

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: P332633-840

Luminaire Tested: **SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332633-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

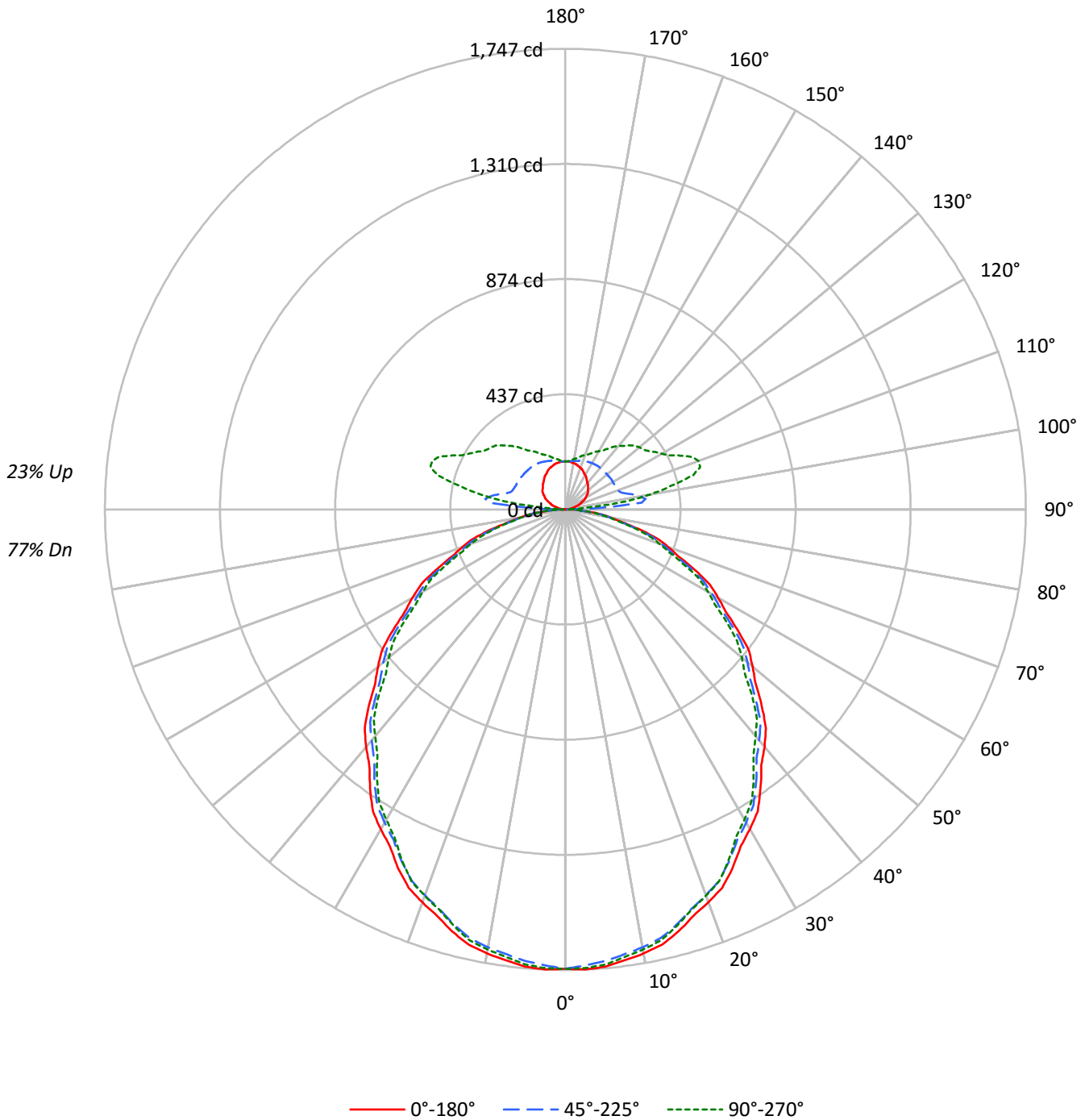
Lumens per Lamp: N/A
Luminaire Lumens: 5793.8 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): 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: P332633-840
CATALOG NUMBER: SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332633-840

