

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: P331839-940

Luminaire Tested: **S122RDIW-S865D1240U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331839-940  
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-S865D1240U940-4F0-1E-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: 7110.6 lumens  
Efficiency: N/A  
Efficacy: 101.9 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

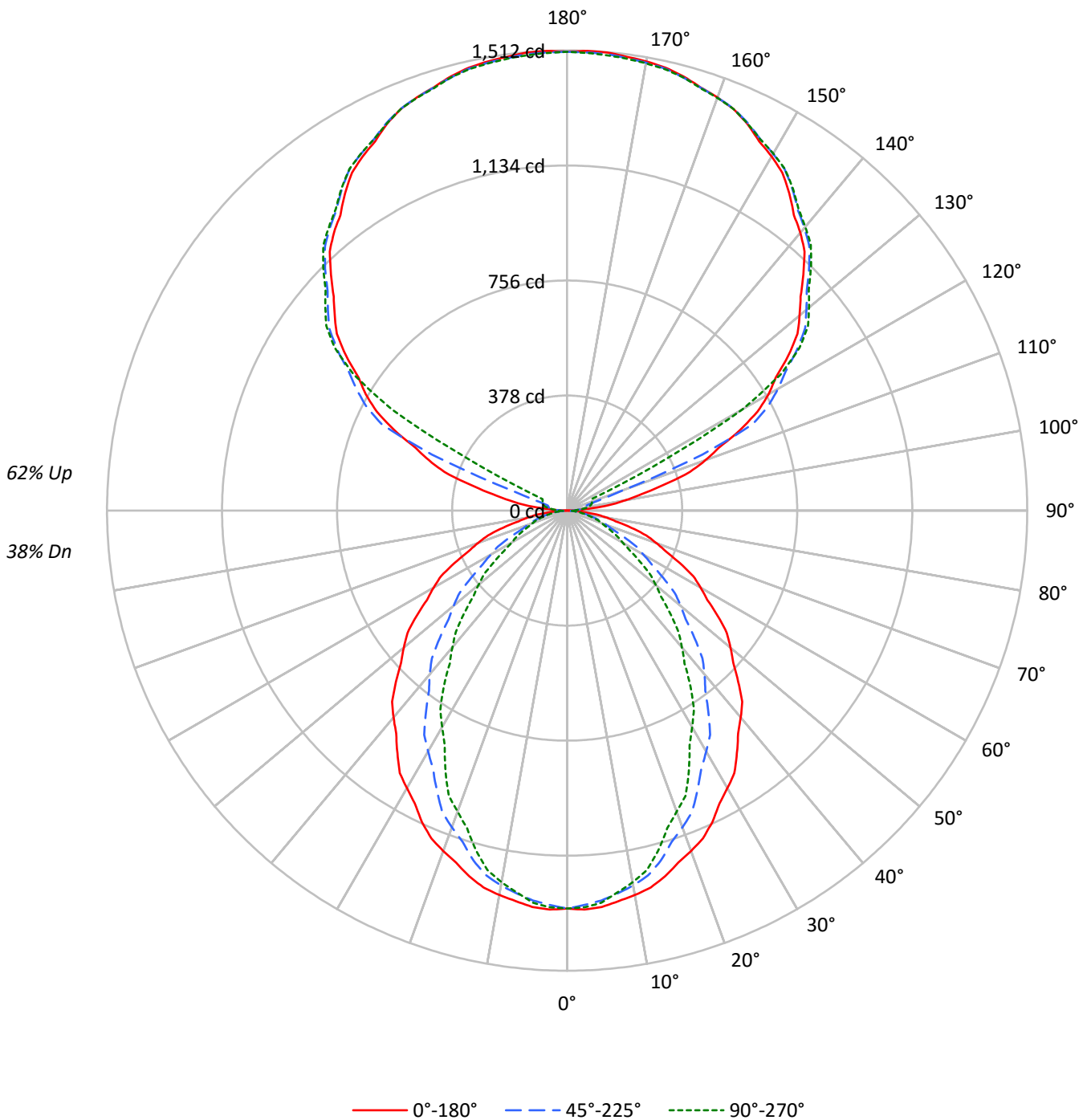
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331839-940

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 |
| 1   | 95  | 91  | 88  | 84  | 86 | 83 | 80 | 77 | 68 | 65 | 63 | 53 | 52 | 51 | 40 | 39 | 39 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 47 | 45 | 43 | 36 | 34 | 33 |
| 3   | 80  | 71  | 64  | 58  | 72 | 65 | 59 | 54 | 53 | 49 | 45 | 42 | 39 | 37 | 32 | 30 | 29 |
| 4   | 73  | 63  | 55  | 49  | 66 | 57 | 51 | 46 | 47 | 42 | 39 | 38 | 34 | 32 | 29 | 27 | 25 |
| 5   | 67  | 56  | 48  | 43  | 61 | 51 | 45 | 39 | 42 | 37 | 33 | 34 | 30 | 28 | 26 | 24 | 22 |
| 6   | 62  | 50  | 43  | 37  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 28 | 24 | 22 | 22 | 19 | 17 |
| 8   | 53  | 41  | 34  | 29  | 48 | 38 | 31 | 27 | 32 | 27 | 23 | 26 | 22 | 19 | 20 | 18 | 16 |
| 9   | 49  | 38  | 30  | 26  | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 35  | 28  | 23  | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 17 | 15 | 13 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 21111 | 21111 | 21111 |
| 5°  | 21191 | 20846 | 20960 |
| 10° | 21028 | 20505 | 20330 |
| 15° | 20787 | 19896 | 19323 |
| 20° | 20452 | 19029 | 18076 |
| 25° | 20110 | 18045 | 16864 |
| 30° | 19634 | 17031 | 15310 |
| 35° | 19170 | 15930 | 13947 |
| 40° | 18704 | 14790 | 12370 |
| 45° | 18155 | 13511 | 10942 |
| 50° | 17595 | 12215 | 9540  |
| 55° | 17022 | 10826 | 8194  |
| 60° | 16353 | 9361  | 6801  |
| 65° | 15595 | 7866  | 6193  |
| 70° | 14691 | 6477  | 5693  |
| 75° | 13587 | 5908  | 5315  |
| 80° | 11985 | 5281  | 4844  |
| 85° | 9429  | 4168  | 4168  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.4  | 1.7       |
| 10°-20°   | 336.0  | 4.7       |
| 20°-30°   | 471.9  | 6.6       |
| 30°-40°   | 514.6  | 7.2       |
| 40°-50°   | 473.1  | 6.7       |
| 50°-60°   | 371.6  | 5.2       |
