

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: P331524-940

Luminaire Tested: **S122DIW-S485D1440U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331524-940
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-S485D1440U940-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6222.8 lumens
Efficiency: N/A
Efficacy: 102.7 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

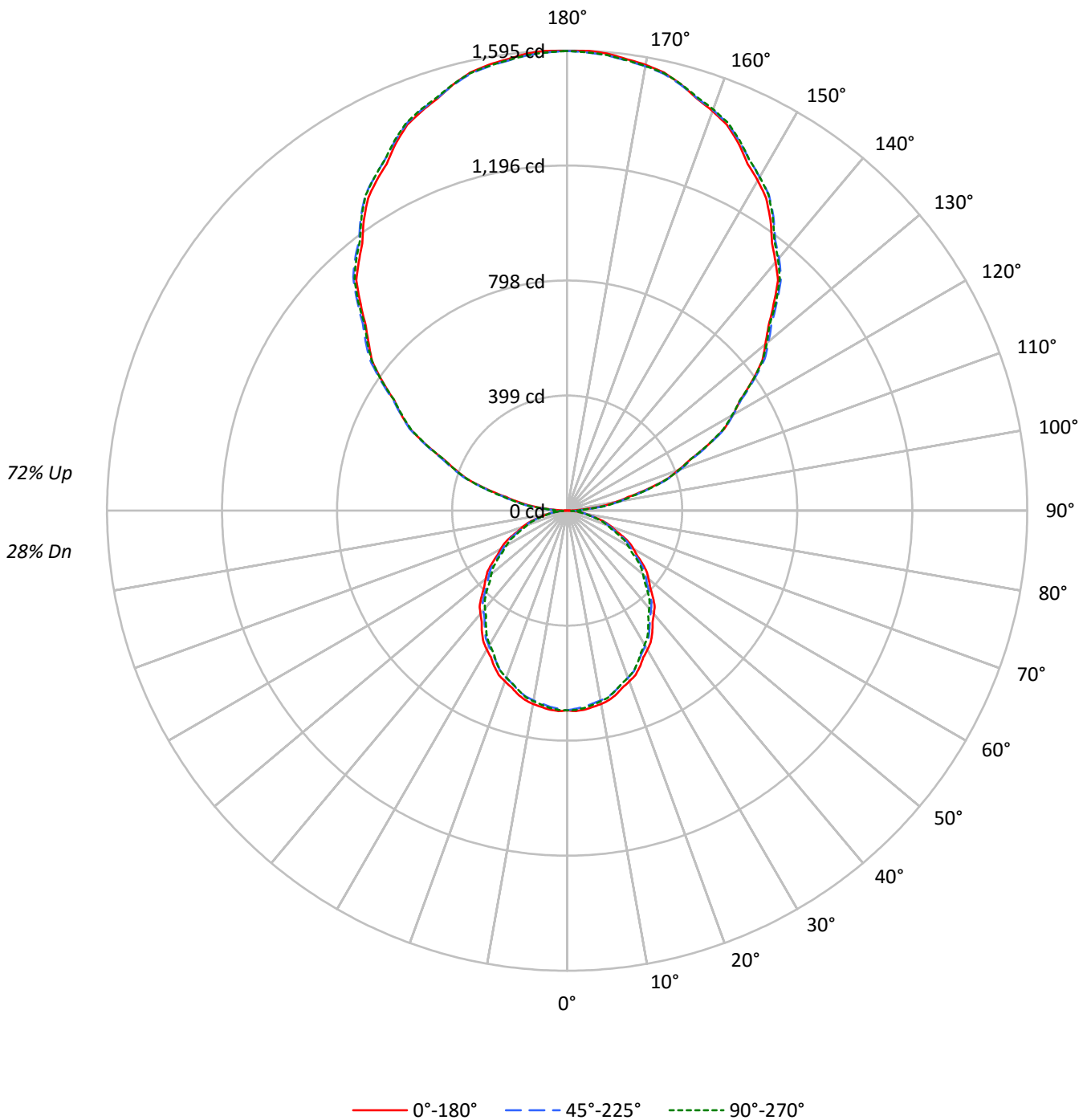
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331524-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331524-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 |
| 1 | 93 | 89 | 85 | 82 | 83 | 80 | 76 | 74 | 62 | 60 | 58 | 47 | 45 | 44 | 32 | 31 | 31 | 24 |
| 2 | 85 | 77 | 72 | 67 | 75 | 69 | 65 | 60 | 55 | 51 | 48 | 41 | 39 | 37 | 28 | 27 | 26 | 20 |
| 3 | 77 | 68 | 61 | 55 | 69 | 61 | 55 | 50 | 48 | 44 | 40 | 36 | 33 | 31 | 25 | 23 | 22 | 17 |
| 4 | 70 | 60 | 52 | 47 | 63 | 54 | 48 | 43 | 43 | 38 | 34 | 32 | 29 | 26 | 22 | 20 | 19 | 15 |
| 5 | 65 | 53 | 46 | 40 | 58 | 48 | 41 | 36 | 38 | 33 | 30 | 29 | 25 | 23 | 20 | 18 | 16 | 13 |
| 6 | 59 | 48 | 40 | 34 | 53 | 43 | 36 | 31 | 34 | 29 | 26 | 26 | 23 | 20 | 18 | 16 | 14 | 11 |
| 7 | 55 | 43 | 35 | 30 | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 23 | 20 | 18 | 17 | 14 | 13 | 10 |
| 8 | 51 | 39 | 31 | 26 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 16 | 15 | 13 | 11 | 9 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 26 | 21 | 18 | 20 | 16 | 14 | 14 | 12 | 10 | 8 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 24 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11183 | 11183 | 11183 |
| 5° | 11225 | 11063 | 11128 |
| 10° | 11158 | 10952 | 11006 |
| 15° | 11020 | 10810 | 10798 |
| 20° | 10825 | 10596 | 10584 |
| 25° | 10630 | 10334 | 10334 |
| 30° | 10381 | 10094 | 10006 |
| 35° | 10147 | 9806 | 9662 |
| 40° | 9853 | 9518 | 9333 |
| 45° | 9565 | 9229 | 9001 |
| 50° | 9251 | 8932 | 8616 |
| 55° | 8923 | 8586 | 8267 |
| 60° | 8557 | 8173 | 7869 |
| 65° | 8164 | 7759 | 7404 |
| 70° | 7671 | 7260 | 6916 |
| 75° | 6981 | 6687 | 6525 |
