

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: P331839-840

Luminaire Tested: **S122RDIW-S865D1240U840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331839-840  
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-S865D1240U840-4F0-1E-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: 8052.7 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

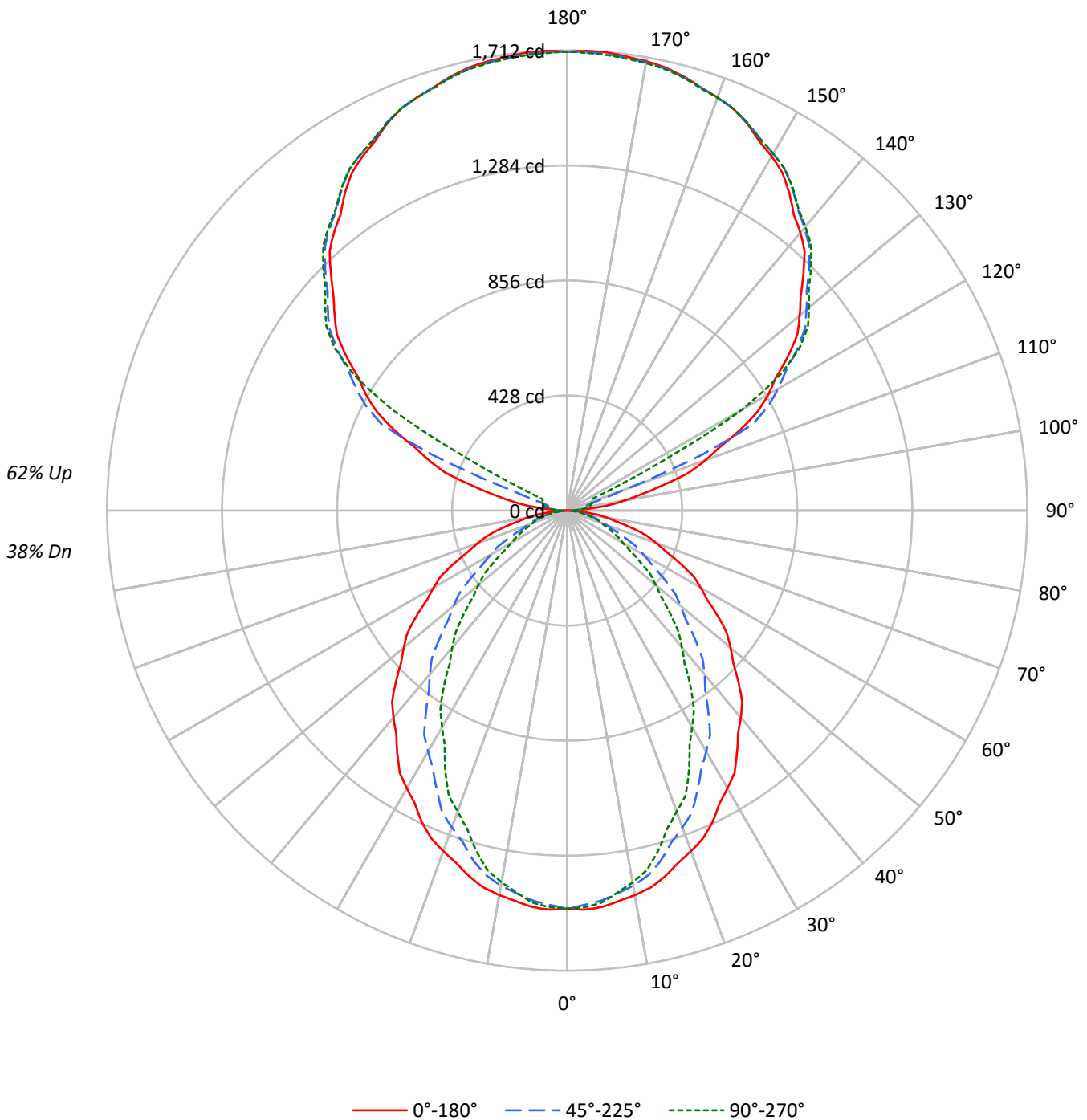
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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 | 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°  | 23909 | 23909 | 23909 |
| 5°  | 24000 | 23608 | 23738 |
| 10° | 23815 | 23222 | 23023 |
| 15° | 23542 | 22534 | 21884 |
| 20° | 23163 | 21551 | 20469 |
| 25° | 22775 | 20436 | 19099 |
| 30° | 22236 | 19287 | 17339 |
| 35° | 21711 | 18039 | 15794 |
| 40° | 21182 | 16750 | 14010 |
| 45° | 20562 | 15299 | 12392 |
| 50° | 19926 | 13835 | 10803 |
| 55° | 19277 | 12262 | 9278  |
| 60° | 18519 | 10601 | 7702  |
| 65° | 17662 | 8909  | 7014  |
| 70° | 16636 | 7336  | 6449  |
| 75° | 15384 | 6687  | 6014  |
| 80° | 13575 | 5979  | 5486  |
| 85° | 10689 | 4705  | 4705  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.6  | 1.7       |
| 10°-20°   | 380.6  | 4.7       |
| 20°-30°   | 534.4  | 6.6       |
| 30°-40°   | 582.7  | 7.2       |
| 40°-50°   | 535.8  | 6.7       |
| 50°-60°   | 420.8  | 5.2       |
| 60°-70°   | 274.4  | 3.4       |
| 70°-80°   | 141.5  | 1.8       |
| 80°-90°   | 40.9   | 0.5       |
| 90°-100°  | 56.9   | 0.7       |
| 100°-110° | 208.8  | 2.6       |
| 110°-120° | 558.2  | 6.9       |
| 120°-130° | 921.5  | 11.4      |
| 130°-140° | 980.0  | 12.2      |
| 140°-150° | 910.9  | 11.3      |
| 150°-160° | 732.3  | 9.1       |
| 160°-170° | 471.9  | 5.9       |
| 170°-180° | 162.4  | 2.0       |
| 0°-30°    | 1053.6 | 13.1      |
| 0°-40°    | 1636.3 | 20.3      |
| 0°-60°    | 2593.0 | 32.2      |
| 0°-90°    | 3049.7 | 37.9      |
| 90°-120°  | 824.0  | 10.2      |
| 90°-150°  | 3636.4 | 45.2      |
| 90°-180°  | 5003.0 | 62.1      |
| 0°-180°   | 8052.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1481 | 1481  | 1481 | 1481  | 1481 |      |
