

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: P332335

Luminaire Tested: **S123RDIP-S1000D365U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332335
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D365U835-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5105.9 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Direct

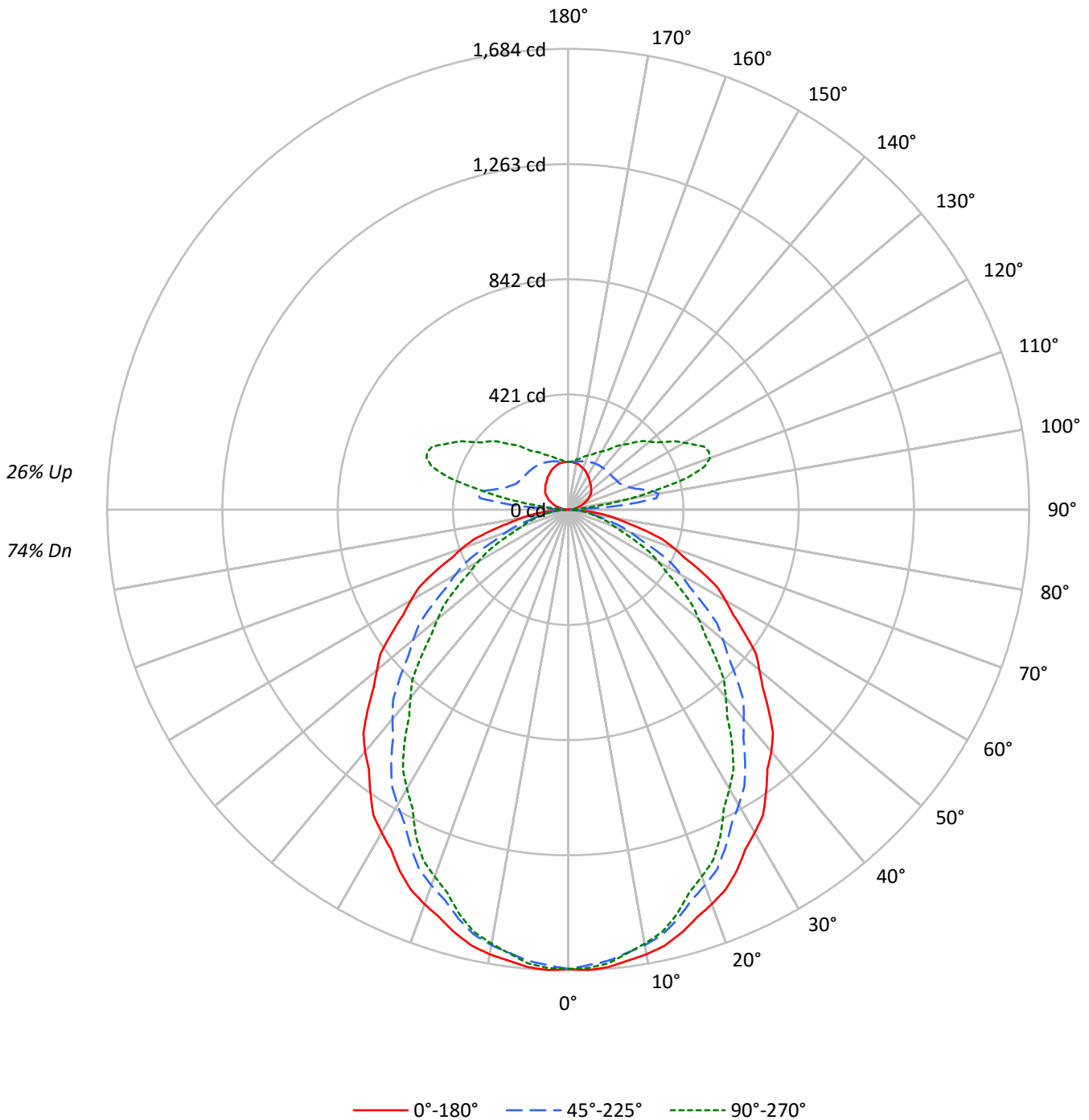
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332335

CATALOG NUMBER: S123RDIP-S1000D365U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332335

