

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: P331843-930

Luminaire Tested: **S122RDIW-S865D1440U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331843-930  
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-S865D1440U930-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7158.9 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

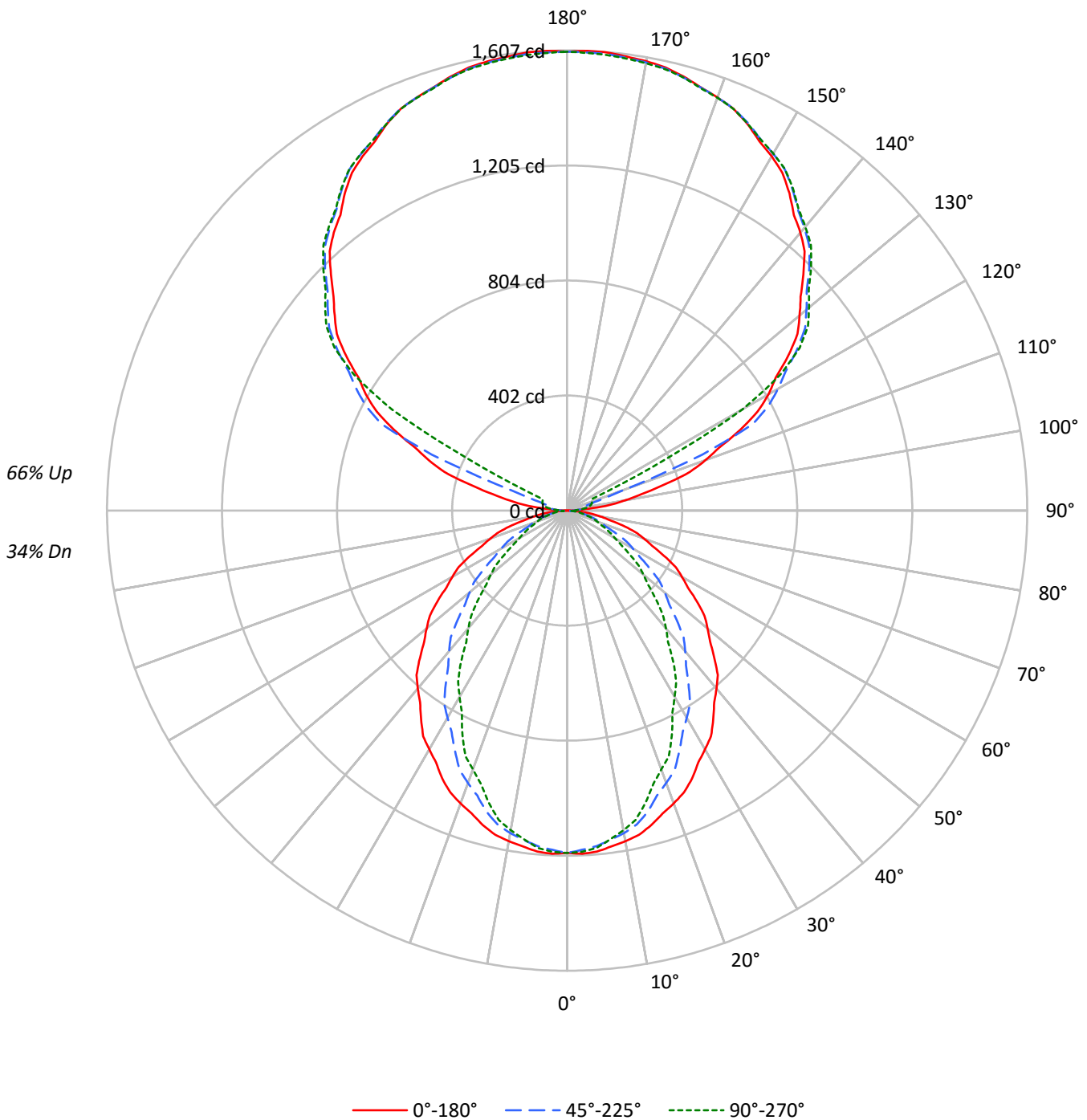
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P331843-930

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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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 |
| 1   | 95  | 91  | 87  | 84  | 85 | 82 | 79 | 76 | 66 | 64 | 62 | 51 | 50 | 48 | 37 | 37 | 36 |
| 2   | 86  | 79  | 74  | 69  | 78 | 72 | 67 | 63 | 58 | 55 | 52 | 45 | 43 | 41 | 33 | 32 | 31 |
| 3   | 79  | 70  | 63  | 58  | 71 | 64 | 58 | 53 | 51 | 47 | 44 | 40 | 37 | 35 | 30 | 28 | 26 |
| 4   | 72  | 62  | 55  | 49  | 65 | 56 | 50 | 45 | 46 | 41 | 38 | 36 | 33 | 30 | 27 | 25 | 23 |
| 5   | 66  | 55  | 48  | 42  | 60 | 50 | 44 | 39 | 41 | 36 | 32 | 32 | 29 | 26 | 24 | 22 | 20 |
| 6   | 61  | 50  | 42  | 36  | 55 | 45 | 39 | 34 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 |
| 7   | 57  | 45  | 37  | 32  | 51 | 41 | 34 | 30 | 34 | 29 | 25 | 27 | 23 | 21 | 20 | 18 | 16 |
| 8   | 53  | 41  | 33  | 28  | 47 | 37 | 31 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 15 |
| 9   | 49  | 37  | 30  | 25  | 44 | 34 | 28 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 17 | 15 | 13 |
| 10  | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 | 16 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 19302 | 19302 | 19302 |
| 5°  | 19376 | 19060 | 19164 |
| 10° | 19226 | 18748 | 18589 |
| 15° | 19005 | 18191 | 17668 |
| 20° | 18699 | 17399 | 16526 |
| 25° | 18387 | 16498 | 15419 |
| 30° | 17952 | 15571 | 13998 |
| 35° | 17527 | 14564 | 12751 |
| 40° | 17102 | 13523 | 11310 |
| 45° | 16600 | 12353 | 10003 |
| 50° | 16088 | 11170 | 8721  |
| 55° | 15564 | 9897  | 7491  |
| 60° | 14951 | 8561  | 6219  |
| 65° | 14258 | 7194  | 5662  |
| 70° | 13430 | 5925  | 5207  |
| 75° | 12420 | 5402  | 4860  |
| 80° | 10962 | 4826  | 4426  |
| 85° | 8633  | 3798  | 3798  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.9  | 1.6       |