| 60°-70°   | 242.3  | 3.4       |
| 70°-80°   | 124.9  | 1.8       |
| 80°-90°   | 36.1   | 0.5       |
| 90°-100°  | 50.3   | 0.7       |
| 100°-110° | 184.4  | 2.6       |
| 110°-120° | 492.9  | 6.9       |
| 120°-130° | 813.7  | 11.4      |
| 130°-140° | 865.3  | 12.2      |
| 140°-150° | 804.3  | 11.3      |
| 150°-160° | 646.7  | 9.1       |
| 160°-170° | 416.7  | 5.9       |
| 170°-180° | 143.4  | 2.0       |
| 0°-30°    | 930.3  | 13.1      |
| 0°-40°    | 1444.9 | 20.3      |
| 0°-60°    | 2289.6 | 32.2      |
| 0°-90°    | 2692.9 | 37.9      |
| 90°-120°  | 727.6  | 10.2      |
| 90°-150°  | 3210.9 | 45.2      |
| 90°-180°  | 4418.0 | 62.1      |
| 0°-180°   | 7110.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1308 | 1308  | 1308 | 1308  | 1308 |      |
| 5°   | 1308 | 1301  | 1286 | 1296  | 1293 | 124  |
| 15°  | 1244 | 1229  | 1190 | 1168  | 1156 | 350  |
| 25°  | 1129 | 1089  | 1013 | 966   | 947  | 519  |
| 35°  | 973  | 910   | 808  | 736   | 708  | 608  |
| 45°  | 795  | 713   | 592  | 511   | 479  | 614  |
| 55°  | 605  | 510   | 385  | 316   | 291  | 540  |
| 65°  | 408  | 312   | 206  | 168   | 162  | 405  |
| 75°  | 218  | 137   | 95   | 87    | 85   | 230  |
| 85°  | 51   | 27    | 22   | 22    | 22   | 60   |
| 90°  | 1    | 13    | 22   | 27    | 29   | 5    |
| 95°  | 71   | 37    | 42   | 48    | 47   | 87   |
| 105° | 332  | 346   | 66   | 78    | 83   | 354  |
| 115° | 627  | 646   | 673  | 192   | 89   | 617  |
| 125° | 887  | 901   | 922  | 929   | 933  | 790  |
| 135° | 1097 | 1114  | 1125 | 1135  | 1133 | 847  |
| 145° | 1273 | 1273  | 1290 | 1297  | 1293 | 796  |
| 155° | 1402 | 1393  | 1405 | 1411  | 1403 | 646  |
| 165° | 1477 | 1471  | 1474 | 1480  | 1474 | 417  |
| 175° | 1511 | 1504  | 1505 | 1512  | 1502 | 144  |
| 180° | 1507 | 1507  | 1507 | 1507  | 1507 |      |



TEST NUMBER: P331839-940

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 |
| 2.5°   | 1312.2 | 1311.2 | 1310.1 | 1309.0 | 1308.1 | 1306.4 | 1304.0 | 1301.7 | 1299.4 | 1297.1 | 1299.2 |
| 5°     | 1307.5 | 1306.2 | 1304.8 | 1303.5 | 1302.3 | 1299.8 | 1296.5 | 1293.1 | 1289.6 | 1286.2 | 1288.5 |
| 7.5°   | 1294.0 | 1292.4 | 1290.8 | 1289.1 | 1287.5 | 1284.7 | 1280.7 | 1276.7 | 1272.6 | 1268.6 | 1269.4 |
