

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: P331811-935

Luminaire Tested: **S122RDIW-S675D710U935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331811-935
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: S122RDIW-S675D710U935-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4440.8 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

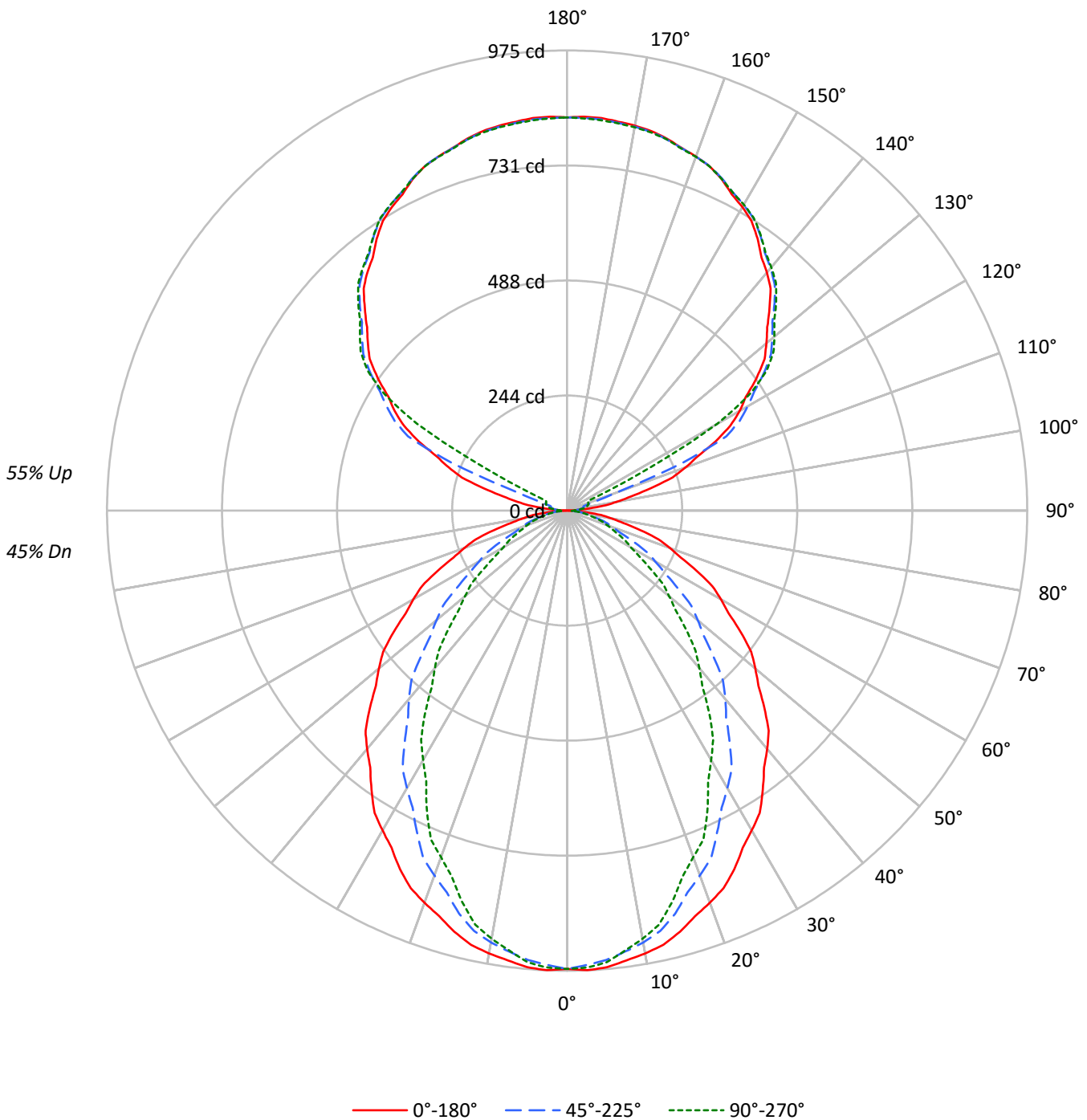
Input Watts (W): 45
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331811-935

