

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: P331595-930

Luminaire Tested: **S122DIW-S1005D710U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331595-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D710U930-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5619.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

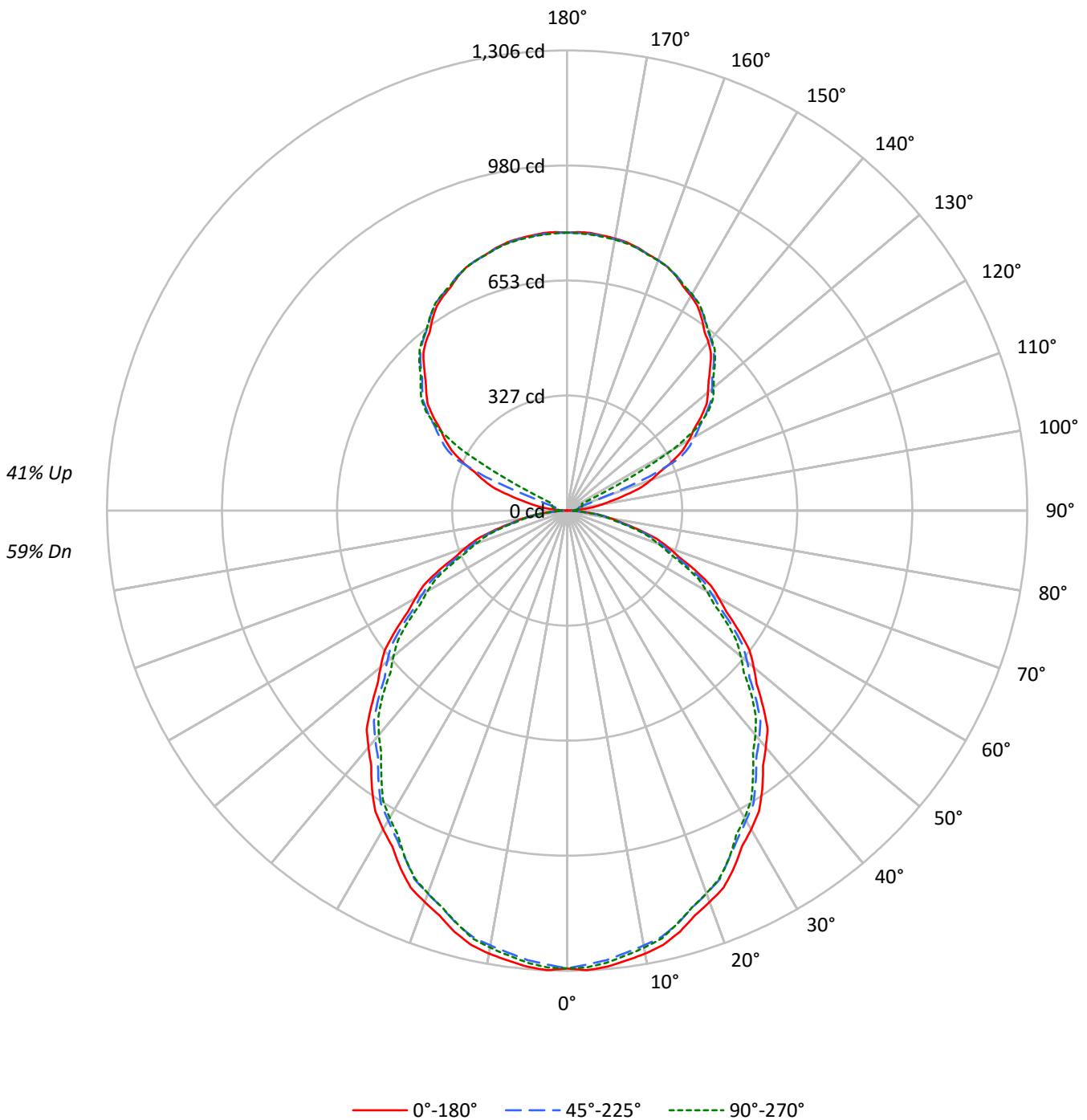
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331595-930

CATALOG NUMBER: S122DIW-S1005D710U930-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331595-930

