9  | 395.5  | 386.3  | 382.3  | 378.2  | 374.3  | 370.2  |
| 67.5°  | 348.6  | 336.1  | 323.8  | 315.4  | 310.9  | 306.5  | 302.1  | 297.7  |
| 70°    | 297.0  | 286.0  | 274.9  | 267.8  | 264.4  | 261.1  | 257.7  | 254.4  |
| 72.5°  | 250.8  | 241.4  | 232.0  | 225.7  | 222.6  | 219.6  | 216.5  | 213.4  |
| 75°    | 184.8  | 177.1  | 169.4  | 164.6  | 162.6  | 160.5  | 158.5  | 156.6  |
| 77.5°  | 130.7  | 126.2  | 121.8  | 119.2  | 118.6  | 118.0  | 117.4  | 116.8  |
| 80°    | 100.4  | 99.3   | 98.3   | 97.6   | 97.4   | 97.0   | 96.7   | 96.3   |
| 82.5°  | 78.0   | 77.3   | 76.5   | 76.0   | 75.7   | 75.3   | 75.0   | 74.6   |
| 85°    | 45.3   | 44.7   | 44.0   | 43.6   | 43.6   | 43.6   | 43.6   | 43.6   |
| 87.5°  | 20.9   | 20.9   | 20.9   | 21.1   | 21.5   | 21.8   | 22.1   | 22.5   |
| 90°    | 23.2   | 24.5   | 25.7   | 26.6   | 27.0   | 27.4   | 27.8   | 28.2   |
| 92.5°  | 38.7   | 39.5   | 40.2   | 40.8   | 41.0   | 41.3   | 41.6   | 41.8   |
| 95°    | 72.8   | 73.4   | 74.0   | 74.4   | 74.4   | 74.4   | 74.4   | 74.4   |
| 97.5°  | 114.6  | 115.4  | 116.1  | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  |
| 100°   | 144.8  | 145.2  | 145.6  | 145.8  | 145.8  | 145.8  | 145.8  | 145.8  |
| 102.5° | 176.7  | 177.3  | 177.9  | 178.2  | 178.4  | 178.6  | 178.8  | 178.9  |
| 105°   | 225.2  | 225.8  | 226.4  | 227.1  | 227.6  | 228.3  | 228.9  | 229.5  |
| 107.5° | 277.6  | 278.1  | 278.7  | 279.0  | 279.0  | 278.9  | 278.9  | 278.8  |
| 110°   | 312.5  | 312.0  | 311.6  | 311.7  | 312.4  | 312.9  | 313.6  | 314.2  |





TEST NUMBER: P333007-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 350.0  | 349.9  | 349.9  | 349.9  | 350.0  | 350.1  | 350.2  | 350.3  |
| 115°   | 407.8  | 407.6  | 407.5  | 407.3  | 407.1  | 406.8  | 406.6  | 406.4  |
| 117.5° | 463.5  | 462.8  | 462.1  | 461.6  | 461.1  | 460.7  | 460.2  | 459.9  |
| 120°   | 501.2  | 500.2  | 499.2  | 498.8  | 499.3  | 499.6  | 500.1  | 500.5  |
| 122.5° | 539.5  | 538.9  | 538.1  | 537.3  | 536.6  | 535.8  | 535.1  | 534.3  |
| 125°   | 595.6  | 595.2  | 594.7  | 594.4  | 594.0  | 593.5  | 593.1  | 592.7  |
| 127.5° | 649.2  | 648.8  | 648.4  | 648.0  | 647.7  | 647.3  | 647.1  | 646.7  |
| 130°   | 686.9  | 686.5  | 686.1  | 685.4  | 684.6  | 683.7  | 682.9  | 682.0  |
| 132.5° | 722.3  | 721.8  | 721.4  | 721.0  | 720.7  | 720.4  | 720.0  | 719.7  |
| 135°   | 775.3  | 774.9  | 774.5  | 773.9  | 773.4  | 772.7  | 772.0  | 771.5  |
| 137.5° | 826.6  | 826.0  | 825.6  | 825.3  | 825.5  | 825.6  | 825.7  | 825.9  |
| 140°   | 860.4  | 860.2  | 860.0  | 859.8  | 859.6  | 859.3  | 859.1  | 858.9  |
| 142.5° | 892.3  | 892.3  | 892.3  | 892.2  | 892.2  | 892.1  | 892.1  | 892.0  |
| 145°   | 940.4  | 940.2  | 939.9  | 939.5  | 938.9  | 938.3  | 937.6  | 937.0  |
| 147.5° | 983.9  | 983.7  | 983.5  | 983.4  | 983.2  | 983.0  | 982.8  | 982.6  |
| 150°   | 1011.3 | 1011.3 | 1011.3 | 1011.3 | 1011.1 | 1010.8 | 1010.6 | 1010.4 |
| 152.5° | 1037.2 | 1037.6 | 1038.2 | 1038.2 | 1037.6 | 1037.1 | 1036.5 | 1035.9 |
| 155°   | 1073.3 | 1074.0 | 1074.9 | 1074.9 | 1074.0 | 1073.3 | 1072.4 | 1071.6 |
| 157.5° | 1104.9 | 1105.6 | 1106.3 | 1106.2 | 1105.5 | 1104.8 | 1104.1 | 1103.3 |
| 160°   | 1124.5 | 1125.2 | 1125.8 | 1125.6 | 1124.5 | 1123.5 | 1122.5 | 1121.4 |
| 162.5° | 1142.1 | 1143.2 | 1144.3 | 1144.4 | 1143.4 | 1142.4 | 1141.3 | 1140.2 |
| 165°   | 1165.4 | 1166.6 | 1167.8 | 1168.0 | 1167.2 | 1166.4 | 1165.5 | 1164.7 |
| 167.5° | 1184.9 | 1186.2 | 1187.4 | 1187.4 | 1186.1 | 1184.8 | 1183.5 | 1182.2 |
| 170°   | 1195.4 | 1196.7 | 1198.0 | 1197.8 | 1196.4 | 1194.9 | 1193.4 | 1191.9 |
| 172.5° | 1203.2 | 1204.7 | 1206.2 | 1206.1 | 1204.7 | 1203.2 | 1201.7 | 1200.2 |
| 175°   | 1211.8 | 1213.3 | 1214.7 | 1214.7 | 1213.3 | 1211.8 | 1210.4 | 1208.9 |
| 177.5° | 1216.5 | 1217.7 | 1218.9 | 1218.8 | 1217.5 | 1216.1 | 1214.7 | 1213.4 |
| 180°   | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 |

(END OF REPORT)