| 10°-20°   | 307.2  | 4.3       |
| 20°-30°   | 431.5  | 6.0       |
| 30°-40°   | 470.5  | 6.6       |
| 40°-50°   | 432.6  | 6.0       |
| 50°-60°   | 339.7  | 4.7       |
| 60°-70°   | 221.5  | 3.1       |
| 70°-80°   | 114.2  | 1.6       |
| 80°-90°   | 33.6   | 0.5       |
| 90°-100°  | 53.5   | 0.7       |
| 100°-110° | 196.0  | 2.7       |
| 110°-120° | 524.0  | 7.3       |
| 120°-130° | 865.0  | 12.1      |
| 130°-140° | 919.9  | 12.8      |
| 140°-150° | 855.0  | 11.9      |
| 150°-160° | 687.4  | 9.6       |
| 160°-170° | 443.0  | 6.2       |
| 170°-180° | 152.5  | 2.1       |
| 0°-30°    | 850.6  | 11.9      |
| 0°-40°    | 1321.1 | 18.5      |
| 0°-60°    | 2093.4 | 29.2      |
| 0°-90°    | 2462.7 | 34.4      |
| 90°-120°  | 773.5  | 10.8      |
| 90°-150°  | 3413.3 | 47.7      |
| 90°-180°  | 4696.0 | 65.6      |
| 0°-180°   | 7158.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1196 | 1196  | 1196 | 1196  | 1196 |      |
| 5°   | 1196 | 1190  | 1176 | 1185  | 1182 | 113  |
| 15°  | 1137 | 1124  | 1088 | 1068  | 1057 | 320  |
| 25°  | 1032 | 995   | 926  | 883   | 866  | 474  |
| 35°  | 889  | 832   | 739  | 673   | 647  | 556  |
| 45°  | 727  | 652   | 541  | 467   | 438  | 561  |
| 55°  | 553  | 467   | 352  | 289   | 266  | 494  |
| 65°  | 373  | 285   | 188  | 153   | 148  | 370  |
| 75°  | 199  | 126   | 87   | 79    | 78   | 211  |
| 85°  | 47   | 25    | 20   | 20    | 20   | 55   |
| 90°  | 1    | 14    | 23   | 29    | 31   | 5    |
| 95°  | 75   | 40    | 45   | 51    | 50   | 92   |
| 105° | 352  | 368   | 71   | 83    | 88   | 377  |
| 115° | 667  | 687   | 715  | 204   | 95   | 656  |
| 125° | 943  | 958   | 980  | 988   | 991  | 840  |
| 135° | 1166 | 1185  | 1196 | 1206  | 1205 | 901  |
| 145° | 1353 | 1353  | 1372 | 1379  | 1374 | 846  |
| 155° | 1490 | 1481  | 1494 | 1500  | 1491 | 686  |
| 165° | 1570 | 1564  | 1566 | 1574  | 1566 | 443  |
| 175° | 1606 | 1598  | 1600 | 1607  | 1597 | 153  |
| 180° | 1602 | 1602  | 1602 | 1602  | 1602 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 |
| 2.5°   | 1199.8 | 1198.8 | 1197.8 | 1196.9 | 1196.0 | 1194.4 | 1192.3 | 1190.2 | 1188.1 | 1185.9 | 1187.9 |
| 5°     | 1195.5 | 1194.3 | 1193.0 | 1191.8 | 1190.7 | 1188.5 | 1185.4 | 1182.3 | 1179.1 | 1176.0 | 1178.1 |
