

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: P331548-935

Luminaire Tested: **S122DIW-S675D1240U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331548-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S675D1240U935-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6030.1 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

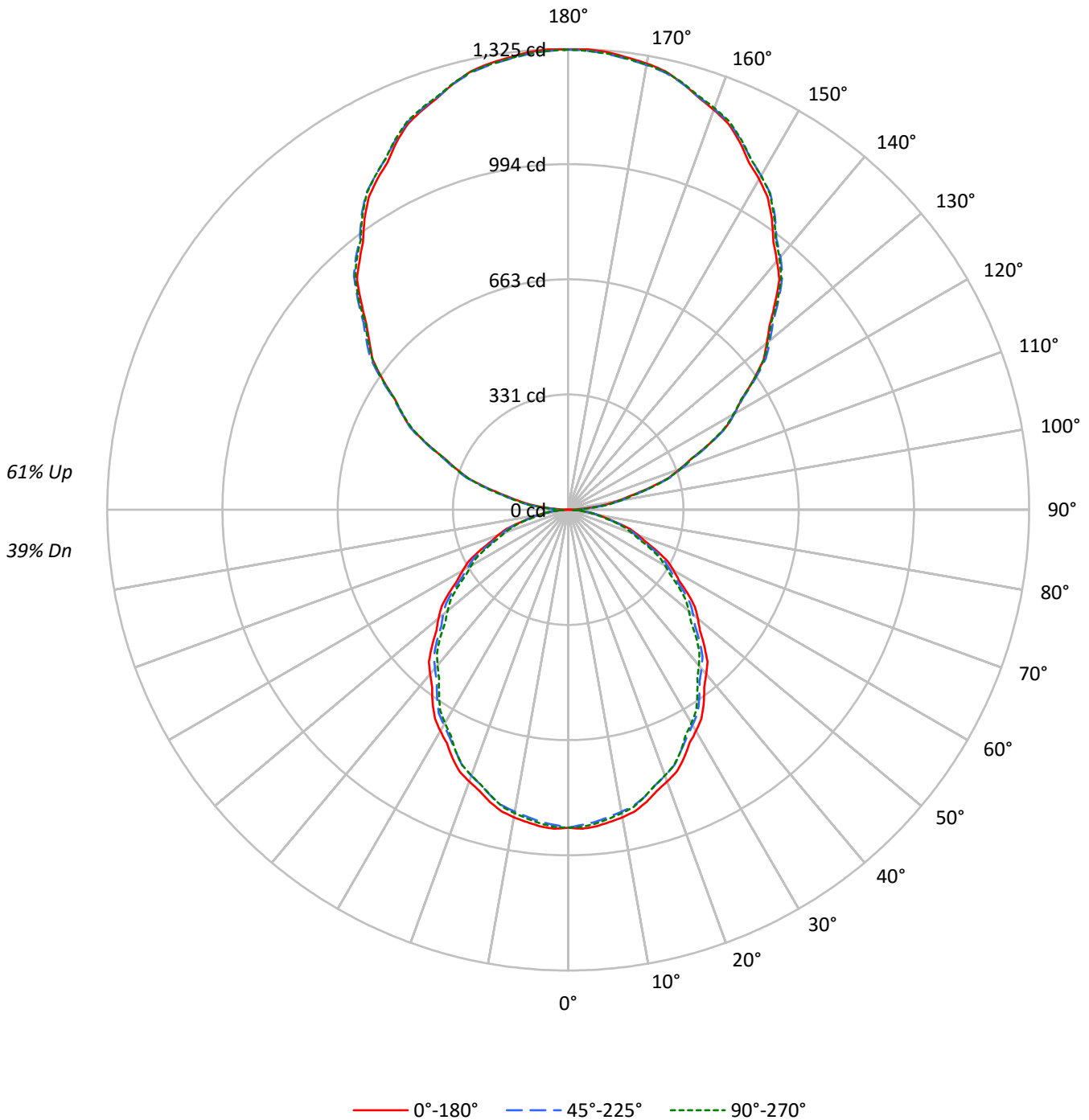
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331548-935

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### Luminous Intensity Polar Plot





TEST NUMBER: P331548-935

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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 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |
| 1   | 95  | 91  | 87  | 84  | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 39 | 33 |
| 2   | 87  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 44 | 42 | 35 | 34 | 32 | 27 |
| 3   | 79  | 70  | 63  | 57  | 72 | 64 | 57 | 52 | 52 | 48 | 44 | 41 | 38 | 36 | 31 | 29 | 28 | 23 |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 50 | 44 | 46 | 41 | 37 | 37 | 33 | 30 | 28 | 26 | 24 | 20 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 23 | 21 | 17 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |
| 7   | 56  | 44  | 36  | 31  | 51 | 41 | 34 | 29 | 34 | 28 | 25 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |
| 8   | 52  | 40  | 33  | 27  | 47 | 37 | 30 | 25 | 31 | 25 | 22 | 25 | 21 | 18 | 19 | 17 | 14 | 12 |
| 9   | 49  | 37  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 17 | 21 | 17 | 15 | 16 | 14 | 12 | 10 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14759 | 14759 | 14759 |
| 5°  | 14815 | 14603 | 14687 |
| 10° | 14728 | 14454 | 14526 |
| 15° | 14544 | 14265 | 14252 |
| 20° | 14287 | 13984 | 13969 |
| 25° | 14031 | 13639 | 13639 |
| 30° | 13699 | 13323 | 13207 |
| 35° | 13391 | 12942 | 12751 |
| 40° | 13004 | 12560 | 12319 |
| 45° | 12622 | 12184 | 11880 |
| 50° | 12208 | 11788 | 11369 |
| 55° | 11778 | 11333 | 10911 |
| 60° | 11296 | 10785 | 10388 |
| 65° | 10777 | 10243 | 9773  |
| 70° | 10126 | 9583  | 9130  |
| 75° | 9214  | 8827  | 8609  |
| 80° | 8173  | 7922  | 7513  |
