

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: P331828

Luminaire Tested: **S122RDIW-S865D435U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331828
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: S122RDIW-S865D435U835-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4519.1 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

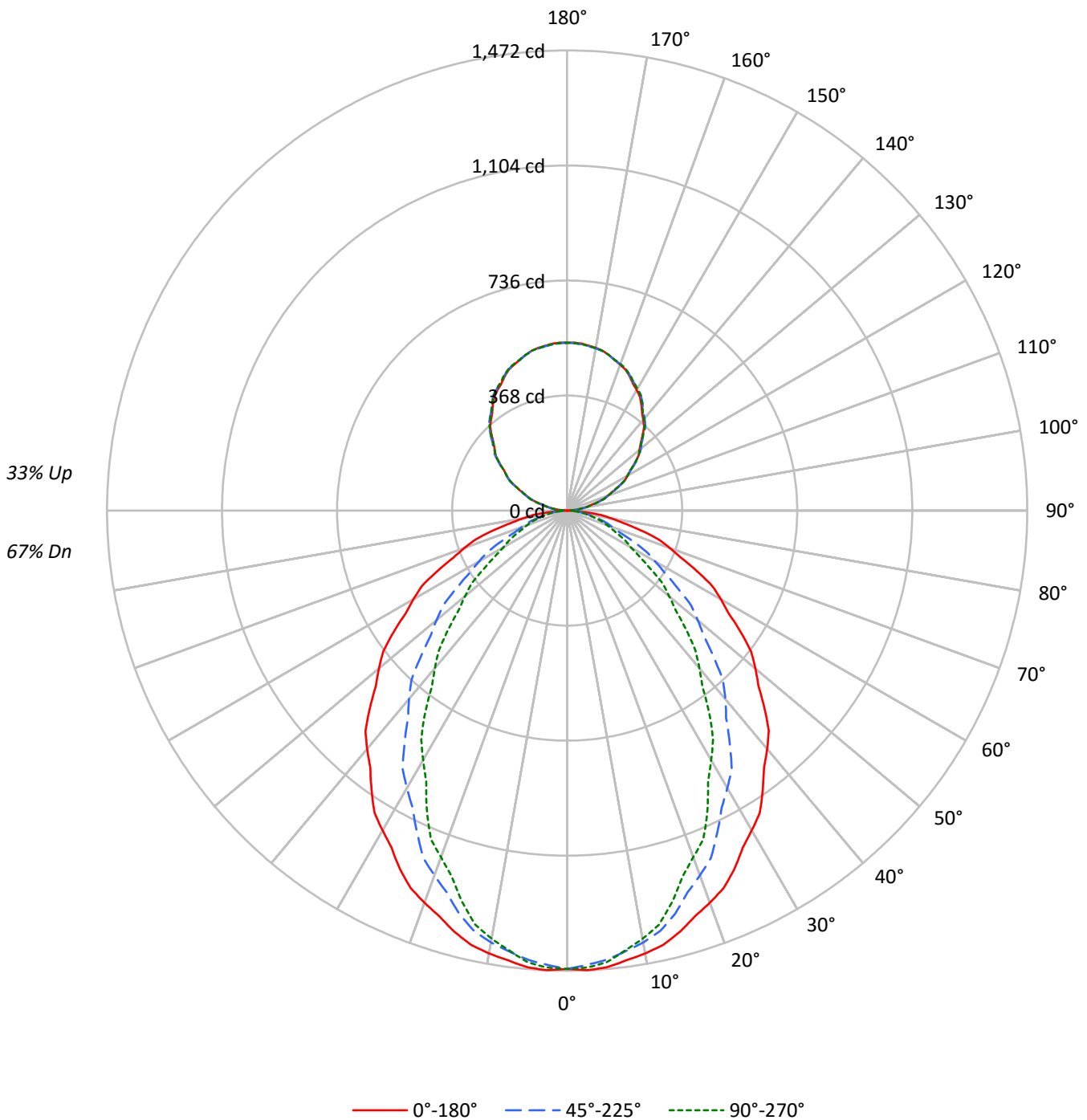
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331828

