

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: P331839

Luminaire Tested: **S122RDIW-S865D1240U835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331839  
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: S122RDIW-S865D1240U835-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7974.1 lumens  
Efficiency: N/A  
Efficacy: 114.2 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-Indirect

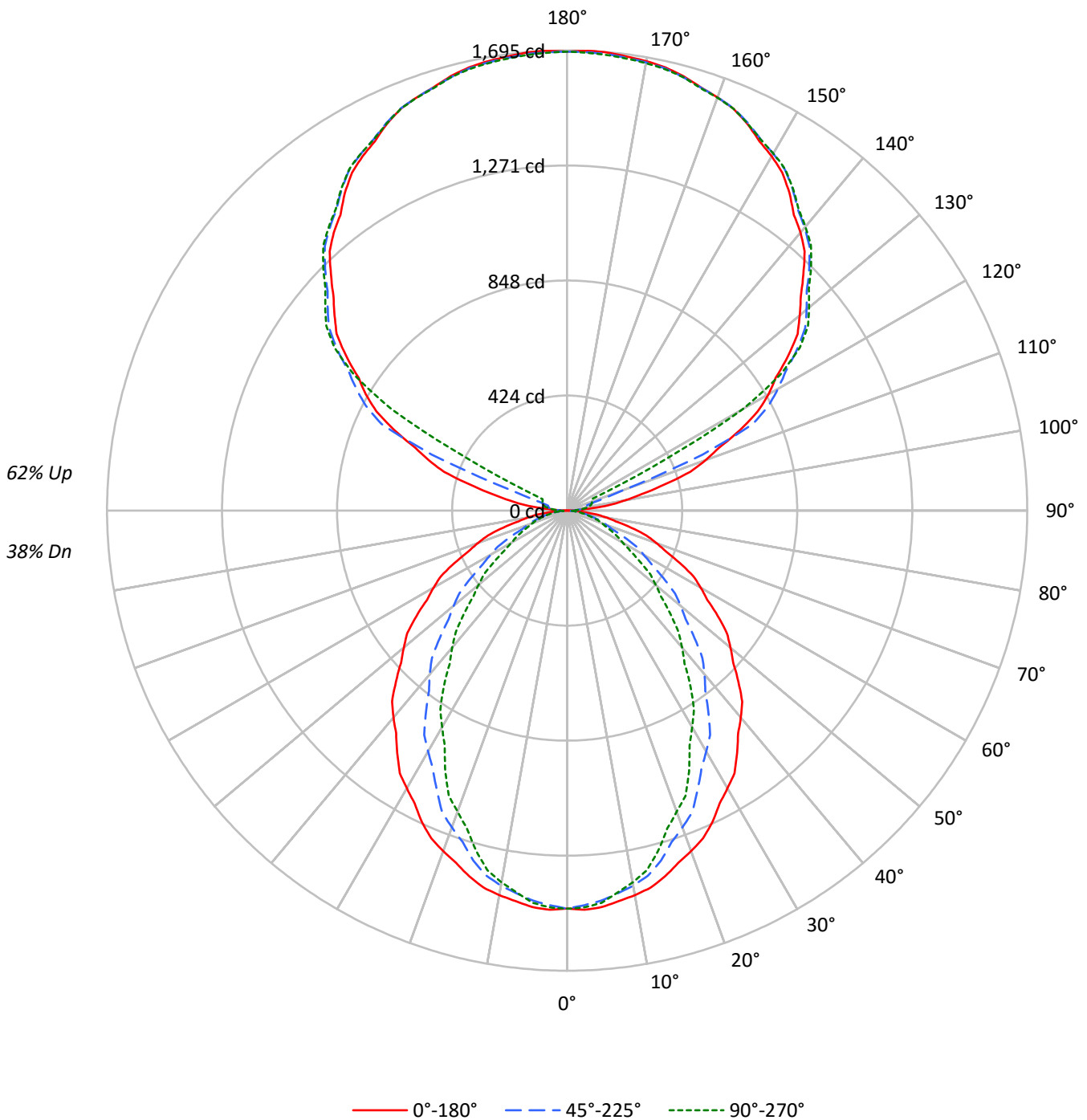
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331839

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### Luminous Intensity Polar Plot