| 5°   | 1481 | 1473  | 1457 | 1468  | 1465 | 140  |
| 15°  | 1408 | 1392  | 1348 | 1323  | 1309 | 397  |
| 25°  | 1278 | 1233  | 1147 | 1094  | 1072 | 588  |
| 35°  | 1102 | 1030  | 915  | 834   | 801  | 689  |
| 45°  | 900  | 808   | 670  | 578   | 543  | 695  |
| 55°  | 685  | 578   | 436  | 358   | 330  | 612  |
| 65°  | 462  | 353   | 233  | 190   | 184  | 458  |
| 75°  | 247  | 155   | 107  | 98    | 96   | 261  |
| 85°  | 58   | 31    | 25   | 25    | 25   | 68   |
| 90°  | 1    | 15    | 25   | 31    | 33   | 6    |
| 95°  | 80   | 42    | 48   | 54    | 53   | 98   |
| 105° | 376  | 392   | 75   | 88    | 94   | 401  |
| 115° | 710  | 732   | 762  | 217   | 101  | 699  |
| 125° | 1004 | 1021  | 1044 | 1052  | 1056 | 895  |
| 135° | 1243 | 1262  | 1274 | 1285  | 1284 | 959  |
| 145° | 1442 | 1442  | 1461 | 1469  | 1464 | 901  |
| 155° | 1587 | 1578  | 1591 | 1598  | 1589 | 731  |
| 165° | 1673 | 1666  | 1669 | 1677  | 1669 | 472  |
| 175° | 1711 | 1703  | 1705 | 1712  | 1701 | 163  |
| 180° | 1707 | 1707  | 1707 | 1707  | 1707 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 |
| 2.5°   | 1486.1 | 1484.9 | 1483.7 | 1482.5 | 1481.4 | 1479.5 | 1476.8 | 1474.2 | 1471.6 | 1468.9 | 1471.4 |
| 5°     | 1480.8 | 1479.3 | 1477.7 | 1476.2 | 1474.8 | 1472.1 | 1468.2 | 1464.4 | 1460.5 | 1456.6 | 1459.3 |
| 7.5°   | 1465.4 | 1463.6 | 1461.8 | 1460.0 | 1458.0 | 1454.9 | 1450.4 | 1445.8 | 1441.3 | 1436.7 | 1437.5 |
| 10°    | 1452.6 | 1450.5 | 1448.4 | 1446.3 | 1444.2 | 1440.3 | 1434.3 | 1428.4 | 1422.4 | 1416.4 | 1415.5 |
| 12.5°  | 1436.5 | 1433.9 | 1431.4 | 1428.9 | 1426.2 | 1421.2 | 1413.5 | 1405.9 | 1398.3 | 1390.7 | 1389.1 |
| 15°    | 1408.4 | 1405.1 | 1401.8 | 1398.6 | 1395.2 | 1388.6 | 1378.5 | 1368.4 | 1358.2 | 1348.1 | 1342.4 |
| 17.5°  | 1373.8 | 1368.8 | 1363.8 | 1358.8 | 1353.8 | 1344.8 | 1331.8 | 1318.8 | 1305.9 | 1292.8 | 1286.2 |
| 20°    | 1348.1 | 1342.1 | 1336.2 | 1330.2 | 1324.2 | 1313.8 | 1298.9 | 1284.0 | 1269.2 | 1254.3 | 1246.8 |
| 22.5°  | 1320.2 | 1313.5 | 1306.9 | 1300.2 | 1293.5 | 1281.8 | 1265.0 | 1248.2 | 1231.4 | 1214.6 | 1205.0 |
| 25°    | 1278.4 | 1268.9 | 1259.3 | 1249.8 | 1240.3 | 1225.7 | 1206.0 | 1186.4 | 1166.7 | 1147.1 | 1134.9 |
