

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: P199519

Luminaire Tested: **S125-DIP-U1-1-30-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199519
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27900)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIP-U1-1-30-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL1-3000K, SATIN WHITE DIFFUSER
DOWNLIGHT LL1-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5713.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

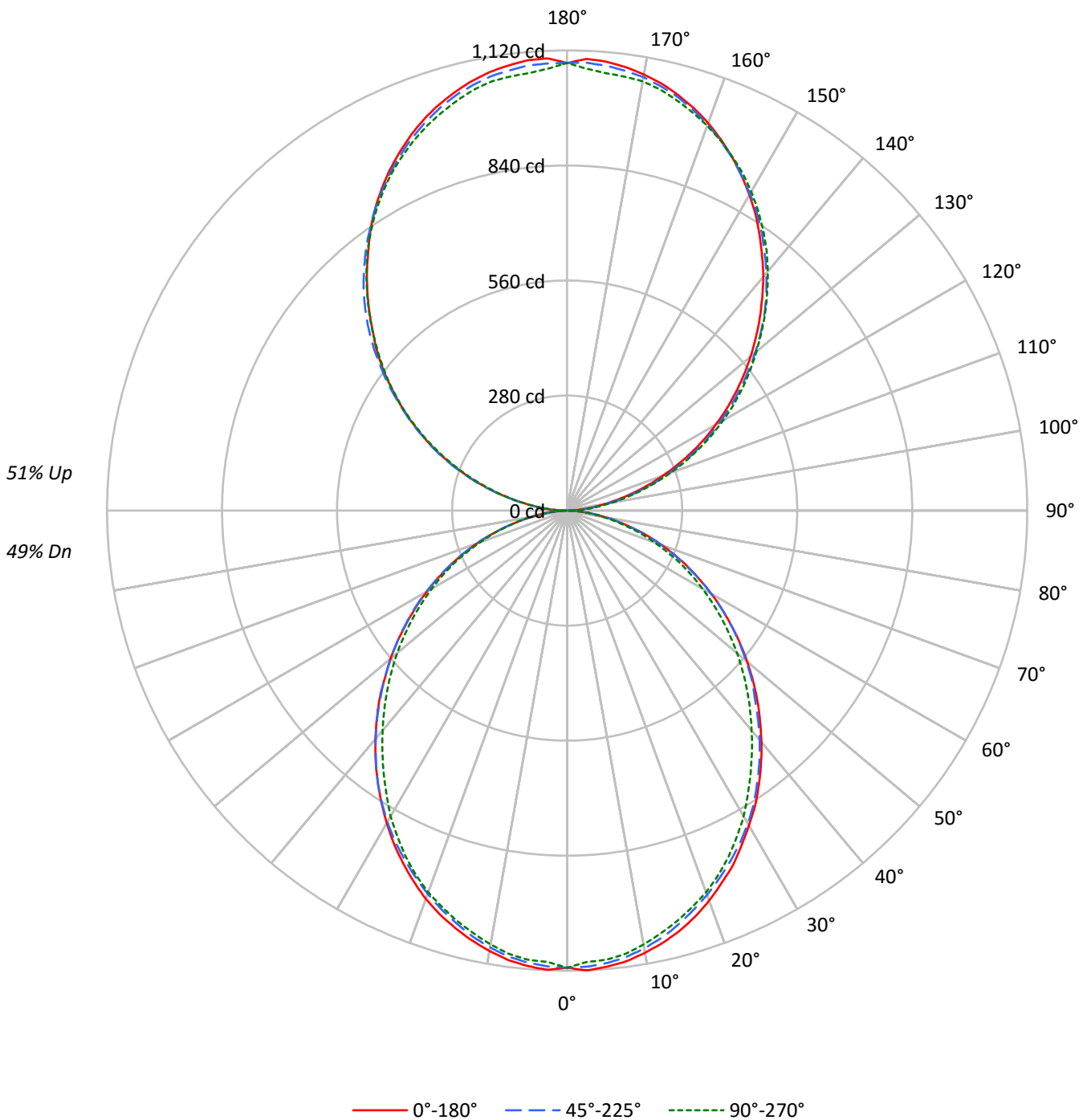
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P199519