| 80° | 6192 | 6007 | 5700 |
| 85° | 5057 | 4798 | 4316 |



TEST NUMBER: P331524-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.1 | 1.0 |
| 10°-20° | 183.3 | 2.9 |
| 20°-30° | 269.4 | 4.3 |
| 30°-40° | 312.9 | 5.0 |
| 40°-50° | 312.5 | 5.0 |
| 50°-60° | 272.6 | 4.4 |
| 60°-70° | 201.5 | 3.2 |
| 70°-80° | 114.1 | 1.8 |
| 80°-90° | 37.1 | 0.6 |
| 90°-100° | 100.9 | 1.6 |
| 100°-110° | 313.5 | 5.0 |
| 110°-120° | 535.9 | 8.6 |
| 120°-130° | 704.7 | 11.3 |
| 130°-140° | 791.0 | 12.7 |
| 140°-150° | 775.6 | 12.5 |
| 150°-160° | 650.5 | 10.5 |
| 160°-170° | 431.5 | 6.9 |
| 170°-180° | 150.8 | 2.4 |
| 0°-30° | 517.7 | 8.3 |
| 0°-40° | 830.6 | 13.3 |
| 0°-60° | 1415.7 | 22.8 |
| 0°-90° | 1768.4 | 28.4 |
| 90°-120° | 950.3 | 15.3 |
| 90°-150° | 3221.6 | 51.8 |
| 90°-180° | 4454.0 | 71.6 |
| 0°-180° | 6222.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 693 | 693 | 693 | 693 | 693 | |
| 5° | 693 | 690 | 683 | 688 | 687 | 66 |
| 15° | 659 | 655 | 647 | 649 | 646 | 186 |
| 25° | 597 | 591 | 580 | 581 | 580 | 274 |
| 35° | 515 | 508 | 498 | 494 | 490 | 321 |
| 45° | 419 | 414 | 404 | 397 | 394 | 323 |
| 55° | 317 | 313 | 305 | 297 | 294 | 283 |
| 65° | 214 | 210 | 203 | 197 | 194 | 211 |
| 75° | 112 | 110 | 107 | 104 | 105 | 120 |
| 85° | 27 | 27 | 26 | 24 | 23 | 31 |
| 90° | 1 | 18 | 47 | 45 | 46 | 5 |
| 95° | 70 | 83 | 86 | 86 | 83 | 80 |
| 105° | 289 | 293 | 296 | 298 | 298 | 305 |
| 115° | 538 | 545 | 543 | 542 | 538 | 532 |
| 125° | 782 | 794 | 790 | 787 | 785 | 699 |
| 135° | 1012 | 1026 | 1030 | 1028 | 1024 | 782 |
| 145° | 1229 | 1238 | 1246 | 1247 | 1242 | 767 |
| 155° | 1405 | 1409 | 1413 | 1419 | 1416 | 646 |
| 165° | 1528 | 1527 | 1527 | 1536 | 1530 | 431 |
| 175° | 1590 | 1586 | 1584 | 1592 | 1585 | 151 |
| 180° | 1593 | 1593 | 1593 | 1593 | 1593 | |



TEST NUMBER: P331524-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 |
| 2.5° | 695.8 | 695.2 | 694.6 | 694.0 | 693.4 | 692.5 | 691.2 | 689.9 | 688.6 | 687.2 | 688.5 |
| 5° | 692.6 | 692.0 | 691.4 | 690.8 | 690.3 | 689.1 | 687.5 | 685.9 | 684.2 | 682.6 | 683.8 |
