

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: P331548-840

Luminaire Tested: **S122DIW-S675D1240U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331548-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S675D1240U840-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7072.7 lumens
Efficiency: N/A
Efficacy: 115.2 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: Semi-Indirect

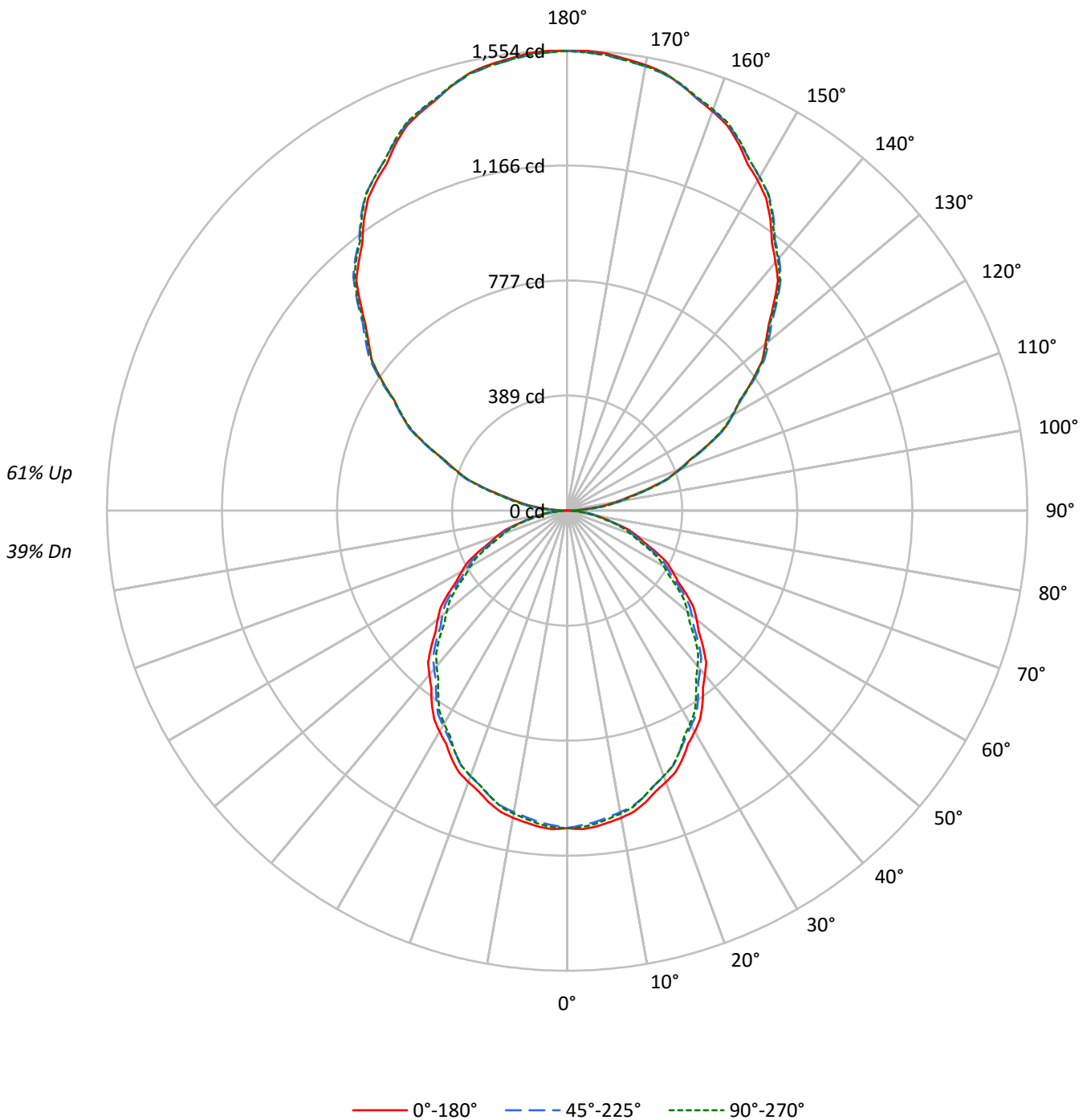
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331548-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331548-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-F1

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 | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |
| 1 | 95 | 91 | 87 | 84 | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 39 | 33 |
| 2 | 87 | 79 | 73 | 68 | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 44 | 42 | 35 | 34 | 32 | 27 |
| 3 | 79 | 70 | 63 | 57 | 72 | 64 | 57 | 52 | 52 | 48 | 44 | 41 | 38 | 36 | 31 | 29 | 28 | 23 |
| 4 | 72 | 62 | 54 | 48 | 65 | 56 | 50 | 44 | 46 | 41 | 37 | 37 | 33 | 30 | 28 | 26 | 24 | 20 |
| 5 | 66 | 55 | 47 | 41 | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 23 | 21 | 17 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |
| 7 | 56 | 44 | 36 | 31 | 51 | 41 | 34 | 29 | 34 | 28 | 25 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |
| 8 | 52 | 40 | 33 | 27 | 47 | 37 | 30 | 25 | 31 | 25 | 22 | 25 | 21 | 18 | 19 | 17 | 14 | 12 |
| 9 | 49 | 37 | 29 | 24 | 44 | 34 | 27 | 23 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10 | 45 | 33 | 26 | 22 | 41 | 31 | 25 | 20 | 26 | 21 | 17 | 21 | 17 | 15 | 16 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17312 | 17312 | 17312 |
| 5° | 17378 | 17126 | 17227 |
| 10° | 17274 | 16952 | 17038 |
| 15° | 17060 | 16732 | 16715 |
| 20° | 16756 | 16402 | 16385 |
| 25° | 16456 | 15998 | 15998 |
| 30° | 16067 | 15627 | 15491 |
| 35° | 15707 | 15179 | 14954 |
| 40° | 15253 | 14731 | 14450 |
| 45° | 14805 | 14289 | 13935 |
| 50° | 14320 | 13828 | 13335 |
| 55° | 13813 | 13292 | 12797 |
| 60° | 13249 | 12649 | 12184 |
