

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: P331581-840

Luminaire Tested: **S122DIW-S865D1440U840-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331581-840  
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: S122DIW-S865D1440U840-4F0-1E-UDD-D  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9349.3 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

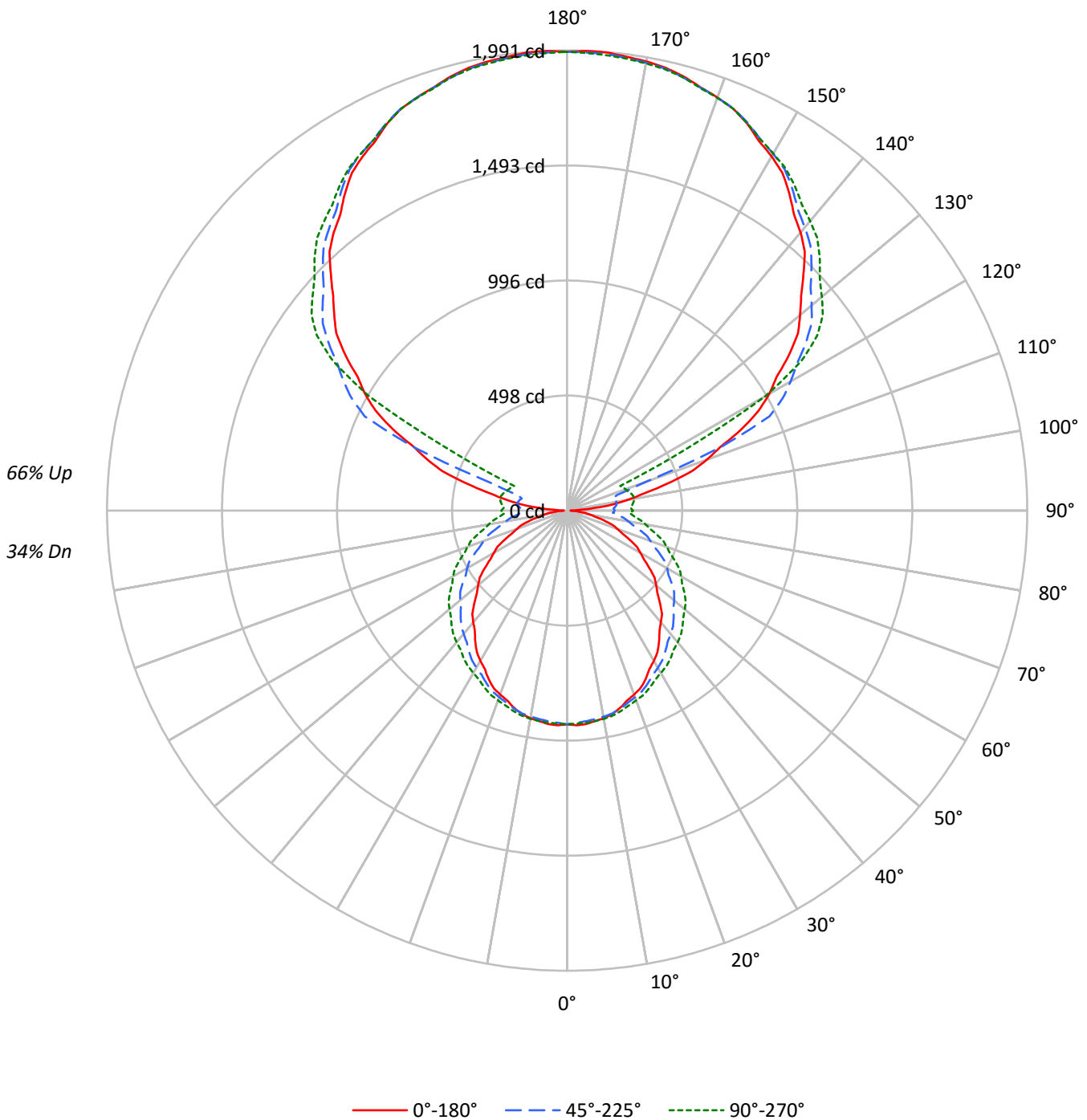
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331581-840

CATALOG NUMBER: S122DIW-S865D1440U840-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P331581-840

CATALOG NUMBER: S122DIW-S865D1440U840-4F0-1E-UDD-D

**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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 |
| 1   | 93  | 88  | 84  | 80  | 84 | 80 | 76 | 73 | 63 | 61 | 59 | 48 | 47 | 45 | 35 | 34 | 33 | 26 |
| 2   | 84  | 77  | 70  | 65  | 76 | 69 | 64 | 59 | 55 | 51 | 48 | 42 | 39 | 37 | 30 | 28 | 27 | 21 |
| 3   | 77  | 67  | 59  | 53  | 69 | 60 | 54 | 49 | 48 | 43 | 40 | 37 | 33 | 31 | 26 | 24 | 22 | 17 |
| 4   | 70  | 59  | 51  | 45  | 63 | 53 | 46 | 41 | 42 | 37 | 33 | 32 | 29 | 26 | 23 | 21 | 19 | 15 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 38 | 33 | 28 | 29 | 25 | 22 | 21 | 18 | 16 | 13 |
| 6   | 59  | 47  | 39  | 33  | 53 | 42 | 35 | 30 | 34 | 29 | 25 | 26 | 22 | 19 | 19 | 16 | 14 | 11 |
| 7   | 54  | 42  | 34  | 28  | 49 | 38 | 31 | 26 | 31 | 25 | 21 | 24 | 20 | 17 | 17 | 14 | 12 | 10 |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 28 | 23 | 28 | 23 | 19 | 21 | 18 | 15 | 16 | 13 | 11 | 9  |
| 9   | 47  | 34  | 27  | 22  | 42 | 31 | 25 | 20 | 25 | 20 | 17 | 20 | 16 | 13 | 14 | 12 | 10 | 8  |
| 10  | 43  | 31  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9  | 7  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14928 | 14928 | 14928 |
| 5°  | 15002 | 14370 | 14315 |
| 10° | 14907 | 13945 | 13789 |
| 15° | 14701 | 13496 | 13236 |
| 20° | 14442 | 13015 | 12701 |
| 25° | 14187 | 12551 | 12216 |
| 30° | 13824 | 12074 | 11729 |
| 35° | 13459 | 11611 | 11386 |
| 40° | 13075 | 11219 | 11044 |
| 45° | 12709 | 10869 | 10750 |
| 50° | 12316 | 10551 | 10462 |
| 55° | 11908 | 10209 | 10166 |
| 60° | 11404 | 9856  | 9857  |
