

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: P331522-930

Luminaire Tested: **S122DIW-S485D1440U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331522-930
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-S485D1440U930-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, DROP 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: 5681.3 lumens
Efficiency: N/A
Efficacy: 93.8 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

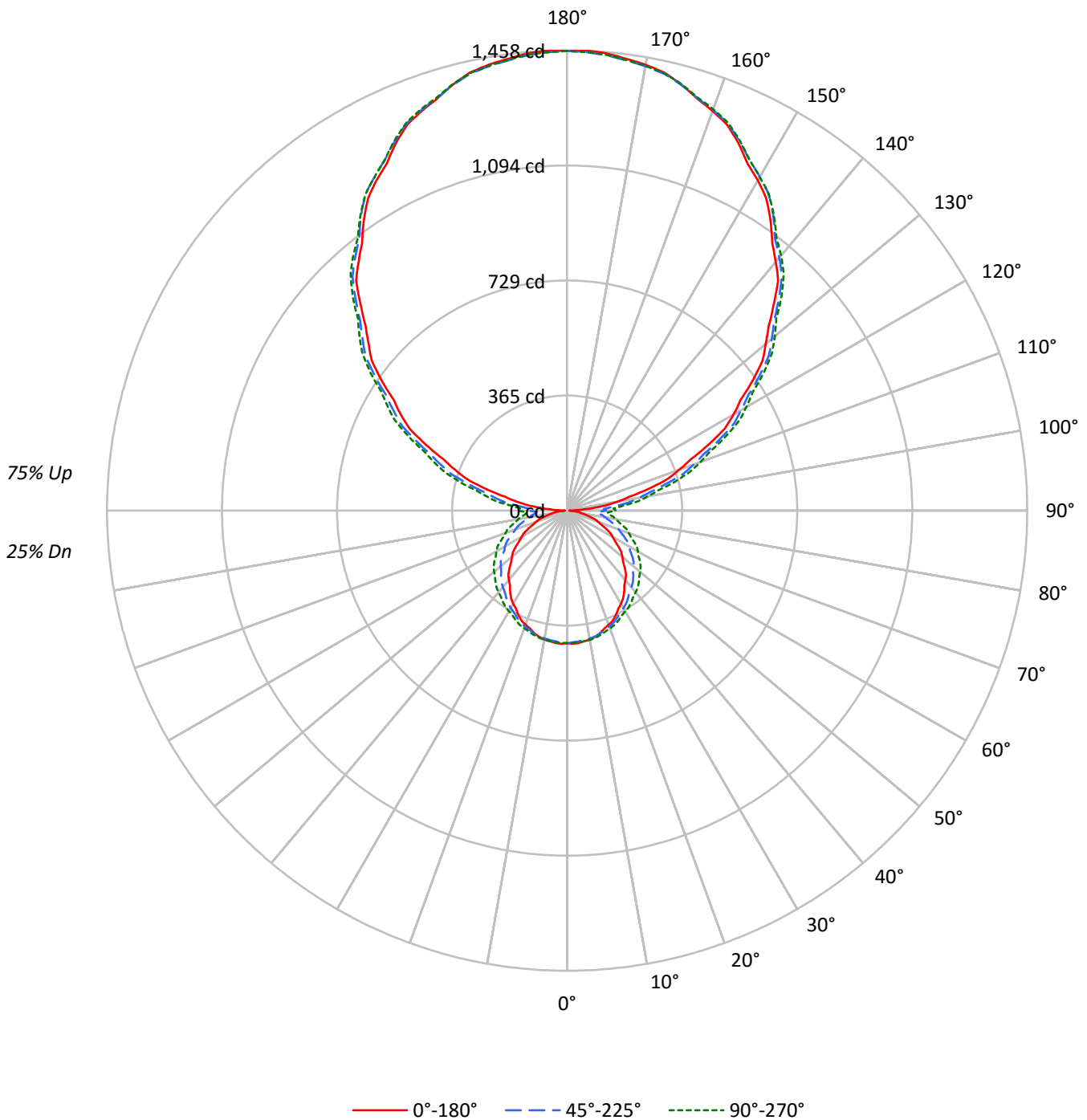
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331522-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331522-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-D1

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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 33 | 33 | 33 | 25 | | | | |
| 1 | 91 | 87 | 83 | 79 | 81 | 77 | 74 | 71 | 60 | 57 | 55 | 43 | 42 | 40 | 28 | 27 | 27 | 20 | | | | |
| 2 | 83 | 75 | 69 | 64 | 73 | 67 | 62 | 58 | 52 | 48 | 45 | 37 | 35 | 33 | 24 | 23 | 22 | 16 | | | | |
| 3 | 75 | 66 | 59 | 53 | 67 | 59 | 53 | 48 | 45 | 41 | 37 | 33 | 30 | 28 | 21 | 20 | 18 | 13 | | | | |
| 4 | 69 | 58 | 50 | 44 | 61 | 52 | 45 | 40 | 40 | 35 | 32 | 29 | 26 | 23 | 19 | 17 | 15 | 11 | | | | |
| 5 | 63 | 51 | 43 | 38 | 56 | 46 | 39 | 34 | 36 | 31 | 27 | 26 | 23 | 20 | 17 | 15 | 13 | 9 | | | | |
| 6 | 58 | 46 | 38 | 32 | 51 | 41 | 34 | 29 | 32 | 27 | 23 | 23 | 20 | 17 | 15 | 13 | 12 | 8 | | | | |
| 7 | 53 | 41 | 33 | 28 | 47 | 37 | 30 | 25 | 29 | 24 | 20 | 21 | 18 | 15 | 14 | 12 | 10 | 7 | | | | |
| 8 | 49 | 37 | 30 | 25 | 44 | 33 | 27 | 22 | 26 | 21 | 18 | 19 | 16 | 13 | 13 | 11 | 9 | 6 | | | | |
| 9 | 46 | 34 | 27 | 22 | 41 | 30 | 24 | 20 | 24 | 19 | 16 | 18 | 14 | 12 | 12 | 10 | 8 | 6 | | | | |
| 10 | 43 | 31 | 24 | 19 | 38 | 28 | 22 | 17 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9 | 7 | 5 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6783 | 6783 | 6783 |
| 5° | 6816 | 6530 | 6505 |
| 10° | 6774 | 6337 | 6266 |
| 15° | 6681 | 6133 | 6014 |
| 20° | 6562 | 5913 | 5771 |
| 25° | 6445 | 5701 | 5552 |
| 30° | 6282 | 5486 | 5330 |
| 35° | 6116 | 5276 | 5174 |