| 65° | 12642 | 12015 | 11461 |
| 70° | 11877 | 11240 | 10707 |
| 75° | 10805 | 10356 | 10100 |
| 80° | 9586 | 9298 | 8815 |
| 85° | 7836 | 7447 | 6688 |



TEST NUMBER: P331548-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.8 | 1.4 |
| 10°-20° | 283.7 | 4.0 |
| 20°-30° | 417.0 | 5.9 |
| 30°-40° | 484.3 | 6.8 |
| 40°-50° | 483.8 | 6.8 |
| 50°-60° | 421.9 | 6.0 |
| 60°-70° | 312.0 | 4.4 |
| 70°-80° | 176.7 | 2.5 |
| 80°-90° | 53.7 | 0.8 |
| 90°-100° | 98.3 | 1.4 |
| 100°-110° | 305.4 | 4.3 |
| 110°-120° | 522.0 | 7.4 |
| 120°-130° | 686.4 | 9.7 |
| 130°-140° | 770.4 | 10.9 |
| 140°-150° | 755.4 | 10.7 |
| 150°-160° | 633.6 | 9.0 |
| 160°-170° | 420.3 | 5.9 |
| 170°-180° | 146.9 | 2.1 |
| 0°-30° | 801.5 | 11.3 |
| 0°-40° | 1285.8 | 18.2 |
| 0°-60° | 2191.5 | 31.0 |
| 0°-90° | 2733.9 | 38.7 |
| 90°-120° | 925.7 | 13.1 |
| 90°-150° | 3138.0 | 44.4 |
| 90°-180° | 4339.0 | 61.3 |
| 0°-180° | 7072.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1072 | 1072 | 1072 | 1072 | 1072 | |
| 5° | 1072 | 1068 | 1057 | 1064 | 1063 | 102 |
| 15° | 1021 | 1014 | 1001 | 1005 | 1000 | 287 |
| 25° | 924 | 915 | 898 | 900 | 898 | 425 |
| 35° | 797 | 786 | 770 | 764 | 759 | 497 |
| 45° | 648 | 641 | 626 | 615 | 610 | 500 |
| 55° | 491 | 484 | 472 | 460 | 455 | 439 |
| 65° | 331 | 324 | 314 | 305 | 300 | 327 |
| 75° | 173 | 171 | 166 | 160 | 162 | 185 |
| 85° | 42 | 41 | 40 | 37 | 36 | 48 |
| 90° | 1 | 18 | 46 | 43 | 44 | 6 |
| 95° | 68 | 81 | 84 | 84 | 81 | 78 |
| 105° | 282 | 285 | 288 | 291 | 291 | 297 |
| 115° | 524 | 531 | 529 | 528 | 524 | 518 |
| 125° | 762 | 773 | 770 | 766 | 765 | 681 |
| 135° | 986 | 1000 | 1003 | 1002 | 998 | 761 |
| 145° | 1197 | 1206 | 1214 | 1215 | 1210 | 747 |
| 155° | 1368 | 1372 | 1376 | 1382 | 1379 | 630 |
| 165° | 1489 | 1488 | 1488 | 1496 | 1490 | 420 |
| 175° | 1549 | 1545 | 1542 | 1551 | 1544 | 147 |
| 180° | 1552 | 1552 | 1552 | 1552 | 1552 | |



TEST NUMBER: P331548-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 |
| 2.5° | 1077.1 | 1076.2 | 1075.3 | 1074.4 | 1073.5 | 1072.0 | 1070.0 | 1067.9 | 1065.9 | 1063.9 | 1065.7 |