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331828

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 | | | | | | | | |
| 1 | 102 | 98 | 94 | 91 | 96 | 93 | 89 | 86 | 82 | 80 | 78 | 73 | 71 | 69 | 64 | 63 | 62 | 58 | | | | | | | | |
| 2 | 94 | 86 | 80 | 75 | 88 | 82 | 76 | 72 | 73 | 69 | 65 | 65 | 62 | 59 | 57 | 55 | 53 | 49 | | | | | | | | |
| 3 | 86 | 77 | 69 | 64 | 81 | 72 | 66 | 61 | 65 | 60 | 56 | 58 | 54 | 51 | 51 | 48 | 46 | 42 | | | | | | | | |
| 4 | 79 | 68 | 60 | 54 | 74 | 65 | 58 | 52 | 58 | 53 | 48 | 52 | 48 | 44 | 46 | 43 | 40 | 37 | | | | | | | | |
| 5 | 73 | 61 | 53 | 47 | 68 | 58 | 51 | 45 | 52 | 47 | 42 | 47 | 42 | 39 | 42 | 38 | 35 | 33 | | | | | | | | |
| 6 | 67 | 55 | 47 | 41 | 63 | 53 | 45 | 40 | 48 | 42 | 37 | 43 | 38 | 34 | 38 | 35 | 31 | 29 | | | | | | | | |
| 7 | 62 | 50 | 42 | 37 | 59 | 48 | 41 | 35 | 43 | 37 | 33 | 39 | 34 | 31 | 35 | 31 | 28 | 26 | | | | | | | | |
| 8 | 58 | 46 | 38 | 33 | 55 | 44 | 37 | 32 | 40 | 34 | 30 | 36 | 31 | 28 | 33 | 29 | 26 | 23 | | | | | | | | |
| 9 | 54 | 42 | 35 | 30 | 51 | 40 | 33 | 29 | 37 | 31 | 27 | 33 | 29 | 25 | 30 | 26 | 23 | 21 | | | | | | | | |
| 10 | 51 | 39 | 32 | 27 | 48 | 37 | 30 | 26 | 34 | 28 | 24 | 31 | 26 | 23 | 28 | 24 | 21 | 19 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 23675 | 23675 | 23675 |
| 5° | 23765 | 23378 | 23506 |
| 10° | 23582 | 22996 | 22799 |
| 15° | 23311 | 22313 | 21670 |
| 20° | 22936 | 21340 | 20270 |
| 25° | 22552 | 20236 | 18912 |
| 30° | 22018 | 19099 | 17169 |
| 35° | 21498 | 17864 | 15640 |
| 40° | 20976 | 16585 | 13873 |
| 45° | 20361 | 15150 | 12271 |
| 50° | 19733 | 13700 | 10698 |
| 55° | 19088 | 12141 | 9188 |
| 60° | 18338 | 10498 | 7627 |
| 65° | 17490 | 8821 | 6946 |
| 70° | 16475 | 7265 | 6387 |
| 75° | 15234 | 6625 | 5958 |
| 80° | 13445 | 5923 | 5430 |
| 85° | 10578 | 4668 | 4668 |



