

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: P331521-927

Luminaire Tested: **S122DIW-S485D1440U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331521-927
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-S485D1440U927-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6124.3 lumens
Efficiency: N/A
Efficacy: 101.1 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

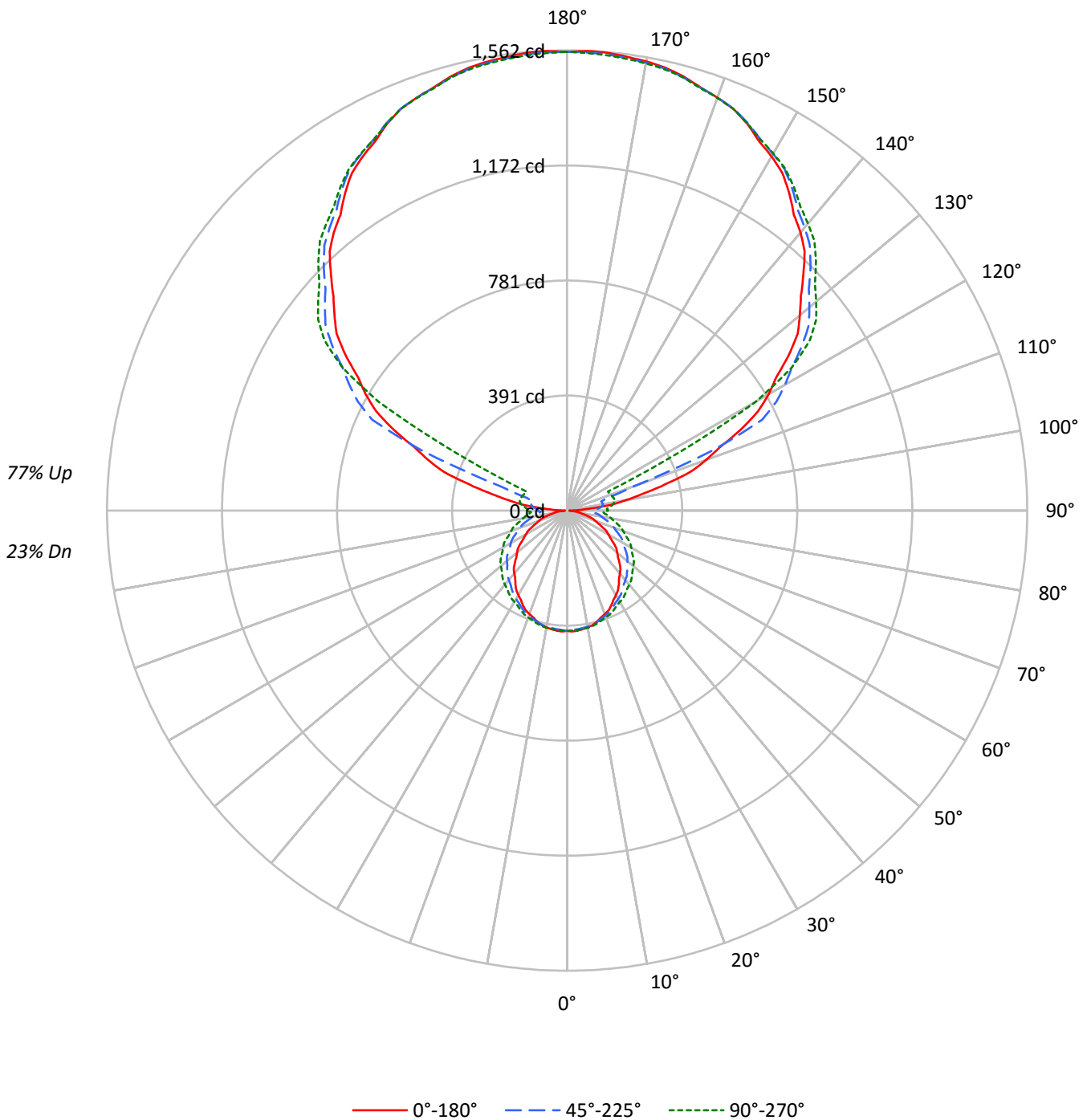
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331521-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331521-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 101 | 101 | 101 | 101 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 49 | 49 | 49 | 31 | 31 | 31 | 23 | | | | | 23 | | | |
| 1 | 91 | 87 | 83 | 79 | 80 | 77 | 73 | 70 | 58 | 56 | 54 | 42 | 40 | 39 | 26 | 25 | 25 | 18 | | | | | 18 | | | |
| 2 | 83 | 75 | 69 | 64 | 73 | 67 | 62 | 57 | 51 | 47 | 44 | 36 | 34 | 32 | 23 | 21 | 20 | 14 | | | | | 14 | | | |
| 3 | 75 | 66 | 58 | 53 | 66 | 58 | 52 | 47 | 45 | 40 | 37 | 32 | 29 | 27 | 20 | 18 | 17 | 12 | | | | | 12 | | | |
| 4 | 68 | 58 | 50 | 44 | 60 | 51 | 45 | 40 | 39 | 35 | 31 | 28 | 25 | 23 | 18 | 16 | 14 | 10 | | | | | 10 | | | |
| 5 | 63 | 51 | 43 | 37 | 55 | 46 | 39 | 34 | 35 | 30 | 26 | 25 | 22 | 19 | 16 | 14 | 12 | 8 | | | | | 8 | | | |
| 6 | 57 | 46 | 38 | 32 | 51 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 17 | 14 | 12 | 11 | 7 | | | | | 7 | | | |
| 7 | 53 | 41 | 33 | 28 | 47 | 37 | 30 | 25 | 28 | 23 | 20 | 20 | 17 | 15 | 13 | 11 | 9 | 6 | | | | | 6 | | | |
| 8 | 49 | 37 | 30 | 24 | 43 | 33 | 27 | 22 | 26 | 21 | 17 | 18 | 15 | 13 | 12 | 10 | 8 | 6 | | | | | 6 | | | |
| 9 | 45 | 34 | 26 | 21 | 40 | 30 | 24 | 19 | 23 | 19 | 15 | 17 | 14 | 11 | 11 | 9 | 8 | 5 | | | | | 5 | | | |
| 10 | 42 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 10 | 8 | 7 | 5 | | | | | 5 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6591 | 6591 | 6591 |
| 5° | 6623 | 6345 | 6320 |
| 10° | 6581 | 6158 | 6088 |
| 15° | 6491 | 5959 | 5843 |
| 20° | 6376 | 5745 | 5607 |
| 25° | 6263 | 5540 | 5394 |
| 30° | 6103 | 5330 | 5178 |
| 35° | 5943 | 5127 | 5028 |
