

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: P333591-840

Luminaire Tested: **S125RDIP-S1090D590U840-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333591-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIP-S1090D590U840-4F0-1E-UDD-F4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6408.5 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Direct

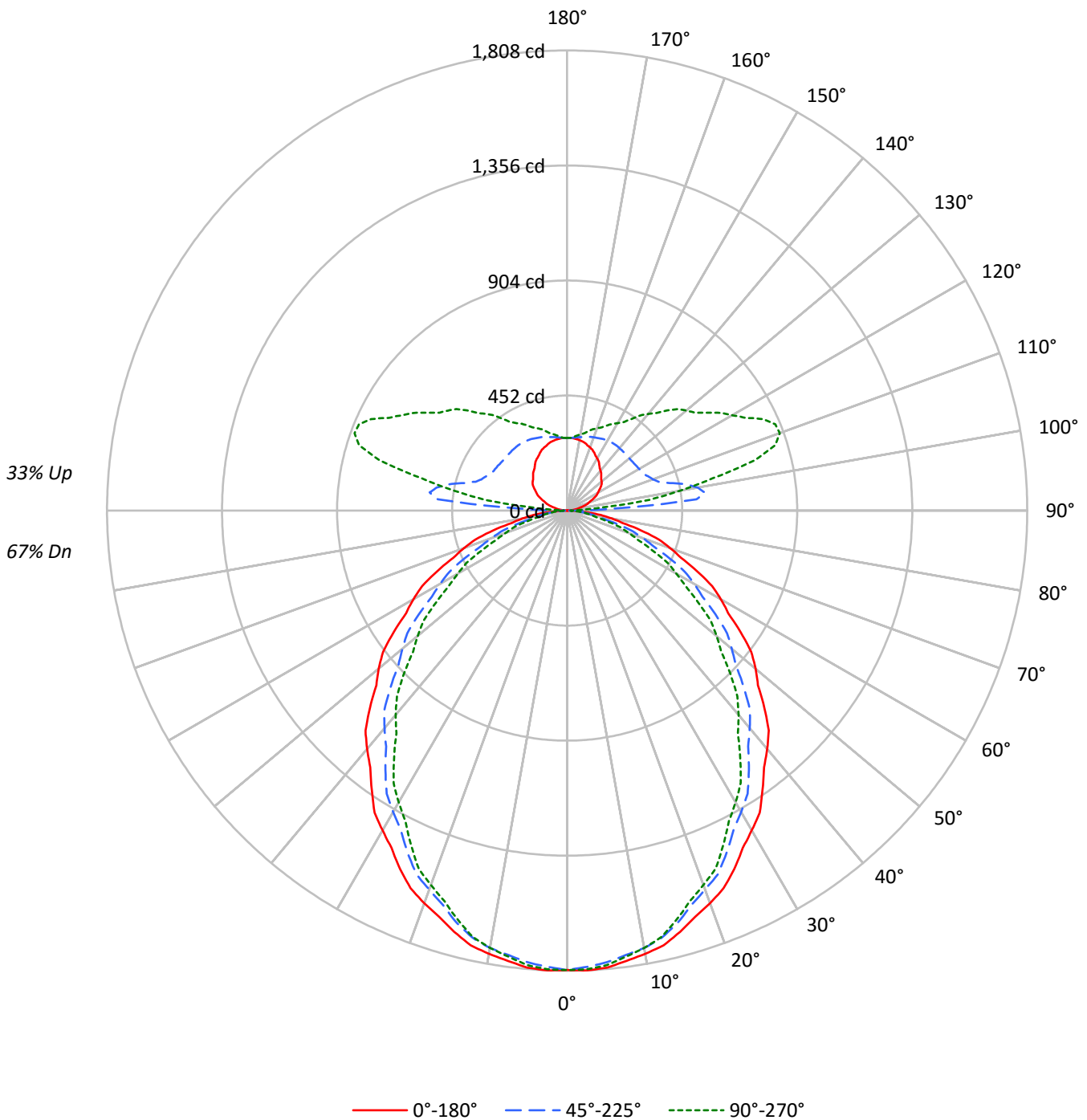
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333591-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P333591-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-F4

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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 81 | 81 | 81 | 71 | 71 | 71 | 67 |
| 1 | 102 | 97 | 94 | 90 | 96 | 92 | 89 | 86 | 82 | 79 | 77 | 72 | 70 | 69 | 64 | 62 | 61 | 57 |
| 2 | 93 | 85 | 79 | 74 | 87 | 81 | 75 | 71 | 72 | 68 | 64 | 64 | 61 | 58 | 56 | 54 | 52 | 48 |
| 3 | 85 | 75 | 68 | 62 | 80 | 71 | 65 | 59 | 64 | 58 | 54 | 57 | 53 | 49 | 50 | 47 | 44 | 41 |
| 4 | 78 | 67 | 59 | 53 | 73 | 63 | 56 | 51 | 57 | 51 | 46 | 51 | 46 | 42 | 45 | 41 | 38 | 35 |
| 5 | 72 | 60 | 52 | 46 | 67 | 57 | 49 | 44 | 51 | 45 | 40 | 46 | 41 | 37 | 41 | 37 | 34 | 31 |
| 6 | 66 | 54 | 46 | 40 | 62 | 51 | 44 | 38 | 46 | 40 | 35 | 41 | 36 | 33 | 37 | 33 | 30 | 27 |
| 7 | 61 | 49 | 41 | 35 | 58 | 46 | 39 | 34 | 42 | 36 | 31 | 38 | 33 | 29 | 34 | 30 | 27 | 24 |
| 8 | 57 | 45 | 37 | 31 | 54 | 42 | 35 | 30 | 38 | 32 | 28 | 35 | 30 | 26 | 31 | 27 | 24 | 22 |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 | 20 |
| 10 | 50 | 38 | 30 | 25 | 47 | 36 | 29 | 24 | 33 | 27 | 23 | 30 | 25 | 21 | 27 | 23 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11657 | 11657 | 11657 |
| 5° | 11684 | 11551 | 11622 |
| 10° | 11596 | 11444 | 11444 |
| 15° | 11457 | 11212 | 11120 |
| 20° | 11281 | 10888 | 10757 |
| 25° | 11075 | 10570 | 10337 |
| 30° | 10818 | 10197 | 9871 |
| 35° | 10555 | 9813 | 9351 |
| 40° | 10309 | 9413 | 8838 |
| 45° | 10011 | 8965 | 8280 |
| 50° | 9711 | 8478 | 7698 |
| 55° | 9364 | 8014 | 7076 |
| 60° | 9016 | 7448 | 6409 |