CATALOG NUMBER: SA4XXDIP-C1020D365U840-4F0-1E-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 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 89 | 89 | 89 | 81 | 81 | 81 | 77 |
| 1 | 104 | 99 | 95 | 92 | 99 | 95 | 91 | 88 | 86 | 84 | 81 | 79 | 77 | 75 | 72 | 70 | 68 | 65 |
| 2 | 95 | 87 | 80 | 75 | 90 | 83 | 77 | 72 | 76 | 71 | 67 | 69 | 65 | 62 | 63 | 60 | 58 | 54 |
| 3 | 86 | 76 | 69 | 62 | 82 | 73 | 66 | 60 | 67 | 61 | 56 | 61 | 57 | 53 | 56 | 52 | 49 | 46 |
| 4 | 79 | 68 | 59 | 53 | 75 | 65 | 57 | 51 | 60 | 53 | 48 | 55 | 49 | 45 | 50 | 46 | 42 | 39 |
| 5 | 73 | 60 | 52 | 46 | 69 | 58 | 50 | 44 | 53 | 47 | 42 | 49 | 44 | 39 | 45 | 41 | 37 | 34 |
| 6 | 67 | 54 | 46 | 40 | 64 | 52 | 44 | 39 | 48 | 42 | 37 | 44 | 39 | 35 | 41 | 36 | 33 | 30 |
| 7 | 62 | 49 | 41 | 35 | 59 | 47 | 40 | 34 | 44 | 37 | 32 | 41 | 35 | 31 | 37 | 33 | 29 | 27 |
| 8 | 58 | 45 | 37 | 31 | 55 | 43 | 36 | 30 | 40 | 34 | 29 | 37 | 32 | 27 | 34 | 30 | 26 | 24 |
| 9 | 54 | 41 | 33 | 28 | 51 | 40 | 32 | 27 | 37 | 31 | 26 | 34 | 29 | 25 | 32 | 27 | 24 | 22 |
| 10 | 51 | 38 | 30 | 25 | 48 | 37 | 30 | 25 | 34 | 28 | 24 | 32 | 26 | 23 | 30 | 25 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14067 | 14067 | 14067 |
| 5° | 14109 | 13940 | 14041 |
| 10° | 14021 | 13827 | 13896 |
| 15° | 13852 | 13630 | 13665 |
| 20° | 13626 | 13387 | 13399 |
| 25° | 13370 | 13109 | 13071 |
| 30° | 13055 | 12781 | 12665 |
| 35° | 12728 | 12439 | 12275 |
| 40° | 12390 | 12052 | 11830 |
| 45° | 12036 | 11669 | 11445 |
| 50° | 11645 | 11328 | 10977 |
| 55° | 11222 | 10888 | 10534 |
| 60° | 10798 | 10393 | 10077 |
| 65° | 10323 | 9922 | 9522 |
| 70° | 9788 | 9293 | 8932 |
| 75° | 8971 | 8537 | 8319 |
| 80° | 7987 | 7657 | 7466 |
| 85° | 6984 | 6725 | 6595 |