| 40° | 5773 | 4954 | 4876 |
| 45° | 5612 | 4799 | 4746 |
| 50° | 5439 | 4657 | 4618 |
| 55° | 5257 | 4507 | 4488 |
| 60° | 5033 | 4351 | 4351 |
| 65° | 4802 | 4169 | 4189 |
| 70° | 4546 | 3970 | 4013 |
| 75° | 4214 | 3778 | 3850 |
| 80° | 3692 | 3579 | 3685 |
| 85° | 3187 | 3410 | 3559 |



TEST NUMBER: P331521-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.7 | 0.6 |
| 10°-20° | 110.9 | 1.8 |
| 20°-30° | 168.1 | 2.7 |
| 30°-40° | 204.7 | 3.3 |
| 40°-50° | 220.3 | 3.6 |
| 50°-60° | 213.9 | 3.5 |
| 60°-70° | 186.8 | 3.0 |
| 70°-80° | 143.8 | 2.3 |
| 80°-90° | 100.3 | 1.6 |
| 90°-100° | 118.4 | 1.9 |
| 100°-110° | 239.0 | 3.9 |
| 110°-120° | 541.2 | 8.8 |
| 120°-130° | 858.3 | 14.0 |
| 130°-140° | 901.3 | 14.7 |
| 140°-150° | 832.1 | 13.6 |
| 150°-160° | 667.9 | 10.9 |
| 160°-170° | 430.4 | 7.0 |
| 170°-180° | 148.2 | 2.4 |
| 0°-30° | 317.7 | 5.2 |
| 0°-40° | 522.4 | 8.5 |
| 0°-60° | 956.6 | 15.6 |
| 0°-90° | 1387.5 | 22.7 |
| 90°-120° | 898.6 | 14.7 |
| 90°-150° | 3490.3 | 57.0 |
| 90°-180° | 4737.0 | 77.3 |
| 0°-180° | 6124.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 408 | 408 | 408 | 408 | 408 | |
| 5° | 409 | 408 | 404 | 407 | 407 | 39 |
| 15° | 390 | 392 | 392 | 397 | 396 | 110 |
| 25° | 355 | 359 | 364 | 371 | 373 | 163 |
| 35° | 306 | 316 | 327 | 340 | 344 | 191 |
| 45° | 251 | 267 | 288 | 305 | 312 | 194 |
| 55° | 192 | 214 | 244 | 265 | 273 | 172 |
| 65° | 131 | 161 | 195 | 219 | 227 | 130 |
| 75° | 73 | 106 | 144 | 168 | 177 | 77 |
| 85° | 21 | 58 | 96 | 120 | 129 | 23 |
| 90° | 7 | 54 | 101 | 129 | 139 | 7 |
| 95° | 78 | 72 | 112 | 139 | 146 | 93 |
| 105° | 346 | 378 | 120 | 151 | 164 | 369 |
| 115° | 650 | 678 | 731 | 251 | 152 | 640 |
| 125° | 917 | 933 | 972 | 995 | 1005 | 818 |
| 135° | 1134 | 1152 | 1168 | 1191 | 1194 | 876 |
| 145° | 1315 | 1315 | 1333 | 1344 | 1342 | 822 |
| 155° | 1448 | 1439 | 1451 | 1457 | 1449 | 667 |
| 165° | 1526 | 1519 | 1522 | 1529 | 1522 | 431 |
| 175° | 1560 | 1553 | 1555 | 1562 | 1551 | 148 |
| 180° | 1557 | 1557 | 1557 | 1557 | 1557 | |



TEST NUMBER: P331521-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 |