CATALOG NUMBER: S123RDIP-S1000D365U835-4F0-1E-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 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 97 | 97 | 97 | 87 | 87 | 87 | 78 | 78 | 78 | 74 |
| 1 | 104 | 99 | 96 | 92 | 98 | 95 | 91 | 88 | 86 | 83 | 81 | 78 | 76 | 74 | 70 | 69 | 67 | 64 |
| 2 | 95 | 87 | 81 | 76 | 90 | 83 | 78 | 73 | 76 | 71 | 68 | 69 | 65 | 62 | 62 | 60 | 57 | 54 |
| 3 | 87 | 77 | 70 | 64 | 82 | 74 | 67 | 62 | 67 | 62 | 58 | 61 | 57 | 53 | 56 | 52 | 49 | 46 |
| 4 | 80 | 69 | 61 | 55 | 76 | 66 | 59 | 53 | 60 | 54 | 50 | 55 | 50 | 46 | 50 | 46 | 43 | 40 |
| 5 | 74 | 62 | 53 | 47 | 70 | 59 | 52 | 46 | 54 | 48 | 43 | 50 | 44 | 40 | 45 | 41 | 38 | 35 |
| 6 | 68 | 56 | 47 | 41 | 64 | 53 | 46 | 40 | 49 | 43 | 38 | 45 | 40 | 36 | 41 | 37 | 33 | 31 |
| 7 | 63 | 51 | 42 | 37 | 60 | 49 | 41 | 36 | 45 | 38 | 34 | 41 | 36 | 32 | 38 | 33 | 30 | 28 |
| 8 | 59 | 46 | 38 | 33 | 56 | 44 | 37 | 32 | 41 | 35 | 30 | 38 | 32 | 29 | 35 | 30 | 27 | 25 |
| 9 | 55 | 42 | 35 | 30 | 52 | 41 | 34 | 29 | 38 | 32 | 27 | 35 | 30 | 26 | 32 | 28 | 24 | 23 |
| 10 | 51 | 39 | 32 | 27 | 49 | 38 | 31 | 26 | 35 | 29 | 25 | 32 | 27 | 24 | 30 | 26 | 22 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18064 | 18064 | 18064 |
| 5° | 18133 | 17882 | 17986 |
| 10° | 18030 | 17658 | 17598 |
| 15° | 17836 | 17245 | 17063 |
| 20° | 17570 | 16728 | 16339 |
| 25° | 17296 | 16149 | 15631 |
| 30° | 16933 | 15479 | 14633 |
| 35° | 16561 | 14808 | 13717 |
| 40° | 16218 | 14018 | 12584 |
| 45° | 15767 | 13239 | 11561 |
| 50° | 15270 | 12353 | 10416 |
| 55° | 14763 | 11340 | 9348 |
| 60° | 14299 | 10256 | 8174 |
| 65° | 13692 | 9082 | 7002 |
| 70° | 12935 | 7626 | 5655 |
| 75° | 11832 | 6001 | 5319 |
| 80° | 10544 | 5312 | 4891 |
| 85° | 8904 | 4705 | 4372 |