| 10°    | 1282.6 | 1280.8 | 1279.0 | 1277.1 | 1275.2 | 1271.8 | 1266.5 | 1261.2 | 1256.0 | 1250.7 | 1249.9 |
| 12.5°  | 1268.5 | 1266.1 | 1263.9 | 1261.7 | 1259.4 | 1254.9 | 1248.1 | 1241.4 | 1234.7 | 1228.0 | 1226.5 |
| 15°    | 1243.6 | 1240.7 | 1237.8 | 1234.9 | 1232.0 | 1226.1 | 1217.2 | 1208.3 | 1199.3 | 1190.3 | 1185.4 |
| 17.5°  | 1213.1 | 1208.6 | 1204.3 | 1199.8 | 1195.4 | 1187.5 | 1176.0 | 1164.5 | 1153.1 | 1141.6 | 1135.7 |
| 20°    | 1190.3 | 1185.1 | 1179.8 | 1174.6 | 1169.3 | 1160.1 | 1146.9 | 1133.8 | 1120.7 | 1107.5 | 1100.9 |
| 22.5°  | 1165.7 | 1159.8 | 1154.0 | 1148.1 | 1142.2 | 1131.8 | 1117.0 | 1102.2 | 1087.4 | 1072.5 | 1064.0 |
| 25°    | 1128.8 | 1120.4 | 1112.0 | 1103.6 | 1095.2 | 1082.3 | 1064.9 | 1047.6 | 1030.2 | 1012.9 | 1002.1 |
| 27.5°  | 1084.3 | 1075.1 | 1066.0 | 1056.9 | 1047.8 | 1033.4 | 1013.8 | 994.3  | 974.6  | 955.1  | 942.5  |
| 30°    | 1053.1 | 1043.1 | 1033.1 | 1023.1 | 1013.2 | 997.6  | 976.6  | 955.6  | 934.5  | 913.5  | 900.1  |
| 32.5°  | 1022.8 | 1011.1 | 999.4  | 987.7  | 976.1  | 959.6  | 938.1  | 916.6  | 895.2  | 873.7  | 858.4  |
| 35°    | 972.6  | 959.2  | 945.8  | 932.4  | 919.0  | 900.7  | 877.5  | 854.4  | 831.3  | 808.2  | 791.6  |
| 37.5°  | 922.5  | 907.8  | 893.0  | 878.2  | 863.5  | 843.8  | 819.2  | 794.5  | 769.9  | 745.2  | 726.9  |
| 40°    | 887.4  | 871.6  | 855.9  | 840.1  | 824.3  | 803.7  | 778.2  | 752.7  | 727.2  | 701.7  | 683.0  |
| 42.5°  | 851.5  | 834.8  | 818.2  | 801.6  | 785.0  | 763.5  | 737.2  | 710.8  | 684.5  | 658.1  | 638.8  |
| 45°    | 795.1  | 777.5  | 759.9  | 742.3  | 724.7  | 702.0  | 674.5  | 646.8  | 619.2  | 591.7  | 572.9  |
| 47.5°  | 740.2  | 721.6  | 702.9  | 684.2  | 665.6  | 641.9  | 613.5  | 585.0  | 556.4  | 528.0  | 509.4  |
| 50°    | 700.5  | 681.8  | 663.2  | 644.4  | 625.8  | 602.0  | 573.1  | 544.1  | 515.2  | 486.3  | 468.1  |
| 52.5°  | 661.6  | 642.1  | 622.7  | 603.2  | 583.6  | 559.7  | 531.5  | 503.1  | 474.8  | 446.6  | 429.0  |
| 55°    | 604.7  | 584.2  | 563.7  | 543.1  | 522.6  | 498.1  | 469.8  | 441.3  | 413.0  | 384.6  | 368.8  |
| 57.5°  | 546.2  | 525.1  | 504.1  | 483.0  | 462.1  | 437.9  | 410.5  | 383.3  | 356.0  | 328.7  | 314.2  |
| 60°    | 506.4  | 485.4  | 464.4  | 443.4  | 422.3  | 398.2  | 371.1  | 344.0  | 317.0  | 289.9  | 276.5  |