| 2.5° | 410.6 | 410.3 | 410.0 | 409.6 | 409.3 | 408.8 | 408.1 | 407.3 | 406.6 | 405.8 | 406.4 |
| 5° | 409.4 | 409.0 | 408.6 | 408.2 | 407.8 | 407.3 | 406.5 | 405.7 | 404.9 | 404.1 | 404.9 |
| 7.5° | 405.8 | 405.4 | 405.2 | 405.0 | 404.7 | 404.3 | 403.6 | 403.1 | 402.4 | 401.8 | 402.7 |
| 10° | 402.9 | 402.7 | 402.3 | 402.1 | 401.9 | 401.6 | 401.2 | 400.8 | 400.4 | 400.0 | 401.0 |
| 12.5° | 398.2 | 398.2 | 398.3 | 398.3 | 398.4 | 398.2 | 398.0 | 397.7 | 397.4 | 397.1 | 398.2 |
| 15° | 390.5 | 390.7 | 391.0 | 391.3 | 391.5 | 391.7 | 391.7 | 391.7 | 391.7 | 391.7 | 392.8 |
| 17.5° | 380.6 | 381.1 | 381.7 | 382.2 | 382.8 | 383.3 | 383.7 | 384.0 | 384.5 | 384.9 | 386.1 |
| 20° | 373.9 | 374.5 | 375.3 | 375.9 | 376.5 | 377.2 | 377.6 | 378.2 | 378.7 | 379.2 | 380.6 |
| 22.5° | 366.8 | 367.6 | 368.4 | 369.1 | 369.9 | 370.6 | 371.4 | 372.1 | 372.8 | 373.6 | 375.0 |
| 25° | 355.0 | 355.9 | 356.8 | 357.7 | 358.6 | 359.7 | 360.9 | 362.1 | 363.3 | 364.4 | 366.0 |
| 27.5° | 340.8 | 342.3 | 343.8 | 345.3 | 346.7 | 348.2 | 349.6 | 351.0 | 352.4 | 353.8 | 355.8 |
| 30° | 331.3 | 333.0 | 334.7 | 336.4 | 338.2 | 339.8 | 341.6 | 343.3 | 345.0 | 346.7 | 348.8 |
| 32.5° | 320.9 | 322.8 | 324.7 | 326.7 | 328.6 | 330.6 | 332.6 | 334.6 | 336.6 | 338.7 | 341.0 |
| 35° | 305.9 | 308.1 | 310.4 | 312.6 | 314.8 | 317.2 | 319.6 | 322.2 | 324.6 | 327.2 | 330.0 |
| 37.5° | 289.5 | 292.2 | 294.7 | 297.3 | 299.8 | 302.8 | 306.0 | 309.2 | 312.4 | 315.7 | 318.9 |
| 40° | 278.7 | 281.5 | 284.5 | 287.3 | 290.3 | 293.4 | 297.0 | 300.6 | 304.1 | 307.7 | 311.1 |
| 42.5° | 268.2 | 271.2 | 274.0 | 276.9 | 279.8 | 283.3 | 287.4 | 291.4 | 295.6 | 299.6 | 303.3 |
| 45° | 250.9 | 254.4 | 257.9 | 261.5 | 265.1 | 269.1 | 273.7 | 278.3 | 283.0 | 287.6 | 291.6 |
| 47.5° | 233.7 | 237.6 | 241.5 | 245.3 | 249.1 | 253.8 | 259.2 | 264.6 | 270.0 | 275.4 | 279.6 |
| 50° | 221.9 | 225.9 | 230.0 | 234.1 | 238.1 | 243.1 | 249.1 | 255.0 | 260.9 | 266.8 | 271.3 |
| 52.5° | 210.5 | 214.8 | 219.0 | 223.4 | 227.7 | 232.9 | 239.2 | 245.3 | 251.6 | 257.9 | 262.4 |
| 55° | 192.3 | 197.0 | 201.8 | 206.4 | 211.2 | 217.0 | 223.9 | 230.7 | 237.5 | 244.3 | 249.1 |
