

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: P331803-830

Luminaire Tested: **S122RDIW-S485D1440U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331803-830  
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-S485D1440U830-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 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: 7033.5 lumens  
Efficiency: N/A  
Efficacy: 116.1 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

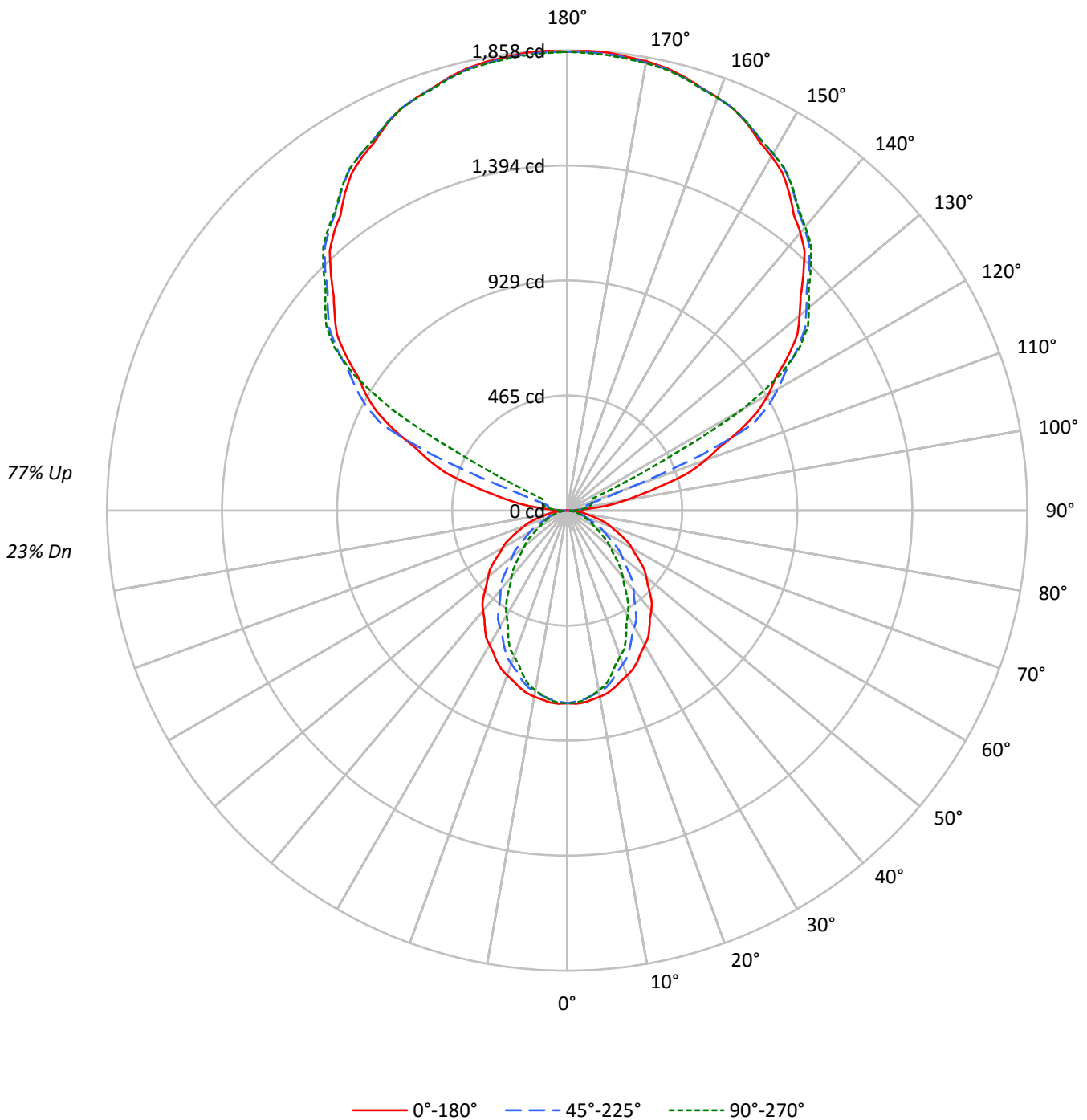
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331803-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P331803-830

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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   | 101 | 101 | 101 | 101 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 49 | 49 | 49 | 31 | 31 | 31 | 23 |
| 1   | 92  | 88  | 84  | 81  | 81 | 78 | 75 | 72 | 60 | 58 | 56 | 43 | 42 | 41 | 28 | 27 | 27 | 20 |
| 2   | 84  | 77  | 71  | 66  | 74 | 68 | 64 | 60 | 53 | 50 | 47 | 38 | 36 | 34 | 25 | 24 | 23 | 17 |
| 3   | 77  | 68  | 61  | 55  | 68 | 60 | 55 | 50 | 47 | 43 | 39 | 34 | 31 | 29 | 22 | 21 | 20 | 14 |
| 4   | 70  | 60  | 53  | 47  | 62 | 54 | 47 | 42 | 41 | 37 | 34 | 30 | 27 | 25 | 20 | 18 | 17 | 13 |
| 5   | 64  | 53  | 46  | 40  | 57 | 48 | 41 | 36 | 37 | 33 | 29 | 27 | 24 | 22 | 18 | 16 | 15 | 11 |
| 6   | 59  | 48  | 40  | 35  | 52 | 43 | 36 | 31 | 33 | 29 | 25 | 25 | 22 | 19 | 16 | 15 | 13 | 10 |
| 7   | 55  | 43  | 35  | 30  | 48 | 39 | 32 | 28 | 30 | 26 | 22 | 22 | 19 | 17 | 15 | 13 | 12 | 9  |
| 8   | 50  | 39  | 32  | 27  | 45 | 35 | 29 | 24 | 27 | 23 | 20 | 20 | 17 | 15 | 14 | 12 | 11 | 8  |
| 9   | 47  | 35  | 28  | 24  | 42 | 32 | 26 | 22 | 25 | 21 | 17 | 19 | 16 | 13 | 13 | 11 | 10 | 7  |
| 10  | 44  | 32  | 26  | 21  | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 17 | 14 | 12 | 12 | 10 | 9  | 7  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12558 | 12558 | 12558 |
| 5°  | 12606 | 12402 | 12470 |
| 10° | 12511 | 12198 | 12095 |
| 15° | 12366 | 11836 | 11497 |
| 20° | 12167 | 11320 | 10753 |
| 25° | 11965 | 10735 | 10033 |
| 30° | 11680 | 10133 | 9107  |
| 35° | 11404 | 9477  | 8296  |
| 40° | 11126 | 8800  | 7358  |