| 7.5° | 686.4 | 685.5 | 684.7 | 683.7 | 682.8 | 681.5 | 679.8 | 678.2 | 676.5 | 674.8 | 676.1 |
| 10° | 680.6 | 679.6 | 678.5 | 677.5 | 676.5 | 675.0 | 673.2 | 671.5 | 669.8 | 668.0 | 669.1 |
| 12.5° | 672.6 | 671.7 | 670.7 | 669.9 | 669.0 | 667.6 | 665.8 | 664.1 | 662.3 | 660.5 | 661.3 |
| 15° | 659.3 | 658.4 | 657.5 | 656.7 | 655.8 | 654.3 | 652.4 | 650.5 | 648.5 | 646.7 | 647.2 |
| 17.5° | 642.2 | 641.4 | 640.5 | 639.6 | 638.7 | 637.3 | 635.3 | 633.4 | 631.4 | 629.5 | 630.2 |
| 20° | 630.0 | 629.1 | 628.2 | 627.3 | 626.4 | 625.0 | 622.9 | 620.8 | 618.8 | 616.7 | 617.2 |
| 22.5° | 617.8 | 616.5 | 615.3 | 614.0 | 612.8 | 611.2 | 609.2 | 607.3 | 605.3 | 603.3 | 603.4 |
| 25° | 596.7 | 595.5 | 594.3 | 593.2 | 592.0 | 590.1 | 587.6 | 585.1 | 582.6 | 580.1 | 580.3 |
| 27.5° | 572.7 | 571.7 | 570.6 | 569.5 | 568.5 | 566.9 | 565.0 | 562.9 | 561.0 | 559.0 | 558.6 |
| 30° | 556.8 | 555.5 | 554.4 | 553.2 | 552.0 | 550.3 | 548.0 | 545.9 | 543.7 | 541.4 | 541.0 |
| 32.5° | 539.7 | 538.8 | 537.8 | 536.8 | 535.9 | 534.2 | 531.9 | 529.6 | 527.3 | 525.0 | 524.1 |
| 35° | 514.8 | 513.3 | 511.8 | 510.3 | 508.9 | 506.9 | 504.6 | 502.2 | 499.8 | 497.5 | 496.6 |
| 37.5° | 486.7 | 485.4 | 484.1 | 482.8 | 481.4 | 479.7 | 477.2 | 474.9 | 472.5 | 470.2 | 469.0 |
| 40° | 467.5 | 466.3 | 465.1 | 464.0 | 462.8 | 461.0 | 458.6 | 456.3 | 453.9 | 451.6 | 450.2 |
| 42.5° | 448.9 | 447.6 | 446.5 | 445.3 | 444.2 | 442.4 | 440.0 | 437.7 | 435.2 | 432.8 | 431.4 |
| 45° | 418.9 | 417.9 | 416.8 | 415.8 | 414.7 | 413.1 | 410.9 | 408.7 | 406.4 | 404.2 | 402.6 |
| 47.5° | 389.1 | 388.1 | 387.1 | 386.1 | 385.1 | 383.5 | 381.2 | 378.9 | 376.6 | 374.3 | 372.6 |
| 50° | 368.3 | 367.6 | 366.8 | 366.0 | 365.3 | 363.9 | 361.9 | 359.8 | 357.7 | 355.6 | 353.6 |
| 52.5° | 348.0 | 347.1 | 346.1 | 345.1 | 344.1 | 342.7 | 340.7 | 338.8 | 336.8 | 334.8 | 333.1 |
| 55° | 317.0 | 316.1 | 315.2 | 314.3 | 313.4 | 312.1 | 310.3 | 308.5 | 306.7 | 305.0 | 303.3 |
| 57.5° | 285.8 | 285.1 | 284.4 | 283.7 | 283.0 | 281.7 | 279.7 | 277.8 | 275.8 | 273.8 | 272.1 |
| 60° | 265.0 | 264.5 | 263.9 | 263.2 | 262.7 | 261.4 | 259.3 | 257.2 | 255.1 | 253.1 | 251.5 |