| 7.5°   | 1183.1 | 1181.6 | 1180.1 | 1178.7 | 1177.1 | 1174.6 | 1170.9 | 1167.3 | 1163.6 | 1159.9 | 1160.6 |
| 10°    | 1172.7 | 1171.0 | 1169.4 | 1167.7 | 1166.0 | 1162.8 | 1158.0 | 1153.2 | 1148.3 | 1143.5 | 1142.8 |
| 12.5°  | 1159.8 | 1157.6 | 1155.6 | 1153.6 | 1151.4 | 1147.4 | 1141.2 | 1135.1 | 1128.9 | 1122.7 | 1121.4 |
| 15°    | 1137.0 | 1134.4 | 1131.7 | 1129.1 | 1126.4 | 1121.0 | 1112.9 | 1104.7 | 1096.5 | 1088.3 | 1083.8 |
| 17.5°  | 1109.1 | 1105.1 | 1101.1 | 1097.0 | 1093.0 | 1085.7 | 1075.2 | 1064.7 | 1054.3 | 1043.7 | 1038.4 |
| 20°    | 1088.3 | 1083.5 | 1078.7 | 1073.9 | 1069.1 | 1060.7 | 1048.6 | 1036.7 | 1024.7 | 1012.6 | 1006.6 |
| 22.5°  | 1065.8 | 1060.5 | 1055.1 | 1049.7 | 1044.3 | 1034.9 | 1021.2 | 1007.7 | 994.2  | 980.6  | 972.8  |
| 25°    | 1032.1 | 1024.4 | 1016.7 | 1009.0 | 1001.4 | 989.5  | 973.6  | 957.8  | 941.9  | 926.1  | 916.2  |
| 27.5°  | 991.4  | 983.0  | 974.7  | 966.3  | 958.0  | 944.9  | 926.9  | 909.1  | 891.1  | 873.3  | 861.8  |
| 30°    | 962.9  | 953.7  | 944.6  | 935.5  | 926.3  | 912.2  | 892.9  | 873.7  | 854.4  | 835.2  | 823.0  |
| 32.5°  | 935.1  | 924.5  | 913.8  | 903.1  | 892.4  | 877.3  | 857.7  | 838.0  | 818.5  | 798.8  | 784.9  |
| 35°    | 889.2  | 877.0  | 864.8  | 852.5  | 840.2  | 823.5  | 802.3  | 781.2  | 760.1  | 738.9  | 723.7  |
| 37.5°  | 843.4  | 830.0  | 816.5  | 803.0  | 789.5  | 771.5  | 749.0  | 726.4  | 703.9  | 681.3  | 664.6  |
| 40°    | 811.4  | 797.0  | 782.5  | 768.1  | 753.7  | 734.8  | 711.5  | 688.2  | 664.9  | 641.6  | 624.4  |
| 42.5°  | 778.5  | 763.3  | 748.1  | 733.0  | 717.7  | 698.1  | 674.0  | 649.9  | 625.8  | 601.7  | 584.1  |
| 45°    | 727.0  | 710.9  | 694.8  | 678.7  | 662.6  | 641.9  | 616.7  | 591.4  | 566.1  | 541.0  | 523.8  |
| 47.5°  | 676.8  | 659.7  | 642.7  | 625.6  | 608.5  | 586.9  | 560.9  | 534.8  | 508.7  | 482.7  | 465.8  |
| 50°    | 640.5  | 623.4  | 606.3  | 589.2  | 572.2  | 550.4  | 524.0  | 497.5  | 471.1  | 444.7  | 428.0  |
| 52.5°  | 605.0  | 587.1  | 569.3  | 551.5  | 533.6  | 511.8  | 485.9  | 460.0  | 434.1  | 408.3  | 392.2  |
| 55°    | 552.9  | 534.1  | 515.4  | 496.6  | 477.8  | 455.4  | 429.5  | 403.5  | 377.6  | 351.6  | 337.2  |
| 57.5°  | 499.4  | 480.1  | 460.9  | 441.6  | 422.5  | 400.4  | 375.4  | 350.4  | 325.5  | 300.5  | 287.3  |