| 45° | 10803 | 8035  | 6510  |
| 50° | 10467 | 7267  | 5674  |
| 55° | 10125 | 6441  | 4873  |
| 60° | 9726  | 5570  | 4046  |
| 65° | 9280  | 4676  | 3683  |
| 70° | 8738  | 3852  | 3389  |
| 75° | 8079  | 3512  | 3163  |
| 80° | 7132  | 3133  | 2882  |
| 85° | 5613  | 2482  | 2482  |



TEST NUMBER: P331803-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.8   | 1.0       |
| 10°-20°   | 199.9  | 2.8       |
| 20°-30°   | 280.7  | 4.0       |
| 30°-40°   | 306.1  | 4.4       |
| 40°-50°   | 281.5  | 4.0       |
| 50°-60°   | 221.1  | 3.1       |
| 60°-70°   | 144.1  | 2.0       |
| 70°-80°   | 74.3   | 1.1       |
| 80°-90°   | 23.9   | 0.3       |
| 90°-100°  | 61.8   | 0.9       |
| 100°-110° | 226.6  | 3.2       |
| 110°-120° | 605.8  | 8.6       |
| 120°-130° | 1000.0 | 14.2      |
| 130°-140° | 1063.4 | 15.1      |
| 140°-150° | 988.4  | 14.1      |
| 150°-160° | 794.7  | 11.3      |
| 160°-170° | 512.1  | 7.3       |
| 170°-180° | 176.3  | 2.5       |
| 0°-30°    | 553.4  | 7.9       |
| 0°-40°    | 859.6  | 12.2      |
| 0°-60°    | 1362.1 | 19.4      |
| 0°-90°    | 1604.4 | 22.8      |
| 90°-120°  | 894.2  | 12.7      |
| 90°-150°  | 3946.0 | 56.1      |
| 90°-180°  | 5429.0 | 77.2      |
| 0°-180°   | 7033.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 778  | 778   | 778  | 778   | 778  |      |
| 5°   | 778  | 774   | 765  | 771   | 769  | 74   |
| 15°  | 740  | 731   | 708  | 695   | 688  | 208  |
| 25°  | 672  | 648   | 603  | 575   | 563  | 309  |
| 35°  | 579  | 541   | 481  | 438   | 421  | 362  |
| 45°  | 473  | 424   | 352  | 304   | 285  | 365  |
| 55°  | 360  | 304   | 229  | 188   | 173  | 321  |
| 65°  | 243  | 186   | 122  | 100   | 96   | 241  |
| 75°  | 130  | 82    | 56   | 52    | 51   | 137  |
| 85°  | 30   | 16    | 13   | 13    | 13   | 36   |
| 90°  | 1    | 16    | 27   | 33    | 36   | 5    |
| 95°  | 87   | 46    | 52   | 58    | 58   | 107  |
| 105° | 408  | 425   | 82   | 96    | 102  | 435  |
| 115° | 771  | 794   | 827  | 236   | 110  | 759  |
| 125° | 1090 | 1108  | 1133 | 1142  | 1146 | 971  |
| 135° | 1349 | 1369  | 1382 | 1395  | 1393 | 1041 |
| 145° | 1564 | 1564  | 1586 | 1594  | 1589 | 978  |
| 155° | 1723 | 1712  | 1726 | 1734  | 1724 | 793  |