| 27.5°  | 1228.0 | 1217.6 | 1207.3 | 1196.9 | 1186.6 | 1170.3 | 1148.1 | 1126.0 | 1103.8 | 1081.7 | 1067.4 |
| 30°    | 1192.7 | 1181.3 | 1170.0 | 1158.7 | 1147.4 | 1129.8 | 1106.0 | 1082.2 | 1058.3 | 1034.5 | 1019.4 |
| 32.5°  | 1158.3 | 1145.1 | 1131.9 | 1118.6 | 1105.4 | 1086.7 | 1062.4 | 1038.0 | 1013.8 | 989.5  | 972.2  |
| 35°    | 1101.5 | 1086.3 | 1071.2 | 1055.9 | 1040.8 | 1020.1 | 993.8  | 967.7  | 941.5  | 915.2  | 896.5  |
| 37.5°  | 1044.7 | 1028.0 | 1011.4 | 994.6  | 978.0  | 955.6  | 927.8  | 899.8  | 871.9  | 843.9  | 823.2  |
| 40°    | 1005.0 | 987.1  | 969.3  | 951.4  | 933.5  | 910.2  | 881.3  | 852.4  | 823.5  | 794.7  | 773.5  |
| 42.5°  | 964.3  | 945.4  | 926.7  | 907.9  | 889.0  | 864.6  | 834.9  | 805.0  | 775.2  | 745.3  | 723.5  |
| 45°    | 900.5  | 880.5  | 860.6  | 840.6  | 820.7  | 795.1  | 763.9  | 732.6  | 701.3  | 670.0  | 648.8  |
| 47.5°  | 838.3  | 817.2  | 796.1  | 774.9  | 753.8  | 727.0  | 694.8  | 662.5  | 630.2  | 597.9  | 576.9  |
| 50°    | 793.3  | 772.1  | 751.0  | 729.8  | 708.7  | 681.8  | 649.0  | 616.2  | 583.5  | 550.8  | 530.2  |
| 52.5°  | 749.3  | 727.2  | 705.2  | 683.1  | 661.0  | 633.9  | 601.9  | 569.8  | 537.8  | 505.7  | 485.8  |
| 55°    | 684.8  | 661.6  | 638.3  | 615.1  | 591.9  | 564.1  | 532.0  | 499.8  | 467.7  | 435.6  | 417.7  |
| 57.5°  | 618.5  | 594.7  | 570.9  | 547.0  | 523.3  | 495.9  | 464.9  | 434.0  | 403.1  | 372.2  | 355.9  |
| 60°    | 573.5  | 549.7  | 525.9  | 502.1  | 478.3  | 451.0  | 420.3  | 389.6  | 359.0  | 328.3  | 313.2  |
| 62.5°  | 529.6  | 505.7  | 481.9  | 458.1  | 434.2  | 407.8  | 378.5  | 349.3  | 320.0  | 290.7  | 276.3  |
| 65°    | 462.3  | 438.2  | 414.0  | 389.9  | 365.9  | 340.3  | 313.6  | 286.8  | 259.9  | 233.2  | 223.1  |
| 67.5°  | 397.5  | 373.5  | 349.6  | 325.6  | 301.6  | 277.6  | 253.6  | 229.4  | 205.3  | 181.2  | 176.5  |
| 70°    | 352.4  | 329.2  | 306.0  | 282.8  | 259.5  | 237.6  | 217.1  | 196.5  | 176.0  | 155.4  | 152.5  |
| 72.5°  | 309.5  | 287.3  | 265.0  | 242.8  | 220.5  | 201.1  | 184.6  | 168.0  | 151.6  | 135.1  | 132.6  |