| 57.5° | 174.3 | 179.7 | 185.0 | 190.3 | 195.7 | 201.8 | 208.7 | 215.7 | 222.7 | 229.7 | 234.8 |
| 60° | 161.5 | 167.2 | 172.9 | 178.5 | 184.1 | 190.7 | 198.2 | 205.7 | 213.2 | 220.7 | 225.7 |
| 62.5° | 150.1 | 156.0 | 161.9 | 167.8 | 173.6 | 180.3 | 187.7 | 195.3 | 202.8 | 210.2 | 215.6 |
| 65° | 131.3 | 137.8 | 144.3 | 150.7 | 157.1 | 164.2 | 172.0 | 179.7 | 187.5 | 195.3 | 200.7 |
| 67.5° | 114.1 | 120.8 | 127.5 | 134.3 | 141.0 | 148.3 | 156.3 | 164.2 | 172.1 | 180.1 | 185.5 |
| 70° | 101.8 | 108.6 | 115.4 | 122.2 | 129.1 | 136.6 | 144.7 | 152.9 | 161.1 | 169.2 | 174.8 |
| 72.5° | 90.4 | 97.4 | 104.5 | 111.5 | 118.6 | 126.3 | 134.5 | 142.8 | 151.0 | 159.2 | 164.9 |
| 75° | 72.8 | 80.2 | 87.5 | 94.8 | 102.2 | 110.1 | 118.5 | 126.9 | 135.4 | 143.8 | 149.4 |
| 77.5° | 55.8 | 63.5 | 71.1 | 78.8 | 86.6 | 94.7 | 103.2 | 111.8 | 120.3 | 128.9 | 134.5 |
| 80° | 44.4 | 52.4 | 60.4 | 68.4 | 76.4 | 84.8 | 93.3 | 101.8 | 110.4 | 118.9 | 124.5 |
| 82.5° | 34.9 | 42.9 | 50.7 | 58.6 | 66.5 | 74.9 | 83.5 | 92.1 | 100.8 | 109.5 | 114.9 |
| 85° | 21.3 | 29.5 | 37.6 | 45.8 | 53.9 | 62.2 | 70.6 | 79.0 | 87.5 | 95.9 | 101.4 |
| 87.5° | 11.8 | 20.2 | 28.6 | 37.0 | 45.4 | 53.9 | 62.8 | 71.6 | 80.4 | 89.2 | 94.8 |
| 90° | 7.1 | 17.4 | 27.8 | 38.2 | 48.6 | 58.9 | 69.4 | 79.8 | 90.2 | 100.6 | 107.1 |
| 92.5° | 28.2 | 35.0 | 41.9 | 48.7 | 55.6 | 63.6 | 72.6 | 81.8 | 90.9 | 100.0 | 105.8 |
| 95° | 78.0 | 75.9 | 73.8 | 71.7 | 69.6 | 73.4 | 83.0 | 92.7 | 102.3 | 112.0 | 118.2 |
| 97.5° | 149.5 | 131.7 | 113.9 | 96.1 | 78.3 | 75.3 | 86.9 | 98.5 | 110.1 | 121.8 | 127.6 |
| 100° | 203.6 | 174.1 | 144.7 | 115.3 | 85.8 | 76.9 | 88.6 | 100.1 | 111.8 | 123.4 | 130.2 |
| 102.5° | 262.6 | 259.8 | 256.9 | 254.1 | 251.3 | 235.7 | 207.2 | 178.8 | 150.4 | 121.8 | 129.2 |
| 105° | 345.5 | 356.8 | 368.1 | 379.5 | 390.8 | 365.7 | 304.1 | 242.6 | 181.1 | 119.6 | 127.0 |
| 107.5° | 440.7 | 449.8 | 458.9 | 468.0 | 477.1 | 443.9 | 368.5 | 293.1 | 217.7 | 142.3 | 143.9 |
| 110° | 501.5 | 509.4 | 517.3 | 525.1 | 533.1 | 504.0 | 438.1 | 372.2 | 306.3 | 240.3 | 219.5 |



TEST NUMBER: P331521-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 559.2 | 566.0 | 572.9 | 579.8 | 586.6 | 584.2 | 572.4 | 560.7 | 548.9 | 537.2 | 450.0 |