| 65° | 8604 | 6791 | 5645 |
| 70° | 8135 | 5973 | 4864 |
| 75° | 7483 | 5036 | 4047 |
| 80° | 6590 | 3954 | 3396 |
| 85° | 5550 | 3231 | 3031 |



TEST NUMBER: P333591-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 169.7 | 2.6 |
| 10°-20° | 474.3 | 7.4 |
| 20°-30° | 687.8 | 10.7 |
| 30°-40° | 783.9 | 12.2 |
| 40°-50° | 764.1 | 11.9 |
| 50°-60° | 643.2 | 10.0 |
| 60°-70° | 450.9 | 7.0 |
| 70°-80° | 231.8 | 3.6 |
| 80°-90° | 60.1 | 0.9 |
| 90°-100° | 207.1 | 3.2 |
| 100°-110° | 445.2 | 6.9 |
| 110°-120° | 417.8 | 6.5 |
| 120°-130° | 338.6 | 5.3 |
| 130°-140° | 271.7 | 4.2 |
| 140°-150° | 205.1 | 3.2 |
| 150°-160° | 144.3 | 2.3 |
| 160°-170° | 85.1 | 1.3 |
| 170°-180° | 27.7 | 0.4 |
| 0°-30° | 1331.9 | 20.8 |
| 0°-40° | 2115.8 | 33.0 |
| 0°-60° | 3523.1 | 55.0 |
| 0°-90° | 4265.8 | 66.6 |
| 90°-120° | 1070.2 | 16.7 |
| 90°-150° | 1885.6 | 29.4 |
| 90°-180° | 2143.0 | 33.4 |
| 0°-180° | 6408.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1805 | 1805 | 1805 | 1805 | 1805 | |
| 5° | 1802 | 1796 | 1782 | 1794 | 1793 | 171 |
| 15° | 1714 | 1704 | 1677 | 1675 | 1663 | 483 |
| 25° | 1554 | 1532 | 1483 | 1466 | 1451 | 715 |
| 35° | 1339 | 1304 | 1245 | 1206 | 1186 | 838 |
| 45° | 1096 | 1055 | 982 | 929 | 907 | 845 |
| 55° | 832 | 786 | 712 | 652 | 628 | 744 |
| 65° | 563 | 515 | 444 | 392 | 369 | 558 |
| 75° | 300 | 258 | 202 | 173 | 162 | 317 |
| 85° | 75 | 51 | 44 | 42 | 41 | 84 |
| 90° | 1 | 5 | 9 | 12 | 13 | 5 |
| 95° | 19 | 56 | 510 | 232 | 135 | 20 |
| 105° | 65 | 91 | 418 | 822 | 763 | 69 |
| 115° | 116 | 140 | 335 | 723 | 850 | 114 |
| 125° | 161 | 189 | 321 | 575 | 670 | 143 |
| 135° | 189 | 227 | 319 | 482 | 556 | 147 |
| 145° | 220 | 252 | 320 | 399 | 439 | 138 |
| 155° | 251 | 270 | 312 | 353 | 368 | 116 |
| 165° | 274 | 282 | 300 | 318 | 323 | 77 |
| 175° | 285 | 285 | 287 | 291 | 290 | 27 |
| 180° | 286 | 286 | 286 | 286 | 286 | |



TEST NUMBER: P333591-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 |
| 2.5° | 1808.3 | 1807.6 | 1806.9 | 1806.0 | 1805.3 | 1803.8 | 1801.4 | 1799.0 | 1796.5 | 1794.1 | 1796.5 |