| 60°    | 463.0  | 443.8  | 424.6  | 405.4  | 386.1  | 364.1  | 339.3  | 314.5  | 289.8  | 265.1  | 252.8  |
| 62.5°  | 427.5  | 408.3  | 389.1  | 369.8  | 350.6  | 329.2  | 305.6  | 282.0  | 258.4  | 234.7  | 223.1  |
| 65°    | 373.2  | 353.8  | 334.3  | 314.8  | 295.4  | 274.8  | 253.2  | 231.5  | 209.9  | 188.3  | 180.1  |
| 67.5°  | 320.9  | 301.6  | 282.3  | 262.9  | 243.5  | 224.1  | 204.7  | 185.2  | 165.8  | 146.3  | 142.5  |
| 70°    | 284.5  | 265.8  | 247.0  | 228.3  | 209.5  | 191.8  | 175.3  | 158.7  | 142.1  | 125.5  | 123.1  |
| 72.5°  | 249.9  | 232.0  | 213.9  | 196.0  | 178.0  | 162.3  | 149.0  | 135.7  | 122.4  | 109.1  | 107.0  |
| 75°    | 199.1  | 182.2  | 165.4  | 148.5  | 131.8  | 119.3  | 111.0  | 102.9  | 94.7   | 86.6   | 84.9   |
| 77.5°  | 149.1  | 134.3  | 119.5  | 104.8  | 90.0   | 80.7   | 76.7   | 72.8   | 68.9   | 64.9   | 63.9   |
| 80°    | 117.9  | 105.7  | 93.4   | 81.1   | 68.9   | 61.6   | 59.1   | 56.7   | 54.3   | 51.9   | 51.0   |
| 82.5°  | 89.4   | 79.8   | 70.2   | 60.7   | 51.1   | 45.5   | 43.9   | 42.2   | 40.6   | 39.0   | 38.4   |
| 85°    | 46.6   | 41.5   | 36.4   | 31.4   | 26.3   | 23.5   | 22.7   | 22.0   | 21.3   | 20.5   | 20.5   |
| 87.5°  | 14.1   | 13.1   | 12.1   | 11.2   | 10.2   | 9.9    | 10.4   | 10.8   | 11.2   | 11.6   | 11.7   |
| 90°    | 1.1    | 4.0    | 6.8    | 9.7    | 12.5   | 14.9   | 17.0   | 19.1   | 21.1   | 23.2   | 24.5   |
| 92.5°  | 23.4   | 23.2   | 22.9   | 22.7   | 22.4   | 22.7   | 23.8   | 24.9   | 25.8   | 26.9   | 27.6   |
| 95°    | 75.3   | 66.9   | 58.4   | 49.9   | 41.3   | 38.0   | 39.8   | 41.6   | 43.5   | 45.2   | 46.5   |
| 97.5°  | 149.6  | 125.6  | 101.7  | 77.7   | 53.7   | 43.9   | 48.0   | 52.2   | 56.3   | 60.5   | 61.6   |
| 100°   | 205.2  | 169.9  | 134.6  | 99.3   | 64.0   | 48.6   | 52.9   | 57.3   | 61.7   | 66.1   | 68.2   |
| 102.5° | 266.4  | 259.0  | 251.5  | 244.0  | 236.6  | 214.5  | 177.9  | 141.2  | 104.6  | 67.9   | 70.6   |
| 105°   | 352.5  | 360.2  | 367.9  | 375.7  | 383.4  | 352.1  | 281.8  | 211.4  | 141.0  | 70.8   | 73.5   |
| 107.5° | 450.6  | 456.8  | 463.1  | 469.3  | 475.6  | 436.5  | 352.1  | 267.7  | 183.4  | 99.1   | 96.1   |