| 165° | 1815 | 1808  | 1811 | 1819  | 1811 | 513  |
| 175° | 1857 | 1848  | 1850 | 1858  | 1846 | 177  |
| 180° | 1853 | 1853  | 1853 | 1853  | 1853 |      |



TEST NUMBER: P331803-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 |
| 2.5°   | 780.6 | 780.0 | 779.4 | 778.7 | 778.2 | 777.1 | 775.8 | 774.4 | 773.0 | 771.7 | 772.9 |
| 5°     | 777.8 | 777.0 | 776.3 | 775.5 | 774.7 | 773.3 | 771.3 | 769.2 | 767.2 | 765.2 | 766.6 |
| 7.5°   | 769.8 | 768.8 | 767.9 | 766.9 | 765.9 | 764.2 | 761.9 | 759.5 | 757.1 | 754.8 | 755.2 |
| 10°    | 763.1 | 762.0 | 760.8 | 759.8 | 758.7 | 756.6 | 753.5 | 750.3 | 747.2 | 744.0 | 743.6 |
| 12.5°  | 754.6 | 753.3 | 751.9 | 750.5 | 749.2 | 746.6 | 742.5 | 738.6 | 734.5 | 730.6 | 729.7 |
| 15°    | 739.8 | 738.1 | 736.4 | 734.6 | 732.9 | 729.4 | 724.1 | 718.8 | 713.5 | 708.1 | 705.2 |
| 17.5°  | 721.7 | 719.1 | 716.4 | 713.8 | 711.1 | 706.4 | 699.6 | 692.8 | 686.0 | 679.1 | 675.6 |
| 20°    | 708.1 | 705.0 | 701.9 | 698.8 | 695.6 | 690.1 | 682.3 | 674.5 | 666.7 | 658.8 | 655.0 |
| 22.5°  | 693.5 | 690.0 | 686.5 | 683.0 | 679.5 | 673.4 | 664.5 | 655.6 | 646.9 | 638.0 | 633.0 |
| 25°    | 671.6 | 666.6 | 661.6 | 656.5 | 651.5 | 643.9 | 633.5 | 623.2 | 612.8 | 602.6 | 596.2 |
| 27.5°  | 645.1 | 639.6 | 634.1 | 628.8 | 623.3 | 614.7 | 603.1 | 591.4 | 579.9 | 568.2 | 560.7 |
| 30°    | 626.5 | 620.6 | 614.6 | 608.7 | 602.8 | 593.5 | 581.0 | 568.4 | 555.9 | 543.5 | 535.5 |
| 32.5°  | 608.5 | 601.5 | 594.6 | 587.7 | 580.7 | 570.8 | 558.1 | 545.3 | 532.5 | 519.8 | 510.7 |
| 35°    | 578.6 | 570.6 | 562.7 | 554.7 | 546.7 | 535.8 | 522.1 | 508.3 | 494.6 | 480.8 | 470.9 |
| 37.5°  | 548.7 | 540.0 | 531.2 | 522.5 | 513.8 | 502.0 | 487.4 | 472.7 | 458.0 | 443.4 | 432.4 |
| 40°    | 527.9 | 518.6 | 509.2 | 499.8 | 490.4 | 478.2 | 463.0 | 447.8 | 432.6 | 417.5 | 406.3 |
| 42.5°  | 506.5 | 496.6 | 486.7 | 476.9 | 467.0 | 454.2 | 438.6 | 422.8 | 407.2 | 391.5 | 380.0 |
| 45°    | 473.1 | 462.6 | 452.0 | 441.6 | 431.1 | 417.6 | 401.2 | 384.8 | 368.3 | 351.9 | 340.8 |
| 47.5°  | 440.4 | 429.2 | 418.2 | 407.1 | 396.0 | 381.9 | 365.0 | 348.0 | 331.0 | 314.1 | 303.0 |
| 50°    | 416.7 | 405.6 | 394.5 | 383.4 | 372.3 | 358.2 | 340.9 | 323.8 | 306.5 | 289.3 | 278.5 |