TEST NUMBER: P331828

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.2 | 3.0 |
| 10°-20° | 376.8 | 8.3 |
| 20°-30° | 529.2 | 11.7 |
| 30°-40° | 577.1 | 12.8 |
| 40°-50° | 530.6 | 11.7 |
| 50°-60° | 416.7 | 9.2 |
| 60°-70° | 271.7 | 6.0 |
| 70°-80° | 140.1 | 3.1 |
| 80°-90° | 38.5 | 0.9 |
| 90°-100° | 34.0 | 0.8 |
| 100°-110° | 105.7 | 2.3 |
| 110°-120° | 180.6 | 4.0 |
| 120°-130° | 237.5 | 5.3 |
| 130°-140° | 266.6 | 5.9 |
| 140°-150° | 261.4 | 5.8 |
| 150°-160° | 219.2 | 4.9 |
| 160°-170° | 145.4 | 3.2 |
| 170°-180° | 50.8 | 1.1 |
| 0°-30° | 1043.3 | 23.1 |
| 0°-40° | 1620.3 | 35.9 |
| 0°-60° | 2567.6 | 56.8 |
| 0°-90° | 3017.9 | 66.8 |
| 90°-120° | 320.3 | 7.1 |
| 90°-150° | 1085.7 | 24.0 |
| 90°-180° | 1501.0 | 33.2 |
| 0°-180° | 4519.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1466 | 1466 | 1466 | 1466 | 1466 | |
| 5° | 1466 | 1459 | 1442 | 1453 | 1450 | 139 |
| 15° | 1395 | 1378 | 1335 | 1310 | 1296 | 393 |
| 25° | 1266 | 1221 | 1136 | 1083 | 1062 | 582 |
| 35° | 1091 | 1020 | 906 | 826 | 794 | 682 |
| 45° | 892 | 800 | 664 | 573 | 537 | 688 |
| 55° | 678 | 572 | 431 | 355 | 326 | 606 |
| 65° | 458 | 350 | 231 | 188 | 182 | 454 |
| 75° | 244 | 154 | 106 | 97 | 96 | 258 |
| 85° | 57 | 31 | 25 | 25 | 25 | 67 |
| 90° | 0 | 6 | 16 | 15 | 15 | 4 |
| 95° | 24 | 28 | 29 | 29 | 28 | 27 |
| 105° | 97 | 99 | 100 | 101 | 101 | 103 |
| 115° | 181 | 184 | 183 | 182 | 181 | 179 |
| 125° | 264 | 267 | 266 | 265 | 265 | 236 |
| 135° | 341 | 346 | 347 | 346 | 345 | 263 |
| 145° | 414 | 417 | 420 | 420 | 419 | 259 |
| 155° | 473 | 475 | 476 | 478 | 477 | 218 |
| 165° | 515 | 515 | 515 | 518 | 516 | 145 |
| 175° | 536 | 535 | 534 | 537 | 534 | 51 |
| 180° | 537 | 537 | 537 | 537 | 537 | |