| 5° | 1072.2 | 1071.3 | 1070.4 | 1069.4 | 1068.5 | 1066.8 | 1064.3 | 1061.8 | 1059.2 | 1056.7 | 1058.5 |
| 7.5° | 1062.7 | 1061.3 | 1059.9 | 1058.4 | 1057.0 | 1055.0 | 1052.5 | 1049.9 | 1047.3 | 1044.7 | 1046.5 |
| 10° | 1053.6 | 1052.0 | 1050.4 | 1048.7 | 1047.2 | 1045.0 | 1042.3 | 1039.6 | 1036.7 | 1034.0 | 1035.8 |
| 12.5° | 1041.3 | 1039.9 | 1038.3 | 1036.9 | 1035.5 | 1033.5 | 1030.7 | 1027.9 | 1025.2 | 1022.5 | 1023.8 |
| 15° | 1020.6 | 1019.3 | 1017.8 | 1016.5 | 1015.1 | 1012.9 | 1010.0 | 1006.9 | 1004.0 | 1001.0 | 1002.0 |
| 17.5° | 994.2 | 992.8 | 991.5 | 990.1 | 988.8 | 986.5 | 983.5 | 980.5 | 977.4 | 974.4 | 975.5 |
| 20° | 975.2 | 973.9 | 972.5 | 971.1 | 969.8 | 967.5 | 964.2 | 961.1 | 957.9 | 954.6 | 955.3 |
| 22.5° | 956.2 | 954.3 | 952.4 | 950.5 | 948.6 | 946.1 | 943.1 | 940.1 | 937.1 | 934.0 | 934.1 |
| 25° | 923.7 | 921.9 | 920.1 | 918.2 | 916.4 | 913.5 | 909.6 | 905.7 | 901.8 | 898.0 | 898.4 |
| 27.5° | 886.6 | 884.9 | 883.3 | 881.6 | 880.0 | 877.7 | 874.5 | 871.5 | 868.4 | 865.4 | 864.6 |
| 30° | 861.8 | 860.0 | 858.2 | 856.4 | 854.5 | 851.9 | 848.5 | 845.1 | 841.6 | 838.2 | 837.5 |
| 32.5° | 835.5 | 833.9 | 832.5 | 831.0 | 829.6 | 827.1 | 823.4 | 819.8 | 816.2 | 812.5 | 811.3 |
| 35° | 796.9 | 794.7 | 792.3 | 790.0 | 787.7 | 784.8 | 781.1 | 777.4 | 773.8 | 770.1 | 768.7 |
| 37.5° | 753.4 | 751.3 | 749.3 | 747.3 | 745.4 | 742.5 | 738.8 | 735.2 | 731.5 | 727.8 | 726.1 |
| 40° | 723.7 | 721.9 | 720.0 | 718.2 | 716.4 | 713.7 | 709.9 | 706.3 | 702.7 | 698.9 | 696.9 |
| 42.5° | 694.9 | 693.0 | 691.2 | 689.3 | 687.5 | 684.8 | 681.1 | 677.4 | 673.8 | 670.1 | 667.8 |
| 45° | 648.4 | 646.8 | 645.2 | 643.7 | 642.1 | 639.5 | 636.1 | 632.7 | 629.2 | 625.8 | 623.3 |
| 47.5° | 602.3 | 600.8 | 599.3 | 597.7 | 596.2 | 593.7 | 590.1 | 586.5 | 583.0 | 579.4 | 576.7 |
| 50° | 570.1 | 569.0 | 567.8 | 566.6 | 565.5 | 563.3 | 560.2 | 556.9 | 553.7 | 550.5 | 547.3 |
| 52.5° | 538.8 | 537.2 | 535.7 | 534.2 | 532.7 | 530.5 | 527.5 | 524.4 | 521.4 | 518.4 | 515.7 |
| 55° | 490.7 | 489.4 | 488.0 | 486.6 | 485.2 | 483.1 | 480.4 | 477.7 | 474.9 | 472.2 | 469.4 |
| 57.5° | 442.4 | 441.4 | 440.3 | 439.2 | 438.1 | 436.1 | 433.0 | 430.0 | 427.0 | 423.9 | 421.2 |