CATALOG NUMBER: S122RDIW-S675D710U935-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331811-935

CATALOG NUMBER: S122RDIW-S675D710U935-4F0-1E-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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 52 | 52 | 52 | 45 |
| 1 | 97 | 93 | 89 | 86 | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 46 | 45 | 44 | 39 |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 49 | 47 | 41 | 40 | 38 | 33 |
| 3 | 81 | 72 | 65 | 60 | 74 | 66 | 60 | 56 | 56 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | 29 |
| 4 | 74 | 64 | 57 | 51 | 68 | 59 | 53 | 47 | 50 | 45 | 41 | 41 | 38 | 35 | 33 | 31 | 29 | 25 |
| 5 | 69 | 57 | 49 | 44 | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 37 | 33 | 30 | 30 | 27 | 25 | 22 |
| 6 | 63 | 52 | 44 | 38 | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 22 | 19 |
| 7 | 59 | 47 | 39 | 34 | 54 | 43 | 36 | 32 | 37 | 32 | 28 | 31 | 27 | 24 | 25 | 22 | 20 | 17 |
| 8 | 54 | 42 | 35 | 30 | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 18 | 16 |
| 9 | 51 | 39 | 32 | 27 | 47 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47 | 36 | 29 | 24 | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 18 | 20 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15681 | 15681 | 15681 |
| 5° | 15741 | 15486 | 15571 |
| 10° | 15621 | 15231 | 15101 |
| 15° | 15442 | 14780 | 14355 |
| 20° | 15192 | 14136 | 13426 |
| 25° | 14938 | 13402 | 12527 |
| 30° | 14585 | 12652 | 11373 |
| 35° | 14241 | 11832 | 10360 |
| 40° | 13894 | 10985 | 9187 |
| 45° | 13486 | 10035 | 8127 |
| 50° | 13069 | 9075 | 7086 |
| 55° | 12645 | 8042 | 6086 |
| 60° | 12148 | 6952 | 5050 |
| 65° | 11584 | 5841 | 4604 |
| 70° | 10914 | 4810 | 4230 |
| 75° | 10087 | 4386 | 3949 |
| 80° | 8908 | 3924 | 3598 |
| 85° | 7003 | 3094 | 3094 |



TEST NUMBER: P331811-935

CATALOG NUMBER: S122RDIW-S675D710U935-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.9 | 2.0 |
| 10°-20° | 249.6 | 5.6 |
| 20°-30° | 350.5 | 7.9 |
| 30°-40° | 382.2 | 8.6 |
| 40°-50° | 351.5 | 7.9 |
| 50°-60° | 276.0 | 6.2 |
| 60°-70° | 180.0 | 4.1 |
| 70°-80° | 92.8 | 2.1 |
| 80°-90° | 26.1 | 0.6 |
| 90°-100° | 27.8 | 0.6 |
| 100°-110° | 101.9 | 2.3 |
| 110°-120° | 272.4 | 6.1 |
| 120°-130° | 449.6 | 10.1 |
| 130°-140° | 478.2 | 10.8 |
| 140°-150° | 444.4 | 10.0 |
| 150°-160° | 357.3 | 8.0 |
| 160°-170° | 230.3 | 5.2 |
| 170°-180° | 79.3 | 1.8 |
| 0°-30° | 691.1 | 15.6 |
| 0°-40° | 1073.3 | 24.2 |
| 0°-60° | 1700.8 | 38.3 |
| 0°-90° | 1999.7 | 45.0 |
| 90°-120° | 402.1 | 9.1 |
| 90°-150° | 1774.3 | 40.0 |
| 90°-180° | 2441.0 | 55.0 |
| 0°-180° | 4440.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 971 | 971 | 971 | 971 | 971 | |
| 5° | 971 | 966 | 956 | 963 | 961 | 92 |
| 15° | 924 | 913 | 884 | 868 | 859 | 260 |
| 25° | 838 | 809 | 752 | 718 | 703 | 385 |
| 35° | 722 | 676 | 600 | 547 | 526 | 452 |
| 45° | 591 | 530 | 440 | 379 | 356 | 456 |
| 55° | 449 | 379 | 286 | 235 | 216 | 401 |
| 65° | 303 | 232 | 153 | 125 | 120 | 300 |
| 75° | 162 | 102 | 70 | 64 | 63 | 171 |
| 85° | 38 | 20 | 17 | 17 | 17 | 45 |
| 90° | 1 | 7 | 12 | 15 | 16 | 3 |
| 95° | 39 | 21 | 24 | 26 | 26 | 48 |
| 105° | 183 | 191 | 37 | 43 | 46 | 196 |
| 115° | 347 | 357 | 372 | 106 | 49 | 341 |
| 125° | 490 | 498 | 509 | 513 | 515 | 437 |
| 135° | 606 | 616 | 622 | 627 | 626 | 468 |
| 145° | 703 | 703 | 713 | 717 | 714 | 440 |
| 155° | 775 | 770 | 776 | 779 | 775 | 357 |
| 165° | 816 | 813 | 814 | 818 | 814 | 230 |
| 175° | 835 | 831 | 832 | 835 | 830 | 79 |
| 180° | 833 | 833 | 833 | 833 | 833 | |