| 65° | 10880 | 9439  | 9485  |
| 70° | 10292 | 8992  | 9089  |
| 75° | 9539  | 8554  | 8722  |
| 80° | 8357  | 8107  | 8349  |
| 85° | 7227  | 7720  | 8061  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.6   | 0.9       |
| 10°-20°   | 251.2  | 2.7       |
| 20°-30°   | 380.7  | 4.1       |
| 30°-40°   | 463.7  | 5.0       |
| 40°-50°   | 498.9  | 5.3       |
| 50°-60°   | 484.5  | 5.2       |
| 60°-70°   | 423.0  | 4.5       |
| 70°-80°   | 325.7  | 3.5       |
| 80°-90°   | 223.5  | 2.4       |
| 90°-100°  | 216.8  | 2.3       |
| 100°-110° | 352.8  | 3.8       |
| 110°-120° | 721.7  | 7.7       |
| 120°-130° | 1111.9 | 11.9      |
| 130°-140° | 1156.4 | 12.4      |
| 140°-150° | 1062.0 | 11.4      |
| 150°-160° | 851.5  | 9.1       |
| 160°-170° | 548.7  | 5.9       |
| 170°-180° | 188.9  | 2.0       |
| 0°-30°    | 719.6  | 7.7       |
| 0°-40°    | 1183.3 | 12.7      |
| 0°-60°    | 2166.6 | 23.2      |
| 0°-90°    | 3138.8 | 33.6      |
| 90°-120°  | 1291.2 | 13.8      |
| 90°-150°  | 4621.5 | 49.4      |
| 90°-180°  | 6211.0 | 66.4      |
| 0°-180°   | 9349.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 925  | 925   | 925  | 925   | 925  |      |
| 5°   | 927  | 923   | 915  | 923   | 922  | 88   |
| 15°  | 884  | 887   | 887  | 898   | 898  | 249  |
| 25°  | 804  | 814   | 826  | 841   | 846  | 369  |
| 35°  | 693  | 716   | 741  | 769   | 780  | 433  |
| 45°  | 568  | 605   | 651  | 691   | 706  | 438  |
| 55°  | 436  | 485   | 553  | 600   | 619  | 389  |
| 65°  | 298  | 364   | 442  | 495   | 514  | 295  |
| 75°  | 165  | 240   | 326  | 381   | 401  | 174  |
| 85°  | 48   | 132   | 217  | 271   | 292  | 52   |
| 90°  | 15   | 109   | 206  | 264   | 285  | 13   |
| 95°  | 104  | 124   | 210  | 266   | 283  | 123  |
| 105° | 443  | 503   | 203  | 263   | 286  | 474  |
| 115° | 831  | 874   | 966  | 372   | 253  | 818  |
| 125° | 1170 | 1192  | 1259 | 1304  | 1322 | 1044 |
| 135° | 1446 | 1469  | 1496 | 1536  | 1546 | 1117 |
| 145° | 1676 | 1676  | 1699 | 1716  | 1717 | 1048 |
| 155° | 1846 | 1834  | 1850 | 1857  | 1847 | 850  |
| 165° | 1945 | 1937  | 1940 | 1949  | 1940 | 549  |
| 175° | 1989 | 1980  | 1982 | 1991  | 1978 | 189  |