TEST NUMBER: P331828

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 |
| 2.5° | 1471.6 | 1470.4 | 1469.2 | 1468.0 | 1466.9 | 1465.0 | 1462.4 | 1459.8 | 1457.2 | 1454.6 | 1457.0 |
| 5° | 1466.3 | 1464.8 | 1463.3 | 1461.8 | 1460.4 | 1457.7 | 1453.9 | 1450.1 | 1446.2 | 1442.4 | 1445.0 |
| 7.5° | 1451.1 | 1449.3 | 1447.5 | 1445.7 | 1443.8 | 1440.7 | 1436.2 | 1431.7 | 1427.2 | 1422.7 | 1423.5 |
| 10° | 1438.4 | 1436.3 | 1434.3 | 1432.2 | 1430.1 | 1426.2 | 1420.3 | 1414.4 | 1408.5 | 1402.6 | 1401.7 |
| 12.5° | 1422.5 | 1419.9 | 1417.4 | 1414.9 | 1412.3 | 1407.3 | 1399.7 | 1392.2 | 1384.6 | 1377.1 | 1375.5 |
| 15° | 1394.6 | 1391.4 | 1388.1 | 1384.9 | 1381.6 | 1375.0 | 1365.0 | 1355.0 | 1344.9 | 1334.9 | 1329.3 |
| 17.5° | 1360.4 | 1355.4 | 1350.5 | 1345.5 | 1340.6 | 1331.7 | 1318.8 | 1305.9 | 1293.1 | 1280.2 | 1273.6 |
| 20° | 1334.9 | 1329.0 | 1323.1 | 1317.2 | 1311.3 | 1301.0 | 1286.2 | 1271.5 | 1256.8 | 1242.0 | 1234.6 |
| 22.5° | 1307.3 | 1300.7 | 1294.1 | 1287.5 | 1280.9 | 1269.3 | 1252.6 | 1236.0 | 1219.4 | 1202.7 | 1193.2 |
| 25° | 1265.9 | 1256.5 | 1247.0 | 1237.6 | 1228.2 | 1213.7 | 1194.2 | 1174.8 | 1155.3 | 1135.9 | 1123.8 |
| 27.5° | 1216.0 | 1205.7 | 1195.5 | 1185.2 | 1175.0 | 1158.9 | 1136.9 | 1115.0 | 1093.0 | 1071.1 | 1057.0 |
| 30° | 1181.0 | 1169.8 | 1158.6 | 1147.4 | 1136.2 | 1118.8 | 1095.2 | 1071.6 | 1048.0 | 1024.4 | 1009.4 |
| 32.5° | 1147.0 | 1133.9 | 1120.8 | 1107.7 | 1094.6 | 1076.1 | 1052.0 | 1027.9 | 1003.9 | 979.8 | 962.7 |
| 35° | 1090.7 | 1075.7 | 1060.7 | 1045.6 | 1030.6 | 1010.1 | 984.1 | 958.2 | 932.3 | 906.3 | 887.7 |
| 37.5° | 1034.5 | 1018.0 | 1001.5 | 984.9 | 968.4 | 946.3 | 918.7 | 891.0 | 863.4 | 835.7 | 815.2 |
| 40° | 995.2 | 977.5 | 959.8 | 942.1 | 924.4 | 901.3 | 872.7 | 844.1 | 815.5 | 786.9 | 765.9 |
| 42.5° | 954.9 | 936.2 | 917.6 | 899.0 | 880.3 | 856.2 | 826.7 | 797.1 | 767.6 | 738.0 | 716.4 |
| 45° | 891.7 | 871.9 | 852.2 | 832.4 | 812.7 | 787.3 | 756.4 | 725.4 | 694.4 | 663.5 | 642.5 |
| 47.5° | 830.1 | 809.2 | 788.3 | 767.3 | 746.4 | 719.9 | 688.0 | 656.0 | 624.0 | 592.1 | 571.3 |
| 50° | 785.6 | 764.6 | 743.7 | 722.7 | 701.8 | 675.1 | 642.7 | 610.2 | 577.8 | 545.4 | 525.0 |