TEST NUMBER: P331839

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**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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |    |    |    |    |    |   |  |   |
| 1   | 95  | 91  | 88  | 84  | 86 | 83 | 80 | 77 | 68 | 65 | 63 | 53 | 52 | 51 | 40 | 39 | 39 | 33 |    |    |    |    |    |   |  |   |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 47 | 45 | 43 | 36 | 34 | 33 | 28 |    |    |    |    |    |   |  |   |
| 3   | 80  | 71  | 64  | 58  | 72 | 65 | 59 | 54 | 53 | 49 | 45 | 42 | 39 | 37 | 32 | 30 | 29 | 24 |    |    |    |    |    |   |  |   |
| 4   | 73  | 63  | 55  | 49  | 66 | 57 | 51 | 46 | 47 | 42 | 39 | 38 | 34 | 32 | 29 | 27 | 25 | 21 |    |    |    |    |    |   |  |   |
| 5   | 67  | 56  | 48  | 43  | 61 | 51 | 45 | 39 | 42 | 37 | 33 | 34 | 30 | 28 | 26 | 24 | 22 | 18 |    |    |    |    |    |   |  |   |
| 6   | 62  | 50  | 43  | 37  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |    |    |    |    |    |   |  |   |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 28 | 24 | 22 | 22 | 19 | 17 | 15 |    |    |    |    |    |   |  |   |
| 8   | 53  | 41  | 34  | 29  | 48 | 38 | 31 | 27 | 32 | 27 | 23 | 26 | 22 | 19 | 20 | 18 | 16 | 13 |    |    |    |    |    |   |  |   |
| 9   | 49  | 38  | 30  | 26  | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |    |    |    |    |    |   |  |   |
| 10  | 46  | 35  | 28  | 23  | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 17 | 15 | 13 | 11 |    |    |    |    |    |   |  |   |

**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  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 137.2  | 1.7       |
| 10°-20°   | 376.8  | 4.7       |
| 20°-30°   | 529.2  | 6.6       |
| 30°-40°   | 577.1  | 7.2       |
| 40°-50°   | 530.6  | 6.7       |
| 50°-60°   | 416.7  | 5.2       |
| 60°-70°   | 271.7  | 3.4       |
| 70°-80°   | 140.1  | 1.8       |
| 80°-90°   | 40.5   | 0.5       |
| 90°-100°  | 56.4   | 0.7       |
| 100°-110° | 206.8  | 2.6       |
| 110°-120° | 552.8  | 6.9       |
| 120°-130° | 912.5  | 11.4      |
| 130°-140° | 970.4  | 12.2      |
| 140°-150° | 902.0  | 11.3      |
| 150°-160° | 725.2  | 9.1       |
| 160°-170° | 467.3  | 5.9       |
| 170°-180° | 160.9  | 2.0       |
| 0°-30°    | 1043.3 | 13.1      |
| 0°-40°    | 1620.3 | 20.3      |
| 0°-60°    | 2567.6 | 32.2      |
| 0°-90°    | 3019.9 | 37.9      |
| 90°-120°  | 816.0  | 10.2      |
| 90°-150°  | 3600.9 | 45.2      |
| 90°-180°  | 4954.0 | 62.1      |
| 0°-180°   | 7974.1 | 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°  | 1    | 14    | 24   | 30    | 33   | 6    |
| 95°  | 80   | 42    | 48   | 53    | 53   | 97   |
| 105° | 372  | 388   | 75   | 88    | 93   | 397  |
| 115° | 703  | 725   | 755  | 215   | 100  | 692  |
| 125° | 994  | 1011  | 1034 | 1042  | 1046 | 886  |
| 135° | 1231 | 1250  | 1261 | 1273  | 1271 | 950  |
| 145° | 1428 | 1428  | 1447 | 1455  | 1450 | 893  |
| 155° | 1572 | 1562  | 1576 | 1582  | 1573 | 724  |
| 165° | 1656 | 1650  | 1653 | 1660  | 1653 | 468  |
| 175° | 1694 | 1686  | 1688 | 1696  | 1684 | 161  |
| 180° | 1690 | 1690  | 1690 | 1690  | 1690 |      |