| 75°    | 246.6  | 225.7  | 204.9  | 184.0  | 163.2  | 147.7  | 137.5  | 127.4  | 117.3  | 107.2  | 105.1  |
| 77.5°  | 184.7  | 166.3  | 148.0  | 129.8  | 111.5  | 100.0  | 95.0   | 90.2   | 85.3   | 80.4   | 79.2   |
| 80°    | 146.0  | 130.9  | 115.7  | 100.5  | 85.3   | 76.2   | 73.2   | 70.3   | 67.3   | 64.3   | 63.1   |
| 82.5°  | 110.7  | 98.9   | 86.9   | 75.1   | 63.3   | 56.4   | 54.3   | 52.3   | 50.3   | 48.3   | 47.6   |
| 85°    | 57.7   | 51.4   | 45.1   | 38.9   | 32.6   | 29.1   | 28.2   | 27.3   | 26.4   | 25.4   | 25.4   |
| 87.5°  | 17.4   | 16.1   | 14.8   | 13.5   | 12.2   | 11.7   | 12.2   | 12.6   | 13.1   | 13.5   | 13.5   |
| 90°    | 1.2    | 4.2    | 7.3    | 10.3   | 13.3   | 16.0   | 18.1   | 20.3   | 22.5   | 24.7   | 26.1   |
| 92.5°  | 24.9   | 24.6   | 24.4   | 24.1   | 23.8   | 24.2   | 25.3   | 26.5   | 27.6   | 28.7   | 29.4   |
| 95°    | 80.3   | 71.2   | 62.2   | 53.1   | 44.0   | 40.5   | 42.4   | 44.3   | 46.3   | 48.2   | 49.6   |
| 97.5°  | 159.4  | 133.8  | 108.3  | 82.8   | 57.3   | 46.7   | 51.1   | 55.5   | 60.1   | 64.5   | 65.5   |
| 100°   | 218.6  | 181.1  | 143.4  | 105.8  | 68.3   | 51.7   | 56.5   | 61.1   | 65.7   | 70.4   | 72.6   |
| 102.5° | 283.9  | 275.9  | 267.9  | 260.0  | 252.1  | 228.5  | 189.5  | 150.5  | 111.4  | 72.4   | 75.2   |
| 105°   | 375.6  | 383.7  | 392.0  | 400.2  | 408.5  | 375.2  | 300.2  | 225.2  | 150.3  | 75.3   | 78.4   |
| 107.5° | 480.1  | 486.7  | 493.3  | 500.0  | 506.6  | 465.0  | 375.2  | 285.3  | 195.4  | 105.5  | 102.4  |
| 110°   | 547.2  | 553.0  | 558.8  | 564.5  | 570.3  | 533.5  | 454.2  | 374.9  | 295.5  | 216.2  | 188.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 610.5  | 615.6  | 620.7  | 625.8  | 631.0  | 623.7  | 604.1  | 584.5  | 564.9  | 545.2  | 445.1  |
| 115°   | 710.3  | 715.0  | 719.6  | 724.3  | 729.0  | 734.8  | 741.6  | 748.5  | 755.4  | 762.2  | 635.1  |
| 117.5° | 799.5  | 804.8  | 809.9  | 815.2  | 820.4  | 825.4  | 830.0  | 834.8  | 839.5  | 844.2  | 813.4  |
| 120°   | 864.7  | 868.9  | 872.9  | 877.1  | 881.2  | 885.8  | 890.7  | 895.6  | 900.6  | 905.4  | 908.8  |
| 122.5° | 920.1  | 924.4  | 928.8  | 933.1  | 937.5  | 942.3  | 947.7  | 953.0  | 958.5  | 963.8  | 965.7  |