TEST NUMBER: P332335

CATALOG NUMBER: S123RDIP-S1000D365U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 157.6 | 3.1 |
| 10°-20° | 438.5 | 8.6 |
| 20°-30° | 631.4 | 12.4 |
| 30°-40° | 711.2 | 13.9 |
| 40°-50° | 680.4 | 13.3 |
| 50°-60° | 557.2 | 10.9 |
| 60°-70° | 375.9 | 7.4 |
| 70°-80° | 189.1 | 3.7 |
| 80°-90° | 51.4 | 1.0 |
| 90°-100° | 97.2 | 1.9 |
| 100°-110° | 275.1 | 5.4 |
| 110°-120° | 270.6 | 5.3 |
| 120°-130° | 215.9 | 4.2 |
| 130°-140° | 170.2 | 3.3 |
| 140°-150° | 127.0 | 2.5 |
| 150°-160° | 88.5 | 1.7 |
| 160°-170° | 52.0 | 1.0 |
| 170°-180° | 16.9 | 0.3 |
| 0°-30° | 1227.4 | 24.0 |
| 0°-40° | 1938.6 | 38.0 |
| 0°-60° | 3176.1 | 62.2 |
| 0°-90° | 3792.5 | 74.3 |
| 90°-120° | 642.9 | 12.6 |
| 90°-150° | 1155.9 | 22.6 |
| 90°-180° | 1313.0 | 25.7 |
| 0°-180° | 5105.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1678 | 1678 | 1678 | 1678 | 1678 | |
| 5° | 1678 | 1671 | 1655 | 1666 | 1665 | 159 |
| 15° | 1601 | 1584 | 1548 | 1541 | 1531 | 451 |
| 25° | 1456 | 1421 | 1360 | 1332 | 1316 | 669 |
| 35° | 1260 | 1209 | 1127 | 1070 | 1044 | 788 |
| 45° | 1036 | 972 | 870 | 795 | 760 | 799 |
| 55° | 787 | 717 | 604 | 528 | 498 | 705 |
| 65° | 538 | 461 | 357 | 293 | 275 | 532 |
| 75° | 284 | 219 | 144 | 131 | 128 | 303 |
| 85° | 72 | 44 | 38 | 36 | 35 | 81 |
| 90° | 1 | 4 | 9 | 10 | 10 | 4 |
| 95° | 12 | 39 | 210 | 61 | 41 | 13 |
| 105° | 41 | 61 | 284 | 497 | 450 | 44 |
| 115° | 72 | 90 | 217 | 477 | 547 | 72 |
| 125° | 101 | 119 | 203 | 368 | 431 | 89 |
| 135° | 118 | 141 | 200 | 303 | 350 | 91 |
| 145° | 135 | 154 | 198 | 248 | 273 | 84 |
| 155° | 153 | 165 | 191 | 217 | 226 | 70 |
| 165° | 167 | 172 | 183 | 194 | 198 | 47 |
| 175° | 174 | 174 | 176 | 178 | 178 | 17 |
| 180° | 175 | 175 | 175 | 175 | 175 | |



