

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: P331545

Luminaire Tested: **S122DIW-S675D1240U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331545
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-S675D1240U835-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7645.7 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

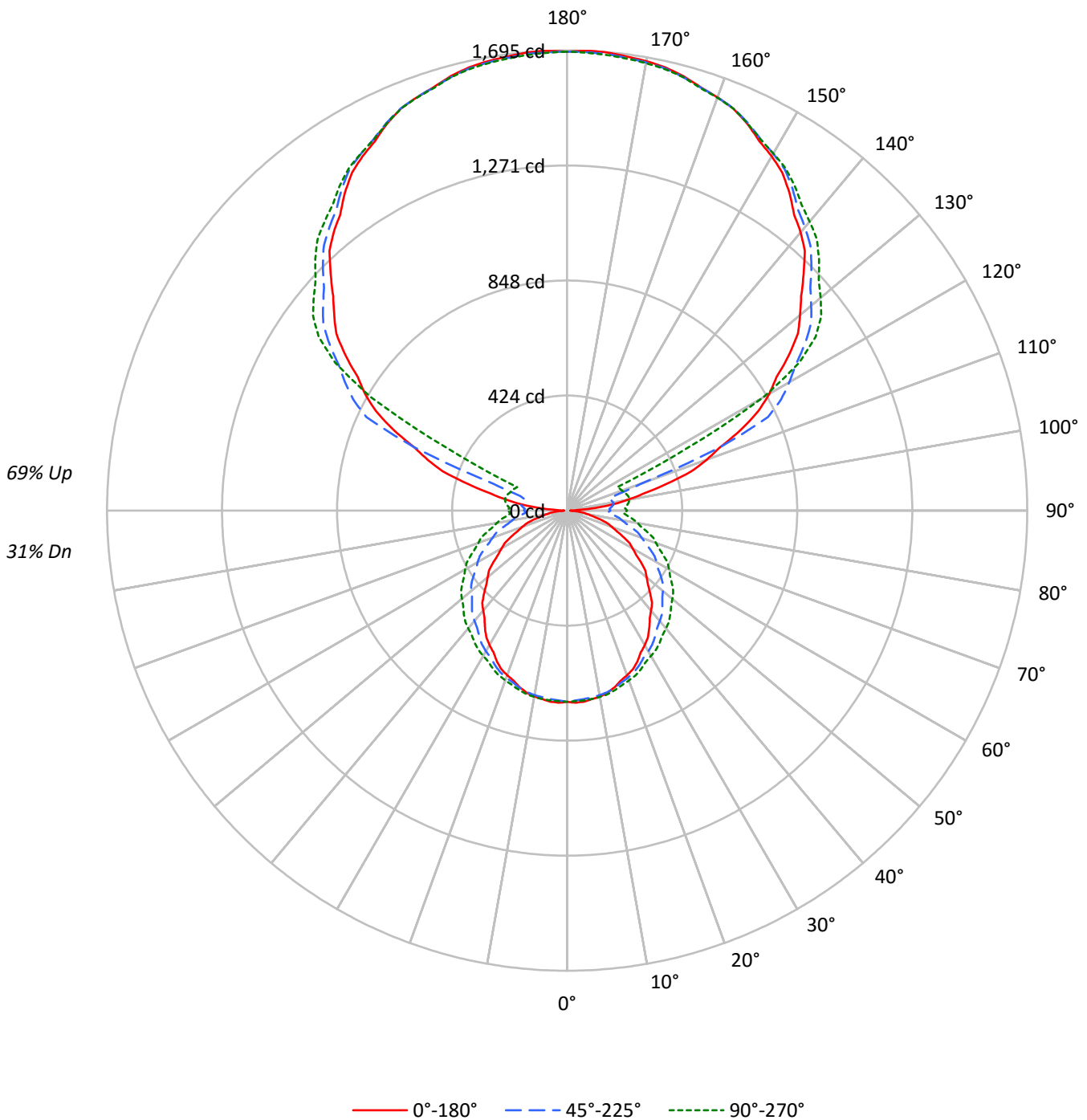
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331545