CATALOG NUMBER: S125-DIP-U1-1-30-X-X0048-1D-UDD-1-5-W

Luminous Intensity Polar Plot





TEST NUMBER: P199519

CATALOG NUMBER: S125-DIP-U1-1-30-X-X0048-1D-UDD-1-5-W

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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 60 | 58 | 57 | 49 | 48 | 46 | 41 |
| 2 | 89 | 82 | 75 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 39 | 35 |
| 3 | 81 | 72 | 64 | 59 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 36 | 33 | 29 |
| 4 | 74 | 63 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 40 | 42 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5 | 68 | 57 | 48 | 43 | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 36 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 17 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 31 | 25 | 46 | 35 | 29 | 24 | 31 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 7038 | 7038 | 7038 |
| 5° | 7021 | 6461 | 7009 |
| 10° | 6908 | 5945 | 6882 |
| 15° | 6768 | 5458 | 6724 |
| 20° | 6583 | 5013 | 6551 |
| 25° | 6385 | 4569 | 6330 |
| 30° | 6140 | 4130 | 6093 |
| 35° | 5904 | 3690 | 5835 |
| 40° | 5643 | 3287 | 5565 |
| 45° | 5367 | 2918 | 5289 |
| 50° | 5074 | 2564 | 4977 |
| 55° | 4760 | 2218 | 4647 |
| 60° | 4422 | 1879 | 4303 |
| 65° | 4053 | 1552 | 3908 |
| 70° | 3620 | 1204 | 3449 |
| 75° | 3036 | 855 | 2825 |
| 80° | 2300 | 532 | 2103 |
| 85° | 1374 | 232 | 1204 |



TEST NUMBER: P199519

CATALOG NUMBER: S125-DIP-U1-1-30-X-X0048-1D-UDD-1-5-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.6 | 1.8 |
| 10°-20° | 293.7 | 5.1 |
| 20°-30° | 431.4 | 7.6 |
| 30°-40° | 498.3 | 8.7 |
| 40°-50° | 493.9 | 8.6 |
| 50°-60° | 428.4 | 7.5 |
| 60°-70° | 312.9 | 5.5 |
| 70°-80° | 171.0 | 3.0 |
| 80°-90° | 44.4 | 0.8 |
| 90°-100° | 54.1 | 0.9 |
| 100°-110° | 195.1 | 3.4 |
| 110°-120° | 347.1 | 6.1 |
| 120°-130° | 462.9 | 8.1 |
| 130°-140° | 523.6 | 9.2 |
| 140°-150° | 517.3 | 9.1 |
| 150°-160° | 438.0 | 7.7 |
| 160°-170° | 293.3 | 5.1 |
| 170°-180° | 103.0 | 1.8 |
| 0°-30° | 829.7 | 14.5 |
| 0°-40° | 1328.0 | 23.2 |
| 0°-60° | 2250.3 | 39.4 |
| 0°-90° | 2778.7 | 48.6 |
| 90°-120° | 596.2 | 10.4 |
| 90°-150° | 2100.0 | 36.8 |
| 90°-180° | 2934.0 | 51.4 |
| 0°-180° | 5713.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1112 | 1112 | 1112 | 1112 | 1112 | |
| 5° | 1114 | 1106 | 1098 | 1104 | 1112 | 106 |
| 15° | 1059 | 1044 | 1034 | 1040 | 1052 | 298 |
| 25° | 954 | 941 | 929 | 937 | 946 | 438 |
| 35° | 814 | 807 | 779 | 804 | 804 | 509 |
| 45° | 655 | 646 | 620 | 643 | 645 | 505 |
| 55° | 488 | 488 | 460 | 479 | 477 | 437 |
| 65° | 324 | 321 | 304 | 314 | 312 | 321 |
| 75° | 167 | 165 | 152 | 156 | 155 | 178 |
| 85° | 39 | 41 | 36 | 36 | 34 | 44 |
| 90° | 1 | 3 | 1 | 2 | 1 | 5 |
| 95° | 37 | 44 | 49 | 52 | 48 | 42 |
| 105° | 165 | 178 | 185 | 192 | 189 | 177 |
| 115° | 333 | 346 | 352 | 360 | 357 | 329 |
| 125° | 500 | 513 | 522 | 529 | 523 | 448 |
| 135° | 663 | 680 | 682 | 695 | 680 | 512 |
| 145° | 817 | 826 | 832 | 837 | 835 | 511 |
| 155° | 950 | 948 | 951 | 957 | 963 | 437 |
| 165° | 1046 | 1042 | 1034 | 1046 | 1055 | 295 |
| 175° | 1097 | 1087 | 1069 | 1087 | 1100 | 104 |
| 180° | 1089 | 1089 | 1089 | 1089 | 1089 | |