| 40° | 5941 | 5099 | 5017 |
| 45° | 5775 | 4940 | 4885 |
| 50° | 5598 | 4794 | 4753 |
| 55° | 5410 | 4638 | 4620 |
| 60° | 5180 | 4477 | 4479 |
| 65° | 4944 | 4290 | 4310 |
| 70° | 4679 | 4085 | 4131 |
| 75° | 4335 | 3888 | 3964 |
| 80° | 3800 | 3685 | 3794 |
| 85° | 3277 | 3510 | 3661 |



TEST NUMBER: P331522-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.8 | 0.7 |
| 10°-20° | 114.2 | 2.0 |
| 20°-30° | 173.0 | 3.0 |
| 30°-40° | 210.7 | 3.7 |
| 40°-50° | 226.7 | 4.0 |
| 50°-60° | 220.1 | 3.9 |
| 60°-70° | 192.2 | 3.4 |
| 70°-80° | 148.0 | 2.6 |
| 80°-90° | 105.1 | 1.9 |
| 90°-100° | 160.7 | 2.8 |
| 100°-110° | 336.6 | 5.9 |
| 110°-120° | 523.0 | 9.2 |
| 120°-130° | 662.8 | 11.7 |
| 130°-140° | 730.9 | 12.9 |
| 140°-150° | 710.4 | 12.5 |
| 150°-160° | 594.8 | 10.5 |
| 160°-170° | 394.5 | 6.9 |
| 170°-180° | 137.9 | 2.4 |
| 0°-30° | 327.0 | 5.8 |
| 0°-40° | 537.7 | 9.5 |
| 0°-60° | 984.5 | 17.3 |
| 0°-90° | 1429.8 | 25.2 |
| 90°-120° | 1020.3 | 18.0 |
| 90°-150° | 3124.4 | 55.0 |
| 90°-180° | 4251.0 | 74.8 |
| 0°-180° | 5681.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 420 | 420 | 420 | 420 | 420 | |
| 5° | 421 | 419 | 416 | 419 | 419 | 40 |
| 15° | 402 | 403 | 403 | 408 | 408 | 113 |
| 25° | 365 | 370 | 375 | 382 | 384 | 168 |
| 35° | 315 | 325 | 337 | 350 | 354 | 197 |
| 45° | 258 | 275 | 296 | 314 | 321 | 199 |
| 55° | 198 | 220 | 251 | 273 | 281 | 177 |
| 65° | 135 | 165 | 201 | 225 | 234 | 134 |
| 75° | 75 | 109 | 148 | 173 | 182 | 79 |
| 85° | 22 | 60 | 99 | 123 | 133 | 24 |
| 90° | 7 | 58 | 123 | 145 | 154 | 7 |
| 95° | 69 | 110 | 149 | 171 | 177 | 77 |
| 105° | 267 | 289 | 323 | 346 | 353 | 283 |
| 115° | 494 | 509 | 533 | 549 | 553 | 488 |
| 125° | 717 | 728 | 743 | 756 | 760 | 640 |
| 135° | 926 | 939 | 948 | 959 | 961 | 715 |
| 145° | 1123 | 1132 | 1139 | 1144 | 1142 | 702 |
| 155° | 1284 | 1288 | 1292 | 1297 | 1294 | 591 |
| 165° | 1398 | 1396 | 1396 | 1404 | 1399 | 394 |
| 175° | 1454 | 1450 | 1448 | 1456 | 1449 | 138 |
| 180° | 1456 | 1456 | 1456 | 1456 | 1456 | |



TEST NUMBER: P331522-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 |