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331545

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-D

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 | | | | |
| 1 | 93 | 88 | 84 | 80 | 83 | 79 | 76 | 72 | 62 | 60 | 58 | 47 | 45 | 44 | 33 | 32 | 31 | 24 | | | | |
| 2 | 84 | 76 | 70 | 65 | 75 | 69 | 63 | 59 | 54 | 50 | 47 | 41 | 38 | 36 | 28 | 27 | 25 | 20 | | | | |
| 3 | 76 | 67 | 59 | 53 | 68 | 60 | 54 | 48 | 47 | 43 | 39 | 36 | 33 | 30 | 25 | 23 | 21 | 16 | | | | |
| 4 | 70 | 59 | 51 | 45 | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 32 | 28 | 25 | 22 | 20 | 18 | 14 | | | | |
| 5 | 64 | 52 | 44 | 38 | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 25 | 22 | 20 | 17 | 15 | 12 | | | | |
| 6 | 58 | 46 | 38 | 33 | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 22 | 19 | 18 | 15 | 13 | 10 | | | | |
| 7 | 54 | 42 | 34 | 28 | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 23 | 19 | 16 | 16 | 14 | 12 | 9 | | | | |
| 8 | 50 | 38 | 30 | 25 | 45 | 34 | 27 | 23 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 12 | 11 | 8 | | | | |
| 9 | 46 | 34 | 27 | 22 | 41 | 31 | 25 | 20 | 25 | 20 | 16 | 19 | 15 | 13 | 14 | 11 | 9 | 7 | | | | |
| 10 | 43 | 31 | 24 | 19 | 39 | 28 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 10 | 8 | 6 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11373 | 11373 | 11373 |
| 5° | 11428 | 10947 | 10905 |
| 10° | 11356 | 10624 | 10504 |
| 15° | 11200 | 10282 | 10083 |
| 20° | 11002 | 9915 | 9676 |
| 25° | 10807 | 9560 | 9307 |
| 30° | 10532 | 9197 | 8935 |
| 35° | 10254 | 8846 | 8673 |
| 40° | 9960 | 8547 | 8413 |
| 45° | 9681 | 8279 | 8190 |
| 50° | 9382 | 8037 | 7969 |
| 55° | 9070 | 7777 | 7745 |
| 60° | 8686 | 7508 | 7509 |
| 65° | 8287 | 7191 | 7227 |
| 70° | 7841 | 6852 | 6923 |
| 75° | 7270 | 6518 | 6643 |
| 80° | 6370 | 6177 | 6361 |
| 85° | 5506 | 5882 | 6138 |



TEST NUMBER: P331545

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.7 | 0.9 |
| 10°-20° | 191.4 | 2.5 |
| 20°-30° | 290.0 | 3.8 |
| 30°-40° | 353.3 | 4.6 |
| 40°-50° | 380.0 | 5.0 |
| 50°-60° | 369.1 | 4.8 |
| 60°-70° | 322.3 | 4.2 |
| 70°-80° | 248.1 | 3.2 |
| 80°-90° | 170.7 | 2.2 |
| 90°-100° | 171.1 | 2.2 |
| 100°-110° | 290.6 | 3.8 |
| 110°-120° | 608.1 | 8.0 |
| 120°-130° | 943.4 | 12.3 |
| 130°-140° | 983.4 | 12.9 |
| 140°-150° | 904.2 | 11.8 |
| 150°-160° | 725.2 | 9.5 |
| 160°-170° | 467.3 | 6.1 |
| 170°-180° | 160.9 | 2.1 |
| 0°-30° | 548.2 | 7.2 |
| 0°-40° | 901.4 | 11.8 |
| 0°-60° | 1650.6 | 21.6 |
| 0°-90° | 2391.6 | 31.3 |
| 90°-120° | 1069.8 | 14.0 |
| 90°-150° | 3900.7 | 51.0 |
| 90°-180° | 5254.0 | 68.7 |
| 0°-180° | 7645.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 704 | 704 | 704 | 704 | 704 | |
| 5° | 706 | 703 | 697 | 703 | 702 | 67 |
| 15° | 674 | 676 | 676 | 684 | 684 | 190 |
| 25° | 612 | 620 | 629 | 641 | 644 | 281 |
| 35° | 528 | 545 | 564 | 586 | 594 | 330 |
| 45° | 433 | 461 | 496 | 527 | 538 | 334 |
| 55° | 332 | 369 | 422 | 457 | 472 | 297 |
| 65° | 227 | 277 | 337 | 377 | 392 | 225 |
| 75° | 126 | 183 | 248 | 290 | 305 | 133 |
| 85° | 37 | 100 | 165 | 207 | 222 | 40 |
| 90° | 11 | 84 | 159 | 204 | 221 | 11 |
| 95° | 88 | 99 | 165 | 208 | 221 | 104 |
| 105° | 377 | 424 | 162 | 210 | 228 | 403 |
| 115° | 708 | 742 | 816 | 306 | 203 | 696 |
| 125° | 997 | 1015 | 1068 | 1103 | 1117 | 889 |
| 135° | 1232 | 1251 | 1272 | 1304 | 1312 | 951 |
| 145° | 1428 | 1428 | 1447 | 1461 | 1461 | 893 |
| 155° | 1572 | 1562 | 1576 | 1582 | 1573 | 724 |
| 165° | 1656 | 1650 | 1653 | 1660 | 1653 | 468 |
| 175° | 1694 | 1686 | 1688 | 1696 | 1684 | 161 |
| 180° | 1690 | 1690 | 1690 | 1690 | 1690 | |