TEST NUMBER: P332633-840

CATALOG NUMBER: SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 164.1 | 2.8 |
| 10°-20° | 462.4 | 8.0 |
| 20°-30° | 680.5 | 11.7 |
| 30°-40° | 791.1 | 13.7 |
| 40°-50° | 791.2 | 13.7 |
| 50°-60° | 692.1 | 11.9 |
| 60°-70° | 514.0 | 8.9 |
| 70°-80° | 292.0 | 5.0 |
| 80°-90° | 85.3 | 1.5 |
| 90°-100° | 131.2 | 2.3 |
| 100°-110° | 273.1 | 4.7 |
| 110°-120° | 244.6 | 4.2 |
| 120°-130° | 205.8 | 3.6 |
| 130°-140° | 171.6 | 3.0 |
| 140°-150° | 131.1 | 2.3 |
| 150°-160° | 92.1 | 1.6 |
| 160°-170° | 54.2 | 0.9 |
| 170°-180° | 17.6 | 0.3 |
| 0°-30° | 1307.0 | 22.6 |
| 0°-40° | 2098.1 | 36.2 |
| 0°-60° | 3581.3 | 61.8 |
| 0°-90° | 4472.6 | 77.2 |
| 90°-120° | 648.9 | 11.2 |
| 90°-150° | 1157.3 | 20.0 |
| 90°-180° | 1321.0 | 22.8 |
| 0°-180° | 5793.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1742 | 1742 | 1742 | 1742 | 1742 | |
| 5° | 1741 | 1735 | 1720 | 1735 | 1733 | 165 |
| 15° | 1657 | 1651 | 1631 | 1638 | 1635 | 467 |
| 25° | 1501 | 1491 | 1472 | 1473 | 1467 | 690 |
| 35° | 1292 | 1281 | 1262 | 1253 | 1246 | 807 |
| 45° | 1054 | 1044 | 1022 | 1007 | 1002 | 812 |
| 55° | 797 | 792 | 774 | 757 | 748 | 714 |
| 65° | 540 | 533 | 519 | 506 | 498 | 535 |
| 75° | 288 | 281 | 274 | 268 | 267 | 306 |
| 85° | 75 | 75 | 73 | 72 | 71 | 83 |
| 90° | 0 | 3 | 6 | 7 | 8 | 5 |
| 95° | 12 | 37 | 291 | 144 | 87 | 13 |
| 105° | 42 | 60 | 234 | 504 | 502 | 45 |
| 115° | 74 | 92 | 209 | 401 | 482 | 73 |
| 125° | 102 | 122 | 208 | 341 | 385 | 91 |
| 135° | 122 | 145 | 206 | 303 | 344 | 94 |
| 145° | 140 | 161 | 205 | 256 | 281 | 88 |
| 155° | 160 | 172 | 199 | 226 | 235 | 74 |
| 165° | 174 | 179 | 191 | 202 | 205 | 49 |
| 175° | 181 | 182 | 183 | 186 | 185 | 17 |
| 180° | 182 | 182 | 182 | 182 | 182 | |