| 2.5° | 422.6 | 422.2 | 421.9 | 421.6 | 421.3 | 420.7 | 420.0 | 419.2 | 418.5 | 417.7 | 418.2 |
| 5° | 421.3 | 420.9 | 420.5 | 420.1 | 419.7 | 419.1 | 418.3 | 417.5 | 416.7 | 415.9 | 416.7 |
| 7.5° | 417.6 | 417.3 | 417.0 | 416.8 | 416.5 | 416.0 | 415.4 | 414.8 | 414.2 | 413.5 | 414.5 |
| 10° | 414.7 | 414.4 | 414.1 | 413.8 | 413.6 | 413.3 | 412.9 | 412.5 | 412.1 | 411.6 | 412.7 |
| 12.5° | 409.8 | 409.9 | 409.9 | 409.9 | 410.0 | 409.9 | 409.6 | 409.3 | 409.0 | 408.7 | 409.8 |
| 15° | 401.9 | 402.1 | 402.4 | 402.7 | 402.9 | 403.1 | 403.1 | 403.1 | 403.1 | 403.1 | 404.3 |
| 17.5° | 391.7 | 392.2 | 392.8 | 393.4 | 394.0 | 394.4 | 394.8 | 395.3 | 395.7 | 396.2 | 397.4 |
| 20° | 384.8 | 385.5 | 386.2 | 386.9 | 387.5 | 388.2 | 388.7 | 389.2 | 389.8 | 390.3 | 391.8 |
| 22.5° | 377.5 | 378.3 | 379.1 | 379.8 | 380.7 | 381.4 | 382.2 | 382.9 | 383.7 | 384.5 | 386.0 |
| 25° | 365.3 | 366.3 | 367.2 | 368.2 | 369.1 | 370.2 | 371.5 | 372.7 | 373.9 | 375.0 | 376.7 |
| 27.5° | 350.7 | 352.3 | 353.8 | 355.4 | 356.9 | 358.4 | 359.8 | 361.3 | 362.6 | 364.1 | 366.2 |
| 30° | 341.0 | 342.8 | 344.5 | 346.3 | 348.1 | 349.8 | 351.6 | 353.3 | 355.1 | 356.8 | 359.0 |
| 32.5° | 330.3 | 332.2 | 334.2 | 336.2 | 338.2 | 340.2 | 342.3 | 344.4 | 346.4 | 348.5 | 351.0 |
| 35° | 314.8 | 317.1 | 319.4 | 321.7 | 324.0 | 326.4 | 329.0 | 331.6 | 334.1 | 336.7 | 339.7 |
| 37.5° | 298.0 | 300.7 | 303.3 | 306.0 | 308.6 | 311.6 | 315.0 | 318.2 | 321.6 | 324.9 | 328.2 |
| 40° | 286.8 | 289.8 | 292.8 | 295.7 | 298.7 | 302.0 | 305.7 | 309.3 | 313.0 | 316.7 | 320.2 |
| 42.5° | 276.1 | 279.1 | 282.0 | 285.0 | 288.0 | 291.6 | 295.8 | 299.9 | 304.2 | 308.3 | 312.2 |
| 45° | 258.2 | 261.8 | 265.5 | 269.1 | 272.8 | 277.0 | 281.7 | 286.4 | 291.2 | 296.0 | 300.1 |
| 47.5° | 240.5 | 244.5 | 248.5 | 252.4 | 256.4 | 261.2 | 266.8 | 272.3 | 277.9 | 283.4 | 287.8 |
| 50° | 228.4 | 232.5 | 236.8 | 240.9 | 245.1 | 250.2 | 256.3 | 262.4 | 268.6 | 274.6 | 279.2 |
| 52.5° | 216.6 | 221.0 | 225.4 | 229.9 | 234.3 | 239.7 | 246.1 | 252.5 | 258.9 | 265.4 | 270.0 |
| 55° | 197.9 | 202.8 | 207.7 | 212.5 | 217.4 | 223.3 | 230.4 | 237.4 | 244.4 | 251.4 | 256.3 |