| 62.5° | 244.8 | 243.9 | 242.9 | 241.9 | 241.0 | 239.8 | 238.2 | 236.6 | 235.0 | 233.4 | 231.8 |
| 65° | 213.7 | 212.9 | 212.0 | 211.1 | 210.3 | 209.0 | 207.6 | 206.1 | 204.6 | 203.1 | 201.8 |
| 67.5° | 182.2 | 181.5 | 180.7 | 180.0 | 179.3 | 178.3 | 177.0 | 175.7 | 174.3 | 173.0 | 172.0 |
| 70° | 162.5 | 161.9 | 161.3 | 160.7 | 160.2 | 159.2 | 157.8 | 156.5 | 155.2 | 153.8 | 152.8 |
| 72.5° | 142.2 | 141.7 | 141.1 | 140.4 | 139.9 | 139.2 | 138.3 | 137.4 | 136.6 | 135.7 | 134.6 |
| 75° | 111.9 | 111.6 | 111.3 | 111.0 | 110.7 | 110.2 | 109.4 | 108.7 | 108.0 | 107.2 | 106.3 |
| 77.5° | 84.7 | 84.2 | 83.7 | 83.2 | 82.7 | 82.3 | 82.0 | 81.7 | 81.4 | 81.1 | 80.7 |
| 80° | 66.6 | 66.4 | 66.3 | 66.2 | 66.0 | 65.8 | 65.5 | 65.2 | 64.9 | 64.6 | 64.1 |
| 82.5° | 49.6 | 49.5 | 49.5 | 49.5 | 49.4 | 49.3 | 49.1 | 49.0 | 48.8 | 48.6 | 48.1 |
| 85° | 27.3 | 27.2 | 27.0 | 26.8 | 26.8 | 26.6 | 26.4 | 26.3 | 26.1 | 25.9 | 25.5 |
| 87.5° | 9.9 | 10.3 | 10.8 | 11.3 | 11.8 | 12.6 | 13.6 | 14.7 | 15.8 | 16.9 | 16.4 |
| 90° | 1.3 | 4.9 | 8.5 | 12.1 | 15.7 | 20.8 | 27.4 | 33.9 | 40.5 | 47.1 | 46.5 |
| 92.5° | 23.9 | 26.6 | 29.2 | 31.8 | 34.4 | 36.6 | 38.1 | 39.7 | 41.2 | 42.7 | 42.9 |
| 95° | 69.9 | 72.9 | 75.9 | 78.8 | 81.9 | 83.6 | 84.3 | 84.8 | 85.4 | 86.1 | 86.1 |
| 97.5° | 127.7 | 130.4 | 133.0 | 135.6 | 138.2 | 140.1 | 141.2 | 142.4 | 143.5 | 144.6 | 144.6 |
| 100° | 170.8 | 173.1 | 175.5 | 177.9 | 180.3 | 181.9 | 182.8 | 183.7 | 184.6 | 185.5 | 185.5 |
| 102.5° | 215.9 | 217.8 | 219.7 | 221.6 | 223.6 | 225.1 | 226.2 | 227.3 | 228.5 | 229.6 | 229.9 |
| 105° | 289.0 | 289.9 | 290.8 | 291.7 | 292.6 | 293.4 | 294.0 | 294.5 | 295.2 | 295.8 | 296.3 |
| 107.5° | 362.7 | 364.0 | 365.3 | 366.7 | 367.9 | 368.6 | 368.6 | 368.6 | 368.6 | 368.6 | 368.8 |
| 110° | 410.0 | 411.8 | 413.6 | 415.4 | 417.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 |



TEST NUMBER: P331524-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 461.6 | 463.4 | 465.2 | 467.0 | 468.8 | 469.6 | 469.3 | 469.1 | 468.9 | 468.6 | 467.9 |