| 52.5°  | 393.6 | 382.0 | 370.4 | 358.8 | 347.2 | 333.0 | 316.1 | 299.4 | 282.5 | 265.7 | 255.2 |
| 55°    | 359.7 | 347.5 | 335.3 | 323.1 | 310.9 | 296.3 | 279.5 | 262.6 | 245.6 | 228.8 | 219.4 |
| 57.5°  | 324.9 | 312.5 | 299.9 | 287.4 | 274.8 | 260.5 | 244.3 | 228.0 | 211.8 | 195.6 | 186.9 |
| 60°    | 301.2 | 288.8 | 276.3 | 263.7 | 251.2 | 237.0 | 220.8 | 204.7 | 188.6 | 172.5 | 164.5 |
| 62.5°  | 278.1 | 265.7 | 253.2 | 240.6 | 228.1 | 214.2 | 198.9 | 183.5 | 168.1 | 152.8 | 145.2 |
| 65°    | 242.9 | 230.2 | 217.5 | 204.8 | 192.2 | 178.8 | 164.8 | 150.6 | 136.6 | 122.4 | 117.2 |
| 67.5°  | 208.8 | 196.2 | 183.6 | 171.1 | 158.4 | 145.8 | 133.2 | 120.6 | 107.8 | 95.2  | 92.7  |
| 70°    | 185.1 | 173.0 | 160.7 | 148.5 | 136.3 | 124.8 | 114.0 | 103.2 | 92.5  | 81.6  | 80.1  |
| 72.5°  | 162.6 | 150.9 | 139.2 | 127.5 | 115.8 | 105.7 | 97.0  | 88.3  | 79.6  | 71.0  | 69.7  |
| 75°    | 129.5 | 118.6 | 107.6 | 96.7  | 85.7  | 77.6  | 72.3  | 66.9  | 61.6  | 56.3  | 55.2  |
| 77.5°  | 97.0  | 87.4  | 77.8  | 68.1  | 58.6  | 52.5  | 50.0  | 47.4  | 44.8  | 42.2  | 41.6  |
| 80°    | 76.7  | 68.7  | 60.8  | 52.8  | 44.8  | 40.1  | 38.5  | 36.9  | 35.3  | 33.7  | 33.2  |
| 82.5°  | 58.2  | 51.9  | 45.7  | 39.5  | 33.3  | 29.6  | 28.6  | 27.4  | 26.4  | 25.4  | 25.0  |
| 85°    | 30.3  | 27.0  | 23.7  | 20.5  | 17.2  | 15.3  | 14.8  | 14.3  | 13.9  | 13.4  | 13.4  |
| 87.5°  | 9.2   | 9.0   | 8.6   | 8.2   | 7.9   | 7.9   | 8.5   | 9.0   | 9.4   | 9.9   | 10.1  |
| 90°    | 1.3   | 4.6   | 7.9   | 11.2  | 14.4  | 17.2  | 19.7  | 22.1  | 24.4  | 26.8  | 28.3  |
| 92.5°  | 27.1  | 26.8  | 26.5  | 26.2  | 25.9  | 26.3  | 27.5  | 28.7  | 29.9  | 31.1  | 31.9  |
| 95°    | 87.1  | 77.3  | 67.5  | 57.7  | 47.8  | 43.9  | 46.0  | 48.1  | 50.2  | 52.3  | 53.7  |
| 97.5°  | 173.0 | 145.2 | 117.5 | 89.8  | 62.1  | 50.7  | 55.5  | 60.3  | 65.1  | 69.9  | 71.2  |
| 100°   | 237.2 | 196.4 | 155.6 | 114.8 | 74.0  | 56.2  | 61.2  | 66.3  | 71.4  | 76.4  | 78.8  |
| 102.5° | 308.0 | 299.4 | 290.8 | 282.1 | 273.5 | 248.0 | 205.7 | 163.2 | 120.9 | 78.5  | 81.6  |
| 105°   | 407.6 | 416.4 | 425.4 | 434.3 | 443.3 | 407.1 | 325.7 | 244.4 | 163.1 | 81.8  | 85.0  |
| 107.5° | 520.9 | 528.1 | 535.4 | 542.5 | 549.8 | 504.6 | 407.1 | 309.5 | 212.0 | 114.5 | 111.1 |