TEST NUMBER: P332633-840

CATALOG NUMBER: SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 |
| 2.5° | 1747.0 | 1746.3 | 1745.5 | 1744.7 | 1744.0 | 1742.2 | 1739.5 | 1736.8 | 1734.0 | 1731.3 | 1733.8 |
| 5° | 1741.1 | 1739.9 | 1738.7 | 1737.4 | 1736.2 | 1733.8 | 1730.4 | 1727.0 | 1723.6 | 1720.2 | 1723.6 |
| 7.5° | 1725.0 | 1723.6 | 1722.4 | 1721.2 | 1720.0 | 1717.5 | 1713.6 | 1709.9 | 1706.1 | 1702.3 | 1705.1 |
| 10° | 1710.4 | 1709.2 | 1707.9 | 1706.7 | 1705.5 | 1702.8 | 1698.8 | 1694.8 | 1690.7 | 1686.7 | 1689.1 |
| 12.5° | 1691.4 | 1690.2 | 1688.9 | 1687.7 | 1686.5 | 1683.6 | 1679.4 | 1675.2 | 1670.8 | 1666.6 | 1669.3 |
| 15° | 1657.4 | 1656.1 | 1654.9 | 1653.7 | 1652.3 | 1649.4 | 1644.8 | 1640.1 | 1635.5 | 1630.8 | 1632.6 |
| 17.5° | 1616.3 | 1614.8 | 1613.2 | 1611.6 | 1610.1 | 1607.1 | 1602.7 | 1598.3 | 1593.9 | 1589.5 | 1590.6 |
| 20° | 1586.1 | 1584.6 | 1583.1 | 1581.4 | 1579.9 | 1576.8 | 1572.2 | 1567.5 | 1562.9 | 1558.2 | 1559.1 |
| 22.5° | 1553.8 | 1551.7 | 1549.6 | 1547.6 | 1545.6 | 1542.2 | 1537.5 | 1532.9 | 1528.2 | 1523.6 | 1525.3 |
| 25° | 1501.0 | 1498.8 | 1496.6 | 1494.4 | 1492.3 | 1489.0 | 1484.7 | 1480.4 | 1476.0 | 1471.7 | 1472.0 |
| 27.5° | 1440.7 | 1438.5 | 1436.1 | 1433.9 | 1431.7 | 1428.6 | 1424.5 | 1420.5 | 1416.4 | 1412.4 | 1411.7 |
| 30° | 1400.5 | 1398.0 | 1395.4 | 1393.0 | 1390.5 | 1387.3 | 1383.2 | 1379.2 | 1375.1 | 1371.1 | 1369.9 |
| 32.5° | 1358.0 | 1355.7 | 1353.5 | 1351.3 | 1349.1 | 1345.7 | 1341.5 | 1337.3 | 1332.9 | 1328.7 | 1327.2 |
| 35° | 1291.5 | 1289.4 | 1287.2 | 1285.1 | 1282.8 | 1279.6 | 1275.3 | 1270.9 | 1266.6 | 1262.2 | 1260.0 |
| 37.5° | 1221.4 | 1219.4 | 1217.5 | 1215.5 | 1213.5 | 1210.2 | 1205.5 | 1200.8 | 1196.2 | 1191.5 | 1189.2 |
| 40° | 1175.7 | 1173.2 | 1170.6 | 1168.2 | 1165.7 | 1162.2 | 1157.5 | 1152.9 | 1148.2 | 1143.6 | 1140.4 |
| 42.5° | 1126.5 | 1125.0 | 1123.5 | 1122.1 | 1120.5 | 1117.2 | 1112.1 | 1106.9 | 1101.8 | 1096.6 | 1093.0 |
| 45° | 1054.2 | 1052.0 | 1049.9 | 1047.6 | 1045.5 | 1041.9 | 1036.9 | 1032.0 | 1027.0 | 1022.1 | 1018.7 |
| 47.5° | 978.5 | 977.0 | 975.5 | 974.0 | 972.5 | 969.5 | 964.9 | 960.3 | 955.7 | 951.1 | 947.3 |
| 50° | 927.2 | 925.8 | 924.6 | 923.4 | 922.1 | 919.4 | 915.0 | 910.7 | 906.4 | 902.0 | 897.7 |