| 180° | 1985 | 1985  | 1985 | 1985  | 1985 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5°   | 930.0 | 929.3 | 928.6 | 927.9 | 927.2 | 925.9 | 924.2 | 922.6 | 920.9 | 919.3 | 920.5 |
| 5°     | 927.3 | 926.5 | 925.5 | 924.6 | 923.7 | 922.4 | 920.6 | 918.8 | 917.1 | 915.2 | 917.1 |
| 7.5°   | 919.0 | 918.4 | 917.8 | 917.3 | 916.7 | 915.6 | 914.2 | 912.9 | 911.5 | 910.2 | 912.3 |
| 10°    | 912.6 | 912.0 | 911.4 | 910.8 | 910.2 | 909.5 | 908.6 | 907.7 | 906.8 | 905.8 | 908.3 |
| 12.5°  | 901.8 | 902.0 | 902.1 | 902.2 | 902.3 | 902.0 | 901.4 | 900.7 | 900.1 | 899.4 | 901.8 |
| 15°    | 884.4 | 885.0 | 885.7 | 886.3 | 886.8 | 887.1 | 887.1 | 887.1 | 887.1 | 887.1 | 889.8 |
| 17.5°  | 861.9 | 863.1 | 864.4 | 865.7 | 866.9 | 868.0 | 869.0 | 869.9 | 870.9 | 871.8 | 874.6 |
| 20°    | 846.9 | 848.4 | 849.9 | 851.4 | 852.8 | 854.2 | 855.4 | 856.6 | 857.8 | 859.0 | 862.2 |
| 22.5°  | 830.8 | 832.5 | 834.2 | 836.0 | 837.7 | 839.4 | 841.1 | 842.7 | 844.4 | 846.1 | 849.4 |
| 25°    | 804.1 | 806.1 | 808.2 | 810.3 | 812.3 | 814.8 | 817.4 | 820.1 | 822.7 | 825.5 | 829.0 |
| 27.5°  | 771.8 | 775.3 | 778.6 | 782.0 | 785.5 | 788.7 | 791.8 | 795.1 | 798.2 | 801.3 | 805.9 |
| 30°    | 750.4 | 754.3 | 758.2 | 762.0 | 765.9 | 769.8 | 773.7 | 777.5 | 781.4 | 785.3 | 790.0 |
| 32.5°  | 726.8 | 731.1 | 735.5 | 739.9 | 744.3 | 748.7 | 753.3 | 757.9 | 762.4 | 767.0 | 772.5 |
| 35°    | 692.8 | 697.8 | 703.0 | 708.0 | 713.1 | 718.4 | 724.1 | 729.7 | 735.4 | 741.0 | 747.6 |
| 37.5°  | 655.8 | 661.7 | 667.5 | 673.3 | 679.1 | 685.7 | 693.1 | 700.4 | 707.7 | 715.1 | 722.4 |
| 40°    | 631.2 | 637.7 | 644.3 | 650.9 | 657.3 | 664.7 | 672.7 | 680.8 | 688.8 | 696.8 | 704.6 |
| 42.5°  | 607.5 | 614.1 | 620.7 | 627.2 | 633.8 | 641.7 | 650.9 | 660.1 | 669.3 | 678.6 | 687.0 |
| 45°    | 568.2 | 576.2 | 584.2 | 592.3 | 600.4 | 609.6 | 620.0 | 630.5 | 640.9 | 651.3 | 660.5 |
| 47.5°  | 529.3 | 538.1 | 546.8 | 555.6 | 564.3 | 574.8 | 587.0 | 599.3 | 611.5 | 623.7 | 633.3 |
| 50°    | 502.5 | 511.7 | 521.0 | 530.2 | 539.5 | 550.8 | 564.1 | 577.5 | 591.0 | 604.4 | 614.5 |
| 52.5°  | 476.8 | 486.5 | 496.2 | 505.9 | 515.6 | 527.6 | 541.7 | 555.7 | 569.9 | 584.0 | 594.3 |