TEST NUMBER: P332335

CATALOG NUMBER: S123RDIP-S1000D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 |
| 2.5° | 1683.6 | 1682.6 | 1681.7 | 1680.7 | 1679.7 | 1677.8 | 1674.9 | 1672.0 | 1669.1 | 1666.2 | 1668.8 |
| 5° | 1678.2 | 1676.6 | 1675.1 | 1673.6 | 1672.1 | 1669.5 | 1665.9 | 1662.3 | 1658.7 | 1655.0 | 1657.7 |
| 7.5° | 1662.6 | 1661.0 | 1659.4 | 1657.7 | 1656.1 | 1652.9 | 1648.2 | 1643.5 | 1638.8 | 1634.1 | 1635.6 |
| 10° | 1649.6 | 1647.5 | 1645.3 | 1643.2 | 1641.1 | 1637.3 | 1631.9 | 1626.4 | 1621.0 | 1615.6 | 1615.9 |
| 12.5° | 1631.1 | 1628.7 | 1626.4 | 1624.0 | 1621.6 | 1617.1 | 1610.5 | 1603.8 | 1597.2 | 1590.5 | 1590.3 |
| 15° | 1600.6 | 1597.3 | 1593.9 | 1590.6 | 1587.3 | 1581.4 | 1572.9 | 1564.4 | 1556.0 | 1547.5 | 1546.0 |
| 17.5° | 1562.2 | 1558.3 | 1554.5 | 1550.6 | 1546.7 | 1539.4 | 1528.6 | 1517.9 | 1507.1 | 1496.3 | 1493.1 |
| 20° | 1533.9 | 1529.1 | 1524.2 | 1519.4 | 1514.5 | 1506.4 | 1494.9 | 1483.4 | 1471.9 | 1460.4 | 1456.5 |
| 22.5° | 1502.3 | 1496.8 | 1491.2 | 1485.6 | 1480.1 | 1471.2 | 1458.9 | 1446.7 | 1434.5 | 1422.3 | 1417.4 |
| 25° | 1456.3 | 1448.8 | 1441.2 | 1433.6 | 1426.1 | 1415.3 | 1401.4 | 1387.5 | 1373.6 | 1359.7 | 1353.3 |
| 27.5° | 1400.5 | 1392.2 | 1383.8 | 1375.5 | 1367.1 | 1355.2 | 1339.7 | 1324.2 | 1308.7 | 1293.3 | 1284.4 |
| 30° | 1362.4 | 1353.3 | 1344.3 | 1335.2 | 1326.1 | 1313.1 | 1296.2 | 1279.2 | 1262.3 | 1245.4 | 1235.1 |
| 32.5° | 1324.3 | 1314.0 | 1303.7 | 1293.4 | 1283.2 | 1269.1 | 1251.2 | 1233.3 | 1215.3 | 1197.4 | 1186.2 |
| 35° | 1260.3 | 1249.4 | 1238.5 | 1227.7 | 1216.8 | 1201.9 | 1183.2 | 1164.4 | 1145.7 | 1126.9 | 1113.9 |
| 37.5° | 1195.5 | 1183.4 | 1171.3 | 1159.2 | 1147.1 | 1131.1 | 1111.1 | 1091.0 | 1071.0 | 1051.0 | 1036.2 |
| 40° | 1154.2 | 1140.9 | 1127.5 | 1114.2 | 1100.9 | 1083.5 | 1062.1 | 1040.6 | 1019.1 | 997.6 | 981.9 |
| 42.5° | 1107.3 | 1094.0 | 1080.7 | 1067.4 | 1054.1 | 1036.4 | 1014.2 | 992.0 | 969.8 | 947.6 | 930.4 |
| 45° | 1035.8 | 1022.1 | 1008.5 | 994.9 | 981.3 | 962.9 | 939.6 | 916.3 | 893.0 | 869.7 | 852.5 |
| 47.5° | 964.2 | 949.2 | 934.3 | 919.3 | 904.4 | 885.3 | 862.0 | 838.7 | 815.4 | 792.1 | 773.4 |
| 50° | 911.9 | 897.7 | 883.5 | 869.3 | 855.0 | 835.7 | 811.2 | 786.7 | 762.2 | 737.7 | 718.9 |