| 125°   | 1004.3 | 1007.8 | 1011.5 | 1015.0 | 1018.5 | 1023.0 | 1028.2 | 1033.4 | 1038.6 | 1043.9 | 1045.8 |
| 127.5° | 1080.7 | 1084.6 | 1088.5 | 1092.6 | 1096.5 | 1100.4 | 1104.3 | 1108.2 | 1112.1 | 1116.0 | 1118.8 |
| 130°   | 1129.1 | 1133.5 | 1137.9 | 1142.3 | 1146.7 | 1150.3 | 1153.4 | 1156.4 | 1159.4 | 1162.5 | 1165.5 |
| 132.5° | 1178.5 | 1182.2 | 1186.0 | 1189.7 | 1193.5 | 1196.8 | 1199.8 | 1202.9 | 1205.9 | 1208.9 | 1211.4 |
| 135°   | 1242.7 | 1247.1 | 1251.5 | 1255.9 | 1260.3 | 1263.7 | 1266.2 | 1268.7 | 1271.1 | 1273.6 | 1276.4 |
| 137.5° | 1307.7 | 1310.8 | 1313.8 | 1317.0 | 1320.0 | 1322.9 | 1325.8 | 1328.6 | 1331.3 | 1334.1 | 1336.9 |
| 140°   | 1350.2 | 1352.4 | 1354.6 | 1356.8 | 1359.0 | 1361.6 | 1364.6 | 1367.7 | 1370.7 | 1373.7 | 1376.1 |
| 142.5° | 1385.8 | 1387.8 | 1389.8 | 1391.7 | 1393.7 | 1396.4 | 1399.9 | 1403.3 | 1406.7 | 1410.3 | 1412.5 |
| 145°   | 1441.6 | 1441.4 | 1441.1 | 1440.8 | 1440.6 | 1442.7 | 1447.4 | 1452.1 | 1456.7 | 1461.4 | 1463.3 |
| 147.5° | 1490.3 | 1489.2 | 1488.2 | 1487.1 | 1486.1 | 1487.9 | 1492.5 | 1497.1 | 1501.8 | 1506.3 | 1507.8 |
| 150°   | 1522.0 | 1520.0 | 1518.1 | 1516.1 | 1514.2 | 1515.5 | 1519.8 | 1524.3 | 1528.6 | 1533.1 | 1534.7 |
| 152.5° | 1548.6 | 1546.5 | 1544.3 | 1542.2 | 1540.0 | 1541.1 | 1545.2 | 1549.4 | 1553.6 | 1557.7 | 1559.4 |
| 155°   | 1587.4 | 1584.9 | 1582.5 | 1579.9 | 1577.5 | 1577.9 | 1581.2 | 1584.5 | 1587.8 | 1591.1 | 1592.8 |
| 157.5° | 1617.8 | 1615.7 | 1613.6 | 1611.5 | 1609.4 | 1609.5 | 1611.8 | 1614.2 | 1616.5 | 1618.8 | 1620.6 |
| 160°   | 1635.6 | 1634.0 | 1632.2 | 1630.6 | 1629.0 | 1629.0 | 1630.6 | 1632.2 | 1634.0 | 1635.6 | 1637.2 |
| 162.5° | 1651.4 | 1649.7 | 1648.1 | 1646.5 | 1644.8 | 1644.7 | 1646.1 | 1647.5 | 1649.0 | 1650.4 | 1652.2 |
| 165°   | 1672.6 | 1671.0 | 1669.3 | 1667.7 | 1666.1 | 1665.7 | 1666.5 | 1667.3 | 1668.1 | 1668.9 | 1670.8 |
| 167.5° | 1688.5 | 1686.8 | 1685.2 | 1683.5 | 1681.8 | 1681.4 | 1682.2 | 1682.9 | 1683.7 | 1684.5 | 1686.4 |
| 170°   | 1697.4 | 1695.7 | 1694.0 | 1692.4 | 1690.7 | 1690.2 | 1690.7 | 1691.3 | 1691.8 | 1692.4 | 1694.4 |
| 172.5° | 1703.2 | 1701.6 | 1700.0 | 1698.3 | 1696.7 | 1696.2 | 1696.7 | 1697.2 | 1697.8 | 1698.3 | 1700.2 |