| 62.5°  | 467.6  | 446.6  | 425.5  | 404.5  | 383.4  | 360.1  | 334.2  | 308.4  | 282.6  | 256.7  | 244.0  |
| 65°    | 408.2  | 386.9  | 365.6  | 344.3  | 323.1  | 300.5  | 276.9  | 253.2  | 229.5  | 205.9  | 197.0  |
| 67.5°  | 351.0  | 329.8  | 308.7  | 287.5  | 266.4  | 245.1  | 223.9  | 202.6  | 181.3  | 160.0  | 155.9  |
| 70°    | 311.2  | 290.7  | 270.2  | 249.7  | 229.2  | 209.8  | 191.7  | 173.5  | 155.4  | 137.2  | 134.6  |
| 72.5°  | 273.3  | 253.7  | 234.0  | 214.4  | 194.7  | 177.5  | 163.0  | 148.4  | 133.8  | 119.3  | 117.1  |
| 75°    | 217.8  | 199.3  | 180.9  | 162.5  | 144.1  | 130.5  | 121.5  | 112.5  | 103.6  | 94.7   | 92.8   |
| 77.5°  | 163.1  | 146.9  | 130.7  | 114.6  | 98.4   | 88.3   | 83.9   | 79.6   | 75.3   | 71.0   | 69.9   |
| 80°    | 128.9  | 115.6  | 102.2  | 88.7   | 75.3   | 67.3   | 64.6   | 62.1   | 59.4   | 56.8   | 55.7   |
| 82.5°  | 97.7   | 87.3   | 76.8   | 66.3   | 55.9   | 49.8   | 48.0   | 46.2   | 44.4   | 42.6   | 42.0   |
| 85°    | 50.9   | 45.4   | 39.9   | 34.3   | 28.8   | 25.7   | 24.9   | 24.1   | 23.3   | 22.5   | 22.5   |
| 87.5°  | 15.3   | 14.2   | 13.1   | 11.9   | 10.8   | 10.3   | 10.8   | 11.1   | 11.6   | 11.9   | 11.9   |
| 90°    | 1.1    | 3.7    | 6.4    | 9.1    | 11.8   | 14.1   | 16.0   | 17.9   | 19.9   | 21.8   | 23.0   |
| 92.5°  | 22.0   | 21.8   | 21.6   | 21.3   | 21.0   | 21.4   | 22.4   | 23.4   | 24.3   | 25.3   | 25.9   |
| 95°    | 70.9   | 62.9   | 54.9   | 46.9   | 38.9   | 35.8   | 37.5   | 39.1   | 40.8   | 42.5   | 43.8   |
| 97.5°  | 140.7  | 118.2  | 95.6   | 73.1   | 50.6   | 41.2   | 45.1   | 49.0   | 53.1   | 57.0   | 57.9   |
| 100°   | 193.1  | 159.9  | 126.6  | 93.5   | 60.3   | 45.7   | 49.8   | 53.9   | 58.1   | 62.2   | 64.1   |
| 102.5° | 250.7  | 243.6  | 236.6  | 229.6  | 222.6  | 201.8  | 167.3  | 132.9  | 98.4   | 63.9   | 66.4   |
| 105°   | 331.6  | 338.9  | 346.2  | 353.4  | 360.7  | 331.3  | 265.1  | 198.9  | 132.7  | 66.5   | 69.2   |
| 107.5° | 423.9  | 429.7  | 435.6  | 441.5  | 447.4  | 410.6  | 331.3  | 251.9  | 172.5  | 93.2   | 90.4   |
| 110°   | 483.2  | 488.3  | 493.4  | 498.5  | 503.5  | 471.1  | 401.1  | 331.0  | 260.9  | 190.9  | 166.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 539.0  | 543.6  | 548.0  | 552.6  | 557.1  | 550.7  | 533.4  | 516.1  | 498.8  | 481.4  | 393.1  |