TEST NUMBER: P331811-935

CATALOG NUMBER: S122RDIW-S675D710U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 |
| 2.5° | 974.7 | 974.0 | 973.2 | 972.4 | 971.6 | 970.3 | 968.6 | 966.9 | 965.3 | 963.5 | 965.1 |
| 5° | 971.2 | 970.3 | 969.3 | 968.3 | 967.3 | 965.6 | 963.0 | 960.5 | 957.9 | 955.5 | 957.2 |
| 7.5° | 961.2 | 960.0 | 958.8 | 957.6 | 956.4 | 954.2 | 951.3 | 948.4 | 945.4 | 942.5 | 942.9 |
| 10° | 952.8 | 951.4 | 950.0 | 948.6 | 947.3 | 944.7 | 940.7 | 936.9 | 933.0 | 929.0 | 928.5 |
| 12.5° | 942.2 | 940.6 | 938.8 | 937.2 | 935.5 | 932.2 | 927.2 | 922.2 | 917.1 | 912.1 | 911.1 |
| 15° | 923.8 | 921.6 | 919.5 | 917.3 | 915.2 | 910.8 | 904.1 | 897.5 | 890.9 | 884.2 | 880.5 |
| 17.5° | 901.1 | 897.9 | 894.6 | 891.2 | 887.9 | 882.1 | 873.6 | 865.0 | 856.5 | 848.0 | 843.6 |
| 20° | 884.2 | 880.3 | 876.4 | 872.5 | 868.6 | 861.8 | 852.0 | 842.2 | 832.5 | 822.7 | 817.8 |
| 22.5° | 865.9 | 861.6 | 857.2 | 852.8 | 848.4 | 840.8 | 829.7 | 818.7 | 807.7 | 796.7 | 790.4 |
| 25° | 838.5 | 832.2 | 826.0 | 819.8 | 813.6 | 803.9 | 791.1 | 778.2 | 765.3 | 752.3 | 744.3 |
| 27.5° | 805.5 | 798.7 | 791.9 | 785.1 | 778.3 | 767.6 | 753.1 | 738.6 | 724.0 | 709.5 | 700.2 |
| 30° | 782.3 | 774.8 | 767.4 | 760.0 | 752.6 | 741.1 | 725.4 | 709.8 | 694.1 | 678.6 | 668.6 |
| 32.5° | 759.7 | 751.1 | 742.4 | 733.7 | 725.0 | 712.7 | 696.8 | 680.9 | 665.0 | 649.0 | 637.7 |
| 35° | 722.5 | 712.6 | 702.6 | 692.6 | 682.7 | 669.1 | 651.9 | 634.7 | 617.5 | 600.3 | 588.0 |
| 37.5° | 685.3 | 674.2 | 663.3 | 652.4 | 641.4 | 626.8 | 608.6 | 590.2 | 571.9 | 553.5 | 540.0 |
| 40° | 659.2 | 647.5 | 635.8 | 624.1 | 612.3 | 597.0 | 578.1 | 559.1 | 540.2 | 521.2 | 507.4 |
| 42.5° | 632.5 | 620.2 | 607.8 | 595.5 | 583.2 | 567.1 | 547.6 | 528.1 | 508.4 | 488.9 | 474.5 |
| 45° | 590.6 | 577.6 | 564.5 | 551.4 | 538.3 | 521.5 | 501.0 | 480.5 | 459.9 | 439.5 | 425.6 |
| 47.5° | 549.8 | 536.0 | 522.1 | 508.2 | 494.4 | 476.9 | 455.7 | 434.5 | 413.4 | 392.2 | 378.4 |
| 50° | 520.3 | 506.4 | 492.6 | 478.7 | 464.9 | 447.2 | 425.7 | 404.2 | 382.7 | 361.3 | 347.8 |
| 52.5° | 491.5 | 477.0 | 462.5 | 448.1 | 433.5 | 415.8 | 394.8 | 373.8 | 352.8 | 331.7 | 318.7 |