| 110°   | 593.9 | 600.1 | 606.3 | 612.7 | 618.9 | 578.9 | 492.9 | 406.8 | 320.7 | 234.6 | 204.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 662.5  | 668.0  | 673.5  | 679.1  | 684.7  | 676.7  | 655.5  | 634.2  | 612.9  | 591.7  | 483.1  |
| 115°   | 770.8  | 775.9  | 780.9  | 786.0  | 791.1  | 797.3  | 804.7  | 812.2  | 819.6  | 827.1  | 689.2  |
| 117.5° | 867.6  | 873.3  | 878.9  | 884.6  | 890.2  | 895.6  | 900.7  | 905.9  | 911.0  | 916.2  | 882.8  |
| 120°   | 938.4  | 942.8  | 947.3  | 951.8  | 956.2  | 961.1  | 966.5  | 971.9  | 977.2  | 982.6  | 986.2  |
| 122.5° | 998.4  | 1003.1 | 1007.9 | 1012.6 | 1017.3 | 1022.6 | 1028.3 | 1034.2 | 1040.0 | 1045.8 | 1048.0 |
| 125°   | 1089.9 | 1093.7 | 1097.6 | 1101.5 | 1105.3 | 1110.1 | 1115.8 | 1121.4 | 1127.1 | 1132.7 | 1134.8 |
| 127.5° | 1172.7 | 1177.0 | 1181.3 | 1185.5 | 1189.9 | 1194.1 | 1198.3 | 1202.6 | 1206.8 | 1211.1 | 1214.1 |
| 130°   | 1225.2 | 1230.0 | 1234.7 | 1239.5 | 1244.3 | 1248.3 | 1251.6 | 1254.9 | 1258.1 | 1261.4 | 1264.7 |
| 132.5° | 1278.8 | 1282.9 | 1286.9 | 1291.0 | 1295.1 | 1298.7 | 1302.0 | 1305.2 | 1308.5 | 1311.8 | 1314.7 |
| 135°   | 1348.6 | 1353.3 | 1358.1 | 1362.8 | 1367.6 | 1371.3 | 1374.0 | 1376.7 | 1379.4 | 1382.1 | 1385.1 |
| 137.5° | 1419.1 | 1422.4 | 1425.8 | 1429.1 | 1432.4 | 1435.6 | 1438.6 | 1441.7 | 1444.7 | 1447.7 | 1450.7 |
| 140°   | 1465.2 | 1467.5 | 1470.0 | 1472.3 | 1474.7 | 1477.5 | 1480.8 | 1484.1 | 1487.4 | 1490.6 | 1493.4 |
| 142.5° | 1503.8 | 1505.9 | 1508.1 | 1510.2 | 1512.4 | 1515.3 | 1519.1 | 1522.9 | 1526.5 | 1530.3 | 1532.8 |
| 145°   | 1564.4 | 1564.1 | 1563.8 | 1563.5 | 1563.2 | 1565.6 | 1570.7 | 1575.7 | 1580.7 | 1585.8 | 1587.9 |
| 147.5° | 1617.2 | 1616.1 | 1615.0 | 1613.8 | 1612.7 | 1614.6 | 1619.6 | 1624.7 | 1629.7 | 1634.7 | 1636.2 |
| 150°   | 1651.5 | 1649.4 | 1647.4 | 1645.3 | 1643.1 | 1644.5 | 1649.3 | 1654.1 | 1658.8 | 1663.6 | 1665.4 |
| 152.5° | 1680.5 | 1678.2 | 1675.8 | 1673.5 | 1671.2 | 1672.3 | 1676.8 | 1681.3 | 1685.8 | 1690.4 | 1692.1 |
| 155°   | 1722.6 | 1719.9 | 1717.2 | 1714.5 | 1711.8 | 1712.3 | 1715.9 | 1719.5 | 1723.1 | 1726.5 | 1728.3 |
| 157.5° | 1755.6 | 1753.3 | 1751.1 | 1748.8 | 1746.5 | 1746.6 | 1749.1 | 1751.6 | 1754.1 | 1756.6 | 1758.7 |
