

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: P331572

Luminaire Tested: **S122DIW-S865D970U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331572
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-S865D970U835-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

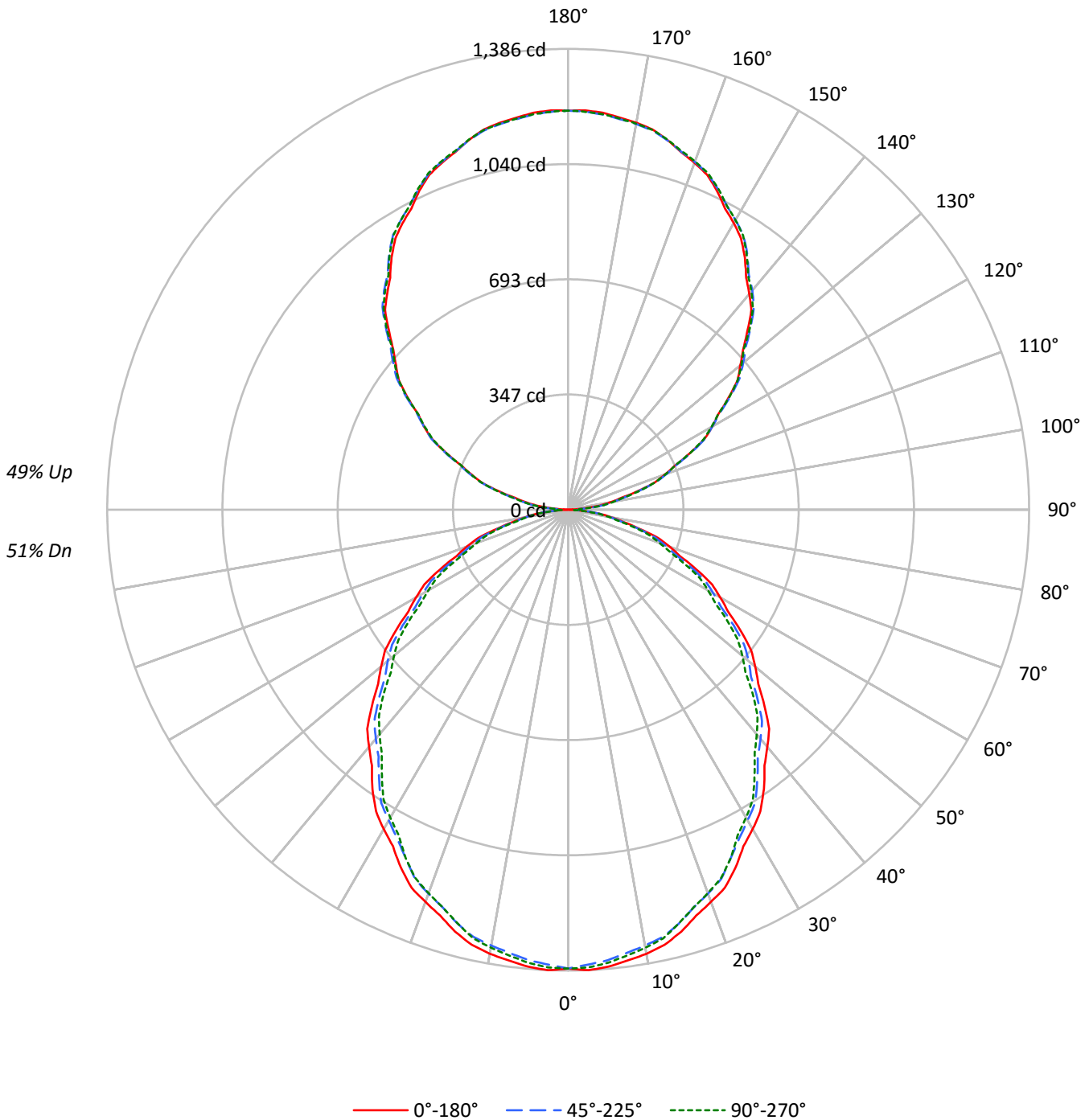
Lumens per Lamp: N/A
Luminaire Lumens: 6871.8 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61.2
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: P331572
CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331572