| 115° | 650.2 | 655.9 | 661.6 | 667.3 | 673.0 | 682.0 | 694.1 | 706.3 | 718.5 | 730.6 | 618.7 |
| 117.5° | 730.9 | 736.7 | 742.4 | 748.1 | 753.8 | 761.5 | 771.3 | 781.1 | 790.8 | 800.6 | 776.5 |
| 120° | 790.4 | 794.7 | 799.0 | 803.3 | 807.6 | 814.6 | 824.3 | 834.1 | 843.9 | 853.7 | 860.3 |
| 122.5° | 840.9 | 845.1 | 849.2 | 853.4 | 857.6 | 864.6 | 874.4 | 884.3 | 894.1 | 904.0 | 909.3 |
| 125° | 917.2 | 920.4 | 923.7 | 926.9 | 930.2 | 936.3 | 945.2 | 954.3 | 963.2 | 972.2 | 977.5 |
| 127.5° | 986.8 | 990.3 | 993.7 | 997.2 | 1000.7 | 1005.9 | 1012.9 | 1019.8 | 1026.7 | 1033.7 | 1039.5 |
| 130° | 1030.9 | 1034.8 | 1038.7 | 1042.6 | 1046.5 | 1051.1 | 1056.7 | 1062.2 | 1067.7 | 1073.2 | 1079.1 |
| 132.5° | 1076.0 | 1079.3 | 1082.6 | 1085.8 | 1089.1 | 1093.2 | 1098.1 | 1103.0 | 1107.9 | 1112.7 | 1118.2 |
| 135° | 1134.0 | 1138.0 | 1142.0 | 1146.1 | 1150.0 | 1153.8 | 1157.4 | 1160.9 | 1164.5 | 1168.1 | 1173.4 |
| 137.5° | 1193.3 | 1196.0 | 1198.8 | 1201.6 | 1204.4 | 1207.4 | 1210.5 | 1213.6 | 1216.7 | 1219.9 | 1224.8 |
| 140° | 1232.1 | 1233.9 | 1235.8 | 1237.6 | 1239.5 | 1242.0 | 1245.0 | 1248.0 | 1251.0 | 1254.0 | 1258.4 |
| 142.5° | 1264.5 | 1266.1 | 1267.8 | 1269.5 | 1271.2 | 1273.6 | 1276.8 | 1280.0 | 1283.3 | 1286.4 | 1290.1 |
| 145° | 1314.9 | 1314.5 | 1314.3 | 1314.1 | 1313.8 | 1315.8 | 1320.1 | 1324.4 | 1328.6 | 1332.8 | 1335.4 |
| 147.5° | 1359.2 | 1358.3 | 1357.3 | 1356.4 | 1355.4 | 1357.0 | 1361.2 | 1365.5 | 1369.7 | 1373.9 | 1375.3 |
| 150° | 1388.1 | 1386.3 | 1384.6 | 1382.8 | 1381.0 | 1382.2 | 1386.2 | 1390.2 | 1394.2 | 1398.2 | 1399.7 |
| 152.5° | 1412.4 | 1410.5 | 1408.5 | 1406.5 | 1404.6 | 1405.5 | 1409.3 | 1413.1 | 1416.9 | 1420.7 | 1422.2 |
| 155° | 1447.8 | 1445.5 | 1443.3 | 1441.0 | 1438.8 | 1439.2 | 1442.2 | 1445.2 | 1448.2 | 1451.1 | 1452.6 |
| 157.5° | 1475.5 | 1473.6 | 1471.7 | 1469.8 | 1467.9 | 1468.0 | 1470.1 | 1472.2 | 1474.3 | 1476.4 | 1478.1 |
| 160° | 1491.7 | 1490.2 | 1488.7 | 1487.2 | 1485.7 | 1485.7 | 1487.2 | 1488.7 | 1490.2 | 1491.7 | 1493.2 |