| 60° | 410.3 | 409.4 | 408.5 | 407.6 | 406.7 | 404.6 | 401.4 | 398.2 | 395.0 | 391.7 | 389.2 |
| 62.5° | 379.0 | 377.5 | 376.1 | 374.6 | 373.1 | 371.1 | 368.7 | 366.2 | 363.8 | 361.2 | 358.9 |
| 65° | 330.9 | 329.5 | 328.2 | 326.8 | 325.4 | 323.6 | 321.3 | 319.0 | 316.7 | 314.5 | 312.4 |
| 67.5° | 282.1 | 280.9 | 279.8 | 278.7 | 277.6 | 276.1 | 274.0 | 272.0 | 269.9 | 267.8 | 266.2 |
| 70° | 251.6 | 250.6 | 249.7 | 248.8 | 247.9 | 246.4 | 244.3 | 242.3 | 240.2 | 238.1 | 236.5 |
| 72.5° | 220.3 | 219.2 | 218.3 | 217.4 | 216.5 | 215.4 | 214.1 | 212.8 | 211.5 | 210.1 | 208.5 |
| 75° | 173.2 | 172.7 | 172.3 | 171.8 | 171.4 | 170.6 | 169.5 | 168.2 | 167.1 | 166.0 | 164.6 |
| 77.5° | 131.2 | 130.4 | 129.6 | 128.8 | 128.1 | 127.4 | 126.9 | 126.4 | 126.0 | 125.5 | 124.9 |
| 80° | 103.1 | 102.9 | 102.6 | 102.4 | 102.2 | 101.8 | 101.4 | 100.9 | 100.5 | 100.0 | 99.3 |
| 82.5° | 76.7 | 76.6 | 76.6 | 76.5 | 76.5 | 76.3 | 76.0 | 75.8 | 75.5 | 75.2 | 74.4 |
| 85° | 42.3 | 42.0 | 41.8 | 41.6 | 41.3 | 41.1 | 40.9 | 40.7 | 40.4 | 40.2 | 39.5 |
| 87.5° | 15.1 | 15.5 | 15.8 | 16.1 | 16.5 | 17.1 | 18.0 | 18.9 | 19.8 | 20.7 | 20.1 |
| 90° | 1.3 | 4.8 | 8.3 | 11.8 | 15.2 | 20.2 | 26.7 | 33.0 | 39.4 | 45.8 | 45.2 |
| 92.5° | 23.3 | 25.9 | 28.5 | 31.0 | 33.5 | 35.5 | 37.1 | 38.6 | 40.1 | 41.6 | 41.7 |
| 95° | 68.1 | 71.0 | 73.9 | 76.9 | 79.8 | 81.5 | 82.1 | 82.6 | 83.2 | 83.8 | 83.8 |
| 97.5° | 124.4 | 126.9 | 129.6 | 132.1 | 134.6 | 136.4 | 137.5 | 138.7 | 139.8 | 140.9 | 140.9 |
| 100° | 166.3 | 168.6 | 171.0 | 173.3 | 175.6 | 177.2 | 178.0 | 178.9 | 179.9 | 180.7 | 180.7 |
| 102.5° | 210.3 | 212.2 | 214.0 | 215.9 | 217.7 | 219.2 | 220.4 | 221.5 | 222.6 | 223.7 | 223.9 |
| 105° | 281.6 | 282.4 | 283.3 | 284.2 | 285.0 | 285.8 | 286.3 | 286.9 | 287.5 | 288.1 | 288.6 |
| 107.5° | 353.3 | 354.6 | 355.9 | 357.1 | 358.4 | 359.0 | 359.0 | 359.0 | 359.0 | 359.0 | 359.3 |
| 110° | 399.4 | 401.1 | 402.8 | 404.7 | 406.4 | 407.3 | 407.3 | 407.3 | 407.3 | 407.3 | 407.3 |



TEST NUMBER: P331548-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 449.7 | 451.4 | 453.1 | 454.9 | 456.7 | 457.4 | 457.2 | 457.0 | 456.7 | 456.5 | 455.8 |