TEST NUMBER: P331839

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**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°  | 17.2   | 15.9   | 14.7   | 13.4   | 12.1   | 11.6   | 12.1   | 12.5   | 13.0   | 13.4   | 13.4   |
| 90°    | 1.2    | 4.2    | 7.2    | 10.2   | 13.2   | 15.8   | 17.9   | 20.1   | 22.3   | 24.5   | 25.8   |
| 92.5°  | 24.7   | 24.4   | 24.2   | 23.9   | 23.6   | 24.0   | 25.1   | 26.2   | 27.3   | 28.4   | 29.1   |
| 95°    | 79.5   | 70.5   | 61.6   | 52.6   | 43.6   | 40.1   | 42.0   | 43.9   | 45.8   | 47.7   | 49.1   |
| 97.5°  | 157.8  | 132.5  | 107.2  | 82.0   | 56.7   | 46.2   | 50.6   | 55.0   | 59.5   | 63.9   | 64.9   |
| 100°   | 216.5  | 179.3  | 142.0  | 104.8  | 67.6   | 51.2   | 55.9   | 60.5   | 65.1   | 69.7   | 71.9   |
| 102.5° | 281.1  | 273.2  | 265.3  | 257.5  | 249.6  | 226.3  | 187.6  | 149.0  | 110.3  | 71.7   | 74.5   |
| 105°   | 371.9  | 380.0  | 388.2  | 396.3  | 404.5  | 371.5  | 297.3  | 223.0  | 148.8  | 74.6   | 77.6   |
| 107.5° | 475.4  | 481.9  | 488.5  | 495.1  | 501.7  | 460.5  | 371.5  | 282.5  | 193.5  | 104.5  | 101.4  |
| 110°   | 541.9  | 547.6  | 553.3  | 559.0  | 564.7  | 528.3  | 449.8  | 371.2  | 292.6  | 214.1  | 186.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 604.5  | 609.6  | 614.6  | 619.7  | 624.8  | 617.6  | 598.2  | 578.8  | 559.4  | 539.9  | 440.8  |
| 115°   | 703.4  | 708.0  | 712.6  | 717.2  | 721.9  | 727.6  | 734.4  | 741.2  | 748.0  | 754.8  | 628.9  |
| 117.5° | 791.7  | 796.9  | 802.0  | 807.2  | 812.4  | 817.3  | 821.9  | 826.6  | 831.3  | 836.0  | 805.5  |
| 120°   | 856.3  | 860.4  | 864.4  | 868.5  | 872.6  | 877.1  | 882.0  | 886.9  | 891.8  | 896.6  | 899.9  |
| 122.5° | 911.1  | 915.4  | 919.7  | 924.0  | 928.3  | 933.1  | 938.4  | 943.7  | 949.1  | 954.4  | 956.3  |
| 125°   | 994.5  | 998.0  | 1001.6 | 1005.1 | 1008.6 | 1013.0 | 1018.2 | 1023.3 | 1028.5 | 1033.7 | 1035.6 |
| 127.5° | 1070.1 | 1074.0 | 1077.9 | 1081.9 | 1085.8 | 1089.7 | 1093.5 | 1097.4 | 1101.2 | 1105.1 | 1107.9 |
| 130°   | 1118.1 | 1122.4 | 1126.8 | 1131.1 | 1135.5 | 1139.1 | 1142.1 | 1145.1 | 1148.1 | 1151.1 | 1154.1 |
| 132.5° | 1167.0 | 1170.7 | 1174.4 | 1178.1 | 1181.8 | 1185.1 | 1188.1 | 1191.1 | 1194.1 | 1197.1 | 1199.6 |
| 135°   | 1230.6 | 1234.9 | 1239.3 | 1243.6 | 1248.0 | 1251.4 | 1253.8 | 1256.3 | 1258.7 | 1261.2 | 1263.9 |
| 137.5° | 1294.9 | 1298.0 | 1301.0 | 1304.1 | 1307.1 | 1310.0 | 1312.8 | 1315.6 | 1318.3 | 1321.1 | 1323.8 |
| 140°   | 1337.0 | 1339.2 | 1341.4 | 1343.5 | 1345.7 | 1348.3 | 1351.3 | 1354.3 | 1357.3 | 1360.3 | 1362.7 |
| 142.5° | 1372.3 | 1374.2 | 1376.2 | 1378.1 | 1380.1 | 1382.8 | 1386.2 | 1389.6 | 1393.0 | 1396.5 | 1398.7 |
| 145°   | 1427.5 | 1427.3 | 1427.0 | 1426.7 | 1426.5 | 1428.6 | 1433.3 | 1437.9 | 1442.5 | 1447.1 | 1449.0 |
| 147.5° | 1475.7 | 1474.7 | 1473.7 | 1472.6 | 1471.6 | 1473.4 | 1477.9 | 1482.5 | 1487.1 | 1491.6 | 1493.1 |
| 150°   | 1507.1 | 1505.2 | 1503.3 | 1501.3 | 1499.4 | 1500.7 | 1505.0 | 1509.4 | 1513.7 | 1518.1 | 1519.7 |
| 152.5° | 1533.5 | 1531.4 | 1529.2 | 1527.1 | 1525.0 | 1526.0 | 1530.1 | 1534.3 | 1538.4 | 1542.5 | 1544.2 |
| 155°   | 1571.9 | 1569.4 | 1567.0 | 1564.5 | 1562.1 | 1562.5 | 1565.8 | 1569.0 | 1572.3 | 1575.6 | 1577.2 |
| 157.5° | 1602.0 | 1599.9 | 1597.8 | 1595.8 | 1593.7 | 1593.8 | 1596.1 | 1598.4 | 1600.7 | 1603.0 | 1604.8 |
| 160°   | 1619.6 | 1618.0 | 1616.3 | 1614.7 | 1613.1 | 1613.1 | 1614.7 | 1616.3 | 1618.0 | 1619.6 | 1621.2 |
| 162.5° | 1635.3 | 1633.6 | 1632.0 | 1630.4 | 1628.7 | 1628.6 | 1630.0 | 1631.4 | 1632.9 | 1634.3 | 1636.1 |
| 165°   | 1656.3 | 1654.7 | 1653.0 | 1651.4 | 1649.8 | 1649.4 | 1650.2 | 1651.0 | 1651.8 | 1652.6 | 1654.5 |
| 167.5° | 1672.0 | 1670.3 | 1668.7 | 1667.1 | 1665.4 | 1665.0 | 1665.8 | 1666.5 | 1667.3 | 1668.0 | 1669.9 |
| 170°   | 1680.8 | 1679.1 | 1677.5 | 1675.9 | 1674.2 | 1673.7 | 1674.2 | 1674.8 | 1675.3 | 1675.9 | 1677.8 |
| 172.5° | 1686.6 | 1685.0 | 1683.4 | 1681.7 | 1680.1 | 1679.6 | 1680.1 | 1680.6 | 1681.2 | 1681.7 | 1683.6 |
| 175°   | 1694.2 | 1692.3 | 1690.4 | 1688.5 | 1686.6 | 1685.9 | 1686.5 | 1687.0 | 1687.6 | 1688.1 | 1690.0 |
| 177.5° | 1695.4 | 1693.9 | 1692.4 | 1690.9 | 1689.3 | 1688.7 | 1688.9 | 1689.1 | 1689.3 | 1689.6 | 1691.1 |
| 180°   | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 |