| 85° | 6688  | 6354  | 5687  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.0   | 1.4       |
| 10°-20°   | 241.9  | 4.0       |
| 20°-30°   | 355.5  | 5.9       |
| 30°-40°   | 412.9  | 6.8       |
| 40°-50°   | 412.5  | 6.8       |
| 50°-60°   | 359.7  | 6.0       |
| 60°-70°   | 266.0  | 4.4       |
| 70°-80°   | 150.6  | 2.5       |
| 80°-90°   | 45.8   | 0.8       |
| 90°-100°  | 83.8   | 1.4       |
| 100°-110° | 260.4  | 4.3       |
| 110°-120° | 445.0  | 7.4       |
| 120°-130° | 585.3  | 9.7       |
| 130°-140° | 656.9  | 10.9      |
| 140°-150° | 644.1  | 10.7      |
| 150°-160° | 540.2  | 9.0       |
| 160°-170° | 358.3  | 5.9       |
| 170°-180° | 125.2  | 2.1       |
| 0°-30°    | 683.3  | 11.3      |
| 0°-40°    | 1096.3 | 18.2      |
| 0°-60°    | 1868.5 | 31.0      |
| 0°-90°    | 2330.9 | 38.7      |
| 90°-120°  | 789.2  | 13.1      |
| 90°-150°  | 2675.4 | 44.4      |
| 90°-180°  | 3699.0 | 61.3      |
| 0°-180°   | 6030.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 914  | 914   | 914  | 914   | 914  |      |
| 5°   | 914  | 910   | 901  | 907   | 906  | 87   |
| 15°  | 870  | 865   | 853  | 857   | 853  | 245  |
| 25°  | 788  | 780   | 766  | 767   | 766  | 362  |
| 35°  | 679  | 670   | 657  | 651   | 647  | 424  |
| 45°  | 553  | 546   | 534  | 524   | 520  | 426  |
| 55°  | 418  | 413   | 403  | 392   | 388  | 374  |
| 65°  | 282  | 277   | 268  | 260   | 256  | 279  |
| 75°  | 148  | 146   | 142  | 137   | 138  | 158  |
| 85°  | 36   | 35    | 34   | 32    | 31   | 41   |
| 90°  | 1    | 15    | 39   | 37    | 38   | 5    |
| 95°  | 58   | 69    | 72   | 71    | 69   | 67   |
| 105° | 240  | 243   | 246  | 248   | 248  | 253  |
| 115° | 447  | 453   | 451  | 450   | 447  | 442  |
| 125° | 650  | 659   | 656  | 653   | 652  | 580  |
| 135° | 841  | 852   | 855  | 854   | 851  | 649  |
| 145° | 1020 | 1028  | 1035 | 1036  | 1032 | 637  |
| 155° | 1167 | 1170  | 1173 | 1178  | 1176 | 537  |
| 165° | 1269 | 1268  | 1268 | 1275  | 1270 | 358  |
| 175° | 1321 | 1318  | 1315 | 1322  | 1316 | 125  |
| 180° | 1323 | 1323  | 1323 | 1323  | 1323 |      |



TEST NUMBER: P331548-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 |