| 52.5° | 876.9 | 875.4 | 873.8 | 872.4 | 870.9 | 867.9 | 863.2 | 858.7 | 854.0 | 849.5 | 845.7 |
| 55° | 797.3 | 796.3 | 795.4 | 794.5 | 793.6 | 790.9 | 786.6 | 782.2 | 777.9 | 773.6 | 769.8 |
| 57.5° | 721.3 | 720.2 | 719.2 | 718.1 | 717.1 | 714.4 | 710.1 | 705.9 | 701.6 | 697.3 | 693.8 |
| 60° | 668.8 | 667.2 | 665.7 | 664.2 | 662.6 | 659.8 | 655.8 | 651.8 | 647.7 | 643.7 | 640.9 |
| 62.5° | 617.4 | 616.1 | 614.8 | 613.5 | 612.2 | 609.5 | 605.1 | 600.9 | 596.5 | 592.3 | 589.8 |
| 65° | 540.4 | 538.8 | 537.2 | 535.7 | 534.1 | 531.8 | 528.7 | 525.6 | 522.5 | 519.4 | 516.3 |
| 67.5° | 462.7 | 461.3 | 459.9 | 458.5 | 457.0 | 454.8 | 451.8 | 448.9 | 445.9 | 442.9 | 439.9 |
| 70° | 414.7 | 412.5 | 410.3 | 408.2 | 406.0 | 403.6 | 401.2 | 398.7 | 396.3 | 393.7 | 391.2 |
| 72.5° | 363.3 | 361.1 | 359.0 | 356.8 | 354.7 | 352.5 | 350.5 | 348.6 | 346.6 | 344.6 | 342.6 |
| 75° | 287.6 | 286.1 | 284.5 | 283.0 | 281.4 | 279.8 | 278.3 | 276.8 | 275.2 | 273.7 | 272.5 |
| 77.5° | 215.3 | 214.6 | 213.9 | 213.3 | 212.6 | 211.6 | 210.2 | 208.8 | 207.4 | 206.1 | 205.7 |
| 80° | 171.8 | 170.8 | 169.9 | 169.0 | 168.0 | 167.2 | 166.6 | 166.0 | 165.4 | 164.7 | 164.1 |
| 82.5° | 129.3 | 128.9 | 128.5 | 127.9 | 127.5 | 127.2 | 127.1 | 127.0 | 126.9 | 126.7 | 126.4 |
| 85° | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.1 | 74.4 | 73.8 | 73.2 | 72.6 | 72.6 |
| 87.5° | 29.1 | 29.0 | 29.0 | 28.8 | 28.6 | 28.4 | 28.6 | 28.3 | 28.2 | 28.1 | 28.0 |
| 90° | 0.4 | 1.1 | 2.1 | 2.5 | 2.8 | 2.8 | 4.9 | 4.9 | 5.8 | 6.5 | 6.1 |
| 92.5° | 4.0 | 6.0 | 9.3 | 13.6 | 18.9 | 26.3 | 44.4 | 72.1 | 99.1 | 113.2 | 94.3 |
| 95° | 11.8 | 12.8 | 16.5 | 21.1 | 29.6 | 44.6 | 75.6 | 134.2 | 219.5 | 290.8 | 299.1 |
| 97.5° | 21.1 | 21.1 | 24.2 | 28.5 | 35.9 | 48.4 | 72.3 | 120.7 | 205.4 | 306.4 | 375.8 |
| 100° | 27.2 | 27.2 | 29.6 | 33.9 | 40.7 | 52.1 | 73.2 | 113.5 | 186.3 | 287.0 | 378.3 |
| 102.5° | 32.8 | 33.4 | 35.6 | 39.6 | 46.2 | 57.0 | 76.0 | 111.5 | 173.5 | 262.7 | 356.9 |
| 105° | 41.8 | 42.8 | 44.6 | 48.9 | 55.3 | 65.6 | 82.8 | 112.4 | 162.4 | 234.1 | 318.0 |
| 107.5° | 51.6 | 52.3 | 54.1 | 58.7 | 64.8 | 75.0 | 90.7 | 117.8 | 160.4 | 218.1 | 286.6 |
| 110° | 58.2 | 58.9 | 60.7 | 64.9 | 71.4 | 81.0 | 96.7 | 121.7 | 161.0 | 212.7 | 270.9 |