| 52.5° | 865.1 | 849.7 | 834.2 | 818.8 | 803.4 | 783.5 | 759.3 | 735.0 | 710.8 | 686.5 | 667.0 |
| 55° | 786.7 | 771.9 | 757.0 | 742.2 | 727.4 | 707.1 | 681.4 | 655.7 | 630.0 | 604.3 | 586.8 |
| 57.5° | 714.3 | 698.1 | 682.0 | 665.8 | 649.7 | 628.7 | 602.8 | 577.0 | 551.2 | 525.4 | 508.8 |
| 60° | 664.2 | 647.6 | 630.9 | 614.3 | 597.6 | 576.8 | 551.7 | 526.6 | 501.5 | 476.4 | 460.0 |
| 62.5° | 614.1 | 597.5 | 580.8 | 564.2 | 547.6 | 526.7 | 501.6 | 476.5 | 451.4 | 426.3 | 410.9 |
| 65° | 537.6 | 521.0 | 504.3 | 487.7 | 471.1 | 451.0 | 427.4 | 403.8 | 380.2 | 356.6 | 341.8 |
| 67.5° | 461.1 | 444.3 | 427.5 | 410.7 | 393.9 | 374.1 | 351.5 | 328.9 | 306.3 | 283.6 | 272.6 |
| 70° | 411.0 | 394.7 | 378.4 | 362.0 | 345.7 | 327.0 | 305.8 | 284.6 | 263.4 | 242.3 | 231.7 |
| 72.5° | 360.9 | 344.9 | 328.8 | 312.7 | 296.6 | 278.9 | 259.7 | 240.5 | 221.2 | 202.0 | 193.3 |
| 75° | 284.5 | 269.9 | 255.4 | 240.9 | 226.4 | 210.8 | 194.2 | 177.5 | 160.9 | 144.3 | 141.2 |
| 77.5° | 214.8 | 201.6 | 188.5 | 175.4 | 162.3 | 150.3 | 139.6 | 128.9 | 118.2 | 107.5 | 105.9 |
| 80° | 170.1 | 157.7 | 145.3 | 132.9 | 120.5 | 111.2 | 104.8 | 98.4 | 92.1 | 85.7 | 84.8 |
| 82.5° | 127.7 | 117.0 | 106.3 | 95.5 | 84.8 | 78.0 | 75.0 | 72.1 | 69.1 | 66.1 | 65.2 |
| 85° | 72.1 | 65.5 | 58.8 | 52.2 | 45.5 | 41.7 | 40.8 | 39.9 | 39.0 | 38.1 | 37.5 |
| 87.5° | 26.3 | 23.8 | 21.2 | 18.8 | 16.3 | 15.1 | 15.3 | 15.5 | 15.7 | 15.9 | 15.6 |
| 90° | 0.7 | 1.4 | 2.1 | 3.2 | 3.9 | 4.6 | 5.7 | 6.7 | 7.8 | 8.8 | 8.5 |
| 92.5° | 4.4 | 6.5 | 9.5 | 12.2 | 15.2 | 20.4 | 29.7 | 44.9 | 59.8 | 54.3 | 41.0 |
| 95° | 12.0 | 13.1 | 17.0 | 23.0 | 32.2 | 45.9 | 76.0 | 128.6 | 186.6 | 209.6 | 170.0 |
| 97.5° | 20.5 | 20.8 | 23.9 | 29.1 | 38.2 | 53.1 | 81.8 | 141.1 | 237.8 | 324.8 | 347.4 |
| 100° | 26.2 | 26.5 | 29.0 | 33.9 | 42.4 | 56.2 | 80.9 | 133.2 | 226.2 | 334.7 | 404.3 |
| 102.5° | 32.1 | 32.7 | 34.9 | 39.6 | 47.2 | 59.9 | 82.1 | 126.4 | 209.2 | 316.3 | 407.1 |
| 105° | 41.0 | 42.1 | 44.2 | 48.4 | 55.1 | 66.1 | 85.2 | 121.6 | 188.4 | 284.1 | 385.5 |
| 107.5° | 50.5 | 51.5 | 53.6 | 57.7 | 64.0 | 74.2 | 91.0 | 121.2 | 175.1 | 255.7 | 347.8 |
| 110° | 57.2 | 58.3 | 60.1 | 64.0 | 70.0 | 79.9 | 95.8 | 122.6 | 170.0 | 239.6 | 324.1 |