| 55° | 449.2 | 433.9 | 418.7 | 403.5 | 388.2 | 370.1 | 349.0 | 327.9 | 306.8 | 285.7 | 274.0 |
| 57.5° | 405.7 | 390.1 | 374.4 | 358.9 | 343.2 | 325.3 | 305.0 | 284.7 | 264.4 | 244.2 | 233.4 |
| 60° | 376.2 | 360.6 | 344.9 | 329.3 | 313.7 | 295.8 | 275.7 | 255.5 | 235.5 | 215.3 | 205.3 |
| 62.5° | 347.3 | 331.7 | 316.1 | 300.5 | 284.8 | 267.4 | 248.3 | 229.1 | 209.9 | 190.7 | 181.2 |
| 65° | 303.2 | 287.4 | 271.6 | 255.8 | 240.0 | 223.3 | 205.7 | 188.1 | 170.5 | 152.9 | 146.3 |
| 67.5° | 260.7 | 245.0 | 229.3 | 213.6 | 197.9 | 182.1 | 166.3 | 150.5 | 134.7 | 118.8 | 115.8 |
| 70° | 231.2 | 215.9 | 200.7 | 185.5 | 170.2 | 155.8 | 142.4 | 128.9 | 115.5 | 101.9 | 100.0 |
| 72.5° | 203.0 | 188.4 | 173.8 | 159.2 | 144.6 | 131.9 | 121.1 | 110.2 | 99.4 | 88.6 | 87.0 |
| 75° | 161.7 | 148.1 | 134.4 | 120.7 | 107.0 | 96.9 | 90.2 | 83.6 | 77.0 | 70.3 | 69.0 |
| 77.5° | 121.1 | 109.1 | 97.1 | 85.2 | 73.2 | 65.5 | 62.3 | 59.2 | 56.0 | 52.8 | 51.9 |
| 80° | 95.8 | 85.8 | 75.9 | 66.0 | 56.0 | 50.0 | 48.0 | 46.1 | 44.2 | 42.2 | 41.4 |
| 82.5° | 72.6 | 64.8 | 57.1 | 49.2 | 41.5 | 36.9 | 35.6 | 34.3 | 33.0 | 31.7 | 31.2 |
| 85° | 37.8 | 33.7 | 29.6 | 25.5 | 21.4 | 19.0 | 18.4 | 17.9 | 17.3 | 16.7 | 16.7 |
| 87.5° | 11.4 | 10.4 | 9.5 | 8.5 | 7.6 | 7.1 | 7.4 | 7.6 | 7.8 | 8.0 | 8.0 |
| 90° | 0.6 | 2.1 | 3.5 | 5.0 | 6.5 | 7.7 | 8.9 | 9.9 | 11.0 | 12.1 | 12.7 |
| 92.5° | 12.1 | 12.1 | 11.9 | 11.8 | 11.6 | 11.9 | 12.4 | 12.9 | 13.4 | 13.9 | 14.3 |
| 95° | 39.2 | 34.8 | 30.3 | 25.9 | 21.5 | 19.7 | 20.7 | 21.6 | 22.6 | 23.5 | 24.2 |
| 97.5° | 77.7 | 65.3 | 52.9 | 40.4 | 27.9 | 22.8 | 25.0 | 27.1 | 29.3 | 31.4 | 32.0 |
| 100° | 106.7 | 88.3 | 70.0 | 51.7 | 33.3 | 25.2 | 27.6 | 29.8 | 32.1 | 34.4 | 35.4 |
| 102.5° | 138.5 | 134.7 | 130.7 | 126.8 | 123.0 | 111.5 | 92.5 | 73.4 | 54.3 | 35.3 | 36.7 |
| 105° | 183.2 | 187.3 | 191.3 | 195.3 | 199.3 | 183.0 | 146.5 | 109.9 | 73.4 | 36.8 | 38.2 |
| 107.5° | 234.2 | 237.5 | 240.7 | 243.9 | 247.2 | 226.9 | 183.0 | 139.2 | 95.3 | 51.5 | 49.9 |
| 110° | 267.0 | 269.8 | 272.7 | 275.4 | 278.3 | 260.3 | 221.6 | 182.9 | 144.2 | 105.5 | 92.1 |