CATALOG NUMBER: S122DIW-S1005D710U930-4F0-1E-UDD-F

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 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |
| 1 | 100 | 95 | 91 | 88 | 93 | 89 | 86 | 83 | 77 | 75 | 73 | 67 | 65 | 63 | 57 | 56 | 54 | 50 |
| 2 | 91 | 83 | 77 | 72 | 84 | 78 | 72 | 68 | 68 | 64 | 60 | 59 | 55 | 53 | 50 | 48 | 46 | 42 |
| 3 | 83 | 73 | 66 | 60 | 77 | 69 | 62 | 57 | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 41 | 39 | 35 |
| 4 | 76 | 65 | 57 | 51 | 71 | 61 | 54 | 48 | 53 | 48 | 43 | 46 | 42 | 38 | 40 | 36 | 34 | 30 |
| 5 | 70 | 58 | 50 | 44 | 65 | 54 | 47 | 41 | 48 | 42 | 37 | 42 | 37 | 33 | 36 | 32 | 29 | 26 |
| 6 | 64 | 52 | 44 | 38 | 60 | 49 | 41 | 36 | 43 | 37 | 33 | 38 | 33 | 29 | 32 | 29 | 26 | 23 |
| 7 | 59 | 47 | 39 | 33 | 55 | 44 | 37 | 32 | 39 | 33 | 29 | 34 | 29 | 26 | 30 | 26 | 23 | 20 |
| 8 | 55 | 43 | 35 | 29 | 51 | 40 | 33 | 28 | 36 | 30 | 26 | 31 | 27 | 23 | 27 | 23 | 21 | 18 |
| 9 | 51 | 39 | 31 | 26 | 48 | 37 | 30 | 25 | 33 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 19 | 17 |
| 10 | 48 | 36 | 29 | 24 | 45 | 34 | 27 | 23 | 30 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20980 | 20980 | 20980 |
| 5° | 21060 | 20757 | 20879 |
| 10° | 20935 | 20546 | 20649 |
| 15° | 20677 | 20279 | 20259 |
| 20° | 20309 | 19880 | 19859 |
| 25° | 19946 | 19388 | 19388 |
| 30° | 19475 | 18938 | 18776 |
| 35° | 19036 | 18398 | 18126 |
| 40° | 18487 | 17856 | 17513 |
| 45° | 17945 | 17317 | 16890 |
| 50° | 17357 | 16759 | 16164 |
| 55° | 16743 | 16110 | 15510 |
| 60° | 16059 | 15332 | 14767 |
| 65° | 15320 | 14560 | 13891 |
| 70° | 14389 | 13624 | 12977 |
| 75° | 13094 | 12545 | 12239 |
| 80° | 11623 | 11269 | 10693 |
| 85° | 9485 | 9040 | 8096 |



TEST NUMBER: P331595-930

CATALOG NUMBER: S122DIW-S1005D710U930-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.2 | 2.2 |
| 10°-20° | 343.8 | 6.1 |
| 20°-30° | 505.4 | 9.0 |
| 30°-40° | 587.0 | 10.4 |
| 40°-50° | 586.4 | 10.4 |
| 50°-60° | 511.4 | 9.1 |
| 60°-70° | 378.1 | 6.7 |
| 70°-80° | 214.2 | 3.8 |
| 80°-90° | 59.5 | 1.1 |
| 90°-100° | 26.3 | 0.5 |
| 100°-110° | 96.5 | 1.7 |
| 110°-120° | 257.9 | 4.6 |
| 120°-130° | 425.7 | 7.6 |
| 130°-140° | 452.8 | 8.1 |
| 140°-150° | 420.8 | 7.5 |
| 150°-160° | 338.4 | 6.0 |
| 160°-170° | 218.0 | 3.9 |
| 170°-180° | 75.1 | 1.3 |
| 0°-30° | 971.4 | 17.3 |
| 0°-40° | 1558.4 | 27.7 |
| 0°-60° | 2656.1 | 47.3 |
| 0°-90° | 3307.9 | 58.9 |
| 90°-120° | 380.7 | 6.8 |
| 90°-150° | 1680.1 | 29.9 |
| 90°-180° | 2312.0 | 41.1 |
| 0°-180° | 5619.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1299 | 1299 | 1299 | 1299 | 1299 | |
| 5° | 1299 | 1294 | 1281 | 1290 | 1288 | 123 |
| 15° | 1237 | 1229 | 1213 | 1218 | 1212 | 348 |
| 25° | 1120 | 1109 | 1088 | 1090 | 1088 | 515 |
| 35° | 966 | 953 | 933 | 926 | 920 | 603 |
| 45° | 786 | 777 | 758 | 745 | 740 | 606 |
| 55° | 595 | 587 | 572 | 558 | 551 | 532 |
| 65° | 401 | 393 | 381 | 370 | 364 | 397 |
| 75° | 210 | 207 | 201 | 194 | 196 | 224 |
| 85° | 51 | 50 | 49 | 45 | 44 | 59 |
| 90° | 1 | 7 | 11 | 14 | 15 | 4 |
| 95° | 37 | 20 | 22 | 25 | 24 | 45 |
| 105° | 174 | 181 | 35 | 41 | 43 | 185 |
| 115° | 328 | 338 | 352 | 100 | 47 | 323 |
| 125° | 464 | 472 | 482 | 486 | 488 | 414 |
| 135° | 574 | 583 | 588 | 594 | 593 | 443 |
| 145° | 666 | 666 | 675 | 679 | 676 | 416 |
| 155° | 733 | 729 | 735 | 738 | 734 | 338 |
| 165° | 773 | 770 | 771 | 775 | 771 | 218 |
| 175° | 790 | 787 | 788 | 791 | 786 | 75 |
| 180° | 789 | 789 | 789 | 789 | 789 | |