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | | | | | | | | | | | | | |
| 1 | 98 | 94 | 90 | 86 | 90 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 58 | 51 | 49 | 48 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | | | | | | | | | | | | | | |
| 2 | 89 | 82 | 76 | 70 | 82 | 76 | 70 | 66 | 65 | 61 | 57 | 54 | 51 | 49 | 44 | 42 | 41 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | | | | | | | | | | | | | |
| 3 | 81 | 72 | 65 | 59 | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 35 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | | | | | | | | | | | | | | |
| 4 | 75 | 64 | 56 | 50 | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | | | | | | | | | | | | | | |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 32 | 29 | 26 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | | | | | | | | | | | | | | |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 25 | 23 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | | | | | | | | | | | | | | |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | | | | | | | | | | | | | | |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | | | | | | | | | | | | | | |
| 9 | 50 | 38 | 31 | 26 | 47 | 36 | 29 | 24 | 31 | 25 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | | | | | | | | | | | | | |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22281 | 22281 | 22281 |
| 5° | 22366 | 22044 | 22174 |
| 10° | 22233 | 21820 | 21930 |
| 15° | 21959 | 21538 | 21514 |
| 20° | 21569 | 21113 | 21089 |
| 25° | 21180 | 20591 | 20591 |
| 30° | 20681 | 20113 | 19939 |
| 35° | 20217 | 19537 | 19249 |
| 40° | 19633 | 18963 | 18598 |
| 45° | 19057 | 18393 | 17938 |
| 50° | 18432 | 17799 | 17166 |
| 55° | 17779 | 17106 | 16473 |
| 60° | 17053 | 16281 | 15684 |
| 65° | 16275 | 15461 | 14751 |
| 70° | 15286 | 14469 | 13780 |
| 75° | 13905 | 13325 | 12994 |
| 80° | 12338 | 11967 | 11353 |
| 85° | 10078 | 9596 | 8596 |



TEST NUMBER: P331572

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.8 | 1.9 |
| 10°-20° | 365.1 | 5.3 |
| 20°-30° | 536.7 | 7.8 |
| 30°-40° | 623.4 | 9.1 |
| 40°-50° | 622.7 | 9.1 |
| 50°-60° | 543.1 | 7.9 |
| 60°-70° | 401.6 | 5.8 |
| 70°-80° | 227.4 | 3.3 |
| 80°-90° | 65.9 | 1.0 |
| 90°-100° | 76.0 | 1.1 |
| 100°-110° | 236.2 | 3.4 |
| 110°-120° | 403.8 | 5.9 |
| 120°-130° | 531.0 | 7.7 |
| 130°-140° | 595.9 | 8.7 |
| 140°-150° | 584.3 | 8.5 |
| 150°-160° | 490.1 | 7.1 |
| 160°-170° | 325.1 | 4.7 |
| 170°-180° | 113.6 | 1.7 |
| 0°-30° | 1031.6 | 15.0 |
| 0°-40° | 1655.0 | 24.1 |
| 0°-60° | 2820.8 | 41.0 |
| 0°-90° | 3515.8 | 51.2 |
| 90°-120° | 716.0 | 10.4 |
| 90°-150° | 2427.3 | 35.3 |
| 90°-180° | 3356.0 | 48.8 |
| 0°-180° | 6871.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1380 | 1380 | 1380 | 1380 | 1380 | |
| 5° | 1380 | 1374 | 1360 | 1370 | 1368 | 131 |
| 15° | 1314 | 1305 | 1288 | 1293 | 1287 | 370 |
| 25° | 1189 | 1178 | 1156 | 1158 | 1156 | 547 |
| 35° | 1026 | 1012 | 991 | 983 | 977 | 640 |
| 45° | 835 | 825 | 806 | 791 | 786 | 644 |
| 55° | 632 | 623 | 608 | 592 | 585 | 565 |
| 65° | 426 | 418 | 405 | 393 | 386 | 421 |
| 75° | 223 | 220 | 214 | 206 | 208 | 238 |
| 85° | 54 | 53 | 52 | 48 | 46 | 62 |
| 90° | 1 | 14 | 35 | 34 | 34 | 5 |
| 95° | 53 | 62 | 65 | 65 | 63 | 60 |
| 105° | 218 | 221 | 223 | 225 | 225 | 230 |
| 115° | 405 | 411 | 409 | 408 | 405 | 401 |
| 125° | 590 | 598 | 596 | 593 | 592 | 527 |
| 135° | 763 | 773 | 776 | 775 | 772 | 589 |
| 145° | 926 | 933 | 939 | 940 | 936 | 578 |
| 155° | 1058 | 1061 | 1064 | 1069 | 1066 | 487 |
| 165° | 1152 | 1151 | 1151 | 1157 | 1153 | 325 |
| 175° | 1198 | 1195 | 1193 | 1200 | 1194 | 114 |
| 180° | 1200 | 1200 | 1200 | 1200 | 1200 | |