| 52.5° | 742.0 | 720.1 | 698.3 | 676.4 | 654.5 | 627.7 | 596.0 | 564.2 | 532.5 | 500.8 | 481.1 |
| 55° | 678.1 | 655.1 | 632.1 | 609.1 | 586.1 | 558.6 | 526.8 | 494.9 | 463.1 | 431.3 | 413.6 |
| 57.5° | 612.5 | 588.9 | 565.3 | 541.7 | 518.2 | 491.1 | 460.4 | 429.8 | 399.2 | 368.6 | 352.4 |
| 60° | 567.9 | 544.3 | 520.8 | 497.2 | 473.6 | 446.6 | 416.2 | 385.8 | 355.5 | 325.1 | 310.1 |
| 62.5° | 524.4 | 500.8 | 477.2 | 453.6 | 430.0 | 403.8 | 374.8 | 345.9 | 316.9 | 287.9 | 273.6 |
| 65° | 457.8 | 433.9 | 410.0 | 386.1 | 362.3 | 337.0 | 310.5 | 284.0 | 257.4 | 230.9 | 220.9 |
| 67.5° | 393.6 | 369.9 | 346.2 | 322.4 | 298.7 | 274.9 | 251.1 | 227.2 | 203.3 | 179.4 | 174.8 |
| 70° | 349.0 | 326.0 | 303.0 | 280.0 | 257.0 | 235.3 | 215.0 | 194.6 | 174.3 | 153.9 | 151.0 |
| 72.5° | 306.5 | 284.5 | 262.4 | 240.4 | 218.3 | 199.1 | 182.8 | 166.4 | 150.1 | 133.8 | 131.3 |
| 75° | 244.2 | 223.5 | 202.9 | 182.2 | 161.6 | 146.3 | 136.2 | 126.2 | 116.2 | 106.2 | 104.1 |
| 77.5° | 182.9 | 164.7 | 146.6 | 128.5 | 110.4 | 99.0 | 94.1 | 89.3 | 84.5 | 79.6 | 78.4 |
| 80° | 144.6 | 129.6 | 114.6 | 99.5 | 84.5 | 75.5 | 72.5 | 69.6 | 66.6 | 63.7 | 62.5 |
| 82.5° | 109.6 | 97.9 | 86.1 | 74.4 | 62.7 | 55.8 | 53.8 | 51.8 | 49.8 | 47.8 | 47.1 |
| 85° | 57.1 | 50.9 | 44.7 | 38.5 | 32.3 | 28.8 | 27.9 | 27.0 | 26.1 | 25.2 | 25.2 |
| 87.5° | 17.1 | 15.4 | 13.8 | 12.1 | 10.5 | 9.9 | 10.3 | 10.8 | 11.2 | 11.7 | 11.4 |
| 90° | 0.5 | 1.7 | 2.9 | 4.1 | 5.3 | 7.0 | 9.2 | 11.4 | 13.6 | 15.9 | 15.7 |
| 92.5° | 8.1 | 9.0 | 9.8 | 10.7 | 11.6 | 12.3 | 12.8 | 13.4 | 13.9 | 14.4 | 14.4 |
| 95° | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 | 28.2 | 28.4 | 28.6 | 28.8 | 29.0 | 29.0 |
| 97.5° | 43.0 | 43.9 | 44.8 | 45.7 | 46.6 | 47.2 | 47.6 | 48.0 | 48.4 | 48.7 | 48.7 |
| 100° | 57.5 | 58.3 | 59.1 | 60.0 | 60.8 | 61.3 | 61.6 | 61.9 | 62.2 | 62.5 | 62.5 |
| 102.5° | 72.8 | 73.4 | 74.0 | 74.7 | 75.3 | 75.9 | 76.2 | 76.6 | 77.0 | 77.4 | 77.5 |
| 105° | 97.4 | 97.7 | 98.0 | 98.3 | 98.6 | 98.9 | 99.1 | 99.3 | 99.5 | 99.7 | 99.9 |
| 107.5° | 122.2 | 122.7 | 123.1 | 123.6 | 124.0 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 124.3 |
| 110° | 138.2 | 138.8 | 139.4 | 140.0 | 140.6 | 140.9 | 140.9 | 140.9 | 140.9 | 140.9 | 140.9 |