| 115° | 523.8 | 525.5 | 527.3 | 529.0 | 530.8 | 531.3 | 530.8 | 530.2 | 529.6 | 529.0 | 528.8 |
| 117.5° | 597.6 | 600.0 | 602.3 | 604.6 | 606.9 | 607.3 | 605.6 | 604.0 | 602.4 | 600.8 | 600.1 |
| 120° | 646.8 | 649.1 | 651.6 | 653.9 | 656.2 | 656.2 | 653.9 | 651.6 | 649.1 | 646.8 | 646.8 |
| 122.5° | 691.9 | 694.7 | 697.5 | 700.2 | 703.1 | 703.7 | 702.1 | 700.4 | 698.7 | 697.1 | 696.4 |
| 125° | 762.0 | 764.7 | 767.3 | 769.9 | 772.5 | 773.5 | 772.5 | 771.7 | 770.8 | 769.9 | 769.1 |
| 127.5° | 830.4 | 833.7 | 837.1 | 840.4 | 843.7 | 844.9 | 843.8 | 842.7 | 841.7 | 840.6 | 839.6 |
| 130° | 873.4 | 877.2 | 881.0 | 884.7 | 888.5 | 890.1 | 889.6 | 889.0 | 888.4 | 887.8 | 887.2 |
| 132.5° | 921.6 | 924.6 | 927.8 | 930.8 | 933.9 | 935.5 | 935.6 | 935.7 | 935.8 | 935.9 | 934.7 |
| 135° | 986.0 | 989.2 | 992.4 | 995.6 | 998.9 | 1000.7 | 1001.3 | 1001.9 | 1002.5 | 1003.0 | 1002.7 |
| 137.5° | 1053.8 | 1056.4 | 1059.0 | 1061.7 | 1064.3 | 1066.0 | 1066.7 | 1067.5 | 1068.2 | 1069.0 | 1068.8 |
| 140° | 1094.7 | 1097.3 | 1099.9 | 1102.6 | 1105.2 | 1107.2 | 1108.6 | 1110.1 | 1111.6 | 1113.0 | 1113.0 |
| 142.5° | 1136.6 | 1139.2 | 1141.9 | 1144.5 | 1147.1 | 1148.8 | 1149.8 | 1150.8 | 1151.9 | 1152.9 | 1153.1 |
| 145° | 1196.8 | 1198.9 | 1200.9 | 1203.0 | 1205.0 | 1206.9 | 1208.6 | 1210.3 | 1212.1 | 1213.9 | 1214.2 |
| 147.5° | 1250.5 | 1252.9 | 1255.4 | 1257.9 | 1260.3 | 1262.1 | 1263.2 | 1264.5 | 1265.6 | 1266.8 | 1267.4 |
| 150° | 1287.2 | 1288.9 | 1290.7 | 1292.4 | 1294.1 | 1295.7 | 1296.8 | 1298.0 | 1299.1 | 1300.3 | 1301.1 |
| 152.5° | 1319.7 | 1321.4 | 1323.1 | 1324.8 | 1326.7 | 1328.2 | 1329.6 | 1331.0 | 1332.4 | 1333.8 | 1334.9 |
| 155° | 1368.4 | 1369.3 | 1370.1 | 1371.0 | 1371.9 | 1372.7 | 1373.6 | 1374.4 | 1375.3 | 1376.2 | 1377.7 |
| 157.5° | 1410.0 | 1410.6 | 1411.2 | 1411.8 | 1412.3 | 1412.9 | 1413.4 | 1413.9 | 1414.4 | 1415.0 | 1416.9 |
| 160° | 1435.1 | 1435.7 | 1436.3 | 1436.9 | 1437.4 | 1437.9 | 1438.1 | 1438.5 | 1438.8 | 1439.1 | 1440.8 |
| 162.5° | 1458.1 | 1458.3 | 1458.4 | 1458.5 | 1458.6 | 1458.9 | 1459.2 | 1459.5 | 1459.8 | 1460.1 | 1462.0 |