| 2.5°   | 918.3 | 917.6 | 916.8 | 916.0 | 915.2 | 914.0 | 912.2 | 910.5 | 908.8 | 907.1 | 908.6 |
| 5°     | 914.1 | 913.3 | 912.6 | 911.8 | 911.0 | 909.6 | 907.4 | 905.3 | 903.1 | 901.0 | 902.5 |
| 7.5°   | 906.0 | 904.8 | 903.6 | 902.4 | 901.2 | 899.5 | 897.3 | 895.1 | 892.9 | 890.7 | 892.3 |
| 10°    | 898.3 | 896.9 | 895.5 | 894.1 | 892.9 | 891.0 | 888.6 | 886.3 | 883.9 | 881.6 | 883.1 |
| 12.5°  | 887.8 | 886.6 | 885.3 | 884.1 | 882.9 | 881.1 | 878.7 | 876.4 | 874.1 | 871.8 | 872.9 |
| 15°    | 870.1 | 869.0 | 867.8 | 866.7 | 865.5 | 863.6 | 861.1 | 858.5 | 856.0 | 853.4 | 854.3 |
| 17.5°  | 847.7 | 846.4 | 845.3 | 844.1 | 843.0 | 841.1 | 838.5 | 835.9 | 833.4 | 830.8 | 831.7 |
| 20°    | 831.5 | 830.3 | 829.1 | 827.9 | 826.8 | 824.8 | 822.1 | 819.4 | 816.7 | 813.9 | 814.5 |
| 22.5°  | 815.3 | 813.6 | 812.0 | 810.4 | 808.7 | 806.7 | 804.1 | 801.5 | 798.9 | 796.3 | 796.4 |
| 25°    | 787.6 | 786.0 | 784.5 | 782.8 | 781.3 | 778.9 | 775.5 | 772.2 | 768.9 | 765.6 | 765.9 |
| 27.5°  | 755.9 | 754.5 | 753.1 | 751.7 | 750.3 | 748.3 | 745.6 | 743.0 | 740.4 | 737.8 | 737.2 |
| 30°    | 734.8 | 733.2 | 731.7 | 730.1 | 728.6 | 726.3 | 723.4 | 720.5 | 717.6 | 714.6 | 714.0 |
| 32.5°  | 712.3 | 711.0 | 709.8 | 708.5 | 707.3 | 705.2 | 702.1 | 699.0 | 695.9 | 692.8 | 691.7 |
| 35°    | 679.4 | 677.5 | 675.5 | 673.6 | 671.6 | 669.1 | 666.0 | 662.8 | 659.7 | 656.6 | 655.4 |
| 37.5°  | 642.3 | 640.6 | 638.9 | 637.1 | 635.5 | 633.0 | 629.9 | 626.8 | 623.7 | 620.5 | 619.1 |
| 40°    | 617.0 | 615.4 | 613.9 | 612.3 | 610.8 | 608.5 | 605.3 | 602.2 | 599.1 | 595.9 | 594.2 |
| 42.5°  | 592.5 | 590.8 | 589.3 | 587.7 | 586.2 | 583.8 | 580.7 | 577.6 | 574.5 | 571.4 | 569.4 |
| 45°    | 552.8 | 551.5 | 550.1 | 548.8 | 547.4 | 545.3 | 542.3 | 539.4 | 536.5 | 533.6 | 531.4 |
| 47.5°  | 513.5 | 512.2 | 510.9 | 509.6 | 508.3 | 506.2 | 503.1 | 500.1 | 497.1 | 494.0 | 491.7 |
| 50°    | 486.0 | 485.1 | 484.1 | 483.1 | 482.2 | 480.3 | 477.6 | 474.8 | 472.1 | 469.3 | 466.7 |
| 52.5°  | 459.3 | 458.1 | 456.8 | 455.5 | 454.2 | 452.3 | 449.7 | 447.1 | 444.5 | 442.0 | 439.7 |
| 55°    | 418.4 | 417.2 | 416.0 | 414.8 | 413.7 | 411.9 | 409.6 | 407.3 | 404.9 | 402.6 | 400.2 |