TEST NUMBER: P331839

CATALOG NUMBER: S122RDIW-S865D1240U835-4F0-1E-UDD-F

**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°  | 13.5   | 13.5   | 13.5   | 13.6   | 13.7   | 13.8   | 13.9   | 14.0   |
| 90°    | 27.2   | 28.5   | 29.9   | 30.9   | 31.4   | 31.9   | 32.5   | 33.0   |
| 92.5°  | 29.8   | 30.5   | 31.2   | 31.7   | 32.0   | 32.4   | 32.7   | 33.0   |
| 95°    | 50.4   | 51.8   | 53.1   | 53.7   | 53.4   | 53.1   | 52.9   | 52.6   |
| 97.5°  | 66.0   | 67.1   | 68.2   | 68.9   | 69.2   | 69.6   | 69.9   | 70.2   |
| 100°   | 74.1   | 76.2   | 78.4   | 79.8   | 80.3   | 80.9   | 81.4   | 82.0   |
| 102.5° | 77.3   | 80.2   | 83.0   | 84.8   | 85.5   | 86.3   | 87.1   | 87.8   |
| 105°   | 80.6   | 83.6   | 86.6   | 88.6   | 89.7   | 90.8   | 91.9   | 93.0   |
| 107.5° | 98.4   | 95.3   | 92.3   | 91.3   | 92.4   | 93.5   | 94.6   | 95.7   |
| 110°   | 159.7  | 132.5  | 105.3  | 92.3   | 93.4   | 94.5   | 95.6   | 96.6   |