| 57.5° | 179.4 | 184.9 | 190.4 | 195.8 | 201.4 | 207.7 | 214.8 | 222.0 | 229.2 | 236.4 | 241.7 |
| 60° | 166.2 | 172.0 | 177.9 | 183.7 | 189.5 | 196.2 | 204.0 | 211.7 | 219.4 | 227.1 | 232.3 |
| 62.5° | 154.5 | 160.5 | 166.6 | 172.7 | 178.7 | 185.6 | 193.2 | 201.0 | 208.7 | 216.4 | 221.8 |
| 65° | 135.2 | 141.8 | 148.5 | 155.1 | 161.7 | 169.0 | 177.0 | 185.0 | 193.0 | 201.0 | 206.5 |
| 67.5° | 117.4 | 124.3 | 131.3 | 138.2 | 145.1 | 152.6 | 160.9 | 169.0 | 177.2 | 185.3 | 190.9 |
| 70° | 104.8 | 111.8 | 118.8 | 125.8 | 132.9 | 140.6 | 149.0 | 157.4 | 165.8 | 174.1 | 179.9 |
| 72.5° | 93.0 | 100.3 | 107.5 | 114.8 | 122.1 | 130.0 | 138.4 | 146.9 | 155.4 | 163.9 | 169.7 |
| 75° | 74.9 | 82.5 | 90.0 | 97.6 | 105.2 | 113.3 | 122.0 | 130.6 | 139.3 | 148.0 | 153.8 |
| 77.5° | 57.4 | 65.3 | 73.2 | 81.1 | 89.1 | 97.4 | 106.2 | 115.0 | 123.8 | 132.6 | 138.4 |
| 80° | 45.7 | 53.9 | 62.2 | 70.4 | 78.7 | 87.2 | 96.0 | 104.8 | 113.6 | 122.4 | 128.1 |
| 82.5° | 36.0 | 44.1 | 52.2 | 60.3 | 68.5 | 77.0 | 85.9 | 94.8 | 103.7 | 112.7 | 118.3 |
| 85° | 21.9 | 30.3 | 38.7 | 47.1 | 55.4 | 64.0 | 72.6 | 81.3 | 90.0 | 98.7 | 104.4 |
| 87.5° | 12.1 | 20.9 | 29.6 | 38.3 | 47.0 | 56.3 | 66.2 | 76.1 | 85.9 | 95.8 | 101.2 |
| 90° | 7.3 | 18.4 | 29.6 | 40.7 | 51.9 | 64.7 | 79.4 | 94.1 | 108.8 | 123.4 | 128.2 |
| 92.5° | 27.5 | 37.2 | 46.9 | 56.6 | 66.3 | 76.1 | 85.8 | 95.6 | 105.3 | 115.0 | 120.5 |
| 95° | 68.8 | 77.9 | 87.0 | 96.0 | 105.2 | 114.1 | 122.7 | 131.3 | 140.0 | 148.7 | 153.8 |
| 97.5° | 121.0 | 129.1 | 137.1 | 145.2 | 153.3 | 161.7 | 170.6 | 179.4 | 188.2 | 197.1 | 202.0 |
| 100° | 160.4 | 167.5 | 174.7 | 182.0 | 189.1 | 196.9 | 205.3 | 213.7 | 222.1 | 230.5 | 235.5 |
| 102.5° | 201.1 | 207.5 | 213.9 | 220.1 | 226.5 | 233.8 | 242.2 | 250.6 | 259.0 | 267.4 | 272.6 |
| 105° | 267.3 | 272.1 | 276.8 | 281.5 | 286.3 | 292.4 | 300.0 | 307.6 | 315.2 | 322.8 | 328.1 |
| 107.5° | 334.5 | 338.8 | 343.2 | 347.6 | 351.9 | 357.4 | 364.2 | 370.9 | 377.6 | 384.4 | 389.1 |
| 110° | 377.3 | 381.6 | 386.0 | 390.4 | 394.7 | 400.1 | 406.8 | 413.4 | 420.0 | 426.7 | 431.0 |