TEST NUMBER: P332335

CATALOG NUMBER: S123RDIP-S1000D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 63.5 | 64.5 | 66.3 | 70.2 | 76.2 | 85.8 | 100.6 | 125.5 | 167.1 | 228.8 | 303.4 |
| 115° | 72.4 | 73.9 | 76.0 | 79.5 | 85.5 | 95.1 | 108.5 | 130.0 | 166.1 | 217.3 | 278.5 |
| 117.5° | 81.4 | 83.0 | 84.8 | 88.1 | 94.8 | 103.6 | 116.9 | 136.1 | 166.7 | 210.5 | 263.4 |
| 120° | 87.6 | 88.7 | 90.5 | 94.0 | 100.7 | 109.5 | 122.3 | 140.6 | 167.9 | 207.4 | 255.5 |
| 122.5° | 93.0 | 94.1 | 95.8 | 99.7 | 106.1 | 115.5 | 127.9 | 144.9 | 169.8 | 205.5 | 249.0 |
| 125° | 100.7 | 101.4 | 103.5 | 107.4 | 114.1 | 123.7 | 136.1 | 151.6 | 172.8 | 202.8 | 240.7 |
| 127.5° | 106.6 | 107.6 | 110.3 | 114.2 | 121.6 | 131.2 | 143.1 | 157.1 | 176.2 | 201.6 | 233.3 |
| 130° | 110.3 | 111.3 | 114.5 | 118.7 | 126.2 | 135.7 | 147.4 | 160.8 | 178.5 | 200.7 | 229.3 |
| 132.5° | 113.1 | 114.4 | 117.9 | 123.0 | 130.4 | 139.7 | 151.0 | 164.2 | 180.2 | 200.4 | 225.7 |
| 135° | 118.0 | 119.4 | 123.3 | 128.6 | 136.1 | 145.6 | 156.5 | 168.6 | 182.7 | 200.0 | 220.9 |
| 137.5° | 122.7 | 124.2 | 128.0 | 133.6 | 141.0 | 149.8 | 160.4 | 171.8 | 184.4 | 199.2 | 216.7 |
| 140° | 125.8 | 127.6 | 131.1 | 136.8 | 143.8 | 152.7 | 162.9 | 173.5 | 185.5 | 199.0 | 214.1 |
| 142.5° | 129.2 | 130.7 | 134.5 | 139.6 | 146.7 | 154.9 | 164.9 | 175.2 | 186.4 | 198.4 | 211.9 |
| 145° | 134.6 | 135.7 | 138.9 | 144.2 | 150.2 | 158.3 | 167.5 | 177.0 | 186.9 | 197.5 | 208.8 |
| 147.5° | 140.2 | 140.8 | 143.9 | 148.5 | 154.3 | 161.2 | 169.6 | 178.2 | 186.9 | 196.2 | 205.9 |
| 150° | 143.8 | 144.2 | 147.0 | 151.6 | 156.5 | 162.9 | 171.0 | 178.5 | 186.9 | 195.1 | 203.9 |
| 152.5° | 147.5 | 147.6 | 150.4 | 154.4 | 158.8 | 164.9 | 171.9 | 179.0 | 186.1 | 193.7 | 201.6 |
| 155° | 153.0 | 153.0 | 155.1 | 158.7 | 162.6 | 167.5 | 173.5 | 179.2 | 185.2 | 191.2 | 198.2 |
| 157.5° | 157.4 | 157.7 | 159.4 | 162.5 | 165.8 | 169.6 | 174.4 | 179.5 | 184.0 | 189.0 | 194.4 |
| 160° | 160.8 | 160.8 | 162.2 | 165.0 | 167.5 | 171.0 | 175.3 | 179.5 | 183.4 | 187.3 | 191.9 |
| 162.5° | 163.3 | 163.3 | 164.5 | 166.7 | 168.9 | 171.9 | 175.6 | 179.2 | 182.3 | 185.6 | 189.3 |
| 165° | 167.1 | 166.8 | 167.5 | 169.3 | 170.7 | 173.2 | 176.0 | 178.5 | 180.6 | 183.1 | 185.9 |
| 167.5° | 170.0 | 169.6 | 170.0 | 171.3 | 172.3 | 173.9 | 175.9 | 177.9 | 178.9 | 180.5 | 182.6 |
| 170° | 171.7 | 171.0 | 171.4 | 172.4 | 173.2 | 173.9 | 175.6 | 177.0 | 177.8 | 178.8 | 180.6 |
| 172.5° | 172.9 | 172.4 | 172.5 | 173.3 | 173.7 | 174.1 | 175.6 | 176.8 | 176.9 | 177.4 | 178.6 |
| 175° | 174.2 | 173.9 | 173.5 | 174.2 | 174.2 | 174.6 | 175.3 | 176.0 | 175.6 | 175.6 | 176.3 |
| 177.5° | 174.9 | 174.6 | 174.3 | 174.6 | 174.6 | 174.6 | 174.9 | 175.4 | 174.9 | 174.6 | 174.9 |
| 180° | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 |