TEST NUMBER: P331828

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 155.6 | 156.2 | 156.8 | 157.4 | 158.0 | 158.3 | 158.2 | 158.1 | 158.0 | 157.9 | 157.7 |
| 115° | 181.2 | 181.8 | 182.4 | 183.0 | 183.6 | 183.8 | 183.6 | 183.4 | 183.2 | 183.0 | 182.9 |
| 117.5° | 206.8 | 207.6 | 208.4 | 209.2 | 210.0 | 210.1 | 209.6 | 209.0 | 208.4 | 207.9 | 207.6 |
| 120° | 223.8 | 224.6 | 225.4 | 226.2 | 227.0 | 227.0 | 226.2 | 225.4 | 224.6 | 223.8 | 223.8 |
| 122.5° | 239.4 | 240.4 | 241.3 | 242.3 | 243.3 | 243.5 | 242.9 | 242.3 | 241.8 | 241.2 | 241.0 |
| 125° | 263.7 | 264.6 | 265.5 | 266.4 | 267.3 | 267.6 | 267.3 | 267.0 | 266.7 | 266.4 | 266.1 |
| 127.5° | 287.3 | 288.5 | 289.6 | 290.8 | 291.9 | 292.3 | 292.0 | 291.6 | 291.2 | 290.9 | 290.5 |
| 130° | 302.2 | 303.5 | 304.8 | 306.1 | 307.4 | 308.0 | 307.8 | 307.6 | 307.4 | 307.2 | 307.0 |
| 132.5° | 318.9 | 319.9 | 321.0 | 322.1 | 323.1 | 323.7 | 323.7 | 323.8 | 323.8 | 323.8 | 323.4 |
| 135° | 341.2 | 342.3 | 343.4 | 344.5 | 345.6 | 346.2 | 346.4 | 346.6 | 346.8 | 347.0 | 346.9 |
| 137.5° | 364.6 | 365.5 | 366.4 | 367.3 | 368.2 | 368.8 | 369.1 | 369.4 | 369.6 | 369.9 | 369.8 |
| 140° | 378.8 | 379.7 | 380.6 | 381.5 | 382.4 | 383.1 | 383.6 | 384.1 | 384.6 | 385.1 | 385.1 |
| 142.5° | 393.3 | 394.2 | 395.1 | 396.0 | 396.9 | 397.5 | 397.8 | 398.2 | 398.5 | 398.9 | 399.0 |
| 145° | 414.1 | 414.8 | 415.5 | 416.2 | 416.9 | 417.6 | 418.2 | 418.8 | 419.4 | 420.0 | 420.1 |
| 147.5° | 432.7 | 433.5 | 434.4 | 435.2 | 436.1 | 436.7 | 437.1 | 437.5 | 437.9 | 438.3 | 438.5 |
| 150° | 445.4 | 446.0 | 446.6 | 447.2 | 447.8 | 448.3 | 448.7 | 449.1 | 449.5 | 449.9 | 450.2 |
| 152.5° | 456.6 | 457.2 | 457.8 | 458.4 | 459.0 | 459.6 | 460.0 | 460.5 | 461.0 | 461.5 | 461.9 |
| 155° | 473.4 | 473.7 | 474.0 | 474.4 | 474.7 | 475.0 | 475.3 | 475.6 | 475.9 | 476.2 | 476.7 |
| 157.5° | 487.9 | 488.1 | 488.3 | 488.5 | 488.7 | 488.8 | 489.0 | 489.2 | 489.4 | 489.6 | 490.3 |
| 160° | 496.6 | 496.8 | 497.0 | 497.2 | 497.4 | 497.5 | 497.6 | 497.7 | 497.8 | 497.9 | 498.5 |
| 162.5° | 504.5 | 504.6 | 504.6 | 504.6 | 504.7 | 504.8 | 504.9 | 505.0 | 505.1 | 505.2 | 505.8 |
| 165° | 515.1 | 515.0 | 514.9 | 514.8 | 514.7 | 514.7 | 514.7 | 514.7 | 514.7 | 514.7 | 515.4 |
| 167.5° | 524.0 | 523.7 | 523.4 | 523.1 | 522.8 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 523.3 |
| 170° | 528.7 | 528.4 | 528.1 | 527.8 | 527.5 | 527.3 | 527.2 | 527.1 | 527.0 | 526.9 | 527.6 |
| 172.5° | 532.0 | 531.7 | 531.4 | 531.1 | 530.8 | 530.6 | 530.5 | 530.4 | 530.3 | 530.2 | 530.9 |
| 175° | 536.0 | 535.7 | 535.4 | 535.1 | 534.8 | 534.5 | 534.3 | 534.1 | 533.9 | 533.7 | 534.4 |
| 177.5° | 537.6 | 537.4 | 537.1 | 536.9 | 536.6 | 536.4 | 536.3 | 536.1 | 535.9 | 535.8 | 536.3 |
| 180° | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 |