TEST NUMBER: P332633-840

CATALOG NUMBER: SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 64.4 | 65.1 | 67.3 | 71.2 | 77.7 | 87.3 | 102.4 | 126.0 | 162.7 | 210.2 | 262.1 |
| 115° | 73.5 | 74.6 | 77.1 | 80.7 | 87.5 | 97.0 | 111.4 | 132.8 | 165.9 | 208.8 | 253.8 |
| 117.5° | 82.9 | 83.9 | 86.1 | 90.1 | 96.4 | 106.4 | 120.0 | 139.7 | 169.5 | 208.4 | 250.0 |
| 120° | 89.3 | 90.0 | 92.4 | 96.3 | 102.4 | 112.4 | 126.0 | 144.5 | 172.1 | 208.4 | 248.0 |
| 122.5° | 94.9 | 95.6 | 98.2 | 101.8 | 108.5 | 118.2 | 131.7 | 149.2 | 174.6 | 208.1 | 245.8 |
| 125° | 102.4 | 103.8 | 106.0 | 110.0 | 116.7 | 126.7 | 139.6 | 155.9 | 178.4 | 207.7 | 242.0 |
| 127.5° | 109.1 | 110.2 | 112.8 | 117.2 | 124.3 | 134.4 | 146.8 | 161.9 | 181.6 | 206.9 | 236.9 |
| 130° | 112.8 | 114.2 | 117.0 | 122.4 | 129.2 | 139.6 | 151.7 | 165.6 | 183.8 | 206.6 | 233.8 |
| 132.5° | 116.5 | 117.6 | 121.4 | 126.4 | 133.8 | 143.5 | 155.7 | 169.4 | 185.8 | 206.4 | 231.0 |
| 135° | 121.7 | 123.1 | 126.7 | 132.8 | 140.3 | 149.6 | 161.3 | 174.2 | 188.8 | 205.9 | 226.6 |
| 137.5° | 126.9 | 128.3 | 132.2 | 137.9 | 145.7 | 154.6 | 165.6 | 177.6 | 190.6 | 205.9 | 223.0 |
| 140° | 130.7 | 131.7 | 135.6 | 141.7 | 149.2 | 157.7 | 168.4 | 179.9 | 192.0 | 205.6 | 221.0 |
| 142.5° | 134.6 | 135.7 | 139.4 | 145.1 | 152.3 | 160.6 | 171.1 | 181.6 | 193.2 | 205.6 | 219.2 |
| 145° | 140.3 | 141.4 | 144.9 | 149.9 | 156.7 | 164.5 | 173.8 | 183.5 | 193.8 | 204.9 | 216.3 |
| 147.5° | 146.6 | 146.9 | 150.2 | 155.2 | 160.9 | 167.9 | 176.6 | 185.1 | 194.2 | 203.6 | 213.7 |
| 150° | 150.6 | 151.0 | 153.8 | 158.1 | 163.5 | 170.3 | 178.1 | 185.9 | 194.2 | 202.7 | 211.7 |
| 152.5° | 154.3 | 154.4 | 157.2 | 161.3 | 166.0 | 172.3 | 179.3 | 186.5 | 193.6 | 201.3 | 209.3 |
| 155° | 159.6 | 159.9 | 162.1 | 165.6 | 169.6 | 174.9 | 181.0 | 187.0 | 192.8 | 199.1 | 205.9 |
| 157.5° | 164.6 | 164.6 | 166.6 | 169.4 | 172.8 | 177.0 | 182.2 | 187.0 | 191.8 | 196.9 | 202.5 |
| 160° | 167.7 | 167.7 | 169.2 | 171.7 | 174.5 | 178.4 | 182.8 | 187.0 | 191.0 | 195.2 | 199.9 |
| 162.5° | 170.6 | 170.4 | 171.5 | 173.7 | 176.2 | 179.4 | 183.3 | 187.0 | 190.1 | 193.5 | 197.6 |
| 165° | 173.8 | 173.8 | 174.5 | 176.3 | 178.1 | 180.3 | 183.5 | 186.3 | 188.4 | 191.0 | 193.8 |
| 167.5° | 177.0 | 176.6 | 177.0 | 178.3 | 179.4 | 181.1 | 183.4 | 185.4 | 186.7 | 188.3 | 190.4 |
| 170° | 178.4 | 178.1 | 178.4 | 179.6 | 180.3 | 181.3 | 183.1 | 184.9 | 185.6 | 186.6 | 188.1 |
| 172.5° | 179.9 | 179.6 | 179.6 | 180.4 | 180.8 | 181.6 | 182.8 | 184.3 | 184.5 | 184.9 | 186.1 |
| 175° | 181.3 | 181.0 | 181.0 | 181.3 | 181.7 | 181.7 | 182.4 | 183.5 | 183.1 | 183.1 | 183.8 |
| 177.5° | 182.0 | 181.7 | 181.4 | 181.7 | 181.7 | 181.7 | 182.0 | 182.5 | 182.0 | 182.0 | 182.3 |
| 180° | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |



TEST NUMBER: P332633-840

CATALOG NUMBER: SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 | 1742.5 |
| 2.5° | 1736.3 | 1738.8 | 1741.3 | 1742.4 | 1742.1 | 1741.9 | 1741.6 | 1741.4 |
| 5° | 1727.0 | 1730.4 | 1733.8 | 1735.3 | 1734.6 | 1733.9 | 1733.3 | 1732.7 |
| 7.5° | 1707.8 | 1710.5 | 1713.2 | 1714.4 | 1714.0 | 1713.6 | 1713.2 | 1712.9 |
| 10° | 1691.6 | 1694.1 | 1696.6 | 1697.5 | 1696.9 | 1696.3 | 1695.7 | 1695.1 |
| 12.5° | 1672.0 | 1674.8 | 1677.5 | 1678.4 | 1677.6 | 1676.7 | 1675.8 | 1675.0 |
| 15° | 1634.6 | 1636.4 | 1638.3 | 1638.7 | 1637.8 | 1636.9 | 1636.0 | 1635.0 |
| 17.5° | 1591.9 | 1593.1 | 1594.2 | 1594.5 | 1593.9 | 1593.3 | 1592.7 | 1592.0 |
| 20° | 1560.0 | 1561.0 | 1562.0 | 1562.1 | 1561.5 | 1560.8 | 1560.2 | 1559.6 |
| 22.5° | 1526.9 | 1528.6 | 1530.2 | 1530.6 | 1529.4 | 1528.3 | 1527.2 | 1526.1 |
| 25° | 1472.3 | 1472.6 | 1472.9 | 1472.4 | 1471.2 | 1470.0 | 1468.6 | 1467.4 |
| 27.5° | 1411.0 | 1410.2 | 1409.5 | 1408.4 | 1406.7 | 1405.2 | 1403.6 | 1402.1 |
| 30° | 1368.7 | 1367.4 | 1366.1 | 1364.7 | 1363.2 | 1361.6 | 1360.1 | 1358.6 |
| 32.5° | 1325.6 | 1324.2 | 1322.7 | 1321.2 | 1319.6 | 1318.1 | 1316.6 | 1314.9 |
| 35° | 1257.9 | 1255.7 | 1253.5 | 1251.6 | 1250.1 | 1248.6 | 1247.0 | 1245.5 |
| 37.5° | 1186.8 | 1184.5 | 1182.1 | 1179.9 | 1177.9 | 1175.8 | 1173.8 | 1171.7 |
| 40° | 1137.3 | 1134.2 | 1131.1 | 1128.8 | 1127.2 | 1125.7 | 1124.2 | 1122.6 |
| 42.5° | 1089.4 | 1085.8 | 1082.2 | 1079.8 | 1078.8 | 1077.7 | 1076.7 | 1075.7 |
| 45° | 1015.2 | 1011.8 | 1008.4 | 1006.2 | 1005.3 | 1004.4 | 1003.4 | 1002.5 |
| 47.5° | 943.4 | 939.6 | 935.7 | 932.6 | 930.3 | 927.9 | 925.5 | 923.2 |
| 50° | 893.3 | 889.0 | 884.6 | 881.5 | 879.6 | 877.8 | 876.0 | 874.0 |
| 52.5° | 841.8 | 837.9 | 834.0 | 831.0 | 828.6 | 826.3 | 823.9 | 821.5 |
| 55° | 766.1 | 762.3 | 758.6 | 755.9 | 754.0 | 752.1 | 750.2 | 748.4 |
| 57.5° | 690.2 | 686.7 | 683.2 | 680.4 | 678.6 | 676.9 | 675.1 | 673.3 |
| 60° | 638.1 | 635.3 | 632.5 | 630.4 | 628.7 | 627.2 | 625.7 | 624.1 |
| 62.5° | 587.2 | 584.6 | 582.1 | 580.1 | 578.6 | 576.9 | 575.4 | 573.9 |
| 65° | 513.2 | 510.1 | 507.0 | 504.6 | 503.1 | 501.6 | 500.0 | 498.5 |
| 67.5° | 437.0 | 433.9 | 431.0 | 429.3 | 428.8 | 428.4 | 428.0 | 427.6 |
| 70° | 388.8 | 386.3 | 383.8 | 382.1 | 381.2 | 380.2 | 379.3 | 378.4 |
| 72.5° | 340.6 | 338.6 | 336.7 | 335.2 | 334.3 | 333.4 | 332.4 | 331.4 |
| 75° | 271.1 | 269.9 | 268.7 | 267.9 | 267.6 | 267.3 | 267.0 | 266.7 |
| 77.5° | 205.3 | 205.0 | 204.6 | 204.0 | 203.2 | 202.4 | 201.6 | 200.8 |
| 80° | 163.5 | 162.9 | 162.3 | 161.8 | 161.5 | 161.2 | 160.9 | 160.6 |
| 82.5° | 126.0 | 125.6 | 125.3 | 124.9 | 124.6 | 124.3 | 124.0 | 123.7 |
| 85° | 72.6 | 72.6 | 72.6 | 72.4 | 72.1 | 71.8 | 71.5 | 71.2 |
| 87.5° | 28.1 | 28.2 | 28.3 | 28.3 | 28.3 | 28.4 | 28.3 | 28.3 |
| 90° | 6.5 | 6.8 | 7.2 | 7.2 | 7.5 | 7.9 | 7.5 | 7.5 |
| 92.5° | 70.1 | 52.7 | 42.0 | 34.8 | 30.6 | 28.7 | 27.5 | 27.5 |
| 95° | 264.5 | 209.1 | 161.3 | 126.7 | 109.2 | 98.2 | 91.7 | 87.1 |
| 97.5° | 390.7 | 370.2 | 335.3 | 298.0 | 272.4 | 251.0 | 240.2 | 232.8 |
| 100° | 430.4 | 437.6 | 420.1 | 393.6 | 362.6 | 340.8 | 330.1 | 327.3 |
| 102.5° | 428.5 | 463.8 | 468.9 | 457.9 | 438.9 | 423.1 | 411.8 | 409.5 |
| 105° | 399.7 | 461.5 | 496.9 | 511.5 | 512.2 | 509.3 | 504.3 | 502.2 |
| 107.5° | 359.0 | 424.7 | 474.4 | 506.3 | 523.9 | 532.1 | 535.6 | 536.5 |
| 110° | 334.5 | 396.2 | 448.0 | 487.2 | 512.5 | 527.6 | 533.9 | 537.1 |