| 5° | 1802.3 | 1801.1 | 1799.9 | 1798.7 | 1797.5 | 1795.1 | 1791.8 | 1788.5 | 1785.1 | 1781.8 | 1784.8 |
| 7.5° | 1784.5 | 1783.4 | 1782.2 | 1781.1 | 1779.9 | 1777.4 | 1773.3 | 1769.4 | 1765.3 | 1761.4 | 1763.5 |
| 10° | 1768.2 | 1767.3 | 1766.4 | 1765.4 | 1764.5 | 1762.0 | 1757.8 | 1753.5 | 1749.3 | 1745.0 | 1746.0 |
| 12.5° | 1749.6 | 1748.5 | 1747.4 | 1746.2 | 1745.0 | 1741.6 | 1736.0 | 1730.2 | 1724.5 | 1718.8 | 1719.5 |
| 15° | 1713.6 | 1711.8 | 1710.0 | 1708.2 | 1706.4 | 1702.3 | 1696.0 | 1689.6 | 1683.2 | 1676.9 | 1676.6 |
| 17.5° | 1673.0 | 1670.2 | 1667.5 | 1664.7 | 1661.8 | 1656.5 | 1648.5 | 1640.5 | 1632.4 | 1624.5 | 1623.0 |
| 20° | 1641.4 | 1638.4 | 1635.4 | 1632.3 | 1629.3 | 1623.0 | 1613.3 | 1603.6 | 1593.9 | 1584.2 | 1582.7 |
| 22.5° | 1606.5 | 1603.5 | 1600.4 | 1597.4 | 1594.4 | 1587.8 | 1577.6 | 1567.4 | 1557.2 | 1547.0 | 1544.1 |
| 25° | 1554.2 | 1549.6 | 1545.1 | 1540.5 | 1536.0 | 1528.1 | 1516.9 | 1505.7 | 1494.5 | 1483.3 | 1479.4 |
| 27.5° | 1494.2 | 1488.6 | 1483.1 | 1477.6 | 1472.1 | 1463.4 | 1451.4 | 1439.4 | 1427.3 | 1415.3 | 1409.9 |
| 30° | 1450.6 | 1444.8 | 1439.1 | 1433.3 | 1427.5 | 1418.3 | 1405.5 | 1392.8 | 1380.1 | 1367.4 | 1360.4 |
| 32.5° | 1408.0 | 1401.3 | 1394.5 | 1387.9 | 1381.1 | 1371.3 | 1358.3 | 1345.3 | 1332.3 | 1319.4 | 1311.7 |
| 35° | 1338.8 | 1331.5 | 1324.2 | 1317.0 | 1309.7 | 1299.2 | 1285.6 | 1271.9 | 1258.3 | 1244.7 | 1235.9 |
| 37.5° | 1270.8 | 1262.0 | 1253.1 | 1244.4 | 1235.5 | 1224.1 | 1209.9 | 1195.9 | 1181.8 | 1167.8 | 1157.2 |
| 40° | 1222.8 | 1213.8 | 1204.7 | 1195.6 | 1186.5 | 1174.7 | 1160.1 | 1145.6 | 1131.0 | 1116.5 | 1105.0 |
| 42.5° | 1172.7 | 1163.4 | 1154.1 | 1144.7 | 1135.4 | 1123.2 | 1108.1 | 1093.2 | 1078.1 | 1063.1 | 1052.1 |
| 45° | 1096.1 | 1087.3 | 1078.5 | 1069.8 | 1061.0 | 1048.2 | 1031.6 | 1014.9 | 998.3 | 981.6 | 969.5 |
| 47.5° | 1016.7 | 1007.4 | 998.2 | 989.0 | 979.7 | 966.6 | 949.9 | 933.0 | 916.3 | 899.5 | 887.0 |
| 50° | 966.5 | 956.5 | 946.5 | 936.5 | 926.6 | 912.9 | 895.6 | 878.4 | 861.1 | 843.8 | 831.1 |
| 52.5° | 912.0 | 901.8 | 891.5 | 881.3 | 871.1 | 857.8 | 841.5 | 825.2 | 808.9 | 792.6 | 778.9 |