| 55°    | 435.6 | 446.3 | 457.0 | 467.7 | 478.4 | 491.5 | 507.0 | 522.5 | 538.0 | 553.4 | 564.1 |
| 57.5°  | 394.8 | 406.9 | 419.0 | 431.0 | 443.1 | 457.1 | 472.8 | 488.7 | 504.4 | 520.2 | 531.8 |
| 60°    | 365.9 | 378.6 | 391.4 | 404.2 | 417.1 | 431.9 | 448.9 | 465.9 | 482.8 | 499.9 | 511.2 |
| 62.5°  | 340.1 | 353.4 | 366.7 | 379.9 | 393.2 | 408.4 | 425.4 | 442.3 | 459.3 | 476.3 | 488.3 |
| 65°    | 297.5 | 312.0 | 326.7 | 341.2 | 355.9 | 371.9 | 389.5 | 407.1 | 424.6 | 442.2 | 454.4 |
| 67.5°  | 258.3 | 273.6 | 288.8 | 304.1 | 319.3 | 336.0 | 354.0 | 371.9 | 389.9 | 407.9 | 420.2 |
| 70°    | 230.5 | 246.0 | 261.5 | 276.9 | 292.5 | 309.4 | 327.9 | 346.3 | 364.8 | 383.2 | 396.1 |
| 72.5°  | 204.8 | 220.8 | 236.7 | 252.7 | 268.6 | 285.9 | 304.7 | 323.4 | 342.0 | 360.7 | 373.3 |
| 75°    | 164.8 | 181.5 | 198.1 | 214.9 | 231.6 | 249.4 | 268.4 | 287.5 | 306.6 | 325.6 | 338.4 |
| 77.5°  | 126.2 | 143.7 | 161.2 | 178.5 | 196.0 | 214.4 | 233.8 | 253.2 | 272.5 | 291.9 | 304.6 |
| 80°    | 100.5 | 118.7 | 136.8 | 155.0 | 173.2 | 191.9 | 211.3 | 230.7 | 249.9 | 269.3 | 281.9 |
| 82.5°  | 79.1  | 96.9  | 114.9 | 132.8 | 150.8 | 169.6 | 189.1 | 208.7 | 228.3 | 247.9 | 260.4 |
| 85°    | 48.3  | 66.8  | 85.1  | 103.6 | 122.1 | 140.9 | 159.9 | 178.9 | 198.0 | 217.1 | 229.6 |
| 87.5°  | 26.6  | 45.0  | 63.4  | 81.9  | 100.4 | 119.4 | 139.0 | 158.5 | 178.0 | 197.6 | 210.2 |
| 90°    | 14.8  | 35.6  | 56.5  | 77.2  | 98.0  | 119.2 | 140.8 | 162.4 | 184.0 | 205.6 | 219.1 |
| 92.5°  | 41.3  | 57.1  | 72.9  | 88.7  | 104.4 | 122.1 | 141.7 | 161.3 | 181.0 | 200.6 | 213.1 |
| 95°    | 104.1 | 107.6 | 111.0 | 114.4 | 118.0 | 129.7 | 149.9 | 170.0 | 190.1 | 210.2 | 223.1 |
| 97.5°  | 194.7 | 177.4 | 160.2 | 143.0 | 125.7 | 128.3 | 150.6 | 172.9 | 195.2 | 217.5 | 229.8 |
| 100°   | 263.6 | 230.9 | 198.1 | 165.5 | 132.8 | 127.4 | 149.6 | 171.7 | 193.8 | 215.9 | 229.4 |
| 102.5° | 338.4 | 339.2 | 340.0 | 340.8 | 341.6 | 327.4 | 298.2 | 269.0 | 239.8 | 210.7 | 224.8 |
| 105°   | 443.3 | 461.5 | 479.8 | 498.0 | 516.1 | 489.5 | 417.8 | 346.2 | 274.5 | 202.9 | 216.8 |
| 107.5° | 564.6 | 579.2 | 593.8 | 608.4 | 623.1 | 585.6 | 495.9 | 406.3 | 316.6 | 226.9 | 233.4 |