TEST NUMBER: P331595-930

CATALOG NUMBER: S122DIW-S1005D710U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 |
| 2.5° | 1305.5 | 1304.3 | 1303.3 | 1302.1 | 1301.0 | 1299.3 | 1296.8 | 1294.4 | 1291.9 | 1289.5 | 1291.7 |
| 5° | 1299.4 | 1298.4 | 1297.2 | 1296.1 | 1295.0 | 1292.9 | 1289.9 | 1286.8 | 1283.8 | 1280.7 | 1283.0 |
| 7.5° | 1287.9 | 1286.2 | 1284.5 | 1282.8 | 1281.1 | 1278.6 | 1275.5 | 1272.4 | 1269.3 | 1266.2 | 1268.4 |
| 10° | 1276.9 | 1275.0 | 1273.1 | 1271.1 | 1269.2 | 1266.6 | 1263.2 | 1259.9 | 1256.5 | 1253.2 | 1255.5 |
| 12.5° | 1262.0 | 1260.2 | 1258.5 | 1256.8 | 1255.1 | 1252.5 | 1249.2 | 1245.9 | 1242.6 | 1239.3 | 1240.8 |
| 15° | 1237.0 | 1235.3 | 1233.6 | 1232.0 | 1230.3 | 1227.7 | 1224.1 | 1220.4 | 1216.8 | 1213.2 | 1214.4 |
| 17.5° | 1205.0 | 1203.3 | 1201.7 | 1200.0 | 1198.3 | 1195.6 | 1192.0 | 1188.3 | 1184.6 | 1181.0 | 1182.3 |
| 20° | 1182.0 | 1180.3 | 1178.7 | 1177.0 | 1175.3 | 1172.6 | 1168.7 | 1164.8 | 1160.9 | 1157.0 | 1157.8 |
| 22.5° | 1159.0 | 1156.7 | 1154.4 | 1152.0 | 1149.7 | 1146.7 | 1143.0 | 1139.4 | 1135.7 | 1132.0 | 1132.2 |
| 25° | 1119.6 | 1117.3 | 1115.1 | 1112.9 | 1110.7 | 1107.2 | 1102.4 | 1097.7 | 1093.0 | 1088.3 | 1088.8 |
| 27.5° | 1074.6 | 1072.5 | 1070.6 | 1068.5 | 1066.6 | 1063.7 | 1060.0 | 1056.2 | 1052.6 | 1048.8 | 1048.0 |
| 30° | 1044.6 | 1042.4 | 1040.1 | 1037.9 | 1035.7 | 1032.5 | 1028.3 | 1024.2 | 1020.0 | 1015.8 | 1015.0 |
| 32.5° | 1012.6 | 1010.8 | 1009.0 | 1007.2 | 1005.4 | 1002.4 | 998.0 | 993.6 | 989.2 | 984.8 | 983.3 |
| 35° | 965.8 | 963.0 | 960.3 | 957.5 | 954.7 | 951.1 | 946.6 | 942.2 | 937.8 | 933.4 | 931.7 |
| 37.5° | 913.1 | 910.7 | 908.2 | 905.8 | 903.4 | 899.9 | 895.4 | 891.0 | 886.6 | 882.2 | 880.0 |
| 40° | 877.1 | 874.9 | 872.7 | 870.5 | 868.2 | 865.0 | 860.5 | 856.1 | 851.6 | 847.2 | 844.7 |
| 42.5° | 842.1 | 839.9 | 837.7 | 835.5 | 833.2 | 829.9 | 825.5 | 821.0 | 816.6 | 812.1 | 809.4 |
| 45° | 785.9 | 784.0 | 782.0 | 780.1 | 778.1 | 775.1 | 770.9 | 766.8 | 762.6 | 758.4 | 755.4 |
| 47.5° | 729.9 | 728.1 | 726.3 | 724.5 | 722.6 | 719.5 | 715.2 | 710.9 | 706.5 | 702.2 | 699.0 |
| 50° | 691.0 | 689.6 | 688.2 | 686.8 | 685.4 | 682.7 | 678.9 | 675.0 | 671.1 | 667.2 | 663.3 |