TEST NUMBER: P331545

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 |
| 2.5° | 708.5 | 707.9 | 707.4 | 706.8 | 706.3 | 705.4 | 704.1 | 702.8 | 701.6 | 700.3 | 701.2 |
| 5° | 706.4 | 705.7 | 705.1 | 704.4 | 703.7 | 702.7 | 701.3 | 700.0 | 698.6 | 697.2 | 698.6 |
| 7.5° | 700.1 | 699.6 | 699.2 | 698.7 | 698.3 | 697.5 | 696.5 | 695.4 | 694.4 | 693.4 | 695.0 |
| 10° | 695.2 | 694.7 | 694.3 | 693.8 | 693.4 | 692.8 | 692.1 | 691.5 | 690.8 | 690.1 | 691.9 |
| 12.5° | 687.0 | 687.1 | 687.2 | 687.3 | 687.4 | 687.2 | 686.7 | 686.2 | 685.7 | 685.2 | 687.0 |
| 15° | 673.8 | 674.2 | 674.7 | 675.1 | 675.6 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 677.8 |
| 17.5° | 656.6 | 657.6 | 658.5 | 659.5 | 660.4 | 661.3 | 662.0 | 662.7 | 663.4 | 664.2 | 666.3 |
| 20° | 645.2 | 646.3 | 647.4 | 648.6 | 649.7 | 650.7 | 651.6 | 652.6 | 653.5 | 654.4 | 656.9 |
| 22.5° | 632.9 | 634.2 | 635.6 | 636.9 | 638.2 | 639.5 | 640.8 | 642.0 | 643.3 | 644.6 | 647.1 |
| 25° | 612.5 | 614.1 | 615.7 | 617.3 | 618.9 | 620.7 | 622.7 | 624.8 | 626.8 | 628.8 | 631.6 |
| 27.5° | 588.0 | 590.6 | 593.2 | 595.8 | 598.4 | 600.9 | 603.3 | 605.7 | 608.1 | 610.5 | 613.9 |
| 30° | 571.7 | 574.6 | 577.6 | 580.5 | 583.5 | 586.4 | 589.4 | 592.3 | 595.3 | 598.2 | 601.8 |
| 32.5° | 553.7 | 557.0 | 560.3 | 563.6 | 567.0 | 570.4 | 573.9 | 577.3 | 580.8 | 584.3 | 588.5 |
| 35° | 527.8 | 531.6 | 535.5 | 539.3 | 543.2 | 547.3 | 551.6 | 555.9 | 560.2 | 564.5 | 569.5 |
| 37.5° | 499.6 | 504.1 | 508.5 | 512.9 | 517.4 | 522.4 | 528.0 | 533.6 | 539.1 | 544.7 | 550.3 |
| 40° | 480.8 | 485.8 | 490.8 | 495.8 | 500.8 | 506.3 | 512.5 | 518.6 | 524.7 | 530.8 | 536.7 |
| 42.5° | 462.9 | 467.8 | 472.8 | 477.8 | 482.8 | 488.8 | 495.9 | 502.9 | 509.9 | 517.0 | 523.4 |
| 45° | 432.8 | 439.0 | 445.1 | 451.2 | 457.3 | 464.4 | 472.3 | 480.3 | 488.2 | 496.1 | 503.2 |
| 47.5° | 403.2 | 409.9 | 416.6 | 423.2 | 429.9 | 437.9 | 447.2 | 456.5 | 465.8 | 475.1 | 482.5 |
| 50° | 382.8 | 389.9 | 396.9 | 403.9 | 410.9 | 419.6 | 429.8 | 440.0 | 450.2 | 460.4 | 468.1 |
| 52.5° | 363.2 | 370.6 | 378.0 | 385.4 | 392.8 | 401.9 | 412.6 | 423.4 | 434.1 | 444.9 | 452.8 |