| 165° | 1488.8 | 1488.5 | 1488.2 | 1487.9 | 1487.6 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1489.6 |
| 167.5° | 1514.5 | 1513.6 | 1512.8 | 1511.9 | 1511.0 | 1510.6 | 1510.5 | 1510.5 | 1510.4 | 1510.3 | 1512.4 |
| 170° | 1528.1 | 1527.2 | 1526.4 | 1525.5 | 1524.6 | 1524.1 | 1523.8 | 1523.5 | 1523.2 | 1522.9 | 1524.9 |
| 172.5° | 1537.5 | 1536.7 | 1535.8 | 1534.9 | 1534.1 | 1533.5 | 1533.2 | 1532.9 | 1532.6 | 1532.3 | 1534.4 |
| 175° | 1549.0 | 1548.2 | 1547.3 | 1546.4 | 1545.6 | 1544.9 | 1544.3 | 1543.7 | 1543.1 | 1542.5 | 1544.6 |
| 177.5° | 1553.8 | 1553.1 | 1552.4 | 1551.7 | 1551.0 | 1550.4 | 1549.9 | 1549.4 | 1549.0 | 1548.5 | 1549.9 |
| 180° | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 |



TEST NUMBER: P331548-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 | 1072.2 |
| 2.5° | 1067.5 | 1069.4 | 1071.3 | 1072.0 | 1071.6 | 1071.3 | 1070.9 | 1070.6 |
| 5° | 1060.4 | 1062.2 | 1064.0 | 1064.7 | 1064.3 | 1063.8 | 1063.4 | 1062.9 |
| 7.5° | 1048.4 | 1050.3 | 1052.1 | 1052.7 | 1052.2 | 1051.8 | 1051.3 | 1050.8 |
| 10° | 1037.6 | 1039.6 | 1041.4 | 1041.9 | 1041.3 | 1040.6 | 1039.9 | 1039.2 |
| 12.5° | 1025.0 | 1026.3 | 1027.6 | 1027.9 | 1027.4 | 1027.0 | 1026.5 | 1026.0 |
| 15° | 1002.9 | 1003.8 | 1004.7 | 1004.6 | 1003.4 | 1002.3 | 1001.2 | 1000.0 |
| 17.5° | 976.5 | 977.5 | 978.7 | 978.7 | 977.5 | 976.4 | 975.3 | 974.2 |
| 20° | 956.0 | 956.7 | 957.4 | 957.3 | 956.3 | 955.4 | 954.5 | 953.6 |
| 22.5° | 934.3 | 934.4 | 934.5 | 934.3 | 933.8 | 933.2 | 932.7 | 932.2 |
| 25° | 898.9 | 899.3 | 899.8 | 899.8 | 899.3 | 898.9 | 898.4 | 898.0 |
| 27.5° | 863.9 | 863.3 | 862.6 | 861.7 | 860.6 | 859.5 | 858.4 | 857.3 |
| 30° | 836.8 | 836.1 | 835.4 | 834.6 | 833.6 | 832.7 | 831.8 | 830.9 |
| 32.5° | 810.1 | 808.9 | 807.6 | 806.6 | 805.7 | 804.8 | 803.8 | 802.8 |
| 35° | 767.4 | 766.0 | 764.6 | 763.4 | 762.2 | 761.0 | 759.9 | 758.7 |
| 37.5° | 724.5 | 722.8 | 721.0 | 719.6 | 718.5 | 717.4 | 716.4 | 715.3 |
| 40° | 694.9 | 692.8 | 690.7 | 689.2 | 688.3 | 687.4 | 686.5 | 685.6 |
| 42.5° | 665.6 | 663.4 | 661.2 | 659.3 | 658.0 | 656.8 | 655.5 | 654.2 |