TEST NUMBER: P331811-935

CATALOG NUMBER: S122RDIW-S675D710U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 297.9 | 300.4 | 302.9 | 305.3 | 307.8 | 304.3 | 294.7 | 285.2 | 275.6 | 266.0 | 217.2 |
| 115° | 346.6 | 348.9 | 351.1 | 353.4 | 355.7 | 358.5 | 361.9 | 365.2 | 368.5 | 371.9 | 309.9 |
| 117.5° | 390.1 | 392.6 | 395.2 | 397.7 | 400.3 | 402.7 | 405.0 | 407.3 | 409.6 | 411.9 | 396.9 |
| 120° | 421.9 | 424.0 | 425.9 | 427.9 | 430.0 | 432.1 | 434.5 | 437.0 | 439.4 | 441.8 | 443.4 |
| 122.5° | 448.9 | 451.1 | 453.1 | 455.3 | 457.4 | 459.8 | 462.4 | 465.0 | 467.6 | 470.3 | 471.2 |
| 125° | 490.0 | 491.8 | 493.5 | 495.2 | 497.0 | 499.1 | 501.7 | 504.2 | 506.8 | 509.3 | 510.2 |
| 127.5° | 527.3 | 529.2 | 531.2 | 533.0 | 535.0 | 536.9 | 538.8 | 540.7 | 542.6 | 544.5 | 545.9 |
| 130° | 550.9 | 553.0 | 555.2 | 557.3 | 559.5 | 561.3 | 562.7 | 564.2 | 565.7 | 567.2 | 568.7 |
| 132.5° | 575.1 | 576.9 | 578.7 | 580.5 | 582.3 | 583.9 | 585.4 | 586.9 | 588.4 | 589.9 | 591.1 |
| 135° | 606.4 | 608.5 | 610.6 | 612.8 | 614.9 | 616.6 | 617.9 | 619.1 | 620.3 | 621.5 | 622.8 |
| 137.5° | 638.1 | 639.6 | 641.1 | 642.6 | 644.0 | 645.5 | 646.9 | 648.2 | 649.6 | 651.0 | 652.3 |
| 140° | 658.8 | 659.9 | 660.9 | 662.0 | 663.1 | 664.3 | 665.8 | 667.3 | 668.7 | 670.3 | 671.5 |
| 142.5° | 676.1 | 677.1 | 678.1 | 679.1 | 680.0 | 681.3 | 683.0 | 684.8 | 686.4 | 688.1 | 689.2 |
| 145° | 703.4 | 703.3 | 703.2 | 703.0 | 702.8 | 704.0 | 706.2 | 708.5 | 710.8 | 713.1 | 714.0 |
| 147.5° | 727.1 | 726.7 | 726.2 | 725.7 | 725.1 | 726.0 | 728.2 | 730.5 | 732.7 | 734.9 | 735.7 |
| 150° | 742.6 | 741.7 | 740.7 | 739.8 | 738.8 | 739.4 | 741.6 | 743.7 | 745.9 | 748.0 | 748.8 |
| 152.5° | 755.6 | 754.6 | 753.5 | 752.4 | 751.4 | 751.9 | 754.0 | 756.0 | 758.0 | 760.1 | 760.9 |
| 155° | 774.6 | 773.4 | 772.1 | 770.9 | 769.7 | 769.9 | 771.5 | 773.1 | 774.7 | 776.4 | 777.1 |
| 157.5° | 789.4 | 788.3 | 787.3 | 786.3 | 785.3 | 785.3 | 786.4 | 787.6 | 788.7 | 789.8 | 790.7 |
| 160° | 798.1 | 797.2 | 796.4 | 795.7 | 794.8 | 794.8 | 795.7 | 796.4 | 797.2 | 798.1 | 798.8 |
| 162.5° | 805.7 | 804.9 | 804.2 | 803.3 | 802.5 | 802.5 | 803.1 | 803.9 | 804.6 | 805.3 | 806.2 |
| 165° | 816.1 | 815.3 | 814.5 | 813.7 | 812.9 | 812.7 | 813.1 | 813.5 | 813.9 | 814.3 | 815.3 |
| 167.5° | 823.8 | 823.0 | 822.3 | 821.4 | 820.6 | 820.4 | 820.8 | 821.1 | 821.6 | 821.9 | 822.9 |
| 170° | 828.2 | 827.3 | 826.6 | 825.8 | 824.9 | 824.7 | 824.9 | 825.3 | 825.5 | 825.8 | 826.7 |
| 172.5° | 831.0 | 830.3 | 829.5 | 828.6 | 827.9 | 827.6 | 827.9 | 828.1 | 828.4 | 828.6 | 829.6 |
| 175° | 834.8 | 833.9 | 832.9 | 832.0 | 831.0 | 830.7 | 831.0 | 831.3 | 831.6 | 831.8 | 832.8 |
| 177.5° | 835.4 | 834.7 | 833.9 | 833.2 | 832.4 | 832.1 | 832.2 | 832.3 | 832.4 | 832.5 | 833.3 |
| 180° | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 |