TEST NUMBER: P332633-840

CATALOG NUMBER: SA4XXDIP-C1020D365U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 316.4 | 371.0 | 419.9 | 459.2 | 488.0 | 506.1 | 515.1 | 520.3 |
| 115° | 298.4 | 342.2 | 384.1 | 418.3 | 446.5 | 467.9 | 479.4 | 482.2 |
| 117.5° | 289.5 | 325.9 | 358.7 | 387.8 | 411.8 | 429.8 | 441.3 | 443.5 |
| 120° | 285.5 | 318.7 | 347.3 | 372.6 | 392.9 | 408.7 | 418.0 | 421.9 |
| 122.5° | 282.1 | 314.2 | 340.1 | 362.3 | 379.5 | 392.9 | 400.8 | 404.8 |
| 125° | 276.3 | 306.9 | 331.5 | 351.2 | 365.5 | 375.9 | 382.6 | 384.8 |
| 127.5° | 269.1 | 298.4 | 323.1 | 341.6 | 356.0 | 365.2 | 370.9 | 373.0 |
| 130° | 263.4 | 291.6 | 315.9 | 334.8 | 349.4 | 358.3 | 364.1 | 366.2 |
| 132.5° | 257.4 | 283.9 | 307.6 | 326.5 | 340.8 | 350.9 | 356.4 | 358.5 |
| 135° | 249.1 | 272.4 | 294.1 | 311.9 | 326.2 | 336.2 | 341.9 | 344.1 |
| 137.5° | 241.7 | 261.3 | 279.6 | 295.7 | 309.1 | 318.9 | 323.7 | 326.2 |
| 140° | 237.3 | 254.1 | 270.1 | 285.2 | 297.7 | 305.5 | 310.5 | 313.4 |
| 142.5° | 233.4 | 248.1 | 261.9 | 274.9 | 286.0 | 293.3 | 297.7 | 299.6 |
| 145° | 227.7 | 239.8 | 250.5 | 260.5 | 269.4 | 275.5 | 279.1 | 280.8 |
| 147.5° | 223.1 | 232.7 | 241.3 | 249.1 | 255.7 | 260.9 | 263.6 | 264.3 |
| 150° | 220.3 | 228.4 | 235.6 | 242.0 | 247.7 | 252.4 | 254.5 | 254.8 |
| 152.5° | 217.1 | 224.2 | 230.8 | 236.0 | 240.9 | 244.6 | 245.9 | 246.3 |
| 155° | 212.4 | 218.0 | 223.4 | 227.7 | 231.3 | 234.1 | 235.2 | 235.2 |
| 157.5° | 207.3 | 212.1 | 216.6 | 220.0 | 222.7 | 224.9 | 225.5 | 225.5 |
| 160° | 204.2 | 208.0 | 212.0 | 214.9 | 217.0 | 219.1 | 219.5 | 219.5 |
| 162.5° | 201.1 | 204.4 | 207.4 | 210.1 | 211.6 | 213.7 | 214.1 | 213.8 |
| 165° | 196.6 | 198.8 | 201.3 | 203.1 | 204.5 | 205.9 | 205.6 | 205.2 |
| 167.5° | 192.5 | 194.1 | 196.1 | 197.1 | 197.8 | 198.8 | 198.7 | 198.4 |
| 170° | 189.9 | 191.0 | 192.4 | 193.5 | 194.2 | 194.5 | 194.2 | 194.2 |
| 172.5° | 187.6 | 188.3 | 189.2 | 190.1 | 190.5 | 190.8 | 190.5 | 189.9 |
| 175° | 184.5 | 184.9 | 185.6 | 185.6 | 185.6 | 186.3 | 185.6 | 184.9 |
| 177.5° | 182.5 | 182.8 | 182.8 | 183.1 | 182.8 | 183.1 | 182.5 | 182.0 |
| 180° | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |

(END OF REPORT)