| 55° | 831.6 | 821.9 | 812.2 | 802.5 | 792.8 | 779.5 | 762.5 | 745.6 | 728.6 | 711.7 | 698.0 |
| 57.5° | 750.3 | 740.0 | 729.6 | 719.2 | 708.9 | 695.6 | 679.2 | 662.9 | 646.5 | 630.2 | 616.8 |
| 60° | 698.0 | 687.4 | 676.8 | 666.2 | 655.6 | 642.1 | 625.7 | 609.4 | 593.0 | 576.6 | 563.3 |
| 62.5° | 642.4 | 632.3 | 622.2 | 612.0 | 601.9 | 588.5 | 572.0 | 555.3 | 538.8 | 522.1 | 509.8 |
| 65° | 563.0 | 552.7 | 542.4 | 532.1 | 521.8 | 508.7 | 492.6 | 476.6 | 460.5 | 444.4 | 432.3 |
| 67.5° | 484.2 | 473.9 | 463.6 | 453.3 | 443.0 | 430.2 | 414.8 | 399.4 | 384.1 | 368.6 | 357.6 |
| 70° | 430.8 | 420.5 | 410.2 | 399.9 | 389.6 | 376.9 | 361.7 | 346.6 | 331.4 | 316.3 | 306.9 |
| 72.5° | 378.5 | 368.4 | 358.3 | 348.3 | 338.2 | 326.1 | 311.9 | 297.7 | 283.6 | 269.4 | 260.7 |
| 75° | 299.9 | 290.8 | 281.8 | 272.7 | 263.6 | 252.7 | 239.9 | 227.2 | 214.5 | 201.8 | 195.1 |
| 77.5° | 222.0 | 214.7 | 207.4 | 200.2 | 192.9 | 184.1 | 174.0 | 163.8 | 153.6 | 143.4 | 138.8 |
| 80° | 177.2 | 170.0 | 162.7 | 155.4 | 148.1 | 140.3 | 131.8 | 123.3 | 114.8 | 106.3 | 103.6 |
| 82.5° | 133.6 | 127.0 | 120.5 | 114.0 | 107.4 | 101.3 | 95.4 | 89.6 | 83.8 | 78.0 | 76.7 |
| 85° | 74.9 | 69.5 | 64.0 | 58.6 | 53.1 | 49.7 | 48.2 | 46.7 | 45.1 | 43.6 | 43.3 |
| 87.5° | 25.2 | 23.6 | 22.1 | 20.7 | 19.2 | 18.5 | 18.4 | 18.4 | 18.2 | 18.2 | 18.3 |
| 90° | 0.6 | 1.1 | 2.3 | 3.4 | 4.6 | 5.8 | 6.4 | 7.5 | 8.1 | 9.2 | 9.8 |
| 92.5° | 7.1 | 8.5 | 13.3 | 20.5 | 30.4 | 47.3 | 78.7 | 131.5 | 188.7 | 185.7 | 150.4 |
| 95° | 19.0 | 19.6 | 24.2 | 30.5 | 43.2 | 69.2 | 130.8 | 257.5 | 416.5 | 510.4 | 499.5 |
| 97.5° | 31.6 | 32.2 | 35.4 | 41.8 | 53.2 | 71.9 | 112.7 | 205.5 | 371.9 | 545.0 | 632.0 |
| 100° | 40.3 | 41.5 | 43.8 | 50.1 | 61.1 | 78.4 | 111.8 | 186.6 | 331.8 | 520.2 | 664.2 |
| 102.5° | 50.0 | 50.7 | 52.5 | 59.4 | 69.4 | 86.1 | 115.9 | 178.8 | 301.3 | 476.4 | 644.8 |
| 105° | 65.1 | 65.1 | 68.0 | 73.7 | 82.9 | 99.1 | 124.4 | 175.7 | 271.9 | 417.7 | 583.0 |
| 107.5° | 79.9 | 81.0 | 83.7 | 88.5 | 98.1 | 112.6 | 137.1 | 181.0 | 259.4 | 377.2 | 519.9 |