TEST NUMBER: P331811-935

CATALOG NUMBER: S122RDIW-S675D710U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 | 971.2 |
| 2.5° | 966.6 | 968.2 | 969.7 | 970.3 | 970.1 | 969.7 | 969.5 | 969.1 |
| 5° | 958.9 | 960.7 | 962.4 | 963.0 | 962.4 | 961.8 | 961.3 | 960.7 |
| 7.5° | 943.4 | 943.9 | 944.4 | 944.2 | 943.1 | 942.2 | 941.2 | 940.1 |
| 10° | 927.9 | 927.3 | 926.7 | 925.8 | 924.6 | 923.5 | 922.3 | 921.1 |
| 12.5° | 910.1 | 909.0 | 907.9 | 906.5 | 904.5 | 902.6 | 900.6 | 898.6 |
| 15° | 876.8 | 873.1 | 869.4 | 866.5 | 864.6 | 862.6 | 860.7 | 858.8 |
| 17.5° | 839.2 | 834.7 | 830.3 | 826.5 | 823.1 | 819.8 | 816.4 | 813.0 |
| 20° | 813.0 | 808.0 | 803.1 | 798.6 | 794.3 | 790.0 | 785.7 | 781.4 |
| 22.5° | 784.1 | 777.8 | 771.5 | 766.8 | 763.5 | 760.3 | 757.2 | 754.0 |
| 25° | 736.3 | 728.3 | 720.3 | 714.9 | 712.0 | 709.0 | 706.1 | 703.2 |
| 27.5° | 690.8 | 681.5 | 672.2 | 665.1 | 660.5 | 655.8 | 651.2 | 646.5 |
| 30° | 658.7 | 648.7 | 638.7 | 631.1 | 625.8 | 620.5 | 615.3 | 610.0 |
| 32.5° | 626.3 | 614.9 | 603.6 | 595.4 | 590.4 | 585.5 | 580.5 | 575.6 |
| 35° | 575.8 | 563.4 | 551.1 | 542.8 | 538.5 | 534.2 | 529.9 | 525.6 |
| 37.5° | 526.4 | 512.9 | 499.4 | 490.1 | 485.2 | 480.3 | 475.4 | 470.5 |
| 40° | 493.4 | 479.6 | 465.7 | 456.2 | 451.2 | 446.1 | 441.0 | 435.9 |
| 42.5° | 460.2 | 445.8 | 431.5 | 421.9 | 417.0 | 412.1 | 407.2 | 402.2 |
| 45° | 411.7 | 397.9 | 384.0 | 374.7 | 370.1 | 365.3 | 360.7 | 355.9 |
| 47.5° | 364.6 | 350.9 | 337.0 | 328.0 | 323.7 | 319.5 | 315.2 | 311.0 |
| 50° | 334.3 | 320.8 | 307.4 | 298.5 | 294.5 | 290.3 | 286.3 | 282.1 |