| 110°   | 641.7 | 654.3 | 666.9 | 679.6 | 692.3 | 659.7 | 582.1 | 504.4 | 426.8 | 349.2 | 326.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 715.2  | 726.1  | 737.0  | 748.0  | 758.9  | 759.9  | 751.0  | 742.1  | 733.2  | 724.3  | 617.4  |
| 115°   | 831.2  | 839.9  | 848.6  | 857.3  | 866.1  | 881.1  | 902.4  | 923.8  | 945.2  | 966.5  | 827.8  |
| 117.5° | 933.6  | 941.8  | 950.0  | 958.2  | 966.4  | 979.5  | 997.3  | 1015.2 | 1033.1 | 1051.0 | 1024.0 |
| 120°   | 1009.4 | 1015.4 | 1021.4 | 1027.3 | 1033.3 | 1045.1 | 1062.8 | 1080.5 | 1098.1 | 1115.8 | 1127.9 |
| 122.5° | 1073.8 | 1079.2 | 1084.8 | 1090.4 | 1095.8 | 1107.3 | 1124.8 | 1142.3 | 1159.6 | 1177.1 | 1187.5 |
| 125°   | 1170.3 | 1174.5 | 1178.7 | 1182.9 | 1187.0 | 1196.8 | 1212.4 | 1228.0 | 1243.6 | 1259.2 | 1269.5 |
| 127.5° | 1259.1 | 1263.4 | 1267.7 | 1272.0 | 1276.4 | 1284.5 | 1296.8 | 1309.0 | 1321.2 | 1333.4 | 1344.0 |
| 130°   | 1315.5 | 1320.2 | 1325.0 | 1329.9 | 1334.6 | 1341.9 | 1351.7 | 1361.5 | 1371.3 | 1381.0 | 1391.7 |
| 132.5° | 1372.9 | 1377.0 | 1381.0 | 1385.0 | 1389.1 | 1395.2 | 1403.6 | 1411.9 | 1420.3 | 1428.6 | 1438.5 |
| 135°   | 1446.2 | 1451.4 | 1456.4 | 1461.6 | 1466.6 | 1472.2 | 1477.9 | 1483.8 | 1489.7 | 1495.5 | 1505.0 |
| 137.5° | 1521.8 | 1525.3 | 1528.8 | 1532.4 | 1535.8 | 1539.8 | 1544.5 | 1549.0 | 1553.6 | 1558.1 | 1566.7 |
| 140°   | 1571.1 | 1573.5 | 1575.7 | 1577.9 | 1580.2 | 1583.4 | 1587.5 | 1591.6 | 1595.7 | 1599.8 | 1607.4 |
| 142.5° | 1612.6 | 1614.6 | 1616.6 | 1618.5 | 1620.5 | 1623.7 | 1627.8 | 1631.9 | 1636.1 | 1640.2 | 1646.6 |
| 145°   | 1676.2 | 1675.8 | 1675.5 | 1675.2 | 1674.9 | 1677.4 | 1682.8 | 1688.3 | 1693.6 | 1699.1 | 1703.1 |
| 147.5° | 1732.7 | 1731.5 | 1730.3 | 1729.1 | 1727.9 | 1729.9 | 1735.3 | 1740.7 | 1746.1 | 1751.4 | 1753.3 |
| 150°   | 1769.5 | 1767.3 | 1765.0 | 1762.8 | 1760.5 | 1762.0 | 1767.1 | 1772.2 | 1777.3 | 1782.4 | 1784.3 |
| 152.5° | 1800.5 | 1798.1 | 1795.5 | 1793.0 | 1790.6 | 1791.7 | 1796.5 | 1801.4 | 1806.2 | 1811.1 | 1813.0 |
| 155°   | 1845.6 | 1842.7 | 1839.9 | 1836.9 | 1834.1 | 1834.6 | 1838.5 | 1842.3 | 1846.1 | 1849.9 | 1851.8 |
| 157.5° | 1881.0 | 1878.6 | 1876.1 | 1873.7 | 1871.3 | 1871.4 | 1874.0 | 1876.7 | 1879.4 | 1882.1 | 1884.3 |