| 175°   | 1710.9 | 1709.0 | 1707.1 | 1705.2 | 1703.2 | 1702.5 | 1703.1 | 1703.6 | 1704.2 | 1704.8 | 1706.7 |
| 177.5° | 1712.1 | 1710.6 | 1709.1 | 1707.6 | 1706.0 | 1705.4 | 1705.6 | 1705.8 | 1706.0 | 1706.3 | 1707.8 |
| 180°   | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 |



TEST NUMBER: P331839-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 |
| 2.5°   | 1473.7 | 1476.1 | 1478.4 | 1479.5 | 1478.9 | 1478.4 | 1478.0 | 1477.5 |
| 5°     | 1462.0 | 1464.6 | 1467.3 | 1468.2 | 1467.3 | 1466.4 | 1465.5 | 1464.6 |
| 7.5°   | 1438.4 | 1439.1 | 1439.9 | 1439.5 | 1437.9 | 1436.4 | 1434.8 | 1433.3 |
| 10°    | 1414.6 | 1413.7 | 1412.8 | 1411.5 | 1409.7 | 1408.0 | 1406.1 | 1404.3 |
| 12.5°  | 1387.5 | 1385.8 | 1384.2 | 1382.0 | 1379.0 | 1376.0 | 1373.0 | 1370.1 |
| 15°    | 1336.8 | 1331.1 | 1325.4 | 1321.1 | 1318.2 | 1315.1 | 1312.2 | 1309.2 |
| 17.5°  | 1279.4 | 1272.6 | 1266.0 | 1260.0 | 1254.9 | 1249.8 | 1244.7 | 1239.5 |
| 20°    | 1239.4 | 1231.9 | 1224.5 | 1217.5 | 1210.9 | 1204.4 | 1197.8 | 1191.3 |
| 22.5°  | 1195.5 | 1185.9 | 1176.3 | 1169.0 | 1164.2 | 1159.2 | 1154.4 | 1149.5 |
| 25°    | 1122.7 | 1110.4 | 1098.2 | 1089.8 | 1085.4 | 1081.0 | 1076.5 | 1072.1 |
| 27.5°  | 1053.2 | 1038.9 | 1024.7 | 1014.1 | 1007.0 | 999.9  | 992.8  | 985.7  |
| 30°    | 1004.1 | 989.0  | 973.7  | 962.1  | 954.1  | 946.0  | 938.1  | 930.0  |
| 32.5°  | 954.8  | 937.5  | 920.2  | 907.7  | 900.2  | 892.6  | 885.0  | 877.5  |
| 35°    | 877.7  | 859.0  | 840.2  | 827.6  | 821.0  | 814.5  | 807.9  | 801.3  |
| 37.5°  | 802.6  | 781.9  | 761.3  | 747.2  | 739.7  | 732.2  | 724.7  | 717.2  |
| 40°    | 752.3  | 731.2  | 710.0  | 695.6  | 687.9  | 680.1  | 672.4  | 664.7  |
| 42.5°  | 701.7  | 679.7  | 657.9  | 643.2  | 635.7  | 628.2  | 620.7  | 613.2  |
| 45°    | 627.7  | 606.6  | 585.4  | 571.3  | 564.1  | 557.0  | 549.9  | 542.7  |
| 47.5°  | 555.8  | 534.8  | 513.8  | 500.1  | 493.6  | 487.1  | 480.6  | 474.1  |
| 50°    | 509.7  | 489.1  | 468.6  | 455.1  | 448.9  | 442.6  | 436.4  | 430.1  |
| 52.5°  | 466.1  | 446.3  | 426.4  | 413.6  | 407.8  | 402.0  | 396.3  | 390.5  |