| 110° | 90.5 | 91.6 | 93.9 | 99.1 | 107.8 | 122.7 | 146.3 | 186.0 | 255.8 | 358.3 | 483.9 |



TEST NUMBER: P333591-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 101.1 | 102.2 | 104.0 | 109.3 | 117.9 | 132.4 | 155.1 | 192.5 | 255.8 | 347.3 | 457.2 |
| 115° | 116.3 | 117.5 | 119.3 | 124.4 | 133.1 | 147.4 | 168.7 | 202.2 | 257.5 | 335.3 | 428.0 |
| 117.5° | 130.2 | 131.9 | 133.8 | 139.0 | 148.8 | 162.7 | 182.9 | 213.3 | 261.3 | 329.4 | 410.6 |
| 120° | 139.4 | 141.2 | 143.4 | 148.7 | 158.4 | 172.8 | 193.0 | 220.7 | 265.0 | 326.6 | 400.9 |
| 122.5° | 149.1 | 150.4 | 152.2 | 157.3 | 168.1 | 182.5 | 202.7 | 228.9 | 268.2 | 324.4 | 392.6 |
| 125° | 161.3 | 162.5 | 165.3 | 170.5 | 181.5 | 196.4 | 215.4 | 240.2 | 273.7 | 321.4 | 381.3 |
| 127.5° | 170.9 | 172.6 | 176.3 | 182.9 | 194.5 | 209.4 | 227.7 | 250.5 | 279.7 | 320.0 | 371.0 |
| 130° | 176.8 | 178.5 | 183.2 | 190.7 | 202.8 | 217.7 | 235.6 | 257.5 | 283.5 | 319.1 | 364.1 |
| 132.5° | 181.5 | 183.7 | 189.1 | 197.6 | 210.2 | 225.1 | 243.0 | 263.5 | 287.6 | 319.1 | 358.5 |
| 135° | 188.9 | 191.3 | 198.1 | 207.4 | 219.4 | 235.0 | 252.9 | 271.9 | 293.2 | 319.1 | 351.9 |
| 137.5° | 198.4 | 200.2 | 206.6 | 215.8 | 227.6 | 243.7 | 259.9 | 278.1 | 298.4 | 319.8 | 346.1 |
| 140° | 203.9 | 205.6 | 212.6 | 221.8 | 232.8 | 248.3 | 265.0 | 282.3 | 300.7 | 320.3 | 343.4 |
| 142.5° | 210.4 | 211.7 | 218.1 | 227.3 | 237.8 | 252.5 | 268.2 | 284.6 | 302.1 | 320.7 | 341.0 |
| 145° | 220.0 | 221.2 | 226.9 | 235.0 | 245.4 | 258.6 | 273.7 | 288.0 | 303.6 | 320.3 | 337.6 |
| 147.5° | 230.1 | 230.9 | 235.8 | 243.3 | 252.3 | 264.0 | 277.1 | 290.1 | 304.2 | 318.8 | 334.0 |
| 150° | 236.2 | 237.3 | 241.4 | 248.8 | 256.9 | 266.7 | 279.4 | 291.4 | 304.2 | 317.4 | 331.2 |
| 152.5° | 242.7 | 243.3 | 246.9 | 253.5 | 261.1 | 269.9 | 281.7 | 292.4 | 303.7 | 315.6 | 328.0 |
| 155° | 251.2 | 251.2 | 254.6 | 260.3 | 266.1 | 274.2 | 284.0 | 293.2 | 302.5 | 312.3 | 322.6 |
| 157.5° | 258.7 | 258.6 | 261.5 | 266.4 | 271.5 | 277.5 | 286.0 | 293.8 | 300.9 | 308.7 | 317.5 |
| 160° | 263.9 | 263.3 | 265.6 | 269.6 | 274.2 | 279.4 | 286.9 | 293.8 | 299.5 | 306.5 | 313.4 |