| 160°   | 1774.8 | 1773.0 | 1771.3 | 1769.5 | 1767.7 | 1767.7 | 1769.5 | 1771.3 | 1773.0 | 1774.8 | 1776.6 |
| 162.5° | 1792.0 | 1790.3 | 1788.5 | 1786.7 | 1784.9 | 1784.7 | 1786.3 | 1787.8 | 1789.4 | 1790.9 | 1793.0 |
| 165°   | 1815.1 | 1813.3 | 1811.5 | 1809.7 | 1807.9 | 1807.5 | 1808.4 | 1809.2 | 1810.2 | 1811.0 | 1813.2 |
| 167.5° | 1832.2 | 1830.4 | 1828.6 | 1826.8 | 1825.0 | 1824.6 | 1825.4 | 1826.3 | 1827.1 | 1828.0 | 1830.0 |
| 170°   | 1841.9 | 1840.1 | 1838.3 | 1836.5 | 1834.8 | 1834.1 | 1834.8 | 1835.3 | 1835.9 | 1836.5 | 1838.6 |
| 172.5° | 1848.3 | 1846.5 | 1844.7 | 1843.0 | 1841.2 | 1840.6 | 1841.2 | 1841.7 | 1842.4 | 1843.0 | 1845.0 |
| 175°   | 1856.6 | 1854.5 | 1852.5 | 1850.4 | 1848.3 | 1847.6 | 1848.1 | 1848.7 | 1849.4 | 1849.9 | 1852.0 |
| 177.5° | 1857.9 | 1856.3 | 1854.6 | 1852.9 | 1851.2 | 1850.6 | 1850.8 | 1851.1 | 1851.2 | 1851.5 | 1853.2 |
| 180°   | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 |
| 2.5°   | 774.1 | 775.4 | 776.7 | 777.1 | 776.9 | 776.7 | 776.4 | 776.2 |
| 5°     | 768.0 | 769.4 | 770.8 | 771.3 | 770.8 | 770.3 | 769.9 | 769.4 |
| 7.5°   | 755.5 | 755.9 | 756.4 | 756.2 | 755.4 | 754.5 | 753.8 | 752.9 |
| 10°    | 743.1 | 742.6 | 742.2 | 741.5 | 740.6 | 739.6 | 738.7 | 737.7 |
| 12.5°  | 728.9 | 728.0 | 727.2 | 725.9 | 724.3 | 722.8 | 721.2 | 719.7 |
| 15°    | 702.2 | 699.3 | 696.3 | 694.0 | 692.4 | 690.9 | 689.3 | 687.8 |
| 17.5°  | 672.0 | 668.5 | 665.0 | 661.9 | 659.2 | 656.5 | 653.8 | 651.1 |
| 20°    | 651.0 | 647.1 | 643.2 | 639.5 | 636.1 | 632.6 | 629.2 | 625.8 |
| 22.5°  | 627.9 | 622.9 | 617.9 | 614.1 | 611.5 | 609.0 | 606.4 | 603.8 |
| 25°    | 589.7 | 583.3 | 576.9 | 572.5 | 570.1 | 567.8 | 565.5 | 563.2 |
| 27.5°  | 553.3 | 545.7 | 538.3 | 532.7 | 529.0 | 525.3 | 521.5 | 517.8 |
| 30°    | 527.4 | 519.5 | 511.5 | 505.4 | 501.1 | 497.0 | 492.8 | 488.5 |
| 32.5°  | 501.5 | 492.5 | 483.3 | 476.8 | 472.9 | 468.9 | 464.9 | 460.9 |
| 35°    | 461.1 | 451.2 | 441.4 | 434.7 | 431.3 | 427.8 | 424.4 | 420.9 |
| 37.5°  | 421.6 | 410.8 | 399.9 | 392.5 | 388.6 | 384.7 | 380.7 | 376.7 |
| 40°    | 395.2 | 384.1 | 373.0 | 365.4 | 361.4 | 357.3 | 353.2 | 349.1 |
| 42.5°  | 368.5 | 357.0 | 345.6 | 337.9 | 333.9 | 330.0 | 326.0 | 322.1 |