TEST NUMBER: P331522-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 424.5 | 428.4 | 432.4 | 436.3 | 440.2 | 445.2 | 451.3 | 457.3 | 463.4 | 469.5 | 473.2 |
| 115° | 494.1 | 497.2 | 500.3 | 503.4 | 506.6 | 510.9 | 516.5 | 522.0 | 527.6 | 533.1 | 536.9 |
| 117.5° | 562.8 | 566.0 | 569.1 | 572.3 | 575.4 | 579.0 | 583.2 | 587.3 | 591.3 | 595.5 | 598.8 |
| 120° | 609.0 | 611.7 | 614.5 | 617.2 | 620.0 | 622.9 | 626.1 | 629.3 | 632.6 | 635.8 | 639.6 |
| 122.5° | 651.3 | 654.1 | 657.0 | 659.8 | 662.7 | 665.9 | 669.4 | 672.9 | 676.5 | 680.0 | 683.1 |
| 125° | 716.6 | 719.0 | 721.5 | 723.9 | 726.4 | 729.4 | 732.9 | 736.4 | 739.9 | 743.4 | 746.2 |
| 127.5° | 780.7 | 783.7 | 786.7 | 789.6 | 792.6 | 795.4 | 797.9 | 800.4 | 802.9 | 805.4 | 807.8 |
| 130° | 821.0 | 824.4 | 827.9 | 831.3 | 834.7 | 837.6 | 839.8 | 842.1 | 844.4 | 846.8 | 849.5 |
| 132.5° | 866.3 | 869.0 | 871.8 | 874.6 | 877.3 | 879.9 | 882.2 | 884.4 | 886.7 | 889.0 | 891.0 |
| 135° | 926.1 | 929.1 | 932.1 | 935.1 | 938.2 | 940.6 | 942.5 | 944.4 | 946.3 | 948.2 | 950.8 |
| 137.5° | 989.8 | 992.2 | 994.7 | 997.1 | 999.6 | 1001.4 | 1002.7 | 1004.0 | 1005.3 | 1006.7 | 1008.9 |
| 140° | 1028.2 | 1030.5 | 1032.8 | 1035.1 | 1037.5 | 1039.4 | 1041.1 | 1042.7 | 1044.3 | 1045.9 | 1048.1 |
| 142.5° | 1067.5 | 1069.8 | 1072.1 | 1074.5 | 1076.8 | 1078.4 | 1079.4 | 1080.4 | 1081.3 | 1082.4 | 1084.3 |
| 145° | 1123.4 | 1125.4 | 1127.2 | 1129.1 | 1131.1 | 1132.9 | 1134.5 | 1136.1 | 1137.8 | 1139.4 | 1140.4 |
| 147.5° | 1173.8 | 1176.1 | 1178.4 | 1180.7 | 1183.0 | 1184.7 | 1185.8 | 1186.8 | 1188.0 | 1189.0 | 1189.8 |
| 150° | 1208.2 | 1209.8 | 1211.5 | 1213.2 | 1214.8 | 1216.1 | 1217.2 | 1218.3 | 1219.4 | 1220.5 | 1221.3 |
| 152.5° | 1238.7 | 1240.3 | 1241.9 | 1243.6 | 1245.3 | 1246.8 | 1248.1 | 1249.4 | 1250.7 | 1252.0 | 1253.0 |
| 155° | 1284.4 | 1285.2 | 1286.1 | 1286.9 | 1287.7 | 1288.5 | 1289.3 | 1290.1 | 1290.9 | 1291.8 | 1293.1 |
| 157.5° | 1323.5 | 1324.0 | 1324.6 | 1325.2 | 1325.7 | 1326.2 | 1326.7 | 1327.2 | 1327.7 | 1328.2 | 1330.0 |
| 160° | 1347.1 | 1347.7 | 1348.2 | 1348.7 | 1349.3 | 1349.7 | 1350.0 | 1350.2 | 1350.5 | 1350.8 | 1352.4 |