| 55° | 331.8 | 339.9 | 348.1 | 356.3 | 364.4 | 374.4 | 386.2 | 398.0 | 409.8 | 421.6 | 429.8 |
| 57.5° | 300.7 | 310.0 | 319.2 | 328.4 | 337.6 | 348.2 | 360.2 | 372.2 | 384.3 | 396.3 | 405.1 |
| 60° | 278.7 | 288.4 | 298.2 | 308.0 | 317.7 | 329.1 | 342.0 | 354.9 | 367.8 | 380.8 | 389.4 |
| 62.5° | 259.1 | 269.2 | 279.3 | 289.4 | 299.6 | 311.1 | 324.0 | 336.9 | 349.9 | 362.8 | 372.0 |
| 65° | 226.6 | 237.7 | 248.9 | 260.0 | 271.1 | 283.3 | 296.7 | 310.1 | 323.5 | 336.9 | 346.2 |
| 67.5° | 196.8 | 208.4 | 220.1 | 231.7 | 243.3 | 255.9 | 269.6 | 283.3 | 297.0 | 310.7 | 320.1 |
| 70° | 175.6 | 187.4 | 199.2 | 211.0 | 222.8 | 235.7 | 249.8 | 263.8 | 277.9 | 292.0 | 301.7 |
| 72.5° | 156.0 | 168.1 | 180.3 | 192.5 | 204.6 | 217.8 | 232.1 | 246.3 | 260.6 | 274.8 | 284.4 |
| 75° | 125.6 | 138.3 | 151.0 | 163.7 | 176.4 | 190.0 | 204.5 | 219.0 | 233.5 | 248.1 | 257.8 |
| 77.5° | 96.2 | 109.5 | 122.8 | 136.0 | 149.3 | 163.4 | 178.1 | 192.9 | 207.6 | 222.3 | 232.1 |
| 80° | 76.6 | 90.4 | 104.2 | 118.1 | 131.9 | 146.2 | 161.0 | 175.7 | 190.4 | 205.2 | 214.7 |
| 82.5° | 60.2 | 73.9 | 87.5 | 101.2 | 114.9 | 129.1 | 144.1 | 159.0 | 173.9 | 188.9 | 198.4 |
| 85° | 36.8 | 50.8 | 64.9 | 78.9 | 93.0 | 107.3 | 121.8 | 136.3 | 150.9 | 165.4 | 174.9 |
| 87.5° | 20.3 | 34.4 | 48.5 | 62.6 | 76.7 | 91.3 | 106.2 | 121.2 | 136.1 | 151.1 | 160.6 |
| 90° | 11.4 | 27.6 | 43.7 | 59.9 | 76.0 | 92.4 | 109.1 | 125.8 | 142.5 | 159.2 | 169.7 |
| 92.5° | 34.1 | 46.1 | 58.1 | 70.0 | 82.0 | 95.5 | 110.6 | 125.7 | 140.7 | 155.8 | 165.4 |
| 95° | 87.7 | 89.4 | 91.1 | 92.8 | 94.4 | 103.0 | 118.6 | 134.1 | 149.6 | 165.1 | 175.1 |
| 97.5° | 164.9 | 149.1 | 133.4 | 117.6 | 101.8 | 102.6 | 120.1 | 137.5 | 155.0 | 172.5 | 182.0 |
| 100° | 223.7 | 194.8 | 166.0 | 137.1 | 108.3 | 102.5 | 119.8 | 137.2 | 154.5 | 171.8 | 182.4 |
| 102.5° | 287.4 | 287.2 | 287.0 | 286.8 | 286.6 | 273.3 | 247.0 | 220.7 | 194.4 | 168.1 | 179.1 |
| 105° | 377.0 | 391.7 | 406.4 | 421.2 | 435.9 | 412.1 | 349.7 | 287.2 | 224.8 | 162.4 | 173.3 |
| 107.5° | 480.3 | 492.1 | 503.9 | 515.8 | 527.6 | 494.7 | 417.0 | 339.3 | 261.6 | 183.9 | 188.5 |
| 110° | 546.0 | 556.2 | 566.5 | 576.7 | 587.0 | 558.4 | 490.9 | 423.5 | 356.0 | 288.6 | 268.7 |