TEST NUMBER: P331572

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 |
| 2.5° | 1386.4 | 1385.2 | 1384.0 | 1382.9 | 1381.7 | 1379.8 | 1377.2 | 1374.6 | 1372.0 | 1369.4 | 1371.8 |
| 5° | 1380.0 | 1378.8 | 1377.7 | 1376.5 | 1375.3 | 1373.1 | 1369.9 | 1366.6 | 1363.4 | 1360.1 | 1362.5 |
| 7.5° | 1367.8 | 1366.0 | 1364.2 | 1362.3 | 1360.5 | 1357.9 | 1354.6 | 1351.3 | 1348.0 | 1344.7 | 1347.1 |
| 10° | 1356.1 | 1354.1 | 1352.0 | 1349.9 | 1347.9 | 1345.1 | 1341.5 | 1338.0 | 1334.5 | 1330.9 | 1333.3 |
| 12.5° | 1340.2 | 1338.4 | 1336.6 | 1334.7 | 1332.9 | 1330.2 | 1326.7 | 1323.1 | 1319.6 | 1316.1 | 1317.7 |
| 15° | 1313.7 | 1311.9 | 1310.1 | 1308.4 | 1306.6 | 1303.8 | 1300.0 | 1296.1 | 1292.3 | 1288.5 | 1289.6 |
| 17.5° | 1279.7 | 1277.9 | 1276.2 | 1274.4 | 1272.6 | 1269.8 | 1265.9 | 1262.0 | 1258.1 | 1254.2 | 1255.6 |
| 20° | 1255.3 | 1253.5 | 1251.8 | 1250.0 | 1248.2 | 1245.3 | 1241.1 | 1237.0 | 1232.9 | 1228.8 | 1229.6 |
| 22.5° | 1230.9 | 1228.4 | 1225.9 | 1223.4 | 1221.0 | 1217.8 | 1213.9 | 1210.0 | 1206.1 | 1202.2 | 1202.4 |
| 25° | 1188.9 | 1186.6 | 1184.2 | 1181.9 | 1179.5 | 1175.8 | 1170.8 | 1165.8 | 1160.8 | 1155.8 | 1156.4 |
| 27.5° | 1141.2 | 1139.1 | 1136.9 | 1134.8 | 1132.7 | 1129.6 | 1125.7 | 1121.7 | 1117.8 | 1113.8 | 1113.0 |
| 30° | 1109.3 | 1107.0 | 1104.6 | 1102.3 | 1099.9 | 1096.5 | 1092.1 | 1087.7 | 1083.2 | 1078.8 | 1077.9 |
| 32.5° | 1075.4 | 1073.5 | 1071.6 | 1069.7 | 1067.8 | 1064.5 | 1059.9 | 1055.2 | 1050.6 | 1045.9 | 1044.3 |
| 35° | 1025.7 | 1022.8 | 1019.8 | 1016.9 | 1013.9 | 1010.1 | 1005.4 | 1000.7 | 995.9 | 991.2 | 989.5 |
| 37.5° | 969.7 | 967.1 | 964.5 | 961.9 | 959.4 | 955.7 | 951.0 | 946.3 | 941.5 | 936.8 | 934.6 |
| 40° | 931.5 | 929.2 | 926.8 | 924.4 | 922.1 | 918.5 | 913.8 | 909.1 | 904.4 | 899.7 | 897.0 |
| 42.5° | 894.4 | 892.0 | 889.6 | 887.3 | 884.9 | 881.4 | 876.7 | 872.0 | 867.2 | 862.5 | 859.6 |
| 45° | 834.6 | 832.6 | 830.5 | 828.5 | 826.4 | 823.1 | 818.7 | 814.3 | 809.9 | 805.5 | 802.2 |
| 47.5° | 775.2 | 773.3 | 771.3 | 769.4 | 767.4 | 764.1 | 759.5 | 754.9 | 750.3 | 745.7 | 742.3 |
| 50° | 733.8 | 732.3 | 730.9 | 729.4 | 727.9 | 725.1 | 721.0 | 716.8 | 712.7 | 708.6 | 704.5 |
| 52.5° | 693.5 | 691.5 | 689.6 | 687.6 | 685.7 | 682.8 | 678.9 | 675.0 | 671.1 | 667.2 | 663.8 |