TEST NUMBER: P332335

CATALOG NUMBER: S123RDIP-S1000D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 | 1678.2 |
| 2.5° | 1671.5 | 1674.2 | 1676.8 | 1677.9 | 1677.4 | 1677.0 | 1676.5 | 1676.0 |
| 5° | 1660.5 | 1663.2 | 1665.9 | 1667.0 | 1666.4 | 1665.8 | 1665.2 | 1664.6 |
| 7.5° | 1637.1 | 1638.6 | 1640.1 | 1640.4 | 1639.3 | 1638.3 | 1637.3 | 1636.2 |
| 10° | 1616.2 | 1616.5 | 1616.8 | 1616.2 | 1614.6 | 1613.1 | 1611.6 | 1610.1 |
| 12.5° | 1590.1 | 1590.0 | 1589.8 | 1588.8 | 1587.1 | 1585.3 | 1583.6 | 1581.8 |
| 15° | 1544.5 | 1543.0 | 1541.5 | 1539.6 | 1537.5 | 1535.4 | 1533.3 | 1531.2 |
| 17.5° | 1489.9 | 1486.7 | 1483.5 | 1480.3 | 1477.2 | 1474.0 | 1470.9 | 1467.7 |
| 20° | 1452.5 | 1448.6 | 1444.7 | 1440.9 | 1437.3 | 1433.6 | 1430.0 | 1426.4 |
| 22.5° | 1412.5 | 1407.6 | 1402.7 | 1398.5 | 1395.2 | 1391.8 | 1388.4 | 1385.0 |
| 25° | 1347.0 | 1340.6 | 1334.3 | 1329.4 | 1326.1 | 1322.8 | 1319.5 | 1316.1 |
| 27.5° | 1275.6 | 1266.8 | 1257.9 | 1251.0 | 1245.9 | 1240.8 | 1235.7 | 1230.7 |
| 30° | 1224.8 | 1214.5 | 1204.2 | 1196.7 | 1191.8 | 1187.0 | 1182.1 | 1177.3 |
| 32.5° | 1174.9 | 1163.7 | 1152.4 | 1144.3 | 1139.2 | 1134.1 | 1129.0 | 1123.9 |
| 35° | 1100.9 | 1087.9 | 1074.9 | 1065.7 | 1060.3 | 1054.8 | 1049.4 | 1043.9 |
| 37.5° | 1021.5 | 1006.7 | 992.0 | 981.2 | 974.5 | 967.8 | 961.1 | 954.4 |
| 40° | 966.2 | 950.5 | 934.7 | 923.4 | 916.4 | 909.5 | 902.5 | 895.6 |
| 42.5° | 913.2 | 896.0 | 878.8 | 867.1 | 860.9 | 854.7 | 848.4 | 842.2 |
| 45° | 835.2 | 818.0 | 800.7 | 788.5 | 781.2 | 774.0 | 766.7 | 759.5 |
| 47.5° | 754.6 | 735.9 | 717.1 | 704.5 | 698.0 | 691.6 | 685.1 | 678.6 |
| 50° | 700.2 | 681.4 | 662.7 | 649.8 | 642.9 | 635.9 | 629.0 | 622.0 |
| 52.5° | 647.6 | 628.1 | 608.6 | 595.7 | 589.5 | 583.3 | 577.1 | 570.8 |
| 55° | 569.2 | 551.7 | 534.1 | 522.3 | 516.3 | 510.2 | 504.2 | 498.1 |
| 57.5° | 492.2 | 475.6 | 459.1 | 448.2 | 443.1 | 437.9 | 432.8 | 427.6 |
| 60° | 443.7 | 427.4 | 411.0 | 400.3 | 395.2 | 390.0 | 384.9 | 379.7 |
| 62.5° | 395.5 | 380.2 | 364.8 | 354.4 | 349.1 | 343.7 | 338.3 | 332.9 |
| 65° | 327.0 | 312.1 | 297.3 | 288.2 | 284.9 | 281.6 | 278.3 | 274.9 |
| 67.5° | 261.5 | 250.4 | 239.4 | 232.0 | 228.5 | 224.9 | 221.3 | 217.8 |
| 70° | 221.1 | 210.5 | 199.9 | 193.0 | 189.6 | 186.3 | 183.0 | 179.7 |
| 72.5° | 184.7 | 176.0 | 167.4 | 162.4 | 161.0 | 159.6 | 158.2 | 156.8 |
| 75° | 138.2 | 135.2 | 132.2 | 130.4 | 129.8 | 129.1 | 128.5 | 127.9 |
| 77.5° | 104.3 | 102.6 | 101.0 | 99.9 | 99.3 | 98.7 | 98.1 | 97.5 |
| 80° | 83.9 | 83.0 | 82.1 | 81.4 | 80.8 | 80.2 | 79.5 | 78.9 |
| 82.5° | 64.3 | 63.4 | 62.5 | 62.0 | 61.9 | 61.8 | 61.6 | 61.5 |
| 85° | 36.9 | 36.3 | 35.7 | 35.4 | 35.4 | 35.4 | 35.4 | 35.4 |
| 87.5° | 15.4 | 15.3 | 15.1 | 15.0 | 14.7 | 14.5 | 14.3 | 14.0 |
| 90° | 8.8 | 9.2 | 9.5 | 10.2 | 9.9 | 10.2 | 10.6 | 10.2 |
| 92.5° | 29.8 | 23.6 | 20.8 | 19.0 | 18.4 | 17.3 | 17.7 | 17.0 |
| 95° | 127.2 | 86.2 | 67.5 | 54.8 | 48.1 | 44.9 | 42.4 | 41.0 |
| 97.5° | 317.1 | 254.0 | 208.4 | 166.2 | 140.1 | 124.2 | 114.6 | 111.6 |
| 100° | 416.6 | 388.0 | 346.7 | 296.5 | 260.8 | 235.0 | 221.2 | 221.6 |
| 102.5° | 449.7 | 448.8 | 424.7 | 392.9 | 365.1 | 344.7 | 333.2 | 325.0 |
| 105° | 459.4 | 494.7 | 501.4 | 492.3 | 476.0 | 462.6 | 451.3 | 449.5 |
| 107.5° | 431.5 | 488.9 | 519.9 | 532.5 | 532.8 | 528.2 | 524.4 | 521.2 |
| 110° | 405.0 | 470.0 | 514.5 | 539.3 | 549.2 | 552.0 | 551.3 | 550.6 |