| 162.5° | 268.0 | 267.4 | 269.7 | 273.3 | 277.0 | 281.2 | 287.8 | 293.4 | 298.2 | 303.7 | 309.7 |
| 165° | 274.2 | 273.1 | 274.8 | 277.6 | 279.9 | 283.5 | 288.0 | 292.7 | 296.1 | 299.5 | 304.2 |
| 167.5° | 278.3 | 277.8 | 278.8 | 280.4 | 282.1 | 284.2 | 288.0 | 291.2 | 292.9 | 295.5 | 298.7 |
| 170° | 281.1 | 280.5 | 281.1 | 282.3 | 283.5 | 285.2 | 288.0 | 290.3 | 291.4 | 293.2 | 295.5 |
| 172.5° | 283.0 | 282.0 | 282.5 | 283.7 | 284.4 | 285.2 | 287.6 | 289.4 | 289.6 | 290.4 | 292.3 |
| 175° | 285.2 | 284.0 | 284.6 | 285.2 | 285.2 | 285.2 | 286.9 | 288.0 | 287.4 | 287.4 | 288.0 |
| 177.5° | 286.2 | 285.3 | 285.3 | 285.7 | 285.3 | 285.3 | 286.2 | 286.6 | 285.7 | 285.7 | 286.2 |
| 180° | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 |



TEST NUMBER: P333591-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 | 1805.0 |
| 2.5° | 1799.0 | 1801.4 | 1803.8 | 1804.8 | 1804.6 | 1804.4 | 1804.1 | 1803.9 |
| 5° | 1787.9 | 1790.9 | 1793.9 | 1795.1 | 1794.5 | 1793.9 | 1793.3 | 1792.7 |
| 7.5° | 1765.6 | 1767.8 | 1769.9 | 1770.6 | 1769.9 | 1769.3 | 1768.6 | 1767.9 |
| 10° | 1746.9 | 1747.8 | 1748.7 | 1748.7 | 1747.8 | 1746.9 | 1746.0 | 1745.0 |
| 12.5° | 1720.2 | 1720.8 | 1721.5 | 1721.1 | 1719.7 | 1718.4 | 1717.0 | 1715.6 |
| 15° | 1676.3 | 1676.0 | 1675.7 | 1674.2 | 1671.4 | 1668.7 | 1666.0 | 1663.2 |
| 17.5° | 1621.4 | 1619.9 | 1618.4 | 1616.6 | 1614.3 | 1612.0 | 1609.8 | 1607.6 |
| 20° | 1581.1 | 1579.6 | 1578.1 | 1576.0 | 1573.3 | 1570.5 | 1567.8 | 1565.1 |
| 22.5° | 1541.2 | 1538.1 | 1535.2 | 1532.6 | 1530.3 | 1528.1 | 1525.8 | 1523.6 |
| 25° | 1475.4 | 1471.5 | 1467.5 | 1463.9 | 1460.6 | 1457.2 | 1453.9 | 1450.6 |
| 27.5° | 1404.3 | 1398.9 | 1393.3 | 1389.0 | 1385.7 | 1382.5 | 1379.3 | 1376.1 |
| 30° | 1353.4 | 1346.5 | 1339.5 | 1334.6 | 1331.9 | 1329.2 | 1326.5 | 1323.7 |
| 32.5° | 1304.0 | 1296.3 | 1288.6 | 1283.0 | 1279.6 | 1276.2 | 1272.6 | 1269.2 |
| 35° | 1227.1 | 1218.3 | 1209.5 | 1203.1 | 1198.8 | 1194.6 | 1190.3 | 1186.1 |
| 37.5° | 1146.7 | 1136.2 | 1125.6 | 1118.3 | 1114.2 | 1110.0 | 1105.9 | 1101.8 |
| 40° | 1093.5 | 1082.0 | 1070.5 | 1062.9 | 1059.2 | 1055.6 | 1052.0 | 1048.3 |