| 52.5° | 305.7 | 292.7 | 279.7 | 271.3 | 267.5 | 263.7 | 259.9 | 256.1 |
| 55° | 262.3 | 250.5 | 238.8 | 231.1 | 227.4 | 223.6 | 219.9 | 216.2 |
| 57.5° | 222.7 | 212.0 | 201.2 | 194.2 | 191.1 | 188.0 | 184.9 | 181.8 |
| 60° | 195.4 | 185.5 | 175.5 | 168.9 | 165.8 | 162.7 | 159.5 | 156.4 |
| 62.5° | 171.8 | 162.2 | 152.7 | 147.1 | 145.2 | 143.4 | 141.5 | 139.6 |
| 65° | 139.7 | 133.0 | 126.4 | 122.8 | 122.2 | 121.6 | 121.0 | 120.5 |
| 67.5° | 112.7 | 109.7 | 106.7 | 104.8 | 104.2 | 103.6 | 103.0 | 102.3 |
| 70° | 98.1 | 96.1 | 94.1 | 92.8 | 92.0 | 91.2 | 90.4 | 89.6 |
| 72.5° | 85.3 | 83.7 | 82.1 | 81.0 | 80.5 | 80.1 | 79.6 | 79.1 |
| 75° | 67.6 | 66.2 | 64.8 | 64.1 | 63.9 | 63.7 | 63.5 | 63.3 |
| 77.5° | 51.1 | 50.4 | 49.6 | 49.1 | 48.7 | 48.5 | 48.1 | 47.8 |
| 80° | 40.6 | 39.9 | 39.1 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 |
| 82.5° | 30.7 | 30.2 | 29.8 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| 85° | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 87.5° | 8.0 | 8.0 | 7.9 | 7.9 | 8.0 | 8.1 | 8.1 | 8.2 |
| 90° | 13.4 | 14.0 | 14.7 | 15.2 | 15.5 | 15.8 | 16.0 | 16.3 |
| 92.5° | 14.7 | 15.1 | 15.4 | 15.7 | 15.8 | 15.9 | 16.1 | 16.3 |
| 95° | 24.9 | 25.5 | 26.2 | 26.4 | 26.3 | 26.2 | 26.1 | 25.9 |
| 97.5° | 32.5 | 33.1 | 33.6 | 33.9 | 34.1 | 34.3 | 34.4 | 34.6 |
| 100° | 36.5 | 37.5 | 38.7 | 39.3 | 39.6 | 39.9 | 40.1 | 40.4 |
| 102.5° | 38.1 | 39.5 | 40.9 | 41.8 | 42.2 | 42.5 | 42.9 | 43.3 |
| 105° | 39.7 | 41.2 | 42.6 | 43.7 | 44.2 | 44.8 | 45.3 | 45.8 |
| 107.5° | 48.5 | 47.0 | 45.5 | 45.0 | 45.5 | 46.1 | 46.6 | 47.1 |
| 110° | 78.7 | 65.3 | 51.9 | 45.5 | 46.0 | 46.6 | 47.1 | 47.6 |