| 162.5° | 1506.1 | 1504.7 | 1503.2 | 1501.7 | 1500.2 | 1500.0 | 1501.3 | 1502.6 | 1504.0 | 1505.2 | 1507.0 |
| 165° | 1525.5 | 1524.0 | 1522.5 | 1521.0 | 1519.5 | 1519.2 | 1519.9 | 1520.6 | 1521.4 | 1522.1 | 1523.9 |
| 167.5° | 1539.9 | 1538.4 | 1536.9 | 1535.4 | 1533.9 | 1533.5 | 1534.2 | 1534.9 | 1535.6 | 1536.4 | 1538.1 |
| 170° | 1548.1 | 1546.6 | 1545.1 | 1543.6 | 1542.1 | 1541.5 | 1542.1 | 1542.5 | 1543.0 | 1543.6 | 1545.3 |
| 172.5° | 1553.5 | 1552.0 | 1550.5 | 1549.0 | 1547.4 | 1547.0 | 1547.4 | 1547.9 | 1548.5 | 1549.0 | 1550.7 |
| 175° | 1560.4 | 1558.7 | 1557.0 | 1555.2 | 1553.5 | 1552.8 | 1553.3 | 1553.8 | 1554.3 | 1554.8 | 1556.6 |
| 177.5° | 1561.5 | 1560.2 | 1558.8 | 1557.4 | 1555.9 | 1555.4 | 1555.5 | 1555.8 | 1555.9 | 1556.2 | 1557.6 |
| 180° | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 |



TEST NUMBER: P331521-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 |
| 2.5° | 406.9 | 407.4 | 408.0 | 408.1 | 407.9 | 407.7 | 407.5 | 407.3 |
| 5° | 405.7 | 406.5 | 407.3 | 407.6 | 407.4 | 407.3 | 407.2 | 407.0 |
| 7.5° | 403.7 | 404.6 | 405.6 | 406.0 | 405.9 | 405.8 | 405.6 | 405.5 |
| 10° | 402.0 | 403.1 | 404.2 | 404.6 | 404.5 | 404.3 | 404.3 | 404.1 |
| 12.5° | 399.2 | 400.3 | 401.3 | 401.8 | 401.6 | 401.5 | 401.4 | 401.2 |
| 15° | 394.0 | 395.2 | 396.4 | 396.9 | 396.8 | 396.6 | 396.5 | 396.4 |
| 17.5° | 387.4 | 388.6 | 389.8 | 390.5 | 390.5 | 390.5 | 390.5 | 390.5 |
| 20° | 382.1 | 383.6 | 385.0 | 385.7 | 385.7 | 385.7 | 385.7 | 385.7 |
| 22.5° | 376.4 | 377.9 | 379.4 | 380.2 | 380.4 | 380.6 | 380.8 | 381.0 |
| 25° | 367.6 | 369.2 | 370.7 | 371.8 | 372.2 | 372.6 | 373.0 | 373.4 |
| 27.5° | 357.8 | 359.8 | 361.8 | 362.9 | 363.2 | 363.5 | 363.8 | 364.1 |
| 30° | 350.9 | 353.0 | 355.1 | 356.3 | 356.7 | 357.1 | 357.5 | 357.9 |
| 32.5° | 343.5 | 345.9 | 348.3 | 349.9 | 350.6 | 351.3 | 352.0 | 352.8 |
| 35° | 333.0 | 335.9 | 338.7 | 340.6 | 341.6 | 342.5 | 343.4 | 344.4 |
| 37.5° | 322.1 | 325.3 | 328.5 | 330.6 | 331.6 | 332.6 | 333.5 | 334.5 |
| 40° | 314.5 | 317.9 | 321.3 | 323.6 | 324.8 | 326.0 | 327.2 | 328.4 |
| 42.5° | 307.0 | 310.8 | 314.5 | 317.0 | 318.1 | 319.3 | 320.5 | 321.7 |