| 115° | 537.7 | 539.5 | 541.3 | 543.1 | 544.9 | 545.5 | 544.9 | 544.3 | 543.7 | 543.1 | 542.8 |
| 117.5° | 613.6 | 615.9 | 618.3 | 620.7 | 623.1 | 623.5 | 621.8 | 620.1 | 618.4 | 616.8 | 616.1 |
| 120° | 664.1 | 666.5 | 668.9 | 671.3 | 673.7 | 673.7 | 671.3 | 668.9 | 666.5 | 664.1 | 664.1 |
| 122.5° | 710.3 | 713.2 | 716.0 | 718.9 | 721.8 | 722.4 | 720.8 | 719.1 | 717.4 | 715.7 | 715.0 |
| 125° | 782.4 | 785.1 | 787.7 | 790.4 | 793.2 | 794.1 | 793.2 | 792.3 | 791.4 | 790.4 | 789.5 |
| 127.5° | 852.6 | 856.0 | 859.3 | 862.8 | 866.2 | 867.4 | 866.3 | 865.2 | 864.2 | 863.1 | 861.9 |
| 130° | 896.6 | 900.5 | 904.5 | 908.3 | 912.2 | 913.8 | 913.2 | 912.7 | 912.0 | 911.4 | 910.9 |
| 132.5° | 946.1 | 949.3 | 952.4 | 955.6 | 958.8 | 960.5 | 960.6 | 960.6 | 960.8 | 960.9 | 959.6 |
| 135° | 1012.3 | 1015.6 | 1018.9 | 1022.1 | 1025.4 | 1027.3 | 1028.0 | 1028.6 | 1029.1 | 1029.7 | 1029.5 |
| 137.5° | 1081.9 | 1084.6 | 1087.3 | 1089.9 | 1092.6 | 1094.4 | 1095.2 | 1095.9 | 1096.7 | 1097.5 | 1097.3 |
| 140° | 1123.8 | 1126.5 | 1129.3 | 1131.9 | 1134.6 | 1136.7 | 1138.2 | 1139.7 | 1141.2 | 1142.6 | 1142.6 |
| 142.5° | 1166.9 | 1169.6 | 1172.2 | 1174.9 | 1177.6 | 1179.5 | 1180.4 | 1181.5 | 1182.5 | 1183.6 | 1183.7 |
| 145° | 1228.7 | 1230.8 | 1232.9 | 1234.9 | 1237.1 | 1239.0 | 1240.8 | 1242.6 | 1244.4 | 1246.2 | 1246.4 |
| 147.5° | 1283.8 | 1286.3 | 1288.8 | 1291.4 | 1293.9 | 1295.7 | 1296.9 | 1298.1 | 1299.3 | 1300.5 | 1301.2 |
| 150° | 1321.4 | 1323.2 | 1325.1 | 1326.9 | 1328.6 | 1330.1 | 1331.3 | 1332.5 | 1333.7 | 1334.9 | 1335.8 |
| 152.5° | 1354.8 | 1356.6 | 1358.3 | 1360.1 | 1362.0 | 1363.6 | 1365.0 | 1366.5 | 1367.9 | 1369.3 | 1370.5 |
| 155° | 1404.8 | 1405.7 | 1406.6 | 1407.5 | 1408.4 | 1409.3 | 1410.2 | 1411.0 | 1411.9 | 1412.8 | 1414.3 |
| 157.5° | 1447.5 | 1448.1 | 1448.8 | 1449.4 | 1449.9 | 1450.5 | 1451.1 | 1451.6 | 1452.2 | 1452.7 | 1454.6 |
| 160° | 1473.4 | 1474.0 | 1474.5 | 1475.2 | 1475.8 | 1476.2 | 1476.5 | 1476.8 | 1477.1 | 1477.4 | 1479.2 |
| 162.5° | 1497.0 | 1497.2 | 1497.3 | 1497.4 | 1497.5 | 1497.7 | 1498.0 | 1498.3 | 1498.6 | 1498.9 | 1500.9 |