| 42.5° | 1041.1 | 1030.0 | 1019.0 | 1010.8 | 1005.4 | 1000.2 | 994.8 | 989.5 |
| 45° | 957.4 | 945.2 | 933.1 | 924.7 | 920.2 | 915.6 | 911.1 | 906.6 |
| 47.5° | 874.5 | 862.0 | 849.6 | 840.8 | 835.8 | 830.7 | 825.8 | 820.7 |
| 50° | 818.4 | 805.7 | 792.9 | 784.4 | 779.8 | 775.3 | 770.7 | 766.2 |
| 52.5° | 765.3 | 751.5 | 737.8 | 728.7 | 724.2 | 719.6 | 715.1 | 710.5 |
| 55° | 684.4 | 670.8 | 657.1 | 647.8 | 643.0 | 638.1 | 633.3 | 628.4 |
| 57.5° | 603.5 | 590.2 | 576.8 | 567.9 | 563.7 | 559.4 | 555.0 | 550.8 |
| 60° | 550.0 | 536.6 | 523.3 | 514.4 | 509.9 | 505.3 | 500.8 | 496.2 |
| 62.5° | 497.5 | 485.0 | 472.7 | 464.2 | 459.7 | 455.1 | 450.6 | 446.1 |
| 65° | 420.2 | 408.1 | 396.0 | 387.6 | 383.0 | 378.5 | 374.0 | 369.4 |
| 67.5° | 346.5 | 335.4 | 324.3 | 316.9 | 313.3 | 309.6 | 306.0 | 302.4 |
| 70° | 297.5 | 288.1 | 278.7 | 272.2 | 268.5 | 264.9 | 261.3 | 257.6 |
| 72.5° | 252.1 | 243.4 | 234.7 | 229.1 | 226.7 | 224.3 | 221.9 | 219.4 |
| 75° | 188.4 | 181.8 | 175.1 | 170.7 | 168.5 | 166.4 | 164.3 | 162.2 |
| 77.5° | 134.1 | 129.5 | 124.7 | 121.6 | 120.1 | 118.5 | 116.9 | 115.3 |
| 80° | 100.9 | 98.2 | 95.4 | 93.7 | 93.1 | 92.5 | 91.9 | 91.3 |
| 82.5° | 75.4 | 74.1 | 72.9 | 72.1 | 71.7 | 71.3 | 71.0 | 70.6 |
| 85° | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.2 | 40.9 |
| 87.5° | 18.5 | 18.6 | 18.7 | 18.8 | 18.5 | 18.3 | 18.2 | 17.9 |
| 90° | 10.4 | 10.9 | 11.5 | 12.6 | 12.6 | 12.6 | 13.2 | 13.2 |
| 92.5° | 102.1 | 74.1 | 55.7 | 47.3 | 39.9 | 38.5 | 37.7 | 36.8 |
| 95° | 414.1 | 326.6 | 255.8 | 207.4 | 166.5 | 149.2 | 144.6 | 135.4 |
| 97.5° | 616.8 | 555.4 | 486.5 | 419.1 | 383.5 | 351.2 | 334.6 | 327.2 |
| 100° | 708.5 | 680.3 | 621.0 | 561.1 | 521.3 | 479.9 | 458.6 | 449.3 |
| 102.5° | 739.4 | 756.8 | 728.3 | 687.8 | 645.3 | 615.8 | 592.7 | 585.7 |
| 105° | 721.2 | 800.1 | 825.5 | 819.1 | 800.7 | 781.7 | 770.2 | 763.3 |
| 107.5° | 656.2 | 761.5 | 826.7 | 856.7 | 866.1 | 866.0 | 862.1 | 857.5 |
| 110° | 608.3 | 717.8 | 799.0 | 848.0 | 873.8 | 884.8 | 888.9 | 888.9 |