| 52.5° | 653.0 | 651.2 | 649.3 | 647.5 | 645.6 | 642.9 | 639.2 | 635.5 | 631.9 | 628.3 | 625.0 |
| 55° | 594.8 | 593.0 | 591.4 | 589.8 | 588.1 | 585.5 | 582.3 | 578.9 | 575.6 | 572.3 | 568.9 |
| 57.5° | 536.3 | 534.9 | 533.6 | 532.3 | 530.9 | 528.5 | 524.8 | 521.1 | 517.5 | 513.8 | 510.5 |
| 60° | 497.3 | 496.2 | 495.0 | 494.0 | 492.8 | 490.3 | 486.5 | 482.6 | 478.7 | 474.8 | 471.7 |
| 62.5° | 459.3 | 457.5 | 455.8 | 454.0 | 452.2 | 449.8 | 446.8 | 443.8 | 440.8 | 437.8 | 435.0 |
| 65° | 401.0 | 399.4 | 397.8 | 396.1 | 394.4 | 392.2 | 389.4 | 386.6 | 383.8 | 381.1 | 378.6 |
| 67.5° | 341.9 | 340.6 | 339.2 | 337.9 | 336.6 | 334.6 | 332.1 | 329.6 | 327.1 | 324.7 | 322.7 |
| 70° | 304.8 | 303.8 | 302.6 | 301.6 | 300.4 | 298.6 | 296.1 | 293.6 | 291.1 | 288.6 | 286.7 |
| 72.5° | 266.8 | 265.8 | 264.6 | 263.6 | 262.4 | 261.1 | 259.5 | 257.9 | 256.2 | 254.6 | 252.7 |
| 75° | 209.9 | 209.4 | 208.8 | 208.2 | 207.7 | 206.7 | 205.3 | 203.9 | 202.5 | 201.1 | 199.5 |
| 77.5° | 158.9 | 158.0 | 157.0 | 156.1 | 155.2 | 154.4 | 153.8 | 153.3 | 152.7 | 152.2 | 151.3 |
| 80° | 125.0 | 124.7 | 124.4 | 124.1 | 123.8 | 123.4 | 122.9 | 122.3 | 121.7 | 121.2 | 120.3 |
| 82.5° | 92.9 | 92.9 | 92.9 | 92.8 | 92.7 | 92.5 | 92.2 | 91.9 | 91.6 | 91.2 | 90.2 |
| 85° | 51.2 | 51.0 | 50.7 | 50.4 | 50.1 | 49.8 | 49.6 | 49.2 | 49.0 | 48.8 | 47.9 |
| 87.5° | 18.1 | 17.9 | 17.8 | 17.6 | 17.4 | 17.2 | 17.0 | 16.8 | 16.6 | 16.3 | 15.7 |
| 90° | 0.6 | 2.0 | 3.3 | 4.7 | 6.1 | 7.3 | 8.4 | 9.4 | 10.4 | 11.4 | 12.1 |
| 92.5° | 11.5 | 11.4 | 11.3 | 11.2 | 11.0 | 11.3 | 11.7 | 12.2 | 12.7 | 13.2 | 13.5 |
| 95° | 37.1 | 32.9 | 28.7 | 24.5 | 20.4 | 18.7 | 19.6 | 20.5 | 21.4 | 22.3 | 22.9 |
| 97.5° | 73.6 | 61.8 | 50.1 | 38.2 | 26.4 | 21.6 | 23.6 | 25.7 | 27.7 | 29.8 | 30.3 |
| 100° | 101.0 | 83.6 | 66.3 | 48.9 | 31.6 | 23.9 | 26.1 | 28.2 | 30.4 | 32.5 | 33.5 |
| 102.5° | 131.2 | 127.5 | 123.8 | 120.1 | 116.4 | 105.6 | 87.6 | 69.5 | 51.4 | 33.4 | 34.7 |
| 105° | 173.5 | 177.3 | 181.2 | 184.9 | 188.7 | 173.3 | 138.7 | 104.0 | 69.5 | 34.8 | 36.2 |
| 107.5° | 221.8 | 224.9 | 228.0 | 231.0 | 234.1 | 214.8 | 173.3 | 131.8 | 90.3 | 48.8 | 47.3 |
| 110° | 252.8 | 255.5 | 258.2 | 260.8 | 263.5 | 246.5 | 209.9 | 173.2 | 136.6 | 99.9 | 87.2 |