TEST NUMBER: P331828

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 | 1466.3 |
| 2.5° | 1459.3 | 1461.7 | 1464.0 | 1465.0 | 1464.5 | 1464.0 | 1463.6 | 1463.1 |
| 5° | 1447.7 | 1450.3 | 1453.0 | 1453.9 | 1453.0 | 1452.1 | 1451.2 | 1450.3 |
| 7.5° | 1424.3 | 1425.0 | 1425.8 | 1425.4 | 1423.9 | 1422.4 | 1420.8 | 1419.3 |
| 10° | 1400.8 | 1399.9 | 1399.0 | 1397.7 | 1395.9 | 1394.2 | 1392.4 | 1390.6 |
| 12.5° | 1373.9 | 1372.3 | 1370.7 | 1368.5 | 1365.5 | 1362.6 | 1359.6 | 1356.7 |
| 15° | 1323.7 | 1318.1 | 1312.5 | 1308.2 | 1305.3 | 1302.3 | 1299.4 | 1296.4 |
| 17.5° | 1266.9 | 1260.2 | 1253.6 | 1247.7 | 1242.6 | 1237.6 | 1232.5 | 1227.4 |
| 20° | 1227.3 | 1219.9 | 1212.5 | 1205.6 | 1199.1 | 1192.6 | 1186.1 | 1179.7 |
| 22.5° | 1183.8 | 1174.3 | 1164.8 | 1157.6 | 1152.8 | 1147.9 | 1143.1 | 1138.3 |
| 25° | 1111.7 | 1099.6 | 1087.5 | 1079.2 | 1074.8 | 1070.4 | 1066.0 | 1061.6 |
| 27.5° | 1042.9 | 1028.8 | 1014.7 | 1004.2 | 997.2 | 990.1 | 983.1 | 976.1 |
| 30° | 994.3 | 979.3 | 964.2 | 952.7 | 944.8 | 936.8 | 928.9 | 920.9 |
| 32.5° | 945.5 | 928.3 | 911.2 | 898.8 | 891.4 | 883.9 | 876.4 | 868.9 |
| 35° | 869.1 | 850.6 | 832.0 | 819.5 | 813.0 | 806.5 | 800.0 | 793.5 |
| 37.5° | 794.8 | 774.3 | 753.9 | 739.9 | 732.5 | 725.0 | 717.6 | 710.2 |
| 40° | 745.0 | 724.1 | 703.1 | 688.8 | 681.2 | 673.5 | 665.8 | 658.2 |
| 42.5° | 694.8 | 673.1 | 651.5 | 636.9 | 629.5 | 622.1 | 614.6 | 607.2 |
| 45° | 621.6 | 600.7 | 579.7 | 565.7 | 558.6 | 551.6 | 544.5 | 537.4 |
| 47.5° | 550.4 | 529.6 | 508.8 | 495.2 | 488.8 | 482.3 | 475.9 | 469.5 |
| 50° | 504.7 | 484.3 | 464.0 | 450.7 | 444.5 | 438.3 | 432.1 | 425.9 |
| 52.5° | 461.5 | 441.9 | 422.2 | 409.6 | 403.8 | 398.1 | 392.4 | 386.7 |
| 55° | 395.9 | 378.2 | 360.5 | 348.8 | 343.2 | 337.6 | 332.0 | 326.4 |
| 57.5° | 336.2 | 320.0 | 303.8 | 293.3 | 288.6 | 283.8 | 279.1 | 274.4 |
| 60° | 295.0 | 280.0 | 264.9 | 255.1 | 250.3 | 245.6 | 240.9 | 236.2 |
| 62.5° | 259.3 | 245.0 | 230.6 | 222.0 | 219.2 | 216.4 | 213.5 | 210.7 |
| 65° | 210.8 | 200.8 | 190.8 | 185.3 | 184.4 | 183.6 | 182.7 | 181.8 |
| 67.5° | 170.2 | 165.6 | 161.0 | 158.2 | 157.3 | 156.3 | 155.4 | 154.5 |
| 70° | 148.0 | 145.1 | 142.1 | 140.1 | 138.9 | 137.7 | 136.5 | 135.3 |
| 72.5° | 128.8 | 126.3 | 123.8 | 122.3 | 121.5 | 120.8 | 120.1 | 119.4 |
| 75° | 102.0 | 100.0 | 97.9 | 96.7 | 96.4 | 96.1 | 95.8 | 95.5 |
| 77.5° | 77.3 | 76.1 | 74.9 | 74.1 | 73.6 | 73.1 | 72.7 | 72.2 |
| 80° | 61.3 | 60.2 | 59.0 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 |
| 82.5° | 46.4 | 45.6 | 44.9 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| 85° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 87.5° | 11.1 | 10.8 | 10.6 | 10.4 | 10.5 | 10.5 | 10.5 | 10.5 |
| 90° | 15.5 | 15.3 | 15.1 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 |
| 92.5° | 14.5 | 14.5 | 14.6 | 14.6 | 14.6 | 14.6 | 14.7 | 14.7 |
| 95° | 29.0 | 29.0 | 29.0 | 28.9 | 28.7 | 28.5 | 28.3 | 28.1 |
| 97.5° | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 |
| 100° | 62.5 | 62.5 | 62.5 | 62.5 | 62.4 | 62.3 | 62.2 | 62.1 |
| 102.5° | 77.5 | 77.6 | 77.7 | 77.7 | 77.6 | 77.5 | 77.4 | 77.3 |
| 105° | 100.1 | 100.3 | 100.5 | 100.6 | 100.6 | 100.6 | 100.6 | 100.6 |
| 107.5° | 124.4 | 124.5 | 124.6 | 124.4 | 123.9 | 123.4 | 123.0 | 122.5 |
| 110° | 140.9 | 140.9 | 140.9 | 140.7 | 140.4 | 140.1 | 139.8 | 139.5 |