| 110°   | 513.7  | 519.1  | 524.5  | 529.9  | 535.3  | 500.8  | 426.3  | 351.9  | 277.4  | 202.9  | 177.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 573.1  | 577.8  | 582.6  | 587.4  | 592.2  | 585.4  | 567.0  | 548.6  | 530.2  | 511.8  | 417.8  |
| 115°   | 666.8  | 671.2  | 675.5  | 679.9  | 684.3  | 689.7  | 696.1  | 702.5  | 709.0  | 715.4  | 596.1  |
| 117.5° | 750.5  | 755.4  | 760.3  | 765.2  | 770.1  | 774.7  | 779.1  | 783.6  | 788.0  | 792.5  | 763.6  |
| 120°   | 811.7  | 815.5  | 819.4  | 823.3  | 827.1  | 831.4  | 836.0  | 840.7  | 845.3  | 849.9  | 853.0  |
| 122.5° | 863.6  | 867.7  | 871.8  | 875.9  | 880.0  | 884.5  | 889.5  | 894.5  | 899.6  | 904.7  | 906.5  |
| 125°   | 942.7  | 946.1  | 949.4  | 952.8  | 956.1  | 960.3  | 965.2  | 970.0  | 974.9  | 979.8  | 981.6  |
| 127.5° | 1014.4 | 1018.1 | 1021.8 | 1025.5 | 1029.2 | 1032.9 | 1036.6 | 1040.2 | 1043.9 | 1047.6 | 1050.2 |
| 130°   | 1059.8 | 1064.0 | 1068.0 | 1072.2 | 1076.4 | 1079.8 | 1082.6 | 1085.5 | 1088.3 | 1091.1 | 1094.0 |
| 132.5° | 1106.2 | 1109.7 | 1113.2 | 1116.7 | 1120.2 | 1123.4 | 1126.3 | 1129.0 | 1131.9 | 1134.7 | 1137.2 |
| 135°   | 1166.5 | 1170.6 | 1174.8 | 1178.8 | 1183.0 | 1186.2 | 1188.5 | 1190.8 | 1193.2 | 1195.5 | 1198.1 |
| 137.5° | 1227.5 | 1230.4 | 1233.3 | 1236.2 | 1239.0 | 1241.8 | 1244.4 | 1247.1 | 1249.7 | 1252.3 | 1254.8 |
| 140°   | 1267.4 | 1269.4 | 1271.5 | 1273.6 | 1275.6 | 1278.1 | 1280.9 | 1283.8 | 1286.6 | 1289.4 | 1291.8 |
| 142.5° | 1300.8 | 1302.6 | 1304.5 | 1306.4 | 1308.2 | 1310.8 | 1314.0 | 1317.3 | 1320.5 | 1323.7 | 1325.8 |
| 145°   | 1353.2 | 1352.9 | 1352.7 | 1352.4 | 1352.2 | 1354.2 | 1358.6 | 1363.0 | 1367.3 | 1371.7 | 1373.5 |
| 147.5° | 1398.9 | 1397.9 | 1396.9 | 1396.0 | 1395.0 | 1396.6 | 1400.9 | 1405.3 | 1409.7 | 1414.0 | 1415.3 |
| 150°   | 1428.6 | 1426.8 | 1425.0 | 1423.2 | 1421.3 | 1422.5 | 1426.6 | 1430.8 | 1434.8 | 1439.0 | 1440.6 |
| 152.5° | 1453.6 | 1451.6 | 1449.6 | 1447.6 | 1445.6 | 1446.5 | 1450.4 | 1454.3 | 1458.2 | 1462.2 | 1463.7 |
| 155°   | 1490.0 | 1487.7 | 1485.4 | 1483.0 | 1480.7 | 1481.2 | 1484.3 | 1487.4 | 1490.4 | 1493.5 | 1495.0 |
| 157.5° | 1518.6 | 1516.6 | 1514.7 | 1512.7 | 1510.7 | 1510.8 | 1513.0 | 1515.2 | 1517.3 | 1519.5 | 1521.3 |
| 160°   | 1535.2 | 1533.7 | 1532.2 | 1530.6 | 1529.1 | 1529.1 | 1530.6 | 1532.2 | 1533.7 | 1535.2 | 1536.8 |