| 55° | 631.6 | 629.9 | 628.1 | 626.3 | 624.5 | 621.9 | 618.4 | 614.8 | 611.3 | 607.7 | 604.2 |
| 57.5° | 569.5 | 568.1 | 566.7 | 565.3 | 563.9 | 561.2 | 557.3 | 553.4 | 549.5 | 545.6 | 542.2 |
| 60° | 528.1 | 526.9 | 525.8 | 524.6 | 523.4 | 520.8 | 516.6 | 512.5 | 508.4 | 504.2 | 501.0 |
| 62.5° | 487.8 | 485.9 | 484.0 | 482.1 | 480.2 | 477.7 | 474.5 | 471.3 | 468.1 | 465.0 | 462.0 |
| 65° | 426.0 | 424.2 | 422.4 | 420.6 | 418.9 | 416.5 | 413.6 | 410.6 | 407.7 | 404.7 | 402.1 |
| 67.5° | 363.1 | 361.6 | 360.2 | 358.8 | 357.4 | 355.4 | 352.7 | 350.0 | 347.4 | 344.7 | 342.7 |
| 70° | 323.8 | 322.6 | 321.4 | 320.2 | 319.1 | 317.1 | 314.5 | 311.8 | 309.2 | 306.5 | 304.5 |
| 72.5° | 283.4 | 282.3 | 281.1 | 279.9 | 278.7 | 277.3 | 275.6 | 273.9 | 272.1 | 270.4 | 268.4 |
| 75° | 222.9 | 222.3 | 221.7 | 221.2 | 220.6 | 219.5 | 218.1 | 216.6 | 215.1 | 213.6 | 211.9 |
| 77.5° | 168.8 | 167.8 | 166.8 | 165.8 | 164.8 | 164.0 | 163.4 | 162.8 | 162.2 | 161.6 | 160.7 |
| 80° | 132.7 | 132.4 | 132.1 | 131.8 | 131.5 | 131.1 | 130.5 | 129.9 | 129.3 | 128.7 | 127.8 |
| 82.5° | 98.7 | 98.7 | 98.6 | 98.5 | 98.5 | 98.3 | 97.9 | 97.6 | 97.2 | 96.9 | 95.7 |
| 85° | 54.4 | 54.1 | 53.8 | 53.5 | 53.2 | 52.9 | 52.6 | 52.3 | 52.0 | 51.8 | 50.9 |
| 87.5° | 19.3 | 19.4 | 19.4 | 19.5 | 19.6 | 19.9 | 20.4 | 20.9 | 21.4 | 22.0 | 21.2 |
| 90° | 1.0 | 3.7 | 6.4 | 9.1 | 11.8 | 15.6 | 20.6 | 25.5 | 30.5 | 35.4 | 35.0 |
| 92.5° | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 27.5 | 28.7 | 29.9 | 31.0 | 32.2 | 32.3 |
| 95° | 52.7 | 54.9 | 57.2 | 59.4 | 61.7 | 63.0 | 63.5 | 63.9 | 64.4 | 64.8 | 64.8 |
| 97.5° | 96.2 | 98.2 | 100.2 | 102.2 | 104.1 | 105.6 | 106.4 | 107.3 | 108.1 | 109.0 | 109.0 |
| 100° | 128.6 | 130.4 | 132.2 | 134.0 | 135.8 | 137.1 | 137.7 | 138.4 | 139.1 | 139.8 | 139.8 |
| 102.5° | 162.7 | 164.1 | 165.5 | 167.0 | 168.4 | 169.6 | 170.4 | 171.3 | 172.1 | 173.0 | 173.2 |
| 105° | 217.8 | 218.4 | 219.1 | 219.8 | 220.5 | 221.0 | 221.5 | 221.9 | 222.4 | 222.8 | 223.3 |
| 107.5° | 273.3 | 274.3 | 275.2 | 276.2 | 277.2 | 277.7 | 277.7 | 277.7 | 277.7 | 277.7 | 277.9 |
| 110° | 308.9 | 310.3 | 311.6 | 313.0 | 314.3 | 315.0 | 315.0 | 315.0 | 315.0 | 315.0 | 315.0 |