| 115°   | 627.2  | 631.3  | 635.4  | 639.5  | 643.7  | 648.8  | 654.9  | 660.9  | 667.0  | 673.1  | 560.8  |
| 117.5° | 706.0  | 710.6  | 715.2  | 719.8  | 724.4  | 728.8  | 732.9  | 737.1  | 741.3  | 745.5  | 718.3  |
| 120°   | 763.6  | 767.2  | 770.8  | 774.5  | 778.1  | 782.1  | 786.5  | 790.9  | 795.2  | 799.5  | 802.5  |
| 122.5° | 812.4  | 816.3  | 820.1  | 823.9  | 827.8  | 832.1  | 836.8  | 841.5  | 846.3  | 851.0  | 852.7  |
| 125°   | 886.8  | 889.9  | 893.1  | 896.3  | 899.4  | 903.3  | 907.9  | 912.5  | 917.1  | 921.8  | 923.5  |
| 127.5° | 954.2  | 957.7  | 961.2  | 964.7  | 968.2  | 971.7  | 975.1  | 978.6  | 982.0  | 985.4  | 987.9  |
| 130°   | 997.0  | 1000.9 | 1004.8 | 1008.6 | 1012.5 | 1015.7 | 1018.4 | 1021.1 | 1023.8 | 1026.4 | 1029.1 |
| 132.5° | 1040.6 | 1043.9 | 1047.2 | 1050.5 | 1053.8 | 1056.8 | 1059.4 | 1062.1 | 1064.8 | 1067.5 | 1069.7 |
| 135°   | 1097.3 | 1101.2 | 1105.1 | 1108.9 | 1112.9 | 1115.9 | 1118.0 | 1120.3 | 1122.4 | 1124.6 | 1127.0 |
| 137.5° | 1154.7 | 1157.4 | 1160.1 | 1162.9 | 1165.6 | 1168.1 | 1170.6 | 1173.1 | 1175.5 | 1178.0 | 1180.4 |
| 140°   | 1192.2 | 1194.2 | 1196.1 | 1198.0 | 1200.0 | 1202.3 | 1205.0 | 1207.6 | 1210.3 | 1213.0 | 1215.1 |
| 142.5° | 1223.7 | 1225.4 | 1227.2 | 1228.9 | 1230.7 | 1233.1 | 1236.1 | 1239.1 | 1242.2 | 1245.3 | 1247.2 |
| 145°   | 1272.9 | 1272.7 | 1272.5 | 1272.2 | 1272.0 | 1273.9 | 1278.1 | 1282.2 | 1286.3 | 1290.4 | 1292.1 |
| 147.5° | 1315.9 | 1315.0 | 1314.1 | 1313.1 | 1312.2 | 1313.8 | 1317.9 | 1322.0 | 1326.1 | 1330.1 | 1331.4 |
| 150°   | 1343.9 | 1342.2 | 1340.5 | 1338.7 | 1337.0 | 1338.2 | 1342.0 | 1345.9 | 1349.8 | 1353.7 | 1355.1 |
| 152.5° | 1367.4 | 1365.6 | 1363.6 | 1361.7 | 1359.9 | 1360.8 | 1364.4 | 1368.2 | 1371.8 | 1375.5 | 1377.0 |
| 155°   | 1401.7 | 1399.5 | 1397.3 | 1395.1 | 1392.9 | 1393.3 | 1396.2 | 1399.1 | 1402.0 | 1405.0 | 1406.4 |
| 157.5° | 1428.5 | 1426.6 | 1424.8 | 1423.0 | 1421.1 | 1421.2 | 1423.3 | 1425.3 | 1427.4 | 1429.4 | 1431.0 |
| 160°   | 1444.2 | 1442.8 | 1441.3 | 1439.8 | 1438.4 | 1438.4 | 1439.8 | 1441.3 | 1442.8 | 1444.2 | 1445.6 |
| 162.5° | 1458.2 | 1456.7 | 1455.3 | 1453.8 | 1452.3 | 1452.2 | 1453.5 | 1454.7 | 1456.1 | 1457.3 | 1458.9 |