| 57.5°  | 377.2 | 376.3 | 375.4 | 374.4 | 373.5 | 371.8 | 369.2 | 366.6 | 364.0 | 361.4 | 359.1 |
| 60°    | 349.8 | 349.0 | 348.3 | 347.5 | 346.7 | 344.9 | 342.2 | 339.5 | 336.7 | 334.0 | 331.8 |
| 62.5°  | 323.1 | 321.8 | 320.6 | 319.3 | 318.1 | 316.4 | 314.4 | 312.2 | 310.1 | 308.0 | 306.0 |
| 65°    | 282.1 | 280.9 | 279.8 | 278.6 | 277.4 | 275.9 | 274.0 | 272.0 | 270.0 | 268.1 | 266.3 |
| 67.5°  | 240.5 | 239.5 | 238.6 | 237.6 | 236.7 | 235.4 | 233.6 | 231.9 | 230.1 | 228.3 | 227.0 |
| 70°    | 214.5 | 213.7 | 212.9 | 212.2 | 211.4 | 210.1 | 208.3 | 206.6 | 204.8 | 203.0 | 201.6 |
| 72.5°  | 187.8 | 186.9 | 186.1 | 185.4 | 184.6 | 183.7 | 182.5 | 181.4 | 180.3 | 179.1 | 177.8 |
| 75°    | 147.7 | 147.2 | 146.9 | 146.5 | 146.1 | 145.4 | 144.5 | 143.4 | 142.5 | 141.5 | 140.3 |
| 77.5°  | 111.8 | 111.2 | 110.5 | 109.8 | 109.2 | 108.7 | 108.2 | 107.8 | 107.5 | 107.0 | 106.5 |
| 80°    | 87.9  | 87.7  | 87.5  | 87.3  | 87.1  | 86.8  | 86.4  | 86.0  | 85.7  | 85.2  | 84.6  |
| 82.5°  | 65.4  | 65.3  | 65.3  | 65.3  | 65.3  | 65.1  | 64.8  | 64.7  | 64.4  | 64.1  | 63.5  |
| 85°    | 36.1  | 35.8  | 35.6  | 35.5  | 35.2  | 35.0  | 34.9  | 34.7  | 34.4  | 34.3  | 33.7  |
| 87.5°  | 12.9  | 13.2  | 13.4  | 13.7  | 14.0  | 14.6  | 15.3  | 16.1  | 16.9  | 17.7  | 17.1  |
| 90°    | 1.1   | 4.1   | 7.1   | 10.1  | 13.0  | 17.2  | 22.7  | 28.2  | 33.6  | 39.1  | 38.6  |
| 92.5°  | 19.9  | 22.0  | 24.3  | 26.4  | 28.6  | 30.3  | 31.6  | 32.9  | 34.2  | 35.5  | 35.6  |
| 95°    | 58.0  | 60.5  | 63.0  | 65.5  | 68.0  | 69.5  | 70.0  | 70.4  | 70.9  | 71.5  | 71.5  |
| 97.5°  | 106.1 | 108.2 | 110.5 | 112.6 | 114.8 | 116.3 | 117.3 | 118.2 | 119.2 | 120.1 | 120.1 |
| 100°   | 141.8 | 143.8 | 145.8 | 147.7 | 149.7 | 151.1 | 151.8 | 152.6 | 153.3 | 154.0 | 154.0 |
| 102.5° | 179.3 | 180.9 | 182.4 | 184.1 | 185.6 | 186.9 | 187.9 | 188.8 | 189.8 | 190.7 | 190.9 |
| 105°   | 240.0 | 240.7 | 241.5 | 242.3 | 243.0 | 243.7 | 244.1 | 244.6 | 245.1 | 245.6 | 246.1 |
| 107.5° | 301.2 | 302.3 | 303.4 | 304.4 | 305.6 | 306.1 | 306.1 | 306.1 | 306.1 | 306.1 | 306.3 |