TEST NUMBER: P331572

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 347.8 | 349.2 | 350.5 | 351.9 | 353.2 | 353.8 | 353.6 | 353.4 | 353.3 | 353.1 | 352.5 |
| 115° | 405.1 | 406.5 | 407.8 | 409.2 | 410.5 | 411.0 | 410.5 | 410.1 | 409.6 | 409.2 | 409.0 |
| 117.5° | 462.3 | 464.1 | 465.9 | 467.7 | 469.5 | 469.7 | 468.5 | 467.2 | 466.0 | 464.7 | 464.2 |
| 120° | 500.4 | 502.2 | 504.0 | 505.8 | 507.6 | 507.6 | 505.8 | 504.0 | 502.2 | 500.4 | 500.4 |
| 122.5° | 535.2 | 537.4 | 539.5 | 541.7 | 543.8 | 544.3 | 543.0 | 541.8 | 540.5 | 539.2 | 538.7 |
| 125° | 589.5 | 591.5 | 593.5 | 595.6 | 597.6 | 598.3 | 597.6 | 596.9 | 596.2 | 595.6 | 594.9 |
| 127.5° | 642.4 | 644.9 | 647.5 | 650.1 | 652.6 | 653.5 | 652.7 | 651.9 | 651.1 | 650.3 | 649.4 |
| 130° | 675.6 | 678.5 | 681.4 | 684.4 | 687.3 | 688.5 | 688.1 | 687.6 | 687.2 | 686.7 | 686.3 |
| 132.5° | 712.8 | 715.2 | 717.6 | 720.0 | 722.4 | 723.6 | 723.7 | 723.8 | 723.9 | 724.0 | 723.0 |
| 135° | 762.7 | 765.2 | 767.6 | 770.1 | 772.6 | 774.0 | 774.5 | 774.9 | 775.4 | 775.8 | 775.6 |
| 137.5° | 815.1 | 817.2 | 819.2 | 821.2 | 823.2 | 824.6 | 825.1 | 825.7 | 826.3 | 826.9 | 826.7 |
| 140° | 846.7 | 848.8 | 850.8 | 852.8 | 854.8 | 856.4 | 857.6 | 858.7 | 859.8 | 860.9 | 860.9 |
| 142.5° | 879.2 | 881.2 | 883.2 | 885.2 | 887.3 | 888.7 | 889.4 | 890.2 | 891.0 | 891.7 | 891.9 |
| 145° | 925.7 | 927.3 | 928.9 | 930.5 | 932.1 | 933.5 | 934.9 | 936.2 | 937.6 | 938.9 | 939.1 |
| 147.5° | 967.3 | 969.2 | 971.1 | 972.9 | 974.8 | 976.2 | 977.1 | 978.0 | 978.9 | 979.8 | 980.3 |
| 150° | 995.6 | 997.0 | 998.3 | 999.7 | 1001.0 | 1002.2 | 1003.1 | 1004.0 | 1004.9 | 1005.8 | 1006.4 |
| 152.5° | 1020.8 | 1022.1 | 1023.5 | 1024.8 | 1026.2 | 1027.4 | 1028.5 | 1029.5 | 1030.6 | 1031.7 | 1032.5 |
| 155° | 1058.4 | 1059.1 | 1059.8 | 1060.5 | 1061.1 | 1061.8 | 1062.5 | 1063.2 | 1063.8 | 1064.5 | 1065.6 |
| 157.5° | 1090.6 | 1091.1 | 1091.5 | 1092.0 | 1092.4 | 1092.9 | 1093.3 | 1093.7 | 1094.1 | 1094.5 | 1096.0 |
| 160° | 1110.1 | 1110.5 | 1111.0 | 1111.4 | 1111.9 | 1112.2 | 1112.5 | 1112.7 | 1112.9 | 1113.1 | 1114.5 |
| 162.5° | 1127.9 | 1128.0 | 1128.1 | 1128.2 | 1128.3 | 1128.4 | 1128.7 | 1128.9 | 1129.1 | 1129.3 | 1130.9 |
| 165° | 1151.6 | 1151.4 | 1151.2 | 1150.9 | 1150.7 | 1150.6 | 1150.6 | 1150.6 | 1150.6 | 1150.6 | 1152.2 |
| 167.5° | 1171.5 | 1170.8 | 1170.1 | 1169.4 | 1168.8 | 1168.4 | 1168.4 | 1168.3 | 1168.3 | 1168.2 | 1169.8 |
| 170° | 1182.0 | 1181.3 | 1180.7 | 1180.0 | 1179.3 | 1178.9 | 1178.6 | 1178.4 | 1178.2 | 1178.0 | 1179.5 |
| 172.5° | 1189.3 | 1188.6 | 1187.9 | 1187.3 | 1186.6 | 1186.1 | 1185.9 | 1185.7 | 1185.5 | 1185.2 | 1186.8 |
| 175° | 1198.2 | 1197.5 | 1196.9 | 1196.2 | 1195.5 | 1194.9 | 1194.5 | 1194.0 | 1193.6 | 1193.1 | 1194.7 |
| 177.5° | 1201.9 | 1201.3 | 1200.8 | 1200.2 | 1199.7 | 1199.2 | 1198.9 | 1198.5 | 1198.2 | 1197.8 | 1198.9 |
| 180° | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 |