| 165°   | 1476.9 | 1475.5 | 1474.0 | 1472.6 | 1471.1 | 1470.8 | 1471.5 | 1472.2 | 1472.9 | 1473.6 | 1475.3 |
| 167.5° | 1490.9 | 1489.4 | 1488.0 | 1486.6 | 1485.1 | 1484.7 | 1485.4 | 1486.0 | 1486.7 | 1487.4 | 1489.1 |
| 170°   | 1498.8 | 1497.3 | 1495.8 | 1494.4 | 1492.9 | 1492.5 | 1492.9 | 1493.4 | 1493.9 | 1494.4 | 1496.1 |
| 172.5° | 1504.0 | 1502.5 | 1501.1 | 1499.6 | 1498.2 | 1497.7 | 1498.2 | 1498.6 | 1499.1 | 1499.6 | 1501.3 |
| 175°   | 1510.7 | 1509.0 | 1507.3 | 1505.7 | 1504.0 | 1503.3 | 1503.9 | 1504.3 | 1504.9 | 1505.3 | 1507.0 |
| 177.5° | 1511.8 | 1510.5 | 1509.1 | 1507.8 | 1506.4 | 1505.8 | 1506.0 | 1506.2 | 1506.4 | 1506.6 | 1508.0 |
| 180°   | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 |
| 2.5°   | 1301.3 | 1303.4 | 1305.5 | 1306.4 | 1305.9 | 1305.5 | 1305.1 | 1304.7 |
| 5°     | 1290.9 | 1293.2 | 1295.7 | 1296.5 | 1295.7 | 1294.9 | 1294.1 | 1293.2 |
| 7.5°   | 1270.1 | 1270.7 | 1271.4 | 1271.0 | 1269.7 | 1268.4 | 1266.9 | 1265.6 |
| 10°    | 1249.1 | 1248.3 | 1247.5 | 1246.3 | 1244.7 | 1243.2 | 1241.6 | 1240.0 |
| 12.5°  | 1225.1 | 1223.7 | 1222.3 | 1220.3 | 1217.6 | 1215.0 | 1212.4 | 1209.8 |
| 15°    | 1180.4 | 1175.4 | 1170.4 | 1166.5 | 1164.0 | 1161.3 | 1158.7 | 1156.0 |
| 17.5°  | 1129.7 | 1123.7 | 1117.8 | 1112.6 | 1108.0 | 1103.6 | 1099.0 | 1094.5 |
| 20°    | 1094.4 | 1087.8 | 1081.2 | 1075.0 | 1069.3 | 1063.5 | 1057.7 | 1052.0 |
| 22.5°  | 1055.6 | 1047.1 | 1038.7 | 1032.2 | 1028.0 | 1023.6 | 1019.3 | 1015.0 |
| 25°    | 991.3  | 980.5  | 969.7  | 962.3  | 958.4  | 954.5  | 950.6  | 946.6  |
| 27.5°  | 930.0  | 917.4  | 904.8  | 895.5  | 889.2  | 882.9  | 876.6  | 870.4  |
| 30°    | 886.6  | 873.3  | 859.8  | 849.5  | 842.5  | 835.4  | 828.3  | 821.2  |
| 32.5°  | 843.1  | 827.8  | 812.5  | 801.5  | 794.9  | 788.2  | 781.5  | 774.8  |
| 35°    | 775.0  | 758.5  | 741.9  | 730.8  | 725.0  | 719.2  | 713.4  | 707.6  |
| 37.5°  | 708.7  | 690.5  | 672.3  | 659.8  | 653.2  | 646.5  | 639.9  | 633.3  |
| 40°    | 664.3  | 645.7  | 627.0  | 614.2  | 607.4  | 600.6  | 593.7  | 586.9  |
| 42.5°  | 619.6  | 600.2  | 580.9  | 567.9  | 561.3  | 554.7  | 548.0  | 541.4  |
| 45°    | 554.3  | 535.7  | 516.9  | 504.4  | 498.1  | 491.9  | 485.5  | 479.2  |