| 165° | 1528.5 | 1528.2 | 1527.9 | 1527.6 | 1527.3 | 1527.1 | 1527.1 | 1527.1 | 1527.1 | 1527.1 | 1529.2 |
| 167.5° | 1554.8 | 1553.9 | 1553.0 | 1552.1 | 1551.2 | 1550.8 | 1550.7 | 1550.7 | 1550.6 | 1550.5 | 1552.6 |
| 170° | 1568.8 | 1567.9 | 1567.0 | 1566.1 | 1565.2 | 1564.6 | 1564.3 | 1564.1 | 1563.7 | 1563.4 | 1565.5 |
| 172.5° | 1578.5 | 1577.6 | 1576.7 | 1575.8 | 1574.9 | 1574.3 | 1574.0 | 1573.7 | 1573.4 | 1573.1 | 1575.2 |
| 175° | 1590.3 | 1589.4 | 1588.5 | 1587.6 | 1586.7 | 1586.0 | 1585.4 | 1584.7 | 1584.2 | 1583.6 | 1585.7 |
| 177.5° | 1595.2 | 1594.5 | 1593.8 | 1593.0 | 1592.3 | 1591.7 | 1591.2 | 1590.7 | 1590.3 | 1589.7 | 1591.2 |
| 180° | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 |



TEST NUMBER: P331524-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 |
| 2.5° | 689.6 | 690.8 | 692.0 | 692.5 | 692.2 | 692.0 | 691.8 | 691.5 |
| 5° | 685.0 | 686.2 | 687.3 | 687.8 | 687.5 | 687.2 | 686.9 | 686.6 |
| 7.5° | 677.3 | 678.4 | 679.7 | 680.0 | 679.8 | 679.4 | 679.0 | 678.8 |
| 10° | 670.3 | 671.5 | 672.7 | 673.1 | 672.6 | 672.2 | 671.7 | 671.3 |
| 12.5° | 662.2 | 663.0 | 663.8 | 664.1 | 663.7 | 663.4 | 663.1 | 662.7 |
| 15° | 647.8 | 648.5 | 649.0 | 648.9 | 648.2 | 647.5 | 646.8 | 646.0 |
| 17.5° | 630.8 | 631.5 | 632.2 | 632.1 | 631.4 | 630.8 | 630.1 | 629.4 |
| 20° | 617.6 | 618.0 | 618.5 | 618.4 | 617.8 | 617.2 | 616.6 | 616.0 |
| 22.5° | 603.5 | 603.6 | 603.7 | 603.6 | 603.2 | 602.9 | 602.5 | 602.2 |
| 25° | 580.7 | 580.9 | 581.2 | 581.2 | 580.9 | 580.7 | 580.3 | 580.1 |
| 27.5° | 558.1 | 557.7 | 557.2 | 556.7 | 556.0 | 555.3 | 554.6 | 553.8 |
| 30° | 540.6 | 540.1 | 539.7 | 539.1 | 538.5 | 538.0 | 537.3 | 536.7 |
| 32.5° | 523.3 | 522.5 | 521.7 | 521.0 | 520.4 | 519.9 | 519.2 | 518.6 |
| 35° | 495.7 | 494.8 | 493.9 | 493.1 | 492.4 | 491.6 | 490.9 | 490.2 |
| 37.5° | 468.0 | 466.9 | 465.8 | 464.8 | 464.1 | 463.4 | 462.7 | 462.1 |
| 40° | 448.9 | 447.5 | 446.2 | 445.2 | 444.6 | 444.1 | 443.4 | 442.8 |
| 42.5° | 430.0 | 428.6 | 427.0 | 426.0 | 425.1 | 424.3 | 423.5 | 422.6 |
| 45° | 401.0 | 399.4 | 397.7 | 396.6 | 396.0 | 395.5 | 394.8 | 394.2 |