| 160°   | 1901.6 | 1899.7 | 1897.8 | 1895.9 | 1894.0 | 1894.0 | 1895.9 | 1897.8 | 1899.7 | 1901.6 | 1903.5 |
| 162.5° | 1920.0 | 1918.1 | 1916.2 | 1914.3 | 1912.4 | 1912.2 | 1913.9 | 1915.5 | 1917.2 | 1918.8 | 1921.1 |
| 165°   | 1944.7 | 1942.8 | 1940.9 | 1938.9 | 1937.0 | 1936.6 | 1937.5 | 1938.4 | 1939.4 | 1940.4 | 1942.7 |
| 167.5° | 1963.1 | 1961.2 | 1959.2 | 1957.3 | 1955.4 | 1954.9 | 1955.8 | 1956.7 | 1957.6 | 1958.5 | 1960.8 |
| 170°   | 1973.5 | 1971.6 | 1969.6 | 1967.7 | 1965.8 | 1965.1 | 1965.8 | 1966.4 | 1967.0 | 1967.7 | 1969.9 |
| 172.5° | 1980.3 | 1978.4 | 1976.5 | 1974.6 | 1972.7 | 1972.1 | 1972.7 | 1973.3 | 1974.0 | 1974.6 | 1976.8 |
| 175°   | 1989.2 | 1987.0 | 1984.8 | 1982.6 | 1980.3 | 1979.5 | 1980.1 | 1980.7 | 1981.5 | 1982.1 | 1984.3 |
| 177.5° | 1990.6 | 1988.9 | 1987.1 | 1985.3 | 1983.5 | 1982.8 | 1983.0 | 1983.3 | 1983.5 | 1983.8 | 1985.6 |
| 180°   | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5°   | 921.6 | 922.8 | 924.0 | 924.4 | 923.9 | 923.4 | 922.9 | 922.5 |
| 5°     | 918.8 | 920.6 | 922.4 | 923.1 | 922.8 | 922.5 | 922.2 | 921.9 |
| 7.5°   | 914.4 | 916.6 | 918.8 | 919.7 | 919.4 | 919.1 | 918.8 | 918.5 |
| 10°    | 910.6 | 913.0 | 915.4 | 916.5 | 916.1 | 915.8 | 915.5 | 915.2 |
| 12.5°  | 904.2 | 906.6 | 909.0 | 910.0 | 909.7 | 909.4 | 909.1 | 908.8 |
| 15°    | 892.4 | 895.1 | 897.9 | 899.0 | 898.7 | 898.4 | 898.1 | 897.9 |
| 17.5°  | 877.5 | 880.2 | 883.0 | 884.4 | 884.4 | 884.4 | 884.4 | 884.4 |
| 20°    | 865.6 | 868.8 | 872.0 | 873.7 | 873.7 | 873.7 | 873.7 | 873.7 |
| 22.5°  | 852.6 | 856.0 | 859.2 | 861.1 | 861.5 | 862.0 | 862.5 | 863.0 |
| 25°    | 832.6 | 836.2 | 839.8 | 842.0 | 842.8 | 843.7 | 844.7 | 845.6 |
| 27.5°  | 810.4 | 815.0 | 819.4 | 822.0 | 822.7 | 823.3 | 824.0 | 824.7 |
| 30°    | 794.8 | 799.5 | 804.4 | 807.2 | 808.0 | 808.9 | 809.8 | 810.7 |
| 32.5°  | 778.0 | 783.5 | 788.9 | 792.5 | 794.1 | 795.7 | 797.3 | 798.9 |
| 35°    | 754.2 | 760.7 | 767.3 | 771.5 | 773.7 | 775.8 | 777.8 | 779.9 |
| 37.5°  | 729.5 | 736.8 | 744.1 | 748.8 | 751.0 | 753.3 | 755.5 | 757.7 |
| 40°    | 712.3 | 720.0 | 727.8 | 733.0 | 735.7 | 738.3 | 741.0 | 743.8 |
| 42.5°  | 695.5 | 704.0 | 712.5 | 718.0 | 720.6 | 723.4 | 726.0 | 728.7 |
| 45°    | 669.7 | 678.9 | 688.2 | 694.3 | 697.3 | 700.2 | 703.3 | 706.2 |