TEST NUMBER: P199519

CATALOG NUMBER: S125-DIP-U1-1-30-X-X0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1112.5 | 1112.5 | 1112.5 | 1112.5 | 1112.5 | 1112.5 | 1112.5 | 1112.5 | 1112.5 |
| 2.5° | 1120.0 | 1108.4 | 1111.1 | 1109.1 | 1099.5 | 1107.7 | 1110.4 | 1106.4 | 1118.6 |
| 5° | 1114.5 | 1102.9 | 1105.7 | 1102.9 | 1097.5 | 1101.6 | 1104.3 | 1100.2 | 1112.5 |
| 7.5° | 1106.4 | 1094.1 | 1096.1 | 1093.4 | 1088.0 | 1091.4 | 1094.8 | 1090.7 | 1102.9 |
| 10° | 1092.7 | 1081.2 | 1081.8 | 1078.4 | 1072.3 | 1076.4 | 1079.8 | 1076.4 | 1088.6 |
| 12.5° | 1077.1 | 1064.8 | 1064.8 | 1059.4 | 1053.9 | 1057.3 | 1062.1 | 1059.4 | 1071.6 |
| 15° | 1058.7 | 1045.8 | 1043.7 | 1040.3 | 1034.2 | 1038.3 | 1040.3 | 1039.6 | 1051.9 |
| 17.5° | 1036.2 | 1022.6 | 1019.9 | 1019.2 | 1011.7 | 1017.2 | 1017.8 | 1015.8 | 1030.8 |
| 20° | 1010.4 | 997.4 | 995.4 | 994.7 | 988.6 | 992.7 | 992.7 | 989.9 | 1005.6 |
| 22.5° | 981.8 | 969.5 | 968.8 | 967.5 | 960.7 | 965.4 | 965.4 | 961.3 | 977.0 |
| 25° | 953.8 | 938.9 | 940.9 | 937.5 | 929.3 | 936.1 | 936.8 | 930.0 | 945.7 |
| 27.5° | 919.1 | 907.5 | 911.6 | 905.5 | 894.6 | 903.5 | 907.5 | 897.3 | 913.7 |
| 30° | 885.1 | 872.8 | 879.6 | 868.7 | 859.2 | 867.4 | 874.9 | 861.9 | 878.3 |
| 32.5° | 851.7 | 837.4 | 845.6 | 832.0 | 818.4 | 828.6 | 840.8 | 828.6 | 841.5 |
| 35° | 813.6 | 802.0 | 806.8 | 792.5 | 778.9 | 789.1 | 804.1 | 792.5 | 804.1 |
| 37.5° | 775.5 | 765.9 | 769.3 | 752.3 | 738.7 | 748.9 | 764.6 | 755.7 | 765.9 |
| 40° | 736.0 | 729.2 | 729.2 | 712.1 | 698.5 | 708.1 | 724.4 | 719.6 | 725.8 |
| 42.5° | 695.1 | 692.4 | 687.0 | 672.0 | 659.0 | 668.6 | 684.2 | 682.9 | 685.6 |
| 45° | 655.0 | 655.0 | 646.1 | 630.4 | 619.6 | 628.4 | 642.7 | 646.1 | 645.4 |
| 47.5° | 613.4 | 616.8 | 609.3 | 592.3 | 580.1 | 588.9 | 601.9 | 608.0 | 601.2 |
| 50° | 571.9 | 578.0 | 568.5 | 553.5 | 539.9 | 549.4 | 560.3 | 568.5 | 561.0 |