| 47.5°  | 490.8  | 472.3  | 453.7  | 441.6  | 435.9  | 430.1  | 424.4  | 418.7  |
| 50°    | 450.0  | 431.9  | 413.8  | 401.9  | 396.4  | 390.8  | 385.3  | 379.8  |
| 52.5°  | 411.5  | 394.0  | 376.5  | 365.2  | 360.1  | 355.0  | 349.9  | 344.8  |
| 55°    | 353.0  | 337.2  | 321.5  | 311.0  | 306.0  | 301.0  | 296.0  | 291.1  |
| 57.5°  | 299.8  | 285.3  | 270.9  | 261.5  | 257.3  | 253.1  | 248.9  | 244.7  |
| 60°    | 263.1  | 249.7  | 236.2  | 227.5  | 223.2  | 219.0  | 214.8  | 210.6  |
| 62.5°  | 231.2  | 218.5  | 205.6  | 198.0  | 195.5  | 193.0  | 190.4  | 187.9  |
| 65°    | 188.0  | 179.1  | 170.1  | 165.2  | 164.4  | 163.7  | 162.9  | 162.1  |
| 67.5°  | 151.8  | 147.7  | 143.6  | 141.1  | 140.3  | 139.4  | 138.6  | 137.8  |
| 70°    | 132.0  | 129.4  | 126.7  | 124.9  | 123.9  | 122.8  | 121.7  | 120.6  |
| 72.5°  | 114.9  | 112.6  | 110.4  | 109.1  | 108.3  | 107.7  | 107.1  | 106.5  |
| 75°    | 91.0   | 89.2   | 87.3   | 86.2   | 86.0   | 85.7   | 85.4   | 85.2   |
| 77.5°  | 68.9   | 67.9   | 66.8   | 66.1   | 65.6   | 65.2   | 64.8   | 64.4   |
| 80°    | 54.7   | 53.7   | 52.6   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   |
| 82.5°  | 41.4   | 40.7   | 40.0   | 39.8   | 39.8   | 39.8   | 39.8   | 39.8   |
| 85°    | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   |
| 87.5°  | 12.0   | 12.0   | 12.0   | 12.1   | 12.2   | 12.3   | 12.4   | 12.5   |
| 90°    | 24.3   | 25.4   | 26.7   | 27.6   | 28.0   | 28.4   | 29.0   | 29.4   |
| 92.5°  | 26.6   | 27.2   | 27.8   | 28.3   | 28.5   | 28.9   | 29.2   | 29.4   |
| 95°    | 44.9   | 46.2   | 47.3   | 47.9   | 47.6   | 47.3   | 47.2   | 46.9   |
| 97.5°  | 58.9   | 59.8   | 60.8   | 61.4   | 61.7   | 62.1   | 62.3   | 62.6   |
| 100°   | 66.1   | 67.9   | 69.9   | 71.2   | 71.6   | 72.1   | 72.6   | 73.1   |
| 102.5° | 68.9   | 71.5   | 74.0   | 75.6   | 76.2   | 77.0   | 77.7   | 78.3   |
| 105°   | 71.9   | 74.5   | 77.2   | 79.0   | 80.0   | 81.0   | 81.9   | 82.9   |
| 107.5° | 87.7   | 85.0   | 82.3   | 81.4   | 82.4   | 83.4   | 84.4   | 85.3   |
| 110°   | 142.4  | 118.2  | 93.9   | 82.3   | 83.3   | 84.3   | 85.2   | 86.1   |





TEST NUMBER: P331839-940

CATALOG NUMBER: S122RDIW-S865D1240U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 304.6  | 216.2  | 127.8  | 83.9   | 84.7   | 85.5   | 86.2   | 87.0   |