| 47.5°  | 643.0 | 652.6 | 662.3 | 668.7 | 672.0 | 675.3 | 678.5 | 681.9 |
| 50°    | 624.6 | 634.7 | 644.9 | 651.6 | 654.8 | 658.1 | 661.4 | 664.7 |
| 52.5°  | 604.7 | 615.1 | 625.4 | 632.4 | 635.9 | 639.4 | 642.9 | 646.4 |
| 55°    | 574.9 | 585.6 | 596.3 | 603.6 | 607.4 | 611.4 | 615.2 | 619.0 |
| 57.5°  | 543.3 | 554.8 | 566.4 | 574.2 | 578.0 | 582.0 | 585.9 | 589.9 |
| 60°    | 522.5 | 533.8 | 545.1 | 552.8 | 557.0 | 561.2 | 565.3 | 569.6 |
| 62.5°  | 500.3 | 512.3 | 524.3 | 532.4 | 536.2 | 540.2 | 544.1 | 548.1 |
| 65°    | 466.7 | 478.9 | 491.1 | 499.1 | 502.9 | 506.9 | 510.7 | 514.5 |
| 67.5°  | 432.5 | 444.8 | 457.3 | 465.4 | 469.5 | 473.5 | 477.6 | 481.6 |
| 70°    | 408.9 | 421.6 | 434.4 | 442.6 | 446.3 | 449.8 | 453.4 | 457.0 |
| 72.5°  | 385.9 | 398.4 | 411.0 | 419.4 | 423.7 | 428.0 | 432.3 | 436.6 |
| 75°    | 351.2 | 364.1 | 376.9 | 385.2 | 389.1 | 392.9 | 396.8 | 400.7 |
| 77.5°  | 317.4 | 330.1 | 342.8 | 351.3 | 355.5 | 359.6 | 363.9 | 368.0 |
| 80°    | 294.4 | 306.9 | 319.4 | 327.7 | 331.8 | 336.1 | 340.2 | 344.4 |
| 82.5°  | 273.0 | 285.4 | 297.9 | 306.2 | 310.1 | 314.0 | 317.9 | 321.8 |
| 85°    | 242.1 | 254.6 | 267.1 | 275.5 | 279.6 | 283.8 | 287.9 | 292.2 |
| 87.5°  | 222.6 | 235.0 | 247.5 | 255.7 | 259.6 | 263.6 | 267.5 | 271.5 |
| 90°    | 232.7 | 246.1 | 259.6 | 268.5 | 272.7 | 276.9 | 281.1 | 285.4 |
| 92.5°  | 225.6 | 238.0 | 250.5 | 258.8 | 262.8 | 266.7 | 270.6 | 274.6 |
| 95°    | 235.9 | 248.8 | 261.8 | 269.8 | 273.1 | 276.4 | 279.6 | 282.9 |
| 97.5°  | 242.2 | 254.5 | 266.7 | 274.8 | 278.7 | 282.7 | 286.5 | 290.4 |
| 100°   | 243.0 | 256.6 | 270.1 | 278.9 | 282.9 | 286.7 | 290.6 | 294.6 |
| 102.5° | 238.8 | 253.0 | 267.1 | 276.2 | 280.3 | 284.6 | 288.7 | 292.9 |
| 105°   | 230.8 | 244.7 | 258.6 | 267.8 | 272.4 | 276.9 | 281.4 | 286.0 |
| 107.5° | 239.7 | 246.2 | 252.7 | 258.1 | 262.7 | 267.2 | 271.8 | 276.3 |
| 110°   | 304.4 | 282.1 | 259.6 | 250.7 | 255.3 | 259.8 | 264.4 | 268.9 |





TEST NUMBER: P331581-840

CATALOG NUMBER: S122DIW-S865D1440U840-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 510.5  | 403.5  | 296.7  | 245.4  | 249.6  | 254.0  | 258.2  | 262.6  |