TEST NUMBER: P331811-935

CATALOG NUMBER: S122RDIW-S675D710U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 168.3 | 119.5 | 70.6 | 46.4 | 46.8 | 47.3 | 47.7 | 48.1 |
| 115° | 247.9 | 185.8 | 123.8 | 88.0 | 78.4 | 68.7 | 59.1 | 49.4 |
| 117.5° | 381.9 | 366.9 | 351.9 | 328.6 | 296.9 | 265.2 | 233.5 | 201.8 |
| 120° | 445.1 | 446.6 | 448.2 | 440.0 | 421.9 | 403.8 | 385.7 | 367.6 |
| 122.5° | 472.2 | 473.1 | 474.2 | 472.9 | 469.3 | 465.8 | 462.4 | 458.8 |
| 125° | 511.2 | 512.1 | 513.1 | 513.8 | 514.1 | 514.5 | 515.0 | 515.3 |
| 127.5° | 547.3 | 548.6 | 550.0 | 550.7 | 550.8 | 550.9 | 551.0 | 551.0 |
| 130° | 570.2 | 571.6 | 573.1 | 573.8 | 573.6 | 573.5 | 573.3 | 573.3 |
| 132.5° | 592.4 | 593.7 | 594.9 | 595.5 | 595.3 | 595.2 | 595.0 | 595.0 |
| 135° | 624.1 | 625.4 | 626.8 | 627.3 | 627.1 | 626.8 | 626.5 | 626.3 |
| 137.5° | 653.6 | 654.9 | 656.3 | 656.7 | 656.2 | 655.7 | 655.3 | 654.8 |
| 140° | 672.7 | 673.9 | 675.1 | 675.4 | 674.7 | 674.0 | 673.3 | 672.7 |
| 142.5° | 690.3 | 691.4 | 692.5 | 692.7 | 692.1 | 691.4 | 690.7 | 690.0 |
| 145° | 714.9 | 715.8 | 716.8 | 717.0 | 716.3 | 715.6 | 714.9 | 714.3 |
| 147.5° | 736.4 | 737.1 | 737.8 | 737.9 | 737.3 | 736.8 | 736.2 | 735.6 |
| 150° | 749.6 | 750.4 | 751.2 | 751.3 | 750.6 | 749.9 | 749.2 | 748.6 |
| 152.5° | 761.6 | 762.5 | 763.3 | 763.3 | 762.3 | 761.5 | 760.6 | 759.7 |
| 155° | 777.9 | 778.8 | 779.5 | 779.4 | 778.3 | 777.3 | 776.2 | 775.2 |
| 157.5° | 791.7 | 792.6 | 793.5 | 793.4 | 792.4 | 791.3 | 790.3 | 789.2 |
| 160° | 799.6 | 800.5 | 801.2 | 801.2 | 800.2 | 799.3 | 798.4 | 797.5 |
| 162.5° | 807.1 | 808.0 | 808.9 | 808.8 | 807.6 | 806.5 | 805.3 | 804.2 |
| 165° | 816.2 | 817.1 | 818.0 | 818.0 | 817.1 | 816.2 | 815.3 | 814.3 |
| 167.5° | 823.8 | 824.8 | 825.6 | 825.5 | 824.3 | 823.1 | 821.9 | 820.7 |
| 170° | 827.7 | 828.5 | 829.5 | 829.4 | 828.2 | 827.0 | 825.8 | 824.6 |
| 172.5° | 830.5 | 831.5 | 832.4 | 832.2 | 831.0 | 829.8 | 828.6 | 827.4 |
| 175° | 833.7 | 834.6 | 835.5 | 835.3 | 834.0 | 832.7 | 831.3 | 830.0 |
| 177.5° | 834.1 | 834.7 | 835.5 | 835.4 | 834.5 | 833.4 | 832.5 | 831.6 |
| 180° | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 | 833.0 |

(END OF REPORT)