| 162.5° | 1550.0 | 1548.6 | 1547.0 | 1545.5 | 1543.9 | 1543.8 | 1545.2 | 1546.5 | 1547.8 | 1549.2 | 1550.9 |
| 165°   | 1570.0 | 1568.5 | 1566.9 | 1565.4 | 1563.8 | 1563.5 | 1564.2 | 1565.0 | 1565.8 | 1566.5 | 1568.4 |
| 167.5° | 1584.9 | 1583.3 | 1581.8 | 1580.2 | 1578.7 | 1578.3 | 1579.0 | 1579.7 | 1580.5 | 1581.2 | 1583.0 |
| 170°   | 1593.3 | 1591.7 | 1590.2 | 1588.6 | 1587.1 | 1586.5 | 1587.1 | 1587.6 | 1588.0 | 1588.6 | 1590.4 |
| 172.5° | 1598.8 | 1597.3 | 1595.7 | 1594.2 | 1592.6 | 1592.1 | 1592.6 | 1593.1 | 1593.7 | 1594.2 | 1595.9 |
| 175°   | 1606.0 | 1604.2 | 1602.4 | 1600.6 | 1598.8 | 1598.1 | 1598.6 | 1599.1 | 1599.7 | 1600.2 | 1602.0 |
| 177.5° | 1607.1 | 1605.7 | 1604.3 | 1602.8 | 1601.3 | 1600.8 | 1600.9 | 1601.2 | 1601.3 | 1601.6 | 1603.0 |
| 180°   | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 |
| 2.5°   | 1189.8 | 1191.7 | 1193.6 | 1194.4 | 1194.0 | 1193.6 | 1193.3 | 1192.9 |
| 5°     | 1180.3 | 1182.4 | 1184.6 | 1185.4 | 1184.6 | 1183.9 | 1183.2 | 1182.4 |
| 7.5°   | 1161.2 | 1161.8 | 1162.5 | 1162.1 | 1160.9 | 1159.7 | 1158.4 | 1157.2 |
| 10°    | 1142.1 | 1141.3 | 1140.6 | 1139.5 | 1138.1 | 1136.7 | 1135.2 | 1133.8 |
| 12.5°  | 1120.1 | 1118.8 | 1117.5 | 1115.7 | 1113.3 | 1110.9 | 1108.5 | 1106.1 |
| 15°    | 1079.2 | 1074.6 | 1070.1 | 1066.6 | 1064.2 | 1061.8 | 1059.4 | 1057.0 |
| 17.5°  | 1032.9 | 1027.4 | 1022.1 | 1017.2 | 1013.1 | 1009.0 | 1004.9 | 1000.7 |
| 20°    | 1000.6 | 994.6  | 988.6  | 982.9  | 977.6  | 972.3  | 967.0  | 961.8  |
| 22.5°  | 965.2  | 957.4  | 949.7  | 943.8  | 939.9  | 935.9  | 932.0  | 928.1  |
| 25°    | 906.4  | 896.5  | 886.6  | 879.9  | 876.3  | 872.7  | 869.1  | 865.5  |
| 27.5°  | 850.3  | 838.8  | 827.3  | 818.7  | 813.0  | 807.2  | 801.5  | 795.8  |
| 30°    | 810.7  | 798.4  | 786.1  | 776.7  | 770.3  | 763.8  | 757.3  | 750.8  |
| 32.5°  | 770.9  | 756.8  | 742.9  | 732.8  | 726.8  | 720.6  | 714.5  | 708.4  |
| 35°    | 708.6  | 693.5  | 678.3  | 668.1  | 662.8  | 657.5  | 652.2  | 646.9  |
| 37.5°  | 648.0  | 631.3  | 614.7  | 603.2  | 597.2  | 591.1  | 585.1  | 579.0  |
| 40°    | 607.4  | 590.4  | 573.2  | 561.6  | 555.4  | 549.1  | 542.8  | 536.6  |
| 42.5°  | 566.5  | 548.8  | 531.2  | 519.3  | 513.2  | 507.2  | 501.1  | 495.0  |
| 45°    | 506.8  | 489.8  | 472.6  | 461.2  | 455.4  | 449.7  | 443.9  | 438.1  |