TEST NUMBER: P331595-930

CATALOG NUMBER: S122DIW-S1005D710U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 282.1 | 284.5 | 286.8 | 289.1 | 291.5 | 288.1 | 279.1 | 270.0 | 261.0 | 251.9 | 205.7 |
| 115° | 328.2 | 330.4 | 332.5 | 334.7 | 336.8 | 339.5 | 342.7 | 345.8 | 348.9 | 352.1 | 293.4 |
| 117.5° | 369.4 | 371.8 | 374.2 | 376.6 | 379.0 | 381.3 | 383.5 | 385.7 | 387.8 | 390.0 | 375.9 |
| 120° | 399.5 | 401.5 | 403.3 | 405.2 | 407.2 | 409.2 | 411.5 | 413.8 | 416.0 | 418.3 | 419.9 |
| 122.5° | 425.1 | 427.1 | 429.1 | 431.1 | 433.1 | 435.4 | 437.8 | 440.3 | 442.8 | 445.3 | 446.2 |
| 125° | 464.0 | 465.7 | 467.3 | 469.0 | 470.6 | 472.6 | 475.1 | 477.4 | 479.9 | 482.2 | 483.1 |
| 127.5° | 499.3 | 501.1 | 503.0 | 504.8 | 506.6 | 508.4 | 510.2 | 512.0 | 513.8 | 515.6 | 516.9 |
| 130° | 521.6 | 523.7 | 525.7 | 527.7 | 529.8 | 531.5 | 532.9 | 534.3 | 535.7 | 537.1 | 538.5 |
| 132.5° | 544.5 | 546.3 | 548.0 | 549.7 | 551.4 | 552.9 | 554.3 | 555.7 | 557.2 | 558.6 | 559.7 |
| 135° | 574.2 | 576.2 | 578.2 | 580.2 | 582.3 | 583.9 | 585.1 | 586.2 | 587.3 | 588.5 | 589.7 |
| 137.5° | 604.2 | 605.6 | 607.1 | 608.5 | 609.8 | 611.2 | 612.5 | 613.8 | 615.1 | 616.4 | 617.7 |
| 140° | 623.9 | 624.8 | 625.8 | 626.9 | 627.9 | 629.1 | 630.5 | 631.9 | 633.2 | 634.7 | 635.9 |
| 142.5° | 640.3 | 641.2 | 642.1 | 643.0 | 643.9 | 645.1 | 646.8 | 648.4 | 650.0 | 651.6 | 652.6 |
| 145° | 666.1 | 665.9 | 665.9 | 665.7 | 665.5 | 666.6 | 668.7 | 670.9 | 673.0 | 675.2 | 676.1 |
| 147.5° | 688.5 | 688.1 | 687.6 | 687.1 | 686.6 | 687.5 | 689.6 | 691.7 | 693.8 | 695.9 | 696.7 |
| 150° | 703.2 | 702.3 | 701.4 | 700.5 | 699.6 | 700.2 | 702.2 | 704.3 | 706.3 | 708.3 | 709.1 |
| 152.5° | 715.5 | 714.5 | 713.5 | 712.5 | 711.5 | 712.0 | 714.0 | 715.8 | 717.8 | 719.7 | 720.5 |
| 155° | 733.4 | 732.3 | 731.2 | 730.0 | 728.9 | 729.0 | 730.6 | 732.1 | 733.6 | 735.2 | 735.9 |
| 157.5° | 747.5 | 746.5 | 745.5 | 744.5 | 743.6 | 743.6 | 744.7 | 745.8 | 746.8 | 747.9 | 748.8 |
| 160° | 755.7 | 754.9 | 754.2 | 753.4 | 752.6 | 752.6 | 753.4 | 754.2 | 754.9 | 755.7 | 756.4 |
| 162.5° | 763.0 | 762.2 | 761.5 | 760.7 | 759.9 | 759.9 | 760.5 | 761.2 | 761.9 | 762.5 | 763.4 |
| 165° | 772.8 | 772.0 | 771.3 | 770.5 | 769.7 | 769.6 | 770.0 | 770.3 | 770.7 | 771.1 | 772.0 |
| 167.5° | 780.1 | 779.3 | 778.6 | 777.8 | 777.1 | 776.9 | 777.2 | 777.6 | 778.0 | 778.3 | 779.2 |
| 170° | 784.2 | 783.4 | 782.7 | 782.0 | 781.1 | 780.9 | 781.1 | 781.5 | 781.7 | 782.0 | 782.9 |
| 172.5° | 786.9 | 786.2 | 785.5 | 784.6 | 783.9 | 783.7 | 783.9 | 784.2 | 784.4 | 784.6 | 785.5 |
| 175° | 790.5 | 789.6 | 788.7 | 787.8 | 786.9 | 786.6 | 786.8 | 787.2 | 787.4 | 787.7 | 788.6 |
| 177.5° | 791.1 | 790.4 | 789.6 | 789.0 | 788.2 | 787.9 | 788.0 | 788.1 | 788.2 | 788.3 | 789.0 |
| 180° | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 |