| 45° | 620.8 | 618.2 | 615.7 | 614.0 | 613.1 | 612.2 | 611.3 | 610.3 |
| 47.5° | 574.1 | 571.4 | 568.8 | 566.7 | 565.4 | 564.1 | 562.8 | 561.5 |
| 50° | 544.1 | 540.9 | 537.7 | 535.5 | 534.3 | 533.2 | 532.1 | 530.9 |
| 52.5° | 513.0 | 510.4 | 507.8 | 505.6 | 504.1 | 502.6 | 501.1 | 499.6 |
| 55° | 466.7 | 463.9 | 461.2 | 459.2 | 458.1 | 457.0 | 455.8 | 454.6 |
| 57.5° | 418.5 | 415.8 | 413.1 | 411.3 | 410.4 | 409.6 | 408.7 | 407.8 |
| 60° | 386.7 | 384.2 | 381.6 | 380.1 | 379.4 | 378.7 | 378.0 | 377.3 |
| 62.5° | 356.6 | 354.3 | 351.9 | 350.3 | 349.4 | 348.5 | 347.7 | 346.8 |
| 65° | 310.3 | 308.2 | 306.2 | 304.6 | 303.5 | 302.3 | 301.1 | 300.0 |
| 67.5° | 264.6 | 263.1 | 261.5 | 260.1 | 259.2 | 258.3 | 257.4 | 256.5 |
| 70° | 234.9 | 233.4 | 231.8 | 230.5 | 229.5 | 228.6 | 227.7 | 226.8 |
| 72.5° | 206.9 | 205.3 | 203.7 | 202.5 | 201.8 | 201.1 | 200.4 | 199.5 |
| 75° | 163.2 | 161.9 | 160.5 | 160.1 | 160.5 | 161.0 | 161.4 | 161.9 |
| 77.5° | 124.2 | 123.5 | 122.8 | 122.2 | 121.5 | 120.9 | 120.3 | 119.6 |
| 80° | 98.7 | 98.0 | 97.3 | 96.6 | 96.2 | 95.7 | 95.3 | 94.8 |
| 82.5° | 73.5 | 72.6 | 71.8 | 71.3 | 71.2 | 71.1 | 71.0 | 70.9 |
| 85° | 38.9 | 38.2 | 37.5 | 37.0 | 36.8 | 36.6 | 36.4 | 36.1 |
| 87.5° | 19.4 | 18.7 | 18.1 | 17.7 | 17.6 | 17.4 | 17.3 | 17.2 |
| 90° | 44.6 | 44.1 | 43.5 | 43.3 | 43.6 | 43.9 | 44.2 | 44.5 |
| 92.5° | 41.9 | 42.0 | 42.1 | 42.2 | 42.2 | 42.3 | 42.4 | 42.4 |
| 95° | 83.8 | 83.8 | 83.8 | 83.5 | 82.9 | 82.3 | 81.8 | 81.2 |
| 97.5° | 140.9 | 140.9 | 140.9 | 140.9 | 140.8 | 140.8 | 140.7 | 140.7 |
| 100° | 180.7 | 180.7 | 180.7 | 180.6 | 180.3 | 180.0 | 179.7 | 179.4 |
| 102.5° | 224.1 | 224.4 | 224.6 | 224.6 | 224.3 | 224.0 | 223.7 | 223.4 |
| 105° | 289.2 | 289.8 | 290.4 | 290.7 | 290.7 | 290.7 | 290.7 | 290.7 |
| 107.5° | 359.5 | 359.7 | 360.0 | 359.4 | 358.1 | 356.8 | 355.4 | 354.1 |
| 110° | 407.3 | 407.3 | 407.3 | 406.8 | 406.0 | 405.1 | 404.1 | 403.3 |



TEST NUMBER: P331548-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 455.0 | 454.3 | 453.6 | 453.0 | 452.3 | 451.7 | 451.1 | 450.4 |