| 162.5° | 1368.7 | 1368.9 | 1369.0 | 1369.1 | 1369.2 | 1369.4 | 1369.6 | 1369.9 | 1370.2 | 1370.4 | 1372.3 |
| 165° | 1397.5 | 1397.3 | 1396.9 | 1396.7 | 1396.4 | 1396.3 | 1396.3 | 1396.3 | 1396.3 | 1396.3 | 1398.2 |
| 167.5° | 1421.6 | 1420.7 | 1419.9 | 1419.1 | 1418.3 | 1417.9 | 1417.8 | 1417.8 | 1417.7 | 1417.6 | 1419.6 |
| 170° | 1434.4 | 1433.5 | 1432.7 | 1431.9 | 1431.1 | 1430.5 | 1430.3 | 1430.0 | 1429.7 | 1429.5 | 1431.3 |
| 172.5° | 1443.2 | 1442.4 | 1441.6 | 1440.8 | 1440.0 | 1439.4 | 1439.2 | 1438.8 | 1438.6 | 1438.3 | 1440.2 |
| 175° | 1454.0 | 1453.2 | 1452.4 | 1451.6 | 1450.7 | 1450.1 | 1449.5 | 1448.9 | 1448.5 | 1447.9 | 1449.8 |
| 177.5° | 1458.5 | 1457.8 | 1457.2 | 1456.5 | 1455.9 | 1455.3 | 1454.8 | 1454.4 | 1454.0 | 1453.5 | 1454.8 |
| 180° | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 |



TEST NUMBER: P331522-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 |
| 2.5° | 418.8 | 419.3 | 419.9 | 420.0 | 419.8 | 419.6 | 419.4 | 419.1 |
| 5° | 417.5 | 418.3 | 419.1 | 419.5 | 419.3 | 419.2 | 419.1 | 418.9 |
| 7.5° | 415.5 | 416.5 | 417.4 | 417.8 | 417.8 | 417.6 | 417.4 | 417.4 |
| 10° | 413.8 | 414.8 | 416.0 | 416.5 | 416.3 | 416.1 | 416.0 | 415.9 |
| 12.5° | 410.8 | 412.0 | 413.0 | 413.5 | 413.4 | 413.2 | 413.1 | 412.9 |
| 15° | 405.5 | 406.8 | 408.0 | 408.5 | 408.4 | 408.2 | 408.1 | 408.0 |
| 17.5° | 398.7 | 400.0 | 401.2 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 |
| 20° | 393.3 | 394.8 | 396.2 | 397.0 | 397.0 | 397.0 | 397.0 | 397.0 |
| 22.5° | 387.4 | 388.9 | 390.4 | 391.3 | 391.5 | 391.7 | 391.9 | 392.2 |
| 25° | 378.3 | 379.9 | 381.6 | 382.6 | 383.0 | 383.4 | 383.8 | 384.3 |
| 27.5° | 368.3 | 370.3 | 372.3 | 373.5 | 373.8 | 374.1 | 374.4 | 374.7 |
| 30° | 361.2 | 363.3 | 365.5 | 366.7 | 367.1 | 367.5 | 367.9 | 368.4 |
| 32.5° | 353.5 | 356.0 | 358.5 | 360.1 | 360.9 | 361.6 | 362.3 | 363.1 |
| 35° | 342.7 | 345.7 | 348.6 | 350.6 | 351.6 | 352.5 | 353.4 | 354.4 |
| 37.5° | 331.5 | 334.8 | 338.1 | 340.2 | 341.3 | 342.3 | 343.2 | 344.3 |
| 40° | 323.7 | 327.2 | 330.7 | 333.0 | 334.3 | 335.5 | 336.7 | 337.9 |
| 42.5° | 316.0 | 319.8 | 323.7 | 326.3 | 327.4 | 328.6 | 329.9 | 331.1 |