TEST NUMBER: P331595-930

CATALOG NUMBER: S122DIW-S1005D710U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 |
| 2.5° | 1293.9 | 1296.1 | 1298.4 | 1299.3 | 1298.8 | 1298.4 | 1297.9 | 1297.5 |
| 5° | 1285.2 | 1287.4 | 1289.6 | 1290.5 | 1289.9 | 1289.3 | 1288.7 | 1288.2 |
| 7.5° | 1270.6 | 1272.8 | 1275.1 | 1275.9 | 1275.3 | 1274.7 | 1274.1 | 1273.5 |
| 10° | 1257.7 | 1259.9 | 1262.1 | 1262.8 | 1262.0 | 1261.1 | 1260.3 | 1259.5 |
| 12.5° | 1242.4 | 1243.9 | 1245.5 | 1245.9 | 1245.3 | 1244.7 | 1244.1 | 1243.5 |
| 15° | 1215.4 | 1216.6 | 1217.6 | 1217.6 | 1216.2 | 1214.8 | 1213.4 | 1212.0 |
| 17.5° | 1183.6 | 1184.9 | 1186.1 | 1186.1 | 1184.7 | 1183.4 | 1182.1 | 1180.7 |
| 20° | 1158.7 | 1159.5 | 1160.3 | 1160.2 | 1159.1 | 1158.0 | 1156.9 | 1155.8 |
| 22.5° | 1132.4 | 1132.5 | 1132.7 | 1132.5 | 1131.8 | 1131.1 | 1130.4 | 1129.8 |
| 25° | 1089.4 | 1090.0 | 1090.5 | 1090.5 | 1090.0 | 1089.4 | 1088.8 | 1088.3 |
| 27.5° | 1047.2 | 1046.3 | 1045.5 | 1044.4 | 1043.1 | 1041.7 | 1040.4 | 1039.1 |
| 30° | 1014.2 | 1013.3 | 1012.5 | 1011.5 | 1010.4 | 1009.3 | 1008.2 | 1007.1 |
| 32.5° | 981.9 | 980.3 | 978.8 | 977.5 | 976.4 | 975.3 | 974.2 | 973.1 |
| 35° | 930.0 | 928.4 | 926.7 | 925.2 | 923.8 | 922.4 | 921.0 | 919.6 |
| 37.5° | 878.0 | 876.0 | 873.9 | 872.2 | 870.9 | 869.5 | 868.2 | 866.9 |
| 40° | 842.1 | 839.7 | 837.1 | 835.4 | 834.2 | 833.2 | 832.0 | 830.9 |
| 42.5° | 806.7 | 804.0 | 801.3 | 799.2 | 797.6 | 796.1 | 794.5 | 792.9 |
| 45° | 752.4 | 749.3 | 746.2 | 744.1 | 743.0 | 741.9 | 740.8 | 739.7 |
| 47.5° | 695.8 | 692.5 | 689.3 | 686.9 | 685.3 | 683.7 | 682.1 | 680.4 |
| 50° | 659.4 | 655.6 | 651.7 | 649.1 | 647.7 | 646.3 | 644.9 | 643.5 |