TEST NUMBER: P331545

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 608.6 | 617.5 | 626.4 | 635.2 | 644.1 | 644.1 | 635.3 | 626.4 | 617.6 | 608.8 | 516.8 |
| 115° | 707.5 | 714.6 | 721.7 | 728.8 | 735.9 | 748.0 | 765.0 | 782.0 | 799.0 | 816.0 | 696.9 |
| 117.5° | 794.8 | 801.6 | 808.4 | 815.2 | 821.9 | 832.4 | 846.5 | 860.6 | 874.7 | 888.9 | 865.1 |
| 120° | 859.3 | 864.3 | 869.3 | 874.3 | 879.3 | 888.8 | 902.7 | 916.7 | 930.7 | 944.6 | 954.2 |
| 122.5° | 914.1 | 918.8 | 923.5 | 928.1 | 932.8 | 942.0 | 955.9 | 969.8 | 983.6 | 997.5 | 1005.6 |
| 125° | 996.6 | 1000.1 | 1003.6 | 1007.2 | 1010.7 | 1018.7 | 1031.1 | 1043.5 | 1055.9 | 1068.4 | 1076.4 |
| 127.5° | 1072.1 | 1075.8 | 1079.5 | 1083.2 | 1086.9 | 1093.6 | 1103.3 | 1113.0 | 1122.7 | 1132.5 | 1140.9 |
| 130° | 1120.1 | 1124.2 | 1128.3 | 1132.5 | 1136.6 | 1142.5 | 1150.3 | 1158.0 | 1165.8 | 1173.5 | 1182.0 |
| 132.5° | 1169.0 | 1172.5 | 1176.0 | 1179.4 | 1182.9 | 1188.0 | 1194.6 | 1201.3 | 1208.0 | 1214.6 | 1222.5 |
| 135° | 1231.6 | 1236.0 | 1240.3 | 1244.7 | 1249.0 | 1253.5 | 1258.3 | 1263.0 | 1267.7 | 1272.4 | 1279.9 |
| 137.5° | 1296.0 | 1299.0 | 1302.0 | 1305.0 | 1308.0 | 1311.3 | 1315.1 | 1318.9 | 1322.7 | 1326.4 | 1333.3 |
| 140° | 1338.0 | 1340.0 | 1341.9 | 1343.9 | 1345.8 | 1348.5 | 1352.0 | 1355.4 | 1358.9 | 1362.3 | 1368.4 |
| 142.5° | 1373.3 | 1375.0 | 1376.7 | 1378.5 | 1380.2 | 1382.8 | 1386.3 | 1389.8 | 1393.4 | 1396.9 | 1402.0 |
| 145° | 1427.5 | 1427.3 | 1427.0 | 1426.7 | 1426.5 | 1428.6 | 1433.3 | 1437.9 | 1442.5 | 1447.1 | 1450.4 |
| 147.5° | 1475.7 | 1474.7 | 1473.7 | 1472.6 | 1471.6 | 1473.4 | 1477.9 | 1482.5 | 1487.1 | 1491.6 | 1493.2 |
| 150° | 1507.1 | 1505.2 | 1503.3 | 1501.3 | 1499.4 | 1500.7 | 1505.0 | 1509.4 | 1513.7 | 1518.1 | 1519.7 |
| 152.5° | 1533.5 | 1531.4 | 1529.2 | 1527.1 | 1525.0 | 1526.0 | 1530.1 | 1534.3 | 1538.4 | 1542.5 | 1544.2 |
| 155° | 1571.9 | 1569.4 | 1567.0 | 1564.5 | 1562.1 | 1562.5 | 1565.8 | 1569.0 | 1572.3 | 1575.6 | 1577.2 |
| 157.5° | 1602.0 | 1599.9 | 1597.8 | 1595.8 | 1593.7 | 1593.8 | 1596.1 | 1598.4 | 1600.7 | 1603.0 | 1604.8 |
| 160° | 1619.6 | 1618.0 | 1616.3 | 1614.7 | 1613.1 | 1613.1 | 1614.7 | 1616.3 | 1618.0 | 1619.6 | 1621.2 |
| 162.5° | 1635.3 | 1633.6 | 1632.0 | 1630.4 | 1628.7 | 1628.6 | 1630.0 | 1631.4 | 1632.9 | 1634.3 | 1636.1 |
| 165° | 1656.3 | 1654.7 | 1653.0 | 1651.4 | 1649.8 | 1649.4 | 1650.2 | 1651.0 | 1651.8 | 1652.6 | 1654.5 |
| 167.5° | 1672.0 | 1670.3 | 1668.7 | 1667.1 | 1665.4 | 1665.0 | 1665.8 | 1666.5 | 1667.3 | 1668.0 | 1669.9 |
| 170° | 1680.8 | 1679.1 | 1677.5 | 1675.9 | 1674.2 | 1673.7 | 1674.2 | 1674.8 | 1675.3 | 1675.9 | 1677.8 |
| 172.5° | 1686.6 | 1685.0 | 1683.4 | 1681.7 | 1680.1 | 1679.6 | 1680.1 | 1680.6 | 1681.2 | 1681.7 | 1683.6 |
| 175° | 1694.2 | 1692.3 | 1690.4 | 1688.5 | 1686.6 | 1685.9 | 1686.5 | 1687.0 | 1687.6 | 1688.1 | 1690.0 |
| 177.5° | 1695.4 | 1693.9 | 1692.4 | 1690.9 | 1689.3 | 1688.7 | 1688.9 | 1689.1 | 1689.3 | 1689.6 | 1691.1 |
| 180° | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 |