| 110°   | 340.5 | 342.0 | 343.5 | 345.0 | 346.5 | 347.2 | 347.2 | 347.2 | 347.2 | 347.2 | 347.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 383.4  | 384.9  | 386.3  | 387.9  | 389.3  | 389.9  | 389.8  | 389.6  | 389.3  | 389.2  | 388.6  |
| 115°   | 446.6  | 448.1  | 449.5  | 451.0  | 452.5  | 453.0  | 452.5  | 452.0  | 451.5  | 451.0  | 450.8  |
| 117.5° | 509.5  | 511.5  | 513.5  | 515.5  | 517.5  | 517.8  | 516.3  | 515.0  | 513.6  | 512.2  | 511.6  |
| 120°   | 551.5  | 553.5  | 555.5  | 557.5  | 559.5  | 559.5  | 557.5  | 555.5  | 553.5  | 551.5  | 551.5  |
| 122.5° | 589.9  | 592.3  | 594.7  | 597.0  | 599.4  | 599.9  | 598.6  | 597.2  | 595.7  | 594.3  | 593.7  |
| 125°   | 649.7  | 651.9  | 654.2  | 656.4  | 658.7  | 659.4  | 658.7  | 658.0  | 657.2  | 656.4  | 655.7  |
| 127.5° | 708.0  | 710.8  | 713.7  | 716.5  | 719.4  | 720.3  | 719.5  | 718.5  | 717.6  | 716.7  | 715.8  |
| 130°   | 744.7  | 747.9  | 751.1  | 754.3  | 757.5  | 758.9  | 758.5  | 757.9  | 757.4  | 756.9  | 756.4  |
| 132.5° | 785.7  | 788.3  | 791.0  | 793.6  | 796.3  | 797.6  | 797.7  | 797.8  | 797.9  | 798.0  | 796.9  |
| 135°   | 840.7  | 843.3  | 846.1  | 848.9  | 851.6  | 853.2  | 853.7  | 854.2  | 854.7  | 855.1  | 854.9  |
| 137.5° | 898.5  | 900.7  | 902.9  | 905.2  | 907.4  | 908.9  | 909.5  | 910.2  | 910.8  | 911.5  | 911.3  |
| 140°   | 933.3  | 935.6  | 937.8  | 940.0  | 942.3  | 944.0  | 945.2  | 946.5  | 947.7  | 948.9  | 948.9  |
| 142.5° | 969.1  | 971.3  | 973.5  | 975.8  | 978.0  | 979.5  | 980.3  | 981.2  | 982.1  | 982.9  | 983.1  |
| 145°   | 1020.4 | 1022.2 | 1023.9 | 1025.6 | 1027.3 | 1029.0 | 1030.4 | 1031.9 | 1033.5 | 1034.9 | 1035.2 |
| 147.5° | 1066.2 | 1068.2 | 1070.3 | 1072.5 | 1074.5 | 1076.1 | 1077.0 | 1078.1 | 1079.0 | 1080.0 | 1080.6 |
| 150°   | 1097.4 | 1098.9 | 1100.4 | 1101.9 | 1103.4 | 1104.7 | 1105.6 | 1106.6 | 1107.6 | 1108.6 | 1109.3 |
| 152.5° | 1125.2 | 1126.6 | 1128.1 | 1129.5 | 1131.1 | 1132.4 | 1133.6 | 1134.8 | 1136.0 | 1137.2 | 1138.2 |
| 155°   | 1166.7 | 1167.4 | 1168.1 | 1168.9 | 1169.7 | 1170.4 | 1171.1 | 1171.8 | 1172.6 | 1173.4 | 1174.6 |
| 157.5° | 1202.1 | 1202.6 | 1203.2 | 1203.7 | 1204.1 | 1204.6 | 1205.1 | 1205.5 | 1205.9 | 1206.4 | 1208.1 |
| 160°   | 1223.6 | 1224.1 | 1224.6 | 1225.1 | 1225.5 | 1226.0 | 1226.2 | 1226.4 | 1226.7 | 1226.9 | 1228.4 |