| 45° | 304.4 | 308.5 | 312.7 | 315.4 | 316.8 | 318.2 | 319.5 | 320.9 |
| 47.5° | 292.1 | 296.5 | 300.9 | 303.9 | 305.3 | 306.8 | 308.3 | 309.8 |
| 50° | 283.8 | 288.4 | 293.0 | 296.0 | 297.6 | 299.1 | 300.5 | 302.0 |
| 52.5° | 274.8 | 279.5 | 284.2 | 287.3 | 288.9 | 290.6 | 292.1 | 293.8 |
| 55° | 261.2 | 266.1 | 270.9 | 274.3 | 276.1 | 277.8 | 279.6 | 281.3 |
| 57.5° | 246.9 | 252.1 | 257.4 | 260.9 | 262.7 | 264.5 | 266.3 | 268.1 |
| 60° | 237.4 | 242.6 | 247.7 | 251.2 | 253.1 | 255.0 | 256.9 | 258.8 |
| 62.5° | 227.3 | 232.8 | 238.2 | 241.9 | 243.7 | 245.5 | 247.3 | 249.1 |
| 65° | 212.1 | 217.6 | 223.1 | 226.8 | 228.5 | 230.3 | 232.0 | 233.8 |
| 67.5° | 196.6 | 202.1 | 207.7 | 211.5 | 213.3 | 215.2 | 217.0 | 218.8 |
| 70° | 185.8 | 191.6 | 197.4 | 201.1 | 202.8 | 204.4 | 206.0 | 207.7 |
| 72.5° | 175.4 | 181.1 | 186.8 | 190.6 | 192.5 | 194.4 | 196.4 | 198.4 |
| 75° | 159.6 | 165.4 | 171.2 | 175.0 | 176.8 | 178.6 | 180.3 | 182.1 |
| 77.5° | 144.2 | 150.0 | 155.8 | 159.6 | 161.5 | 163.4 | 165.3 | 167.2 |
| 80° | 133.8 | 139.4 | 145.1 | 148.9 | 150.8 | 152.7 | 154.6 | 156.5 |
| 82.5° | 124.0 | 129.7 | 135.3 | 139.1 | 140.9 | 142.7 | 144.5 | 146.3 |
| 85° | 110.0 | 115.7 | 121.4 | 125.1 | 127.0 | 129.0 | 130.9 | 132.7 |
| 87.5° | 106.6 | 112.0 | 117.4 | 121.1 | 122.9 | 124.6 | 126.4 | 128.2 |
| 90° | 133.1 | 138.0 | 142.8 | 146.3 | 148.1 | 150.0 | 151.9 | 153.8 |
| 92.5° | 125.9 | 131.3 | 136.7 | 140.3 | 141.9 | 143.7 | 145.3 | 147.0 |
| 95° | 159.0 | 164.1 | 169.3 | 172.4 | 173.4 | 174.6 | 175.6 | 176.7 |
| 97.5° | 207.1 | 212.1 | 217.0 | 220.4 | 221.8 | 223.4 | 224.9 | 226.5 |
| 100° | 240.5 | 245.5 | 250.5 | 253.6 | 254.9 | 256.1 | 257.3 | 258.5 |
| 102.5° | 277.6 | 282.7 | 287.9 | 291.1 | 292.3 | 293.5 | 294.7 | 295.9 |
| 105° | 333.3 | 338.6 | 343.9 | 347.3 | 348.8 | 350.3 | 351.7 | 353.3 |
| 107.5° | 394.0 | 398.7 | 403.5 | 405.9 | 406.2 | 406.4 | 406.7 | 406.9 |
| 110° | 435.4 | 439.7 | 444.0 | 446.5 | 447.2 | 447.8 | 448.5 | 449.2 |



TEST NUMBER: P331522-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 476.9 | 480.5 | 484.2 | 486.5 | 487.4 | 488.3 | 489.2 | 490.1 |