TEST NUMBER: P331545

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 |
| 2.5° | 702.1 | 703.0 | 703.9 | 704.2 | 703.8 | 703.5 | 703.1 | 702.8 |
| 5° | 700.0 | 701.3 | 702.7 | 703.3 | 703.0 | 702.8 | 702.6 | 702.3 |
| 7.5° | 696.6 | 698.3 | 699.9 | 700.6 | 700.4 | 700.1 | 699.9 | 699.7 |
| 10° | 693.7 | 695.5 | 697.4 | 698.1 | 697.9 | 697.7 | 697.5 | 697.2 |
| 12.5° | 688.8 | 690.6 | 692.5 | 693.2 | 693.0 | 692.8 | 692.6 | 692.3 |
| 15° | 679.9 | 681.9 | 684.0 | 684.9 | 684.7 | 684.4 | 684.2 | 684.0 |
| 17.5° | 668.4 | 670.6 | 672.7 | 673.8 | 673.8 | 673.8 | 673.8 | 673.8 |
| 20° | 659.4 | 661.9 | 664.3 | 665.6 | 665.6 | 665.6 | 665.6 | 665.6 |
| 22.5° | 649.6 | 652.1 | 654.5 | 656.0 | 656.3 | 656.7 | 657.1 | 657.4 |
| 25° | 634.3 | 637.0 | 639.7 | 641.4 | 642.1 | 642.8 | 643.5 | 644.2 |
| 27.5° | 617.4 | 620.8 | 624.3 | 626.2 | 626.7 | 627.2 | 627.7 | 628.2 |
| 30° | 605.5 | 609.1 | 612.7 | 614.9 | 615.6 | 616.3 | 616.9 | 617.6 |
| 32.5° | 592.7 | 596.9 | 601.0 | 603.7 | 605.0 | 606.2 | 607.4 | 608.6 |
| 35° | 574.5 | 579.5 | 584.5 | 587.8 | 589.4 | 591.0 | 592.5 | 594.1 |
| 37.5° | 555.8 | 561.3 | 566.9 | 570.5 | 572.2 | 573.8 | 575.5 | 577.2 |
| 40° | 542.6 | 548.5 | 554.4 | 558.4 | 560.4 | 562.5 | 564.5 | 566.6 |
| 42.5° | 529.8 | 536.3 | 542.7 | 547.0 | 549.0 | 551.1 | 553.1 | 555.1 |
| 45° | 510.2 | 517.2 | 524.3 | 528.9 | 531.2 | 533.5 | 535.7 | 538.0 |
| 47.5° | 489.8 | 497.2 | 504.5 | 509.4 | 511.9 | 514.4 | 516.9 | 519.4 |
| 50° | 475.8 | 483.5 | 491.3 | 496.4 | 498.9 | 501.4 | 503.8 | 506.3 |
| 52.5° | 460.7 | 468.6 | 476.5 | 481.8 | 484.4 | 487.1 | 489.8 | 492.5 |
| 55° | 437.9 | 446.1 | 454.3 | 459.8 | 462.8 | 465.7 | 468.7 | 471.6 |