| 162.5° | 1243.2 | 1243.4 | 1243.5 | 1243.5 | 1243.6 | 1243.8 | 1244.1 | 1244.3 | 1244.6 | 1244.8 | 1246.5 |
| 165°   | 1269.4 | 1269.1 | 1268.9 | 1268.6 | 1268.3 | 1268.3 | 1268.3 | 1268.3 | 1268.3 | 1268.3 | 1270.0 |
| 167.5° | 1291.2 | 1290.5 | 1289.8 | 1289.0 | 1288.2 | 1287.9 | 1287.8 | 1287.8 | 1287.7 | 1287.6 | 1289.4 |
| 170°   | 1302.9 | 1302.1 | 1301.4 | 1300.6 | 1299.9 | 1299.4 | 1299.2 | 1298.9 | 1298.6 | 1298.4 | 1300.1 |
| 172.5° | 1310.9 | 1310.2 | 1309.4 | 1308.6 | 1307.9 | 1307.4 | 1307.2 | 1306.9 | 1306.7 | 1306.4 | 1308.2 |
| 175°   | 1320.7 | 1320.0 | 1319.2 | 1318.4 | 1317.8 | 1317.2 | 1316.6 | 1316.1 | 1315.6 | 1315.1 | 1316.9 |
| 177.5° | 1324.7 | 1324.1 | 1323.5 | 1322.9 | 1322.3 | 1321.9 | 1321.5 | 1321.0 | 1320.7 | 1320.3 | 1321.5 |
| 180°   | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 |
| 2.5°   | 910.2 | 911.8 | 913.3 | 914.0 | 913.6 | 913.3 | 913.0 | 912.7 |
| 5°     | 904.0 | 905.6 | 907.1 | 907.8 | 907.4 | 907.0 | 906.6 | 906.2 |
| 7.5°   | 893.9 | 895.4 | 897.0 | 897.5 | 897.1 | 896.7 | 896.3 | 895.9 |
| 10°    | 884.7 | 886.3 | 887.9 | 888.3 | 887.8 | 887.2 | 886.6 | 886.0 |
| 12.5°  | 873.9 | 875.0 | 876.2 | 876.4 | 876.0 | 875.6 | 875.2 | 874.8 |
| 15°    | 855.1 | 855.8 | 856.6 | 856.5 | 855.5 | 854.5 | 853.6 | 852.6 |
| 17.5°  | 832.6 | 833.4 | 834.4 | 834.4 | 833.4 | 832.5 | 831.6 | 830.6 |
| 20°    | 815.1 | 815.7 | 816.2 | 816.1 | 815.4 | 814.6 | 813.8 | 813.0 |
| 22.5°  | 796.6 | 796.7 | 796.8 | 796.6 | 796.2 | 795.7 | 795.2 | 794.8 |
| 25°    | 766.4 | 766.7 | 767.2 | 767.2 | 766.7 | 766.4 | 765.9 | 765.6 |
| 27.5°  | 736.6 | 736.1 | 735.5 | 734.7 | 733.7 | 732.8 | 731.8 | 730.9 |
| 30°    | 713.4 | 712.8 | 712.2 | 711.5 | 710.8 | 710.0 | 709.2 | 708.4 |
| 32.5°  | 690.7 | 689.7 | 688.5 | 687.7 | 686.9 | 686.1 | 685.3 | 684.5 |
| 35°    | 654.3 | 653.1 | 651.9 | 650.8 | 649.9 | 648.8 | 647.9 | 646.9 |
| 37.5°  | 617.7 | 616.2 | 614.8 | 613.5 | 612.6 | 611.7 | 610.8 | 609.8 |
| 40°    | 592.5 | 590.6 | 588.9 | 587.6 | 586.9 | 586.1 | 585.3 | 584.5 |
| 42.5°  | 567.5 | 565.6 | 563.7 | 562.1 | 561.0 | 560.0 | 558.9 | 557.8 |
| 45°    | 529.3 | 527.1 | 525.0 | 523.5 | 522.7 | 521.9 | 521.2 | 520.3 |