| 52.5° | 621.8 | 618.6 | 615.4 | 612.9 | 611.0 | 609.2 | 607.3 | 605.5 |
| 55° | 565.6 | 562.2 | 559.0 | 556.6 | 555.2 | 553.8 | 552.4 | 551.0 |
| 57.5° | 507.2 | 503.9 | 500.7 | 498.5 | 497.5 | 496.4 | 495.4 | 494.3 |
| 60° | 468.7 | 465.6 | 462.6 | 460.6 | 459.8 | 459.0 | 458.1 | 457.3 |
| 62.5° | 432.2 | 429.3 | 426.5 | 424.5 | 423.5 | 422.4 | 421.3 | 420.3 |
| 65° | 376.1 | 373.6 | 371.1 | 369.2 | 367.8 | 366.4 | 365.0 | 363.6 |
| 67.5° | 320.7 | 318.8 | 316.8 | 315.3 | 314.2 | 313.1 | 312.0 | 310.9 |
| 70° | 284.7 | 282.8 | 280.9 | 279.3 | 278.2 | 277.1 | 276.0 | 274.9 |
| 72.5° | 250.8 | 248.8 | 246.9 | 245.5 | 244.6 | 243.7 | 242.8 | 241.9 |
| 75° | 197.9 | 196.2 | 194.5 | 194.0 | 194.5 | 195.0 | 195.6 | 196.2 |
| 77.5° | 150.5 | 149.7 | 148.9 | 148.1 | 147.2 | 146.5 | 145.7 | 145.0 |
| 80° | 119.5 | 118.7 | 117.9 | 117.2 | 116.6 | 116.1 | 115.5 | 115.0 |
| 82.5° | 89.1 | 88.1 | 87.0 | 86.4 | 86.3 | 86.2 | 86.1 | 85.9 |
| 85° | 47.0 | 46.2 | 45.4 | 44.8 | 44.6 | 44.3 | 44.0 | 43.7 |
| 87.5° | 15.2 | 14.7 | 14.1 | 13.8 | 13.6 | 13.5 | 13.3 | 13.0 |
| 90° | 12.7 | 13.3 | 13.9 | 14.4 | 14.7 | 14.9 | 15.2 | 15.4 |
| 92.5° | 13.9 | 14.3 | 14.6 | 14.8 | 14.9 | 15.1 | 15.2 | 15.4 |
| 95° | 23.6 | 24.1 | 24.8 | 25.0 | 24.9 | 24.8 | 24.7 | 24.5 |
| 97.5° | 30.8 | 31.3 | 31.8 | 32.1 | 32.3 | 32.4 | 32.6 | 32.8 |
| 100° | 34.6 | 35.5 | 36.6 | 37.3 | 37.5 | 37.7 | 38.0 | 38.2 |
| 102.5° | 36.1 | 37.4 | 38.7 | 39.5 | 39.9 | 40.3 | 40.6 | 41.0 |
| 105° | 37.6 | 39.0 | 40.4 | 41.3 | 41.8 | 42.4 | 42.9 | 43.4 |
| 107.5° | 45.9 | 44.5 | 43.0 | 42.6 | 43.1 | 43.6 | 44.1 | 44.6 |
| 110° | 74.5 | 61.8 | 49.2 | 43.0 | 43.5 | 44.1 | 44.6 | 45.1 |