| 115° | 540.7 | 544.5 | 548.2 | 550.5 | 551.1 | 551.8 | 552.4 | 553.2 |
| 117.5° | 602.2 | 605.5 | 608.9 | 610.8 | 611.4 | 612.0 | 612.5 | 613.0 |
| 120° | 643.4 | 647.2 | 650.9 | 653.2 | 653.9 | 654.5 | 655.2 | 655.8 |
| 122.5° | 686.2 | 689.2 | 692.2 | 694.0 | 694.7 | 695.4 | 696.0 | 696.7 |
| 125° | 749.1 | 752.0 | 754.7 | 756.7 | 757.6 | 758.6 | 759.5 | 760.4 |
| 127.5° | 810.2 | 812.5 | 814.9 | 816.3 | 816.5 | 816.8 | 817.2 | 817.5 |
| 130° | 852.2 | 854.8 | 857.5 | 858.9 | 858.8 | 858.8 | 858.8 | 858.8 |
| 132.5° | 892.9 | 894.9 | 896.8 | 897.9 | 898.1 | 898.3 | 898.5 | 898.7 |
| 135° | 953.3 | 955.9 | 958.5 | 959.9 | 960.2 | 960.4 | 960.7 | 960.9 |
| 137.5° | 1011.1 | 1013.4 | 1015.7 | 1016.8 | 1016.6 | 1016.4 | 1016.3 | 1016.0 |
| 140° | 1050.3 | 1052.5 | 1054.6 | 1055.6 | 1055.3 | 1055.0 | 1054.8 | 1054.4 |
| 142.5° | 1086.2 | 1088.2 | 1090.1 | 1091.0 | 1090.5 | 1090.1 | 1089.8 | 1089.4 |
| 145° | 1141.6 | 1142.6 | 1143.7 | 1144.0 | 1143.6 | 1143.2 | 1142.8 | 1142.4 |
| 147.5° | 1190.5 | 1191.2 | 1191.9 | 1191.9 | 1191.2 | 1190.4 | 1189.8 | 1189.0 |
| 150° | 1222.1 | 1222.9 | 1223.8 | 1223.8 | 1222.9 | 1222.1 | 1221.3 | 1220.5 |
| 152.5° | 1254.0 | 1255.1 | 1256.1 | 1256.1 | 1255.1 | 1254.0 | 1253.0 | 1252.0 |
| 155° | 1294.5 | 1295.9 | 1297.2 | 1297.5 | 1296.7 | 1295.9 | 1295.1 | 1294.3 |
| 157.5° | 1331.9 | 1333.7 | 1335.6 | 1335.9 | 1334.6 | 1333.3 | 1332.0 | 1330.6 |
| 160° | 1354.0 | 1355.7 | 1357.3 | 1357.6 | 1356.5 | 1355.4 | 1354.4 | 1353.2 |
| 162.5° | 1374.2 | 1376.1 | 1377.9 | 1378.2 | 1376.9 | 1375.6 | 1374.3 | 1372.9 |
| 165° | 1400.1 | 1402.0 | 1403.9 | 1404.2 | 1402.8 | 1401.5 | 1400.1 | 1398.7 |
| 167.5° | 1421.5 | 1423.4 | 1425.3 | 1425.6 | 1424.2 | 1422.7 | 1421.3 | 1419.8 |
| 170° | 1433.3 | 1435.2 | 1437.1 | 1437.2 | 1435.6 | 1433.9 | 1432.3 | 1430.7 |
| 172.5° | 1442.1 | 1444.1 | 1445.9 | 1446.1 | 1444.5 | 1442.8 | 1441.2 | 1439.6 |
| 175° | 1451.7 | 1453.6 | 1455.6 | 1455.7 | 1454.0 | 1452.4 | 1450.7 | 1449.1 |
| 177.5° | 1456.2 | 1457.5 | 1458.8 | 1458.8 | 1457.5 | 1456.2 | 1454.8 | 1453.5 |
| 180° | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 | 1456.5 |

(END OF REPORT)