| 45° | 295.7 | 299.8 | 303.8 | 306.5 | 307.8 | 309.2 | 310.5 | 311.8 |
| 47.5° | 283.8 | 288.1 | 292.4 | 295.2 | 296.7 | 298.1 | 299.6 | 301.0 |
| 50° | 275.8 | 280.2 | 284.7 | 287.6 | 289.1 | 290.6 | 292.0 | 293.4 |
| 52.5° | 267.0 | 271.6 | 276.2 | 279.2 | 280.7 | 282.3 | 283.8 | 285.4 |
| 55° | 253.8 | 258.6 | 263.2 | 266.5 | 268.2 | 269.9 | 271.6 | 273.3 |
| 57.5° | 239.9 | 244.9 | 250.1 | 253.5 | 255.2 | 257.0 | 258.7 | 260.5 |
| 60° | 230.7 | 235.7 | 240.7 | 244.1 | 245.9 | 247.8 | 249.6 | 251.4 |
| 62.5° | 220.9 | 226.2 | 231.5 | 235.0 | 236.8 | 238.5 | 240.3 | 242.0 |
| 65° | 206.0 | 211.4 | 216.8 | 220.4 | 222.0 | 223.8 | 225.5 | 227.2 |
| 67.5° | 191.0 | 196.4 | 201.8 | 205.5 | 207.2 | 209.1 | 210.9 | 212.6 |
| 70° | 180.5 | 186.2 | 191.8 | 195.4 | 197.0 | 198.6 | 200.2 | 201.8 |
| 72.5° | 170.4 | 175.9 | 181.5 | 185.2 | 187.0 | 188.9 | 190.8 | 192.7 |
| 75° | 155.1 | 160.7 | 166.4 | 170.1 | 171.7 | 173.5 | 175.2 | 176.9 |
| 77.5° | 140.1 | 145.8 | 151.4 | 155.1 | 156.9 | 158.8 | 160.7 | 162.5 |
| 80° | 130.0 | 135.5 | 141.0 | 144.7 | 146.6 | 148.4 | 150.2 | 152.0 |
| 82.5° | 120.5 | 126.0 | 131.5 | 135.1 | 136.9 | 138.6 | 140.4 | 142.1 |
| 85° | 106.9 | 112.4 | 118.0 | 121.6 | 123.4 | 125.3 | 127.1 | 129.0 |
| 87.5° | 100.4 | 106.1 | 111.7 | 115.4 | 117.2 | 119.0 | 120.7 | 122.6 |
| 90° | 113.7 | 120.2 | 126.7 | 130.9 | 133.0 | 135.1 | 137.2 | 139.3 |
| 92.5° | 111.6 | 117.4 | 123.2 | 127.1 | 128.9 | 130.8 | 132.7 | 134.5 |
| 95° | 124.5 | 130.7 | 137.0 | 140.8 | 142.1 | 143.4 | 144.7 | 146.1 |
| 97.5° | 133.5 | 139.3 | 145.2 | 149.1 | 150.9 | 152.8 | 154.6 | 156.5 |
| 100° | 137.1 | 144.0 | 150.8 | 155.3 | 157.2 | 159.1 | 161.1 | 163.0 |
| 102.5° | 136.6 | 143.9 | 151.3 | 156.1 | 158.2 | 160.3 | 162.6 | 164.7 |
| 105° | 134.4 | 141.6 | 149.0 | 153.9 | 156.4 | 158.8 | 161.3 | 163.7 |
| 107.5° | 145.4 | 147.1 | 148.7 | 150.8 | 153.2 | 155.7 | 158.0 | 160.5 |
| 110° | 198.7 | 177.8 | 157.0 | 147.8 | 150.3 | 152.7 | 155.2 | 157.6 |



TEST NUMBER: P331521-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 362.9 | 275.8 | 188.7 | 146.2 | 148.5 | 150.8 | 153.0 | 155.2 |
| 115° | 506.7 | 394.7 | 282.7 | 218.5 | 201.8 | 185.3 | 168.7 | 152.2 |