| 55°    | 399.8  | 381.9  | 364.1  | 352.2  | 346.6  | 340.9  | 335.3  | 329.6  |
| 57.5°  | 339.5  | 323.2  | 306.8  | 296.2  | 291.4  | 286.6  | 281.9  | 277.1  |
| 60°    | 297.9  | 282.8  | 267.5  | 257.6  | 252.8  | 248.0  | 243.3  | 238.5  |
| 62.5°  | 261.9  | 247.4  | 232.9  | 224.2  | 221.4  | 218.5  | 215.6  | 212.8  |
| 65°    | 212.9  | 202.8  | 192.7  | 187.1  | 186.2  | 185.4  | 184.5  | 183.6  |
| 67.5°  | 171.9  | 167.2  | 162.6  | 159.8  | 158.9  | 157.8  | 156.9  | 156.0  |
| 70°    | 149.5  | 146.5  | 143.5  | 141.5  | 140.3  | 139.1  | 137.8  | 136.6  |
| 72.5°  | 130.1  | 127.5  | 125.0  | 123.5  | 122.7  | 122.0  | 121.3  | 120.6  |
| 75°    | 103.0  | 101.0  | 98.9   | 97.7   | 97.4   | 97.0   | 96.7   | 96.4   |
| 77.5°  | 78.1   | 76.9   | 75.6   | 74.8   | 74.3   | 73.8   | 73.4   | 72.9   |
| 80°    | 61.9   | 60.8   | 59.6   | 59.0   | 59.0   | 59.0   | 59.0   | 59.0   |
| 82.5°  | 46.9   | 46.0   | 45.3   | 45.0   | 45.0   | 45.0   | 45.0   | 45.0   |
| 85°    | 25.4   | 25.4   | 25.4   | 25.4   | 25.4   | 25.4   | 25.4   | 25.4   |
| 87.5°  | 13.6   | 13.6   | 13.6   | 13.7   | 13.8   | 13.9   | 14.0   | 14.1   |
| 90°    | 27.5   | 28.8   | 30.2   | 31.2   | 31.7   | 32.2   | 32.8   | 33.3   |
| 92.5°  | 30.1   | 30.8   | 31.5   | 32.0   | 32.3   | 32.7   | 33.0   | 33.3   |
| 95°    | 50.9   | 52.3   | 53.6   | 54.2   | 53.9   | 53.6   | 53.4   | 53.1   |
| 97.5°  | 66.7   | 67.8   | 68.9   | 69.6   | 69.9   | 70.3   | 70.6   | 70.9   |
| 100°   | 74.8   | 77.0   | 79.2   | 80.6   | 81.1   | 81.7   | 82.2   | 82.8   |
| 102.5° | 78.1   | 81.0   | 83.8   | 85.6   | 86.3   | 87.2   | 88.0   | 88.7   |
| 105°   | 81.4   | 84.4   | 87.5   | 89.5   | 90.6   | 91.7   | 92.8   | 93.9   |
| 107.5° | 99.4   | 96.2   | 93.2   | 92.2   | 93.3   | 94.4   | 95.5   | 96.6   |
| 110°   | 161.3  | 133.8  | 106.3  | 93.2   | 94.3   | 95.4   | 96.5   | 97.6   |





TEST NUMBER: P331839-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 345.0  | 244.9  | 144.7  | 95.0   | 95.9   | 96.8   | 97.7   | 98.6   |
| 115°   | 508.0  | 380.9  | 253.8  | 180.4  | 160.6  | 140.9  | 121.1  | 101.3  |