| 52.5° | 530.4 | 537.9 | 527.6 | 513.3 | 499.7 | 508.6 | 519.5 | 529.0 | 519.5 |
| 55° | 488.2 | 497.0 | 487.5 | 472.5 | 459.6 | 467.7 | 478.6 | 488.2 | 476.6 |
| 57.5° | 446.6 | 454.8 | 446.6 | 431.6 | 419.4 | 426.9 | 438.5 | 445.9 | 435.7 |
| 60° | 405.1 | 413.9 | 405.8 | 391.5 | 379.9 | 386.0 | 396.9 | 404.4 | 394.2 |
| 62.5° | 364.2 | 371.7 | 362.9 | 351.3 | 342.5 | 345.2 | 355.4 | 364.2 | 353.4 |
| 65° | 324.1 | 330.9 | 321.4 | 311.1 | 303.7 | 305.0 | 313.9 | 318.6 | 312.5 |
| 67.5° | 284.6 | 292.1 | 281.9 | 272.3 | 263.5 | 266.2 | 273.7 | 280.5 | 273.0 |
| 70° | 245.1 | 252.6 | 241.7 | 233.5 | 226.0 | 227.4 | 233.5 | 241.0 | 233.5 |
| 72.5° | 206.3 | 212.4 | 204.9 | 195.4 | 190.0 | 191.3 | 194.7 | 201.5 | 194.0 |
| 75° | 166.8 | 173.6 | 165.4 | 158.0 | 152.5 | 153.9 | 155.9 | 161.4 | 155.2 |
| 77.5° | 130.0 | 134.8 | 129.4 | 123.2 | 119.8 | 120.5 | 121.2 | 125.3 | 119.8 |
| 80° | 96.0 | 100.1 | 96.7 | 91.9 | 89.2 | 89.2 | 89.2 | 92.6 | 87.8 |
| 82.5° | 65.4 | 69.4 | 66.7 | 63.3 | 61.3 | 59.2 | 60.6 | 63.3 | 59.2 |
| 85° | 38.8 | 42.2 | 40.8 | 37.4 | 36.1 | 34.7 | 36.1 | 37.4 | 34.0 |
| 87.5° | 17.7 | 20.4 | 18.4 | 15.0 | 13.6 | 12.3 | 12.3 | 14.3 | 11.6 |
| 90° | 1.4 | 3.4 | 2.7 | 2.0 | 1.4 | 1.4 | 2.0 | 2.7 | 1.4 |
| 92.5° | 12.9 | 17.7 | 17.7 | 15.7 | 19.1 | 21.8 | 26.6 | 26.6 | 23.1 |
| 95° | 37.4 | 42.2 | 44.3 | 45.6 | 49.0 | 50.4 | 51.7 | 51.7 | 47.7 |
| 97.5° | 64.0 | 70.8 | 72.2 | 74.2 | 78.3 | 79.0 | 81.0 | 81.7 | 76.9 |
| 100° | 94.0 | 102.1 | 103.5 | 106.2 | 111.0 | 111.7 | 114.4 | 115.7 | 111.0 |
| 102.5° | 128.0 | 137.5 | 139.6 | 141.6 | 145.0 | 147.7 | 151.1 | 153.2 | 147.7 |
| 105° | 165.4 | 177.0 | 178.4 | 181.1 | 185.2 | 187.9 | 192.0 | 193.4 | 188.6 |
| 107.5° | 207.0 | 215.8 | 219.9 | 221.3 | 225.4 | 228.1 | 233.5 | 234.2 | 230.1 |
| 110° | 247.8 | 256.0 | 261.4 | 262.8 | 266.9 | 269.6 | 275.1 | 275.1 | 271.7 |