| 47.5°  | 489.5 | 487.2 | 484.9 | 483.2 | 482.1 | 481.0 | 479.8 | 478.7 |
| 50°    | 463.9 | 461.2 | 458.4 | 456.6 | 455.6 | 454.6 | 453.7 | 452.6 |
| 52.5°  | 437.4 | 435.1 | 432.9 | 431.1 | 429.8 | 428.5 | 427.2 | 425.9 |
| 55°    | 397.9 | 395.5 | 393.2 | 391.5 | 390.5 | 389.6 | 388.6 | 387.6 |
| 57.5°  | 356.8 | 354.5 | 352.2 | 350.7 | 349.9 | 349.2 | 348.4 | 347.7 |
| 60°    | 329.7 | 327.5 | 325.4 | 324.1 | 323.5 | 322.9 | 322.3 | 321.7 |
| 62.5°  | 304.0 | 302.0 | 300.1 | 298.7 | 297.9 | 297.1 | 296.4 | 295.7 |
| 65°    | 264.6 | 262.8 | 261.1 | 259.7 | 258.7 | 257.7 | 256.8 | 255.8 |
| 67.5°  | 225.6 | 224.3 | 222.9 | 221.8 | 221.0 | 220.2 | 219.5 | 218.7 |
| 70°    | 200.3 | 199.0 | 197.6 | 196.5 | 195.7 | 194.9 | 194.2 | 193.4 |
| 72.5°  | 176.4 | 175.0 | 173.7 | 172.6 | 172.0 | 171.4 | 170.8 | 170.1 |
| 75°    | 139.1 | 138.0 | 136.8 | 136.5 | 136.8 | 137.2 | 137.6 | 138.0 |
| 77.5°  | 105.9 | 105.3 | 104.7 | 104.2 | 103.6 | 103.1 | 102.5 | 101.9 |
| 80°    | 84.1  | 83.5  | 82.9  | 82.4  | 82.1  | 81.6  | 81.3  | 80.8  |
| 82.5°  | 62.7  | 61.9  | 61.2  | 60.8  | 60.7  | 60.6  | 60.5  | 60.4  |
| 85°    | 33.1  | 32.5  | 31.9  | 31.5  | 31.3  | 31.2  | 31.0  | 30.7  |
| 87.5°  | 16.5  | 15.9  | 15.4  | 15.1  | 15.0  | 14.8  | 14.7  | 14.6  |
| 90°    | 38.1  | 37.6  | 37.1  | 36.9  | 37.2  | 37.5  | 37.7  | 38.0  |
| 92.5°  | 35.7  | 35.8  | 35.9  | 36.0  | 36.0  | 36.1  | 36.2  | 36.2  |
| 95°    | 71.5  | 71.5  | 71.5  | 71.2  | 70.7  | 70.2  | 69.7  | 69.2  |
| 97.5°  | 120.1 | 120.1 | 120.1 | 120.1 | 120.0 | 120.0 | 119.9 | 119.9 |
| 100°   | 154.0 | 154.0 | 154.0 | 153.9 | 153.7 | 153.4 | 153.2 | 152.9 |
| 102.5° | 191.1 | 191.3 | 191.5 | 191.5 | 191.2 | 191.0 | 190.7 | 190.5 |
| 105°   | 246.6 | 247.1 | 247.6 | 247.9 | 247.9 | 247.9 | 247.9 | 247.9 |
| 107.5° | 306.5 | 306.7 | 306.9 | 306.4 | 305.3 | 304.2 | 303.0 | 301.9 |
| 110°   | 347.2 | 347.2 | 347.2 | 346.8 | 346.1 | 345.3 | 344.6 | 343.9 |





TEST NUMBER: P331548-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 388.0  | 387.4  | 386.8  | 386.2  | 385.6  | 385.1  | 384.6  | 384.0  |
| 115°   | 450.6  | 450.3  | 450.0  | 449.5  | 448.8  | 448.1  | 447.3  | 446.6  |