TEST NUMBER: P331572

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 |
| 2.5° | 1374.1 | 1376.5 | 1378.8 | 1379.8 | 1379.3 | 1378.8 | 1378.4 | 1377.9 |
| 5° | 1364.8 | 1367.2 | 1369.6 | 1370.4 | 1369.9 | 1369.3 | 1368.7 | 1368.1 |
| 7.5° | 1349.4 | 1351.8 | 1354.2 | 1355.0 | 1354.4 | 1353.7 | 1353.1 | 1352.4 |
| 10° | 1335.6 | 1338.0 | 1340.4 | 1341.1 | 1340.2 | 1339.3 | 1338.4 | 1337.6 |
| 12.5° | 1319.4 | 1321.0 | 1322.7 | 1323.2 | 1322.5 | 1321.9 | 1321.2 | 1320.6 |
| 15° | 1290.8 | 1292.0 | 1293.2 | 1293.0 | 1291.6 | 1290.1 | 1288.6 | 1287.1 |
| 17.5° | 1256.9 | 1258.3 | 1259.7 | 1259.6 | 1258.2 | 1256.8 | 1255.4 | 1254.0 |
| 20° | 1230.5 | 1231.4 | 1232.3 | 1232.1 | 1231.0 | 1229.8 | 1228.6 | 1227.4 |
| 22.5° | 1202.6 | 1202.7 | 1202.9 | 1202.7 | 1201.9 | 1201.2 | 1200.5 | 1199.8 |
| 25° | 1157.0 | 1157.5 | 1158.1 | 1158.1 | 1157.5 | 1157.0 | 1156.4 | 1155.8 |
| 27.5° | 1112.1 | 1111.2 | 1110.3 | 1109.2 | 1107.7 | 1106.3 | 1104.9 | 1103.5 |
| 30° | 1077.0 | 1076.2 | 1075.3 | 1074.2 | 1073.1 | 1071.9 | 1070.7 | 1069.5 |
| 32.5° | 1042.7 | 1041.1 | 1039.5 | 1038.1 | 1037.0 | 1035.8 | 1034.6 | 1033.4 |
| 35° | 987.7 | 985.9 | 984.2 | 982.5 | 981.1 | 979.6 | 978.1 | 976.6 |
| 37.5° | 932.5 | 930.3 | 928.1 | 926.3 | 924.9 | 923.5 | 922.1 | 920.6 |
| 40° | 894.4 | 891.7 | 889.1 | 887.1 | 886.0 | 884.8 | 883.6 | 882.4 |
| 42.5° | 856.7 | 853.8 | 851.0 | 848.7 | 847.0 | 845.4 | 843.7 | 842.1 |
| 45° | 799.0 | 795.7 | 792.5 | 790.3 | 789.1 | 787.9 | 786.7 | 785.6 |
| 47.5° | 738.9 | 735.5 | 732.1 | 729.5 | 727.8 | 726.1 | 724.4 | 722.7 |
| 50° | 700.3 | 696.2 | 692.1 | 689.3 | 687.8 | 686.3 | 684.9 | 683.4 |