| 47.5° | 370.9 | 369.1 | 367.4 | 366.1 | 365.2 | 364.4 | 363.6 | 362.7 |
| 50° | 351.5 | 349.4 | 347.3 | 345.9 | 345.2 | 344.5 | 343.7 | 343.0 |
| 52.5° | 331.4 | 329.7 | 328.0 | 326.6 | 325.7 | 324.7 | 323.7 | 322.7 |
| 55° | 301.5 | 299.7 | 297.9 | 296.7 | 295.9 | 295.2 | 294.4 | 293.7 |
| 57.5° | 270.4 | 268.6 | 266.9 | 265.7 | 265.1 | 264.6 | 264.0 | 263.4 |
| 60° | 249.8 | 248.2 | 246.6 | 245.5 | 245.0 | 244.6 | 244.2 | 243.7 |
| 62.5° | 230.3 | 228.8 | 227.3 | 226.3 | 225.7 | 225.2 | 224.6 | 224.0 |
| 65° | 200.5 | 199.1 | 197.8 | 196.7 | 196.0 | 195.3 | 194.6 | 193.8 |
| 67.5° | 170.9 | 169.9 | 168.9 | 168.1 | 167.5 | 166.8 | 166.3 | 165.7 |
| 70° | 151.8 | 150.7 | 149.7 | 148.9 | 148.3 | 147.7 | 147.1 | 146.5 |
| 72.5° | 133.7 | 132.6 | 131.6 | 130.8 | 130.4 | 129.8 | 129.4 | 128.9 |
| 75° | 105.4 | 104.6 | 103.7 | 103.3 | 103.7 | 104.0 | 104.2 | 104.6 |
| 77.5° | 80.3 | 79.8 | 79.4 | 78.9 | 78.5 | 78.1 | 77.7 | 77.2 |
| 80° | 63.7 | 63.2 | 62.9 | 62.4 | 62.2 | 61.9 | 61.5 | 61.3 |
| 82.5° | 47.5 | 46.9 | 46.4 | 46.0 | 46.0 | 45.9 | 45.8 | 45.8 |
| 85° | 25.1 | 24.6 | 24.2 | 23.9 | 23.7 | 23.6 | 23.5 | 23.3 |
| 87.5° | 16.0 | 15.4 | 15.0 | 14.7 | 14.6 | 14.6 | 14.5 | 14.4 |
| 90° | 45.8 | 45.3 | 44.7 | 44.5 | 44.9 | 45.1 | 45.4 | 45.7 |
| 92.5° | 43.0 | 43.1 | 43.2 | 43.3 | 43.3 | 43.4 | 43.5 | 43.5 |
| 95° | 86.1 | 86.1 | 86.1 | 85.7 | 85.2 | 84.5 | 83.9 | 83.4 |
| 97.5° | 144.6 | 144.6 | 144.6 | 144.6 | 144.5 | 144.5 | 144.5 | 144.4 |
| 100° | 185.5 | 185.5 | 185.5 | 185.4 | 185.0 | 184.8 | 184.5 | 184.1 |
| 102.5° | 230.1 | 230.3 | 230.6 | 230.5 | 230.2 | 230.0 | 229.6 | 229.3 |
| 105° | 296.9 | 297.6 | 298.1 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 |
| 107.5° | 369.1 | 369.3 | 369.5 | 369.0 | 367.7 | 366.2 | 364.9 | 363.5 |
| 110° | 418.1 | 418.1 | 418.1 | 417.6 | 416.7 | 415.8 | 414.9 | 414.0 |



TEST NUMBER: P331524-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 467.2 | 466.5 | 465.7 | 465.0 | 464.4 | 463.8 | 463.1 | 462.4 |
| 115° | 542.5 | 542.2 | 541.9 | 541.3 | 540.4 | 539.5 | 538.6 | 537.7 |