| 117.5° | 511.0  | 510.4  | 509.8  | 509.2  | 508.4  | 507.6  | 507.0  | 506.2  |
| 120°   | 551.5  | 551.5  | 551.5  | 551.1  | 550.4  | 549.7  | 548.9  | 548.2  |
| 122.5° | 593.2  | 592.6  | 592.0  | 591.4  | 590.9  | 590.3  | 589.8  | 589.3  |
| 125°   | 655.0  | 654.2  | 653.5  | 653.0  | 652.7  | 652.5  | 652.2  | 651.9  |
| 127.5° | 715.0  | 714.0  | 713.2  | 712.3  | 711.5  | 710.8  | 710.0  | 709.1  |
| 130°   | 756.0  | 755.4  | 754.9  | 754.2  | 753.2  | 752.3  | 751.2  | 750.2  |
| 132.5° | 795.8  | 794.7  | 793.7  | 792.7  | 791.9  | 791.1  | 790.3  | 789.5  |
| 135°   | 854.7  | 854.5  | 854.2  | 853.7  | 852.9  | 852.2  | 851.4  | 850.7  |
| 137.5° | 911.0  | 910.9  | 910.7  | 910.1  | 909.0  | 908.1  | 907.1  | 906.1  |
| 140°   | 948.9  | 948.9  | 948.9  | 948.5  | 947.4  | 946.5  | 945.5  | 944.5  |
| 142.5° | 983.3  | 983.5  | 983.7  | 983.3  | 982.3  | 981.3  | 980.3  | 979.3  |
| 145°   | 1035.4 | 1035.7 | 1035.9 | 1035.5 | 1034.6 | 1033.5 | 1032.6 | 1031.6 |
| 147.5° | 1081.1 | 1081.7 | 1082.2 | 1082.0 | 1081.1 | 1080.1 | 1079.2 | 1078.2 |
| 150°   | 1110.1 | 1110.9 | 1111.6 | 1111.6 | 1110.9 | 1110.1 | 1109.3 | 1108.6 |
| 152.5° | 1139.1 | 1140.0 | 1140.9 | 1140.9 | 1140.0 | 1139.1 | 1138.2 | 1137.2 |
| 155°   | 1175.9 | 1177.1 | 1178.3 | 1178.5 | 1177.8 | 1177.1 | 1176.3 | 1175.6 |
| 157.5° | 1209.8 | 1211.4 | 1213.1 | 1213.4 | 1212.2 | 1211.0 | 1209.8 | 1208.6 |
| 160°   | 1229.9 | 1231.4 | 1232.9 | 1233.1 | 1232.2 | 1231.1 | 1230.2 | 1229.2 |
| 162.5° | 1248.2 | 1249.8 | 1251.5 | 1251.8 | 1250.6 | 1249.4 | 1248.2 | 1247.1 |
| 165°   | 1271.7 | 1273.4 | 1275.2 | 1275.4 | 1274.2 | 1273.0 | 1271.7 | 1270.5 |
| 167.5° | 1291.2 | 1292.9 | 1294.6 | 1294.9 | 1293.6 | 1292.3 | 1291.0 | 1289.7 |
| 170°   | 1301.8 | 1303.6 | 1305.4 | 1305.4 | 1304.0 | 1302.5 | 1301.0 | 1299.5 |
| 172.5° | 1309.9 | 1311.6 | 1313.4 | 1313.5 | 1312.0 | 1310.5 | 1309.1 | 1307.5 |
| 175°   | 1318.6 | 1320.3 | 1322.1 | 1322.2 | 1320.7 | 1319.2 | 1317.8 | 1316.2 |
| 177.5° | 1322.7 | 1323.9 | 1325.0 | 1325.0 | 1323.9 | 1322.7 | 1321.5 | 1320.3 |
| 180°   | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 | 1322.9 |

(END OF REPORT)