| 115° | 528.5 | 528.2 | 527.9 | 527.3 | 526.4 | 525.5 | 524.6 | 523.8 |
| 117.5° | 599.4 | 598.6 | 597.9 | 597.2 | 596.3 | 595.4 | 594.6 | 593.7 |
| 120° | 646.8 | 646.8 | 646.8 | 646.4 | 645.5 | 644.7 | 643.8 | 643.0 |
| 122.5° | 695.8 | 695.1 | 694.4 | 693.7 | 693.1 | 692.4 | 691.8 | 691.2 |
| 125° | 768.2 | 767.3 | 766.5 | 765.9 | 765.6 | 765.3 | 765.0 | 764.7 |
| 127.5° | 838.6 | 837.5 | 836.5 | 835.5 | 834.6 | 833.6 | 832.7 | 831.7 |
| 130° | 886.7 | 886.1 | 885.4 | 884.6 | 883.4 | 882.3 | 881.1 | 879.9 |
| 132.5° | 933.4 | 932.1 | 930.9 | 929.8 | 928.9 | 927.9 | 927.0 | 926.0 |
| 135° | 1002.5 | 1002.2 | 1001.9 | 1001.3 | 1000.4 | 999.6 | 998.7 | 997.7 |
| 137.5° | 1068.5 | 1068.3 | 1068.1 | 1067.4 | 1066.2 | 1065.1 | 1063.9 | 1062.8 |
| 140° | 1113.0 | 1113.0 | 1113.0 | 1112.5 | 1111.3 | 1110.1 | 1108.9 | 1107.8 |
| 142.5° | 1153.3 | 1153.6 | 1153.8 | 1153.3 | 1152.2 | 1150.9 | 1149.8 | 1148.6 |
| 145° | 1214.5 | 1214.8 | 1215.0 | 1214.6 | 1213.5 | 1212.2 | 1211.1 | 1209.9 |
| 147.5° | 1268.0 | 1268.7 | 1269.3 | 1269.1 | 1268.0 | 1266.9 | 1265.8 | 1264.7 |
| 150° | 1302.0 | 1302.9 | 1303.7 | 1303.7 | 1302.9 | 1302.0 | 1301.1 | 1300.3 |
| 152.5° | 1336.1 | 1337.1 | 1338.2 | 1338.2 | 1337.1 | 1336.1 | 1334.9 | 1333.8 |
| 155° | 1379.2 | 1380.6 | 1382.0 | 1382.3 | 1381.5 | 1380.6 | 1379.7 | 1378.9 |
| 157.5° | 1419.0 | 1420.9 | 1422.9 | 1423.2 | 1421.8 | 1420.4 | 1419.0 | 1417.5 |
| 160° | 1442.6 | 1444.3 | 1446.0 | 1446.3 | 1445.2 | 1444.0 | 1442.9 | 1441.7 |
| 162.5° | 1464.0 | 1465.9 | 1467.9 | 1468.2 | 1466.8 | 1465.4 | 1464.0 | 1462.7 |
| 165° | 1491.6 | 1493.6 | 1495.7 | 1495.9 | 1494.5 | 1493.1 | 1491.6 | 1490.2 |
| 167.5° | 1514.4 | 1516.4 | 1518.4 | 1518.7 | 1517.2 | 1515.7 | 1514.2 | 1512.7 |
| 170° | 1526.9 | 1528.9 | 1531.1 | 1531.2 | 1529.4 | 1527.7 | 1525.9 | 1524.2 |
| 172.5° | 1536.4 | 1538.4 | 1540.4 | 1540.5 | 1538.8 | 1537.1 | 1535.4 | 1533.6 |
| 175° | 1546.6 | 1548.6 | 1550.6 | 1550.8 | 1549.0 | 1547.3 | 1545.6 | 1543.8 |
| 177.5° | 1551.4 | 1552.8 | 1554.1 | 1554.1 | 1552.8 | 1551.4 | 1549.9 | 1548.5 |
| 180° | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 |

(END OF REPORT)