| 115°   | 448.5  | 336.4  | 224.1  | 159.3  | 141.8  | 124.4  | 106.9  | 89.4   |
| 117.5° | 691.2  | 664.0  | 636.9  | 594.6  | 537.3  | 479.9  | 422.6  | 365.2  |
| 120°   | 805.4  | 808.2  | 811.2  | 796.3  | 763.6  | 730.8  | 698.1  | 665.4  |
| 122.5° | 854.5  | 856.3  | 858.0  | 855.7  | 849.4  | 843.0  | 836.7  | 830.3  |
| 125°   | 925.1  | 926.8  | 928.5  | 929.7  | 930.4  | 931.2  | 931.9  | 932.6  |
| 127.5° | 990.3  | 992.8  | 995.3  | 996.7  | 996.8  | 996.9  | 997.0  | 997.2  |
| 130°   | 1031.8 | 1034.5 | 1037.1 | 1038.3 | 1038.0 | 1037.9 | 1037.6 | 1037.3 |
| 132.5° | 1072.0 | 1074.2 | 1076.6 | 1077.5 | 1077.4 | 1077.1 | 1076.8 | 1076.7 |
| 135°   | 1129.4 | 1131.8 | 1134.3 | 1135.2 | 1134.8 | 1134.3 | 1133.8 | 1133.4 |
| 137.5° | 1182.8 | 1185.2 | 1187.6 | 1188.3 | 1187.5 | 1186.7 | 1185.9 | 1185.0 |
| 140°   | 1217.4 | 1219.5 | 1221.7 | 1222.2 | 1220.9 | 1219.8 | 1218.5 | 1217.4 |
| 142.5° | 1249.2 | 1251.2 | 1253.2 | 1253.6 | 1252.4 | 1251.2 | 1249.9 | 1248.8 |
| 145°   | 1293.8 | 1295.5 | 1297.2 | 1297.4 | 1296.2 | 1295.0 | 1293.8 | 1292.6 |
| 147.5° | 1332.7 | 1333.9 | 1335.2 | 1335.2 | 1334.3 | 1333.2 | 1332.2 | 1331.2 |
| 150°   | 1356.6 | 1358.1 | 1359.5 | 1359.6 | 1358.4 | 1357.2 | 1355.9 | 1354.8 |
| 152.5° | 1378.4 | 1379.8 | 1381.3 | 1381.3 | 1379.7 | 1378.0 | 1376.4 | 1374.8 |
| 155°   | 1407.8 | 1409.3 | 1410.8 | 1410.5 | 1408.5 | 1406.7 | 1404.7 | 1402.8 |
| 157.5° | 1432.7 | 1434.3 | 1436.0 | 1435.8 | 1434.0 | 1432.1 | 1430.2 | 1428.3 |
| 160°   | 1447.2 | 1448.6 | 1450.0 | 1449.9 | 1448.2 | 1446.5 | 1444.8 | 1443.1 |
| 162.5° | 1460.6 | 1462.2 | 1463.9 | 1463.7 | 1461.6 | 1459.5 | 1457.4 | 1455.4 |
| 165°   | 1477.0 | 1478.7 | 1480.4 | 1480.4 | 1478.7 | 1477.0 | 1475.3 | 1473.6 |
| 167.5° | 1490.8 | 1492.5 | 1494.2 | 1494.0 | 1491.7 | 1489.6 | 1487.4 | 1485.2 |
| 170°   | 1497.8 | 1499.5 | 1501.2 | 1500.9 | 1498.8 | 1496.6 | 1494.4 | 1492.2 |
| 172.5° | 1503.0 | 1504.7 | 1506.4 | 1506.2 | 1504.0 | 1501.8 | 1499.6 | 1497.4 |
| 175°   | 1508.7 | 1510.4 | 1512.1 | 1511.7 | 1509.3 | 1506.9 | 1504.4 | 1502.0 |
| 177.5° | 1509.3 | 1510.6 | 1512.1 | 1511.8 | 1510.1 | 1508.3 | 1506.6 | 1504.9 |
| 180°   | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 | 1507.4 |

(END OF REPORT)