TEST NUMBER: P199519

CATALOG NUMBER: S125-DIP-U1-1-30-X-X0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 290.0 | 298.9 | 303.7 | 305.0 | 309.8 | 311.8 | 317.3 | 317.9 | 314.5 |
| 115° | 332.9 | 341.1 | 346.5 | 347.9 | 352.0 | 354.7 | 359.5 | 360.8 | 357.4 |
| 117.5° | 375.8 | 384.0 | 388.1 | 390.8 | 395.6 | 397.6 | 400.3 | 402.4 | 399.0 |
| 120° | 417.3 | 425.5 | 428.9 | 433.0 | 437.8 | 439.8 | 443.9 | 442.5 | 440.5 |
| 122.5° | 459.6 | 467.1 | 470.5 | 475.2 | 480.7 | 481.3 | 484.1 | 483.4 | 482.0 |
| 125° | 500.4 | 506.5 | 512.7 | 515.4 | 521.5 | 521.5 | 529.0 | 522.9 | 522.9 |
| 127.5° | 541.9 | 546.7 | 554.9 | 556.2 | 561.7 | 562.4 | 571.2 | 562.4 | 564.4 |
| 130° | 582.8 | 586.2 | 597.1 | 597.1 | 601.2 | 602.5 | 614.1 | 601.9 | 604.6 |
| 132.5° | 623.0 | 625.7 | 638.6 | 637.3 | 641.3 | 642.7 | 655.6 | 641.3 | 640.7 |
| 135° | 663.1 | 664.5 | 679.5 | 677.4 | 681.5 | 683.6 | 695.1 | 679.5 | 680.2 |
| 137.5° | 702.6 | 701.9 | 717.6 | 716.9 | 721.0 | 722.4 | 733.3 | 714.9 | 719.6 |
| 140° | 742.8 | 738.0 | 754.4 | 755.7 | 759.8 | 761.2 | 768.7 | 754.4 | 758.4 |
| 142.5° | 779.6 | 777.5 | 789.8 | 791.8 | 797.3 | 797.3 | 804.1 | 789.8 | 795.2 |
| 145° | 817.0 | 812.2 | 825.8 | 825.8 | 832.0 | 831.3 | 836.7 | 827.2 | 834.7 |
| 147.5° | 853.8 | 847.6 | 859.2 | 859.9 | 865.3 | 865.3 | 870.1 | 860.6 | 870.1 |
| 150° | 887.1 | 881.7 | 889.8 | 890.5 | 896.0 | 895.3 | 900.1 | 895.3 | 903.5 |
| 152.5° | 919.1 | 913.7 | 919.1 | 918.4 | 925.2 | 923.2 | 929.3 | 925.2 | 934.8 |
| 155° | 949.8 | 943.6 | 948.4 | 945.7 | 951.1 | 950.4 | 957.2 | 955.9 | 963.4 |
| 157.5° | 977.7 | 970.9 | 975.0 | 971.5 | 975.0 | 975.6 | 983.1 | 982.4 | 990.6 |
| 160° | 1003.5 | 996.7 | 999.5 | 993.3 | 996.7 | 997.4 | 1006.9 | 1006.9 | 1015.1 |
| 162.5° | 1026.7 | 1019.2 | 1021.9 | 1012.4 | 1015.8 | 1015.8 | 1028.1 | 1028.1 | 1036.2 |
| 165° | 1046.4 | 1039.6 | 1041.7 | 1030.1 | 1033.5 | 1034.2 | 1046.4 | 1047.1 | 1054.6 |
| 167.5° | 1064.1 | 1056.7 | 1057.3 | 1046.4 | 1049.2 | 1049.8 | 1060.7 | 1062.1 | 1070.9 |
| 170° | 1077.8 | 1070.9 | 1070.9 | 1058.7 | 1060.7 | 1061.4 | 1073.0 | 1075.0 | 1083.9 |
| 172.5° | 1088.6 | 1081.2 | 1079.8 | 1066.9 | 1065.5 | 1068.9 | 1080.5 | 1084.6 | 1092.7 |
| 175° | 1096.8 | 1088.6 | 1086.6 | 1073.7 | 1068.9 | 1075.7 | 1087.3 | 1090.7 | 1100.2 |
| 177.5° | 1100.2 | 1092.1 | 1090.7 | 1077.1 | 1076.4 | 1078.4 | 1089.3 | 1093.4 | 1101.6 |
| 180° | 1089.3 | 1089.3 | 1089.3 | 1089.3 | 1089.3 | 1089.3 | 1089.3 | 1089.3 | 1089.3 |

(END OF REPORT)