| 117.5° | 615.4 | 614.7 | 613.9 | 613.1 | 612.2 | 611.3 | 610.4 | 609.5 |
| 120° | 664.1 | 664.1 | 664.1 | 663.6 | 662.7 | 661.8 | 660.9 | 660.0 |
| 122.5° | 714.3 | 713.5 | 712.8 | 712.1 | 711.5 | 710.9 | 710.2 | 709.5 |
| 125° | 788.6 | 787.7 | 786.8 | 786.3 | 786.0 | 785.7 | 785.4 | 785.1 |
| 127.5° | 860.9 | 859.8 | 858.7 | 857.7 | 856.8 | 855.8 | 854.9 | 853.9 |
| 130° | 910.3 | 909.6 | 909.0 | 908.1 | 907.0 | 905.8 | 904.6 | 903.4 |
| 132.5° | 958.3 | 957.0 | 955.6 | 954.5 | 953.6 | 952.6 | 951.6 | 950.7 |
| 135° | 1029.1 | 1028.9 | 1028.6 | 1028.0 | 1027.1 | 1026.2 | 1025.3 | 1024.4 |
| 137.5° | 1097.0 | 1096.8 | 1096.5 | 1095.8 | 1094.7 | 1093.4 | 1092.3 | 1091.0 |
| 140° | 1142.6 | 1142.6 | 1142.6 | 1142.1 | 1140.9 | 1139.7 | 1138.4 | 1137.3 |
| 142.5° | 1184.0 | 1184.3 | 1184.5 | 1184.0 | 1182.9 | 1181.6 | 1180.4 | 1179.2 |
| 145° | 1246.8 | 1247.1 | 1247.3 | 1246.9 | 1245.7 | 1244.6 | 1243.3 | 1242.2 |
| 147.5° | 1301.8 | 1302.4 | 1303.1 | 1302.9 | 1301.7 | 1300.6 | 1299.5 | 1298.3 |
| 150° | 1336.7 | 1337.6 | 1338.5 | 1338.5 | 1337.6 | 1336.7 | 1335.8 | 1334.9 |
| 152.5° | 1371.5 | 1372.7 | 1373.9 | 1373.9 | 1372.7 | 1371.5 | 1370.5 | 1369.3 |
| 155° | 1415.9 | 1417.4 | 1418.8 | 1419.2 | 1418.3 | 1417.4 | 1416.5 | 1415.6 |
| 157.5° | 1456.7 | 1458.7 | 1460.8 | 1461.1 | 1459.6 | 1458.2 | 1456.8 | 1455.4 |
| 160° | 1481.0 | 1482.7 | 1484.5 | 1484.9 | 1483.6 | 1482.5 | 1481.3 | 1480.1 |
| 162.5° | 1503.0 | 1505.0 | 1507.0 | 1507.3 | 1505.9 | 1504.5 | 1503.1 | 1501.6 |
| 165° | 1531.3 | 1533.4 | 1535.5 | 1535.8 | 1534.3 | 1532.9 | 1531.3 | 1529.8 |
| 167.5° | 1554.7 | 1556.8 | 1558.9 | 1559.2 | 1557.6 | 1556.0 | 1554.5 | 1552.9 |
| 170° | 1567.6 | 1569.7 | 1571.8 | 1571.9 | 1570.1 | 1568.3 | 1566.6 | 1564.8 |
| 172.5° | 1577.3 | 1579.4 | 1581.4 | 1581.6 | 1579.8 | 1578.1 | 1576.3 | 1574.5 |
| 175° | 1587.8 | 1589.8 | 1592.0 | 1592.1 | 1590.3 | 1588.5 | 1586.7 | 1584.9 |
| 177.5° | 1592.7 | 1594.1 | 1595.5 | 1595.5 | 1594.1 | 1592.7 | 1591.2 | 1589.7 |
| 180° | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 |

(END OF REPORT)