| 115°   | 688.9  | 550.1  | 411.2  | 331.9  | 312.3  | 292.6  | 272.9  | 253.1  |
| 117.5° | 997.1  | 970.2  | 943.2  | 893.5  | 821.0  | 748.6  | 676.1  | 603.6  |
| 120°   | 1140.1 | 1152.3 | 1164.5 | 1150.6 | 1110.9 | 1071.0 | 1031.2 | 991.4  |
| 122.5° | 1197.9 | 1208.3 | 1218.7 | 1221.1 | 1215.6 | 1210.0 | 1204.5 | 1198.9 |
| 125°   | 1279.8 | 1290.0 | 1300.3 | 1307.3 | 1310.9 | 1314.5 | 1318.2 | 1321.8 |
| 127.5° | 1354.7 | 1365.3 | 1376.0 | 1382.7 | 1385.5 | 1388.4 | 1391.2 | 1394.0 |
| 130°   | 1402.3 | 1413.0 | 1423.6 | 1430.0 | 1432.1 | 1434.1 | 1436.2 | 1438.2 |
| 132.5° | 1448.4 | 1458.3 | 1468.2 | 1474.2 | 1476.2 | 1478.3 | 1480.4 | 1482.5 |
| 135°   | 1514.4 | 1523.9 | 1533.3 | 1538.9 | 1540.7 | 1542.4 | 1544.2 | 1545.9 |
| 137.5° | 1575.4 | 1584.0 | 1592.6 | 1597.3 | 1598.3 | 1599.2 | 1600.1 | 1601.1 |
| 140°   | 1615.1 | 1622.8 | 1630.3 | 1634.3 | 1634.5 | 1634.7 | 1634.9 | 1635.1 |
| 142.5° | 1653.0 | 1659.5 | 1665.9 | 1669.1 | 1669.0 | 1669.0 | 1668.9 | 1668.9 |
| 145°   | 1707.2 | 1711.2 | 1715.2 | 1717.2 | 1717.1 | 1717.0 | 1716.9 | 1716.7 |
| 147.5° | 1755.1 | 1757.1 | 1759.0 | 1759.6 | 1759.0 | 1758.4 | 1757.8 | 1757.1 |
| 150°   | 1786.2 | 1788.2 | 1790.1 | 1790.2 | 1788.7 | 1787.1 | 1785.4 | 1783.8 |
| 152.5° | 1814.9 | 1816.8 | 1818.8 | 1818.7 | 1816.5 | 1814.5 | 1812.4 | 1810.3 |
| 155°   | 1853.7 | 1855.6 | 1857.5 | 1857.2 | 1854.7 | 1852.2 | 1849.6 | 1847.0 |
| 157.5° | 1886.4 | 1888.5 | 1890.8 | 1890.6 | 1888.1 | 1885.6 | 1883.1 | 1880.7 |
| 160°   | 1905.4 | 1907.3 | 1909.3 | 1909.1 | 1906.9 | 1904.6 | 1902.4 | 1900.2 |
| 162.5° | 1923.2 | 1925.4 | 1927.5 | 1927.2 | 1924.5 | 1921.8 | 1919.0 | 1916.3 |
| 165°   | 1944.9 | 1947.1 | 1949.3 | 1949.3 | 1947.1 | 1944.9 | 1942.7 | 1940.4 |
| 167.5° | 1963.0 | 1965.2 | 1967.4 | 1967.1 | 1964.3 | 1961.4 | 1958.5 | 1955.6 |
| 170°   | 1972.2 | 1974.4 | 1976.6 | 1976.3 | 1973.5 | 1970.5 | 1967.7 | 1964.8 |
| 172.5° | 1979.0 | 1981.3 | 1983.5 | 1983.2 | 1980.3 | 1977.4 | 1974.6 | 1971.7 |
| 175°   | 1986.5 | 1988.7 | 1990.9 | 1990.5 | 1987.3 | 1984.1 | 1981.0 | 1977.7 |
| 177.5° | 1987.3 | 1989.1 | 1990.9 | 1990.6 | 1988.3 | 1986.1 | 1983.8 | 1981.5 |
| 180°   | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 | 1984.9 |

(END OF REPORT)