| 45°    | 329.7 | 318.7 | 307.6 | 300.1 | 296.3 | 292.6 | 288.8 | 285.1 |
| 47.5°  | 292.0 | 281.0 | 269.9 | 262.7 | 259.3 | 255.9 | 252.4 | 249.0 |
| 50°    | 267.7 | 256.9 | 246.1 | 239.1 | 235.8 | 232.5 | 229.2 | 225.9 |
| 52.5°  | 244.8 | 234.4 | 223.9 | 217.3 | 214.2 | 211.2 | 208.1 | 205.1 |
| 55°    | 210.0 | 200.6 | 191.2 | 185.0 | 182.1 | 179.1 | 176.2 | 173.1 |
| 57.5°  | 178.3 | 169.8 | 161.2 | 155.6 | 153.1 | 150.6 | 148.1 | 145.5 |
| 60°    | 156.5 | 148.5 | 140.5 | 135.3 | 132.8 | 130.3 | 127.8 | 125.3 |
| 62.5°  | 137.5 | 130.0 | 122.3 | 117.8 | 116.3 | 114.8 | 113.3 | 111.8 |
| 65°    | 111.9 | 106.5 | 101.2 | 98.3  | 97.8  | 97.4  | 96.9  | 96.4  |
| 67.5°  | 90.3  | 87.8  | 85.4  | 84.0  | 83.4  | 82.9  | 82.5  | 81.9  |
| 70°    | 78.5  | 77.0  | 75.4  | 74.3  | 73.7  | 73.0  | 72.4  | 71.8  |
| 72.5°  | 68.3  | 67.0  | 65.7  | 64.8  | 64.5  | 64.1  | 63.7  | 63.3  |
| 75°    | 54.1  | 53.1  | 51.9  | 51.3  | 51.2  | 51.0  | 50.8  | 50.7  |
| 77.5°  | 41.0  | 40.3  | 39.8  | 39.3  | 39.0  | 38.8  | 38.5  | 38.3  |
| 80°    | 32.5  | 32.0  | 31.3  | 31.0  | 31.0  | 31.0  | 31.0  | 31.0  |
| 82.5°  | 24.6  | 24.2  | 23.8  | 23.7  | 23.7  | 23.7  | 23.7  | 23.7  |
| 85°    | 13.4  | 13.4  | 13.4  | 13.4  | 13.4  | 13.4  | 13.4  | 13.4  |
| 87.5°  | 10.2  | 10.4  | 10.6  | 10.7  | 10.8  | 10.9  | 11.0  | 11.2  |
| 90°    | 29.8  | 31.3  | 32.8  | 33.8  | 34.4  | 35.0  | 35.6  | 36.2  |
| 92.5°  | 32.6  | 33.5  | 34.2  | 34.8  | 35.2  | 35.4  | 35.8  | 36.2  |
| 95°    | 55.2  | 56.7  | 58.2  | 58.8  | 58.5  | 58.2  | 58.0  | 57.7  |
| 97.5°  | 72.4  | 73.5  | 74.7  | 75.5  | 75.9  | 76.3  | 76.6  | 76.9  |
| 100°   | 81.2  | 83.6  | 86.0  | 87.5  | 88.0  | 88.6  | 89.3  | 89.8  |
| 102.5° | 84.7  | 87.8  | 91.0  | 92.9  | 93.8  | 94.5  | 95.4  | 96.2  |
| 105°   | 88.3  | 91.6  | 94.9  | 97.1  | 98.3  | 99.5  | 100.7 | 101.9 |
| 107.5° | 107.8 | 104.4 | 101.1 | 100.1 | 101.2 | 102.5 | 103.7 | 104.8 |
| 110°   | 175.0 | 145.2 | 115.5 | 101.1 | 102.4 | 103.5 | 104.7 | 105.9 |





TEST NUMBER: P331803-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 374.4  | 265.7  | 157.0  | 103.1  | 104.2  | 105.1  | 106.0  | 107.0  |