TEST NUMBER: P332335

CATALOG NUMBER: S123RDIP-S1000D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 378.7 | 445.1 | 495.0 | 526.8 | 544.9 | 553.7 | 556.4 | 556.5 |
| 115° | 343.8 | 405.3 | 457.3 | 495.8 | 522.3 | 537.8 | 544.9 | 546.7 |
| 117.5° | 318.6 | 371.7 | 418.3 | 457.4 | 485.1 | 502.9 | 513.0 | 515.4 |
| 120° | 305.3 | 353.0 | 395.4 | 431.1 | 459.0 | 478.8 | 487.3 | 489.4 |
| 122.5° | 294.9 | 338.0 | 377.3 | 410.5 | 435.3 | 453.1 | 462.4 | 465.1 |
| 125° | 280.9 | 319.5 | 353.4 | 381.7 | 404.3 | 419.8 | 428.7 | 431.1 |
| 127.5° | 268.8 | 303.1 | 333.7 | 359.5 | 379.6 | 392.9 | 400.9 | 403.1 |
| 130° | 261.1 | 293.0 | 321.6 | 345.6 | 364.3 | 377.1 | 384.5 | 387.3 |
| 132.5° | 254.1 | 283.3 | 310.0 | 332.9 | 350.5 | 363.2 | 369.8 | 371.8 |
| 135° | 244.5 | 269.6 | 292.6 | 312.7 | 330.1 | 340.7 | 347.0 | 349.5 |
| 137.5° | 235.8 | 256.4 | 276.2 | 293.7 | 308.2 | 319.0 | 324.3 | 326.0 |
| 140° | 230.8 | 248.8 | 265.7 | 280.9 | 294.4 | 304.3 | 309.9 | 309.6 |
| 142.5° | 226.0 | 241.4 | 256.1 | 269.3 | 280.8 | 289.6 | 294.6 | 294.3 |
| 145° | 220.2 | 231.8 | 243.1 | 253.4 | 262.2 | 269.6 | 272.5 | 273.2 |
| 147.5° | 215.4 | 224.7 | 233.8 | 241.1 | 247.8 | 252.8 | 255.5 | 255.8 |
| 150° | 212.0 | 220.2 | 227.6 | 234.3 | 239.6 | 243.5 | 245.6 | 245.6 |
| 152.5° | 208.9 | 215.9 | 222.5 | 228.1 | 232.2 | 235.8 | 237.1 | 237.1 |
| 155° | 204.3 | 209.9 | 215.2 | 219.4 | 222.6 | 225.5 | 226.2 | 226.5 |
| 157.5° | 199.3 | 204.0 | 208.1 | 211.5 | 214.2 | 216.3 | 216.9 | 216.8 |
| 160° | 196.5 | 200.4 | 203.9 | 206.4 | 208.8 | 211.0 | 211.0 | 210.6 |
| 162.5° | 193.1 | 196.4 | 199.7 | 201.9 | 203.5 | 205.3 | 205.3 | 205.0 |
| 165° | 188.7 | 190.8 | 193.3 | 195.1 | 196.5 | 197.9 | 197.5 | 197.5 |
| 167.5° | 184.9 | 186.5 | 187.9 | 189.2 | 189.8 | 190.8 | 190.5 | 190.5 |
| 170° | 182.3 | 183.4 | 184.8 | 185.5 | 185.9 | 186.6 | 186.2 | 186.2 |
| 172.5° | 180.1 | 180.9 | 182.0 | 182.4 | 182.5 | 183.2 | 182.6 | 182.3 |
| 175° | 177.0 | 177.4 | 178.1 | 178.1 | 178.1 | 178.5 | 178.1 | 177.8 |
| 177.5° | 175.1 | 175.4 | 175.7 | 175.7 | 175.4 | 175.7 | 175.1 | 175.1 |
| 180° | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 |

(END OF REPORT)