| 117.5° | 752.3 | 728.2 | 704.0 | 663.0 | 605.1 | 547.2 | 489.3 | 431.4 |
| 120° | 867.0 | 873.7 | 880.4 | 867.6 | 835.2 | 802.9 | 770.5 | 738.2 |
| 122.5° | 914.7 | 920.1 | 925.5 | 925.5 | 920.2 | 914.9 | 909.6 | 904.3 |
| 125° | 982.8 | 988.1 | 993.4 | 997.0 | 998.9 | 1000.8 | 1002.8 | 1004.7 |
| 127.5° | 1045.3 | 1051.1 | 1056.9 | 1060.5 | 1061.8 | 1063.1 | 1064.5 | 1065.7 |
| 130° | 1085.1 | 1090.9 | 1096.9 | 1100.2 | 1101.0 | 1101.8 | 1102.6 | 1103.4 |
| 132.5° | 1123.6 | 1128.9 | 1134.3 | 1137.4 | 1138.3 | 1139.1 | 1139.9 | 1140.7 |
| 135° | 1178.6 | 1183.9 | 1189.1 | 1192.1 | 1192.6 | 1193.2 | 1193.7 | 1194.3 |
| 137.5° | 1229.6 | 1234.5 | 1239.4 | 1241.8 | 1241.9 | 1241.9 | 1242.0 | 1242.0 |
| 140° | 1262.7 | 1267.1 | 1271.5 | 1273.4 | 1273.0 | 1272.5 | 1272.0 | 1271.5 |
| 142.5° | 1294.0 | 1297.7 | 1301.4 | 1303.0 | 1302.4 | 1301.9 | 1301.2 | 1300.7 |
| 145° | 1337.9 | 1340.5 | 1343.0 | 1344.0 | 1343.4 | 1342.8 | 1342.2 | 1341.6 |
| 147.5° | 1376.7 | 1378.1 | 1379.5 | 1379.8 | 1379.1 | 1378.3 | 1377.6 | 1376.9 |
| 150° | 1401.2 | 1402.7 | 1404.2 | 1404.3 | 1403.1 | 1401.8 | 1400.6 | 1399.3 |
| 152.5° | 1423.7 | 1425.2 | 1426.7 | 1426.6 | 1425.0 | 1423.4 | 1421.7 | 1420.1 |
| 155° | 1454.1 | 1455.6 | 1457.1 | 1456.9 | 1454.9 | 1452.9 | 1450.9 | 1448.9 |
| 157.5° | 1479.8 | 1481.5 | 1483.2 | 1483.0 | 1481.1 | 1479.2 | 1477.2 | 1475.3 |
| 160° | 1494.7 | 1496.2 | 1497.7 | 1497.6 | 1495.9 | 1494.1 | 1492.3 | 1490.6 |
| 162.5° | 1508.6 | 1510.4 | 1512.0 | 1511.8 | 1509.7 | 1507.5 | 1505.4 | 1503.2 |
| 165° | 1525.7 | 1527.4 | 1529.1 | 1529.1 | 1527.4 | 1525.7 | 1523.9 | 1522.1 |
| 167.5° | 1539.8 | 1541.6 | 1543.3 | 1543.1 | 1540.9 | 1538.6 | 1536.4 | 1534.1 |
| 170° | 1547.1 | 1548.8 | 1550.5 | 1550.3 | 1548.1 | 1545.8 | 1543.6 | 1541.3 |
| 172.5° | 1552.4 | 1554.2 | 1555.9 | 1555.7 | 1553.5 | 1551.2 | 1549.0 | 1546.7 |
| 175° | 1558.3 | 1560.0 | 1561.8 | 1561.5 | 1558.9 | 1556.4 | 1553.9 | 1551.4 |
| 177.5° | 1558.9 | 1560.4 | 1561.8 | 1561.5 | 1559.7 | 1558.0 | 1556.2 | 1554.3 |
| 180° | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 | 1557.0 |

(END OF REPORT)