TEST NUMBER: P331828

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 157.5 | 157.2 | 157.0 | 156.7 | 156.5 | 156.3 | 156.1 | 155.9 |
| 115° | 182.8 | 182.7 | 182.6 | 182.4 | 182.1 | 181.8 | 181.5 | 181.2 |
| 117.5° | 207.4 | 207.1 | 206.9 | 206.6 | 206.3 | 206.0 | 205.7 | 205.4 |
| 120° | 223.8 | 223.8 | 223.8 | 223.7 | 223.4 | 223.1 | 222.8 | 222.5 |
| 122.5° | 240.7 | 240.5 | 240.2 | 240.0 | 239.8 | 239.6 | 239.3 | 239.1 |
| 125° | 265.8 | 265.5 | 265.2 | 265.0 | 264.9 | 264.8 | 264.7 | 264.6 |
| 127.5° | 290.1 | 289.8 | 289.4 | 289.1 | 288.7 | 288.4 | 288.1 | 287.8 |
| 130° | 306.8 | 306.6 | 306.4 | 306.1 | 305.7 | 305.3 | 304.9 | 304.5 |
| 132.5° | 323.0 | 322.5 | 322.1 | 321.7 | 321.4 | 321.0 | 320.7 | 320.4 |
| 135° | 346.8 | 346.7 | 346.6 | 346.4 | 346.1 | 345.8 | 345.5 | 345.2 |
| 137.5° | 369.7 | 369.6 | 369.6 | 369.3 | 368.9 | 368.5 | 368.1 | 367.7 |
| 140° | 385.1 | 385.1 | 385.1 | 384.9 | 384.5 | 384.1 | 383.7 | 383.3 |
| 142.5° | 399.0 | 399.1 | 399.2 | 399.0 | 398.6 | 398.2 | 397.8 | 397.4 |
| 145° | 420.2 | 420.3 | 420.4 | 420.2 | 419.8 | 419.4 | 419.0 | 418.6 |
| 147.5° | 438.7 | 439.0 | 439.2 | 439.1 | 438.7 | 438.3 | 437.9 | 437.6 |
| 150° | 450.5 | 450.8 | 451.1 | 451.1 | 450.8 | 450.5 | 450.2 | 449.9 |
| 152.5° | 462.2 | 462.6 | 463.0 | 463.0 | 462.6 | 462.2 | 461.9 | 461.5 |
| 155° | 477.2 | 477.7 | 478.2 | 478.3 | 478.0 | 477.7 | 477.4 | 477.1 |
| 157.5° | 490.9 | 491.6 | 492.3 | 492.4 | 491.9 | 491.4 | 491.0 | 490.5 |
| 160° | 499.1 | 499.7 | 500.3 | 500.4 | 500.0 | 499.6 | 499.2 | 498.8 |
| 162.5° | 506.5 | 507.2 | 507.9 | 508.0 | 507.5 | 507.0 | 506.5 | 506.1 |
| 165° | 516.1 | 516.8 | 517.5 | 517.6 | 517.1 | 516.6 | 516.1 | 515.6 |
| 167.5° | 524.0 | 524.7 | 525.4 | 525.5 | 524.9 | 524.4 | 523.9 | 523.4 |
| 170° | 528.3 | 529.0 | 529.7 | 529.8 | 529.2 | 528.6 | 528.0 | 527.4 |
| 172.5° | 531.6 | 532.3 | 533.0 | 533.0 | 532.4 | 531.8 | 531.2 | 530.6 |
| 175° | 535.1 | 535.8 | 536.5 | 536.6 | 536.0 | 535.4 | 534.8 | 534.2 |
| 177.5° | 536.8 | 537.2 | 537.7 | 537.7 | 537.2 | 536.8 | 536.3 | 535.8 |
| 180° | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 | 536.9 |

(END OF REPORT)