| 47.5°  | 448.7  | 431.8  | 414.8  | 403.7  | 398.5  | 393.2  | 388.0  | 382.8  |
| 50°    | 411.5  | 394.8  | 378.3  | 367.5  | 362.4  | 357.3  | 352.3  | 347.2  |
| 52.5°  | 376.3  | 360.3  | 344.2  | 333.9  | 329.2  | 324.6  | 319.9  | 315.3  |
| 55°    | 322.8  | 308.3  | 293.9  | 284.4  | 279.8  | 275.2  | 270.7  | 266.1  |
| 57.5°  | 274.1  | 260.9  | 247.7  | 239.1  | 235.3  | 231.4  | 227.6  | 223.7  |
| 60°    | 240.5  | 228.3  | 216.0  | 208.0  | 204.1  | 200.2  | 196.4  | 192.6  |
| 62.5°  | 211.4  | 199.7  | 188.0  | 181.0  | 178.7  | 176.4  | 174.1  | 171.8  |
| 65°    | 171.9  | 163.7  | 155.6  | 151.1  | 150.3  | 149.7  | 149.0  | 148.2  |
| 67.5°  | 138.8  | 135.0  | 131.3  | 129.0  | 128.2  | 127.4  | 126.7  | 126.0  |
| 70°    | 120.7  | 118.3  | 115.9  | 114.2  | 113.2  | 112.3  | 111.3  | 110.3  |
| 72.5°  | 105.0  | 103.0  | 100.9  | 99.7   | 99.1   | 98.5   | 97.9   | 97.3   |
| 75°    | 83.2   | 81.5   | 79.8   | 78.8   | 78.6   | 78.4   | 78.1   | 77.9   |
| 77.5°  | 63.0   | 62.0   | 61.1   | 60.4   | 60.0   | 59.6   | 59.3   | 58.9   |
| 80°    | 50.0   | 49.1   | 48.1   | 47.6   | 47.6   | 47.6   | 47.6   | 47.6   |
| 82.5°  | 37.8   | 37.2   | 36.6   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   |
| 85°    | 20.5   | 20.5   | 20.5   | 20.5   | 20.5   | 20.5   | 20.5   | 20.5   |
| 87.5°  | 11.7   | 11.7   | 11.8   | 11.9   | 12.0   | 12.1   | 12.2   | 12.3   |
| 90°    | 25.8   | 27.1   | 28.4   | 29.3   | 29.8   | 30.2   | 30.8   | 31.3   |
| 92.5°  | 28.2   | 28.9   | 29.6   | 30.1   | 30.4   | 30.7   | 31.0   | 31.3   |
| 95°    | 47.8   | 49.1   | 50.4   | 50.9   | 50.6   | 50.4   | 50.1   | 49.9   |
| 97.5°  | 62.6   | 63.6   | 64.7   | 65.3   | 65.6   | 66.0   | 66.3   | 66.5   |
| 100°   | 70.2   | 72.3   | 74.4   | 75.7   | 76.1   | 76.6   | 77.2   | 77.7   |
| 102.5° | 73.3   | 76.0   | 78.7   | 80.4   | 81.1   | 81.8   | 82.5   | 83.2   |
| 105°   | 76.4   | 79.2   | 82.1   | 84.0   | 85.0   | 86.1   | 87.1   | 88.1   |
| 107.5° | 93.3   | 90.3   | 87.5   | 86.6   | 87.6   | 88.6   | 89.7   | 90.7   |
| 110°   | 151.4  | 125.6  | 99.9   | 87.5   | 88.5   | 89.5   | 90.6   | 91.6   |





TEST NUMBER: P331843-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 323.8  | 229.8  | 135.8  | 89.2   | 90.1   | 90.9   | 91.7   | 92.5   |