| 115°   | 551.3  | 413.3  | 275.4  | 195.7  | 174.3  | 152.8  | 131.4  | 109.9  |
| 117.5° | 849.4  | 816.1  | 782.7  | 730.8  | 660.3  | 589.7  | 519.2  | 448.8  |
| 120°   | 989.8  | 993.3  | 996.9  | 978.5  | 938.4  | 898.1  | 857.9  | 817.7  |
| 122.5° | 1050.2 | 1052.3 | 1054.4 | 1051.6 | 1043.8 | 1036.0 | 1028.2 | 1020.4 |
| 125°   | 1136.9 | 1139.0 | 1141.0 | 1142.6 | 1143.5 | 1144.3 | 1145.3 | 1146.1 |
| 127.5° | 1217.1 | 1220.1 | 1223.1 | 1224.8 | 1224.9 | 1225.1 | 1225.3 | 1225.5 |
| 130°   | 1268.0 | 1271.3 | 1274.5 | 1276.0 | 1275.7 | 1275.4 | 1275.2 | 1274.8 |
| 132.5° | 1317.4 | 1320.2 | 1323.0 | 1324.3 | 1324.0 | 1323.7 | 1323.4 | 1323.0 |
| 135°   | 1388.0 | 1391.0 | 1394.0 | 1395.2 | 1394.6 | 1394.0 | 1393.4 | 1392.8 |
| 137.5° | 1453.6 | 1456.5 | 1459.4 | 1460.4 | 1459.3 | 1458.4 | 1457.4 | 1456.3 |
| 140°   | 1496.0 | 1498.7 | 1501.4 | 1501.9 | 1500.5 | 1499.0 | 1497.5 | 1496.0 |
| 142.5° | 1535.2 | 1537.7 | 1540.1 | 1540.6 | 1539.1 | 1537.6 | 1536.2 | 1534.6 |
| 145°   | 1590.0 | 1592.0 | 1594.2 | 1594.5 | 1593.0 | 1591.5 | 1590.0 | 1588.6 |
| 147.5° | 1637.8 | 1639.3 | 1640.9 | 1641.0 | 1639.7 | 1638.5 | 1637.2 | 1636.0 |
| 150°   | 1667.2 | 1669.0 | 1670.8 | 1670.8 | 1669.4 | 1667.9 | 1666.4 | 1664.9 |
| 152.5° | 1693.9 | 1695.7 | 1697.5 | 1697.4 | 1695.4 | 1693.6 | 1691.6 | 1689.6 |
| 155°   | 1730.1 | 1731.9 | 1733.7 | 1733.4 | 1731.1 | 1728.7 | 1726.3 | 1723.9 |
| 157.5° | 1760.7 | 1762.6 | 1764.7 | 1764.5 | 1762.3 | 1759.9 | 1757.6 | 1755.3 |
| 160°   | 1778.4 | 1780.2 | 1782.0 | 1781.9 | 1779.8 | 1777.6 | 1775.6 | 1773.5 |
| 162.5° | 1795.0 | 1797.1 | 1799.0 | 1798.7 | 1796.2 | 1793.7 | 1791.1 | 1788.6 |
| 165°   | 1815.2 | 1817.3 | 1819.4 | 1819.4 | 1817.3 | 1815.2 | 1813.2 | 1811.0 |
| 167.5° | 1832.1 | 1834.2 | 1836.3 | 1836.0 | 1833.3 | 1830.6 | 1828.0 | 1825.2 |
| 170°   | 1840.7 | 1842.8 | 1844.8 | 1844.6 | 1841.9 | 1839.2 | 1836.5 | 1833.8 |
| 172.5° | 1847.1 | 1849.2 | 1851.2 | 1851.0 | 1848.3 | 1845.6 | 1843.0 | 1840.2 |
| 175°   | 1854.1 | 1856.1 | 1858.2 | 1857.8 | 1854.8 | 1851.8 | 1848.9 | 1845.9 |
| 177.5° | 1854.8 | 1856.5 | 1858.2 | 1857.9 | 1855.8 | 1853.7 | 1851.5 | 1849.4 |
| 180°   | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 | 1852.6 |

(END OF REPORT)