| 117.5° | 782.7  | 751.9  | 721.2  | 673.4  | 608.4  | 543.5  | 478.6  | 413.5  |
| 120°   | 912.1  | 915.3  | 918.7  | 901.8  | 864.7  | 827.7  | 790.6  | 753.6  |
| 122.5° | 967.8  | 969.8  | 971.7  | 969.1  | 961.9  | 954.7  | 947.6  | 940.3  |
| 125°   | 1047.7 | 1049.7 | 1051.6 | 1052.9 | 1053.7 | 1054.6 | 1055.4 | 1056.2 |
| 127.5° | 1121.6 | 1124.4 | 1127.2 | 1128.7 | 1128.8 | 1129.0 | 1129.1 | 1129.3 |
| 130°   | 1168.5 | 1171.5 | 1174.5 | 1175.9 | 1175.6 | 1175.4 | 1175.1 | 1174.8 |
| 132.5° | 1214.1 | 1216.6 | 1219.2 | 1220.3 | 1220.1 | 1219.8 | 1219.5 | 1219.3 |
| 135°   | 1279.1 | 1281.8 | 1284.6 | 1285.7 | 1285.2 | 1284.6 | 1284.0 | 1283.5 |
| 137.5° | 1339.5 | 1342.2 | 1344.9 | 1345.7 | 1344.8 | 1343.9 | 1343.0 | 1342.0 |
| 140°   | 1378.7 | 1381.1 | 1383.6 | 1384.1 | 1382.7 | 1381.4 | 1380.0 | 1378.7 |
| 142.5° | 1414.7 | 1417.0 | 1419.3 | 1419.7 | 1418.4 | 1416.9 | 1415.5 | 1414.2 |
| 145°   | 1465.2 | 1467.1 | 1469.1 | 1469.4 | 1467.9 | 1466.6 | 1465.2 | 1463.9 |
| 147.5° | 1509.2 | 1510.7 | 1512.1 | 1512.2 | 1511.1 | 1509.8 | 1508.7 | 1507.6 |
| 150°   | 1536.3 | 1538.0 | 1539.6 | 1539.7 | 1538.4 | 1537.0 | 1535.6 | 1534.3 |
| 152.5° | 1561.0 | 1562.7 | 1564.4 | 1564.3 | 1562.5 | 1560.6 | 1558.8 | 1557.0 |
| 155°   | 1594.4 | 1596.1 | 1597.7 | 1597.4 | 1595.2 | 1593.1 | 1590.8 | 1588.6 |
| 157.5° | 1622.6 | 1624.4 | 1626.3 | 1626.1 | 1624.0 | 1621.8 | 1619.7 | 1617.5 |
| 160°   | 1638.9 | 1640.5 | 1642.1 | 1642.0 | 1640.1 | 1638.2 | 1636.3 | 1634.4 |
| 162.5° | 1654.2 | 1656.0 | 1657.9 | 1657.6 | 1655.3 | 1652.8 | 1650.5 | 1648.2 |
| 165°   | 1672.7 | 1674.7 | 1676.6 | 1676.6 | 1674.7 | 1672.7 | 1670.8 | 1668.9 |
| 167.5° | 1688.3 | 1690.2 | 1692.1 | 1691.9 | 1689.4 | 1687.0 | 1684.5 | 1682.0 |
| 170°   | 1696.3 | 1698.2 | 1700.1 | 1699.8 | 1697.4 | 1694.9 | 1692.4 | 1689.9 |
| 172.5° | 1702.1 | 1704.0 | 1706.0 | 1705.8 | 1703.2 | 1700.8 | 1698.3 | 1695.9 |
| 175°   | 1708.6 | 1710.5 | 1712.4 | 1712.0 | 1709.3 | 1706.6 | 1703.7 | 1701.0 |
| 177.5° | 1709.3 | 1710.8 | 1712.4 | 1712.1 | 1710.2 | 1708.2 | 1706.3 | 1704.2 |
| 180°   | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 | 1707.2 |

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