| 57.5° | 413.9 | 422.7 | 431.5 | 437.4 | 440.4 | 443.4 | 446.4 | 449.4 |
| 60° | 398.0 | 406.6 | 415.3 | 421.2 | 424.3 | 427.5 | 430.7 | 433.9 |
| 62.5° | 381.1 | 390.3 | 399.5 | 405.6 | 408.5 | 411.5 | 414.5 | 417.5 |
| 65° | 355.5 | 364.8 | 374.1 | 380.2 | 383.2 | 386.1 | 389.1 | 392.0 |
| 67.5° | 329.5 | 338.9 | 348.3 | 354.6 | 357.6 | 360.7 | 363.8 | 366.9 |
| 70° | 311.5 | 321.2 | 331.0 | 337.2 | 339.9 | 342.7 | 345.4 | 348.1 |
| 72.5° | 294.0 | 303.5 | 313.1 | 319.5 | 322.8 | 326.1 | 329.3 | 332.6 |
| 75° | 267.6 | 277.3 | 287.1 | 293.4 | 296.4 | 299.3 | 302.3 | 305.2 |
| 77.5° | 241.8 | 251.5 | 261.2 | 267.6 | 270.8 | 274.0 | 277.1 | 280.3 |
| 80° | 224.2 | 233.8 | 243.3 | 249.7 | 252.8 | 256.0 | 259.2 | 262.4 |
| 82.5° | 207.9 | 217.4 | 227.0 | 233.2 | 236.2 | 239.2 | 242.2 | 245.2 |
| 85° | 184.4 | 194.0 | 203.5 | 209.8 | 213.0 | 216.2 | 219.4 | 222.5 |
| 87.5° | 170.1 | 179.7 | 189.2 | 195.5 | 198.5 | 201.5 | 204.5 | 207.5 |
| 90° | 180.1 | 190.5 | 201.0 | 207.8 | 211.1 | 214.3 | 217.6 | 220.9 |
| 92.5° | 175.0 | 184.6 | 194.2 | 200.5 | 203.6 | 206.6 | 209.6 | 212.7 |
| 95° | 185.1 | 195.0 | 205.0 | 211.2 | 213.7 | 216.1 | 218.6 | 221.0 |
| 97.5° | 191.4 | 200.9 | 210.4 | 216.6 | 219.6 | 222.6 | 225.6 | 228.7 |
| 100° | 192.9 | 203.5 | 214.1 | 220.9 | 223.9 | 227.0 | 230.0 | 233.0 |
| 102.5° | 190.1 | 201.2 | 212.2 | 219.4 | 222.6 | 225.9 | 229.1 | 232.4 |
| 105° | 184.3 | 195.2 | 206.1 | 213.4 | 217.0 | 220.6 | 224.1 | 227.7 |
| 107.5° | 193.0 | 197.6 | 202.2 | 206.3 | 209.9 | 213.4 | 217.0 | 220.6 |
| 110° | 248.7 | 228.8 | 208.9 | 200.7 | 204.3 | 207.9 | 211.5 | 215.1 |