TEST NUMBER: P331595-930

CATALOG NUMBER: S122DIW-S1005D710U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 159.4 | 113.2 | 66.9 | 43.9 | 44.4 | 44.8 | 45.2 | 45.6 |
| 115° | 234.7 | 175.9 | 117.2 | 83.3 | 74.2 | 65.1 | 55.9 | 46.8 |
| 117.5° | 361.7 | 347.4 | 333.2 | 311.1 | 281.1 | 251.1 | 221.1 | 191.1 |
| 120° | 421.4 | 422.9 | 424.4 | 416.6 | 399.5 | 382.4 | 365.3 | 348.1 |
| 122.5° | 447.1 | 448.0 | 449.0 | 447.8 | 444.4 | 441.1 | 437.8 | 434.5 |
| 125° | 484.0 | 484.9 | 485.8 | 486.5 | 486.8 | 487.2 | 487.6 | 488.0 |
| 127.5° | 518.2 | 519.5 | 520.8 | 521.5 | 521.5 | 521.6 | 521.7 | 521.8 |
| 130° | 539.9 | 541.3 | 542.7 | 543.3 | 543.2 | 543.1 | 542.9 | 542.8 |
| 132.5° | 560.9 | 562.1 | 563.3 | 563.9 | 563.7 | 563.6 | 563.5 | 563.4 |
| 135° | 591.0 | 592.2 | 593.5 | 594.0 | 593.8 | 593.5 | 593.3 | 593.0 |
| 137.5° | 618.9 | 620.1 | 621.4 | 621.8 | 621.3 | 620.9 | 620.5 | 620.0 |
| 140° | 637.0 | 638.1 | 639.3 | 639.5 | 638.9 | 638.2 | 637.6 | 637.0 |
| 142.5° | 653.6 | 654.7 | 655.7 | 655.9 | 655.3 | 654.7 | 654.0 | 653.4 |
| 145° | 676.9 | 677.8 | 678.7 | 678.9 | 678.2 | 677.6 | 676.9 | 676.4 |
| 147.5° | 697.3 | 698.0 | 698.6 | 698.7 | 698.1 | 697.7 | 697.1 | 696.5 |
| 150° | 709.8 | 710.6 | 711.3 | 711.4 | 710.8 | 710.1 | 709.5 | 708.9 |
| 152.5° | 721.2 | 722.0 | 722.8 | 722.8 | 721.9 | 721.1 | 720.2 | 719.3 |
| 155° | 736.6 | 737.4 | 738.2 | 738.0 | 737.0 | 736.1 | 735.0 | 734.0 |
| 157.5° | 749.7 | 750.5 | 751.4 | 751.3 | 750.3 | 749.3 | 748.4 | 747.3 |
| 160° | 757.2 | 758.0 | 758.7 | 758.6 | 757.7 | 756.8 | 756.0 | 755.1 |
| 162.5° | 764.3 | 765.1 | 766.0 | 765.9 | 764.8 | 763.7 | 762.5 | 761.5 |
| 165° | 772.9 | 773.7 | 774.6 | 774.6 | 773.7 | 772.9 | 772.0 | 771.1 |
| 167.5° | 780.1 | 781.0 | 781.8 | 781.7 | 780.6 | 779.4 | 778.3 | 777.1 |
| 170° | 783.7 | 784.6 | 785.5 | 785.4 | 784.2 | 783.1 | 782.0 | 780.8 |
| 172.5° | 786.4 | 787.3 | 788.2 | 788.1 | 786.9 | 785.8 | 784.6 | 783.5 |
| 175° | 789.5 | 790.3 | 791.2 | 791.0 | 789.7 | 788.5 | 787.2 | 785.9 |
| 177.5° | 789.8 | 790.4 | 791.2 | 791.1 | 790.2 | 789.2 | 788.3 | 787.4 |
| 180° | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 |

(END OF REPORT)