TEST NUMBER: P331839

CATALOG NUMBER: S122RDIW-S865D1240U835-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 341.6  | 242.5  | 143.3  | 94.1   | 95.0   | 95.9   | 96.7   | 97.6   |
| 115°   | 503.0  | 377.2  | 251.3  | 178.6  | 159.0  | 139.5  | 119.9  | 100.3  |
| 117.5° | 775.1  | 744.6  | 714.2  | 666.8  | 602.5  | 538.2  | 473.9  | 409.5  |
| 120°   | 903.2  | 906.4  | 909.7  | 893.0  | 856.3  | 819.6  | 782.9  | 746.2  |
| 122.5° | 958.3  | 960.3  | 962.2  | 959.6  | 952.5  | 945.4  | 938.3  | 931.1  |
| 125°   | 1037.5 | 1039.4 | 1041.3 | 1042.6 | 1043.4 | 1044.3 | 1045.1 | 1045.9 |
| 127.5° | 1110.6 | 1113.4 | 1116.2 | 1117.7 | 1117.8 | 1118.0 | 1118.1 | 1118.3 |
| 130°   | 1157.1 | 1160.1 | 1163.0 | 1164.4 | 1164.1 | 1163.9 | 1163.6 | 1163.3 |
| 132.5° | 1202.2 | 1204.7 | 1207.3 | 1208.4 | 1208.2 | 1207.9 | 1207.6 | 1207.4 |
| 135°   | 1266.6 | 1269.3 | 1272.1 | 1273.1 | 1272.6 | 1272.1 | 1271.5 | 1271.0 |
| 137.5° | 1326.4 | 1329.1 | 1331.8 | 1332.6 | 1331.7 | 1330.8 | 1329.9 | 1328.9 |
| 140°   | 1365.2 | 1367.6 | 1370.1 | 1370.6 | 1369.2 | 1367.9 | 1366.5 | 1365.2 |
| 142.5° | 1400.9 | 1403.2 | 1405.4 | 1405.8 | 1404.5 | 1403.1 | 1401.7 | 1400.4 |
| 145°   | 1450.9 | 1452.8 | 1454.7 | 1455.0 | 1453.6 | 1452.3 | 1450.9 | 1449.6 |
| 147.5° | 1494.5 | 1495.9 | 1497.3 | 1497.4 | 1496.3 | 1495.1 | 1494.0 | 1492.9 |
| 150°   | 1521.3 | 1523.0 | 1524.6 | 1524.7 | 1523.4 | 1522.0 | 1520.6 | 1519.3 |
| 152.5° | 1545.8 | 1547.4 | 1549.1 | 1549.0 | 1547.2 | 1545.4 | 1543.6 | 1541.8 |
| 155°   | 1578.8 | 1580.5 | 1582.1 | 1581.8 | 1579.6 | 1577.5 | 1575.3 | 1573.1 |
| 157.5° | 1606.7 | 1608.5 | 1610.4 | 1610.2 | 1608.1 | 1606.0 | 1603.9 | 1601.7 |
| 160°   | 1622.9 | 1624.5 | 1626.1 | 1626.0 | 1624.1 | 1622.2 | 1620.3 | 1618.4 |
| 162.5° | 1638.0 | 1639.8 | 1641.7 | 1641.4 | 1639.1 | 1636.7 | 1634.4 | 1632.1 |
| 165°   | 1656.4 | 1658.3 | 1660.2 | 1660.2 | 1658.3 | 1656.4 | 1654.5 | 1652.6 |
| 167.5° | 1671.8 | 1673.7 | 1675.6 | 1675.4 | 1672.9 | 1670.5 | 1668.0 | 1665.6 |
| 170°   | 1679.7 | 1681.6 | 1683.5 | 1683.2 | 1680.8 | 1678.3 | 1675.9 | 1673.4 |
| 172.5° | 1685.5 | 1687.4 | 1689.3 | 1689.1 | 1686.6 | 1684.2 | 1681.7 | 1679.3 |
| 175°   | 1691.9 | 1693.8 | 1695.7 | 1695.3 | 1692.6 | 1689.9 | 1687.1 | 1684.4 |
| 177.5° | 1692.6 | 1694.1 | 1695.7 | 1695.4 | 1693.5 | 1691.5 | 1689.6 | 1687.6 |
| 180°   | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 | 1690.5 |

(END OF REPORT)