| 52.5° | 660.3 | 656.9 | 653.5 | 650.8 | 648.9 | 646.9 | 645.0 | 643.0 |
| 55° | 600.7 | 597.1 | 593.6 | 591.1 | 589.6 | 588.1 | 586.7 | 585.2 |
| 57.5° | 538.7 | 535.2 | 531.7 | 529.4 | 528.3 | 527.2 | 526.1 | 524.9 |
| 60° | 497.8 | 494.5 | 491.3 | 489.2 | 488.3 | 487.4 | 486.5 | 485.7 |
| 62.5° | 458.9 | 455.9 | 452.9 | 450.9 | 449.7 | 448.6 | 447.5 | 446.4 |
| 65° | 399.4 | 396.8 | 394.1 | 392.0 | 390.6 | 389.1 | 387.6 | 386.1 |
| 67.5° | 340.6 | 338.5 | 336.5 | 334.9 | 333.7 | 332.5 | 331.3 | 330.1 |
| 70° | 302.4 | 300.3 | 298.3 | 296.6 | 295.5 | 294.3 | 293.1 | 291.9 |
| 72.5° | 266.3 | 264.2 | 262.2 | 260.7 | 259.7 | 258.8 | 257.8 | 256.9 |
| 75° | 210.1 | 208.3 | 206.6 | 206.0 | 206.6 | 207.2 | 207.7 | 208.3 |
| 77.5° | 159.9 | 159.0 | 158.1 | 157.2 | 156.4 | 155.6 | 154.8 | 153.9 |
| 80° | 126.9 | 126.1 | 125.2 | 124.4 | 123.8 | 123.3 | 122.7 | 122.1 |
| 82.5° | 94.6 | 93.5 | 92.4 | 91.8 | 91.6 | 91.5 | 91.4 | 91.3 |
| 85° | 50.0 | 49.1 | 48.2 | 47.6 | 47.3 | 47.0 | 46.7 | 46.4 |
| 87.5° | 20.4 | 19.6 | 18.8 | 18.3 | 18.1 | 17.9 | 17.7 | 17.5 |
| 90° | 34.5 | 34.1 | 33.6 | 33.5 | 33.8 | 34.0 | 34.2 | 34.4 |
| 92.5° | 32.4 | 32.5 | 32.6 | 32.6 | 32.7 | 32.7 | 32.8 | 32.8 |
| 95° | 64.8 | 64.8 | 64.8 | 64.6 | 64.1 | 63.7 | 63.2 | 62.8 |
| 97.5° | 109.0 | 109.0 | 109.0 | 109.0 | 108.9 | 108.9 | 108.8 | 108.8 |
| 100° | 139.8 | 139.8 | 139.8 | 139.7 | 139.4 | 139.2 | 139.0 | 138.8 |
| 102.5° | 173.4 | 173.5 | 173.7 | 173.7 | 173.5 | 173.2 | 173.0 | 172.8 |
| 105° | 223.7 | 224.2 | 224.6 | 224.9 | 224.9 | 224.9 | 224.9 | 224.9 |
| 107.5° | 278.1 | 278.3 | 278.4 | 278.0 | 277.0 | 275.9 | 274.9 | 273.9 |
| 110° | 315.0 | 315.0 | 315.0 | 314.7 | 314.0 | 313.3 | 312.6 | 312.0 |