TEST NUMBER: P331545

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 424.9 | 333.0 | 241.1 | 196.9 | 200.2 | 203.6 | 207.0 | 210.3 |
| 115° | 577.9 | 458.8 | 339.8 | 271.7 | 254.6 | 237.6 | 220.5 | 203.4 |
| 117.5° | 841.4 | 817.7 | 793.9 | 751.1 | 689.1 | 627.1 | 565.1 | 503.1 |
| 120° | 963.9 | 973.5 | 983.1 | 970.8 | 936.6 | 902.4 | 868.2 | 834.0 |
| 122.5° | 1013.7 | 1021.9 | 1030.0 | 1031.5 | 1026.6 | 1021.6 | 1016.6 | 1011.6 |
| 125° | 1084.4 | 1092.4 | 1100.5 | 1105.9 | 1108.8 | 1111.6 | 1114.5 | 1117.3 |
| 127.5° | 1149.2 | 1157.6 | 1166.0 | 1171.3 | 1173.5 | 1175.6 | 1177.8 | 1180.0 |
| 130° | 1190.4 | 1198.9 | 1207.3 | 1212.3 | 1213.8 | 1215.4 | 1216.9 | 1218.4 |
| 132.5° | 1230.3 | 1238.1 | 1245.9 | 1250.6 | 1252.1 | 1253.7 | 1255.2 | 1256.8 |
| 135° | 1287.4 | 1294.9 | 1302.3 | 1306.7 | 1308.0 | 1309.3 | 1310.5 | 1311.8 |
| 137.5° | 1340.1 | 1346.9 | 1353.8 | 1357.5 | 1358.1 | 1358.7 | 1359.4 | 1360.0 |
| 140° | 1374.5 | 1380.5 | 1386.6 | 1389.7 | 1389.7 | 1389.7 | 1389.7 | 1389.7 |
| 142.5° | 1407.1 | 1412.3 | 1417.4 | 1419.9 | 1419.7 | 1419.5 | 1419.4 | 1419.2 |
| 145° | 1453.6 | 1456.9 | 1460.2 | 1461.7 | 1461.5 | 1461.2 | 1461.0 | 1460.8 |
| 147.5° | 1494.8 | 1496.4 | 1498.0 | 1498.5 | 1497.9 | 1497.3 | 1496.7 | 1496.1 |
| 150° | 1521.3 | 1523.0 | 1524.6 | 1524.7 | 1523.4 | 1522.0 | 1520.6 | 1519.3 |
| 152.5° | 1545.8 | 1547.4 | 1549.1 | 1549.0 | 1547.2 | 1545.4 | 1543.6 | 1541.8 |
| 155° | 1578.8 | 1580.5 | 1582.1 | 1581.8 | 1579.6 | 1577.5 | 1575.3 | 1573.1 |
| 157.5° | 1606.7 | 1608.5 | 1610.4 | 1610.2 | 1608.1 | 1606.0 | 1603.9 | 1601.7 |
| 160° | 1622.9 | 1624.5 | 1626.1 | 1626.0 | 1624.1 | 1622.2 | 1620.3 | 1618.4 |
| 162.5° | 1638.0 | 1639.8 | 1641.7 | 1641.4 | 1639.1 | 1636.7 | 1634.4 | 1632.1 |
| 165° | 1656.4 | 1658.3 | 1660.2 | 1660.2 | 1658.3 | 1656.4 | 1654.5 | 1652.6 |
| 167.5° | 1671.8 | 1673.7 | 1675.6 | 1675.4 | 1672.9 | 1670.5 | 1668.0 | 1665.6 |
| 170° | 1679.7 | 1681.6 | 1683.5 | 1683.2 | 1680.8 | 1678.3 | 1675.9 | 1673.4 |
| 172.5° | 1685.5 | 1687.4 | 1689.3 | 1689.1 | 1686.6 | 1684.2 | 1681.7 | 1679.3 |
| 175° | 1691.9 | 1693.8 | 1695.7 | 1695.3 | 1692.6 | 1689.9 | 1687.1 | 1684.4 |
| 177.5° | 1692.6 | 1694.1 | 1695.7 | 1695.4 | 1693.5 | 1691.5 | 1689.6 | 1687.6 |
| 180° | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 |

(END OF REPORT)