| 115°   | 476.9  | 357.5  | 238.2  | 169.3  | 150.7  | 132.2  | 113.7  | 95.1   |
| 117.5° | 734.7  | 705.9  | 677.0  | 632.1  | 571.1  | 510.1  | 449.1  | 388.2  |
| 120°   | 856.1  | 859.2  | 862.3  | 846.4  | 811.7  | 776.9  | 742.1  | 707.4  |
| 122.5° | 908.4  | 910.3  | 912.1  | 909.6  | 902.9  | 896.2  | 889.4  | 882.6  |
| 125°   | 983.4  | 985.2  | 987.0  | 988.3  | 989.1  | 989.9  | 990.7  | 991.4  |
| 127.5° | 1052.8 | 1055.4 | 1058.0 | 1059.5 | 1059.6 | 1059.7 | 1059.9 | 1060.1 |
| 130°   | 1096.8 | 1099.7 | 1102.4 | 1103.8 | 1103.5 | 1103.3 | 1103.0 | 1102.7 |
| 132.5° | 1139.5 | 1142.0 | 1144.4 | 1145.5 | 1145.3 | 1145.0 | 1144.8 | 1144.4 |
| 135°   | 1200.6 | 1203.2 | 1205.8 | 1206.8 | 1206.3 | 1205.8 | 1205.3 | 1204.8 |
| 137.5° | 1257.4 | 1259.9 | 1262.4 | 1263.2 | 1262.3 | 1261.5 | 1260.6 | 1259.7 |
| 140°   | 1294.0 | 1296.4 | 1298.7 | 1299.2 | 1298.0 | 1296.7 | 1295.3 | 1294.0 |
| 142.5° | 1328.0 | 1330.1 | 1332.2 | 1332.6 | 1331.3 | 1330.0 | 1328.8 | 1327.5 |
| 145°   | 1375.3 | 1377.1 | 1379.0 | 1379.2 | 1377.9 | 1376.6 | 1375.3 | 1374.1 |
| 147.5° | 1416.7 | 1418.0 | 1419.4 | 1419.4 | 1418.4 | 1417.3 | 1416.2 | 1415.1 |
| 150°   | 1442.1 | 1443.7 | 1445.2 | 1445.3 | 1444.1 | 1442.8 | 1441.4 | 1440.1 |
| 152.5° | 1465.3 | 1466.8 | 1468.4 | 1468.3 | 1466.6 | 1464.9 | 1463.2 | 1461.5 |
| 155°   | 1496.6 | 1498.1 | 1499.7 | 1499.4 | 1497.4 | 1495.3 | 1493.2 | 1491.2 |
| 157.5° | 1523.0 | 1524.7 | 1526.5 | 1526.3 | 1524.4 | 1522.3 | 1520.3 | 1518.3 |
| 160°   | 1538.3 | 1539.9 | 1541.4 | 1541.3 | 1539.5 | 1537.7 | 1535.9 | 1534.1 |
| 162.5° | 1552.7 | 1554.4 | 1556.2 | 1555.9 | 1553.7 | 1551.5 | 1549.3 | 1547.1 |
| 165°   | 1570.2 | 1572.0 | 1573.8 | 1573.8 | 1572.0 | 1570.2 | 1568.4 | 1566.5 |
| 167.5° | 1584.8 | 1586.6 | 1588.4 | 1588.1 | 1585.8 | 1583.5 | 1581.2 | 1578.8 |
| 170°   | 1592.2 | 1594.0 | 1595.8 | 1595.5 | 1593.3 | 1590.9 | 1588.6 | 1586.2 |
| 172.5° | 1597.7 | 1599.5 | 1601.3 | 1601.1 | 1598.8 | 1596.4 | 1594.2 | 1591.8 |
| 175°   | 1603.8 | 1605.6 | 1607.4 | 1607.0 | 1604.4 | 1601.8 | 1599.3 | 1596.7 |
| 177.5° | 1604.4 | 1605.9 | 1607.4 | 1607.1 | 1605.2 | 1603.4 | 1601.6 | 1599.7 |
| 180°   | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 | 1602.5 |

(END OF REPORT)