TEST NUMBER: P331572

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 352.0 | 351.5 | 350.9 | 350.4 | 349.9 | 349.4 | 348.9 | 348.4 |
| 115° | 408.7 | 408.5 | 408.3 | 407.8 | 407.2 | 406.5 | 405.8 | 405.1 |
| 117.5° | 463.6 | 463.1 | 462.5 | 461.9 | 461.3 | 460.6 | 459.9 | 459.2 |
| 120° | 500.4 | 500.4 | 500.4 | 500.0 | 499.3 | 498.7 | 498.0 | 497.3 |
| 122.5° | 538.2 | 537.6 | 537.1 | 536.6 | 536.1 | 535.6 | 535.1 | 534.6 |
| 125° | 594.2 | 593.5 | 592.9 | 592.4 | 592.2 | 592.0 | 591.7 | 591.5 |
| 127.5° | 648.6 | 647.8 | 647.0 | 646.2 | 645.5 | 644.8 | 644.1 | 643.4 |
| 130° | 685.8 | 685.4 | 684.9 | 684.2 | 683.3 | 682.4 | 681.5 | 680.6 |
| 132.5° | 722.0 | 721.0 | 720.0 | 719.2 | 718.5 | 717.7 | 717.0 | 716.3 |
| 135° | 775.4 | 775.2 | 774.9 | 774.5 | 773.8 | 773.1 | 772.5 | 771.8 |
| 137.5° | 826.5 | 826.4 | 826.2 | 825.6 | 824.7 | 823.8 | 822.9 | 822.0 |
| 140° | 860.9 | 860.9 | 860.9 | 860.5 | 859.6 | 858.7 | 857.8 | 856.9 |
| 142.5° | 892.1 | 892.3 | 892.4 | 892.1 | 891.2 | 890.3 | 889.4 | 888.5 |
| 145° | 939.4 | 939.6 | 939.8 | 939.5 | 938.6 | 937.7 | 936.8 | 935.9 |
| 147.5° | 980.8 | 981.3 | 981.8 | 981.6 | 980.8 | 979.9 | 979.1 | 978.2 |
| 150° | 1007.1 | 1007.8 | 1008.5 | 1008.5 | 1007.8 | 1007.1 | 1006.4 | 1005.8 |
| 152.5° | 1033.4 | 1034.3 | 1035.1 | 1035.1 | 1034.3 | 1033.4 | 1032.5 | 1031.7 |
| 155° | 1066.8 | 1067.9 | 1069.0 | 1069.2 | 1068.6 | 1067.9 | 1067.2 | 1066.5 |
| 157.5° | 1097.6 | 1099.1 | 1100.6 | 1100.8 | 1099.8 | 1098.7 | 1097.6 | 1096.5 |
| 160° | 1115.8 | 1117.2 | 1118.5 | 1118.8 | 1117.9 | 1117.0 | 1116.1 | 1115.2 |
| 162.5° | 1132.4 | 1133.9 | 1135.5 | 1135.7 | 1134.6 | 1133.5 | 1132.4 | 1131.4 |
| 165° | 1153.8 | 1155.3 | 1156.9 | 1157.1 | 1156.0 | 1154.9 | 1153.8 | 1152.6 |
| 167.5° | 1171.4 | 1173.0 | 1174.5 | 1174.7 | 1173.6 | 1172.4 | 1171.2 | 1170.1 |
| 170° | 1181.1 | 1182.7 | 1184.3 | 1184.4 | 1183.0 | 1181.7 | 1180.3 | 1179.0 |
| 172.5° | 1188.4 | 1190.0 | 1191.5 | 1191.7 | 1190.3 | 1189.0 | 1187.6 | 1186.3 |
| 175° | 1196.3 | 1197.9 | 1199.4 | 1199.6 | 1198.2 | 1196.9 | 1195.5 | 1194.2 |
| 177.5° | 1200.0 | 1201.0 | 1202.1 | 1202.1 | 1201.0 | 1200.0 | 1198.9 | 1197.8 |
| 180° | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 | 1200.2 |

(END OF REPORT)