TEST NUMBER: P333591-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 570.6 | 674.5 | 756.6 | 814.4 | 852.2 | 871.0 | 881.0 | 885.1 |
| 115° | 523.0 | 612.4 | 691.3 | 754.1 | 799.0 | 826.7 | 842.7 | 850.3 |
| 117.5° | 492.4 | 569.4 | 637.3 | 695.0 | 739.9 | 768.5 | 784.5 | 789.1 |
| 120° | 475.8 | 544.9 | 608.3 | 659.0 | 701.7 | 729.3 | 744.9 | 749.4 |
| 122.5° | 463.4 | 527.5 | 583.9 | 631.4 | 669.3 | 694.7 | 710.2 | 714.4 |
| 125° | 445.2 | 504.0 | 554.2 | 595.6 | 627.9 | 651.6 | 664.2 | 669.9 |
| 127.5° | 426.9 | 481.7 | 528.5 | 567.3 | 596.5 | 617.4 | 629.3 | 632.0 |
| 130° | 415.4 | 466.1 | 511.0 | 548.4 | 577.2 | 596.2 | 607.7 | 611.2 |
| 132.5° | 403.8 | 451.3 | 492.1 | 528.2 | 556.9 | 575.9 | 586.5 | 590.5 |
| 135° | 388.8 | 428.6 | 465.4 | 498.3 | 523.6 | 542.6 | 553.0 | 556.4 |
| 137.5° | 376.2 | 408.3 | 439.0 | 466.9 | 489.5 | 506.9 | 516.3 | 520.2 |
| 140° | 369.2 | 396.4 | 422.8 | 447.1 | 468.4 | 483.3 | 491.9 | 494.8 |
| 142.5° | 363.2 | 386.2 | 409.0 | 430.0 | 448.1 | 460.7 | 468.9 | 471.3 |
| 145° | 355.5 | 373.2 | 391.1 | 406.7 | 420.5 | 430.3 | 436.7 | 439.0 |
| 147.5° | 348.1 | 362.5 | 376.3 | 388.0 | 399.0 | 406.8 | 410.5 | 411.5 |
| 150° | 343.9 | 356.6 | 367.5 | 377.9 | 386.6 | 393.4 | 395.8 | 396.4 |
| 152.5° | 339.3 | 350.6 | 360.6 | 368.7 | 376.0 | 381.4 | 383.7 | 384.4 |
| 155° | 332.3 | 341.6 | 349.6 | 356.0 | 361.7 | 365.8 | 367.5 | 368.1 |
| 157.5° | 325.5 | 333.1 | 339.3 | 344.3 | 348.7 | 352.0 | 353.7 | 353.6 |
| 160° | 320.8 | 326.6 | 332.3 | 336.4 | 340.4 | 343.4 | 344.5 | 343.9 |
| 162.5° | 315.8 | 321.1 | 325.9 | 329.5 | 332.6 | 335.1 | 335.3 | 335.2 |
| 165° | 308.7 | 312.8 | 316.3 | 319.1 | 321.4 | 322.6 | 322.6 | 322.6 |
| 167.5° | 302.1 | 304.8 | 307.4 | 309.4 | 310.6 | 311.6 | 311.1 | 311.0 |
| 170° | 298.4 | 300.1 | 301.8 | 303.0 | 304.2 | 304.8 | 304.8 | 304.2 |
| 172.5° | 294.3 | 296.0 | 297.2 | 297.9 | 298.2 | 299.2 | 298.3 | 297.7 |
| 175° | 289.7 | 289.7 | 290.9 | 290.9 | 290.9 | 291.4 | 290.3 | 289.7 |
| 177.5° | 286.6 | 287.1 | 287.1 | 287.1 | 286.6 | 287.1 | 285.7 | 285.7 |
| 180° | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 | 285.7 |

(END OF REPORT)