

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: P332844-930

Luminaire Tested: **S124DIW-S1195D770U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332844-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S1195D770U930-4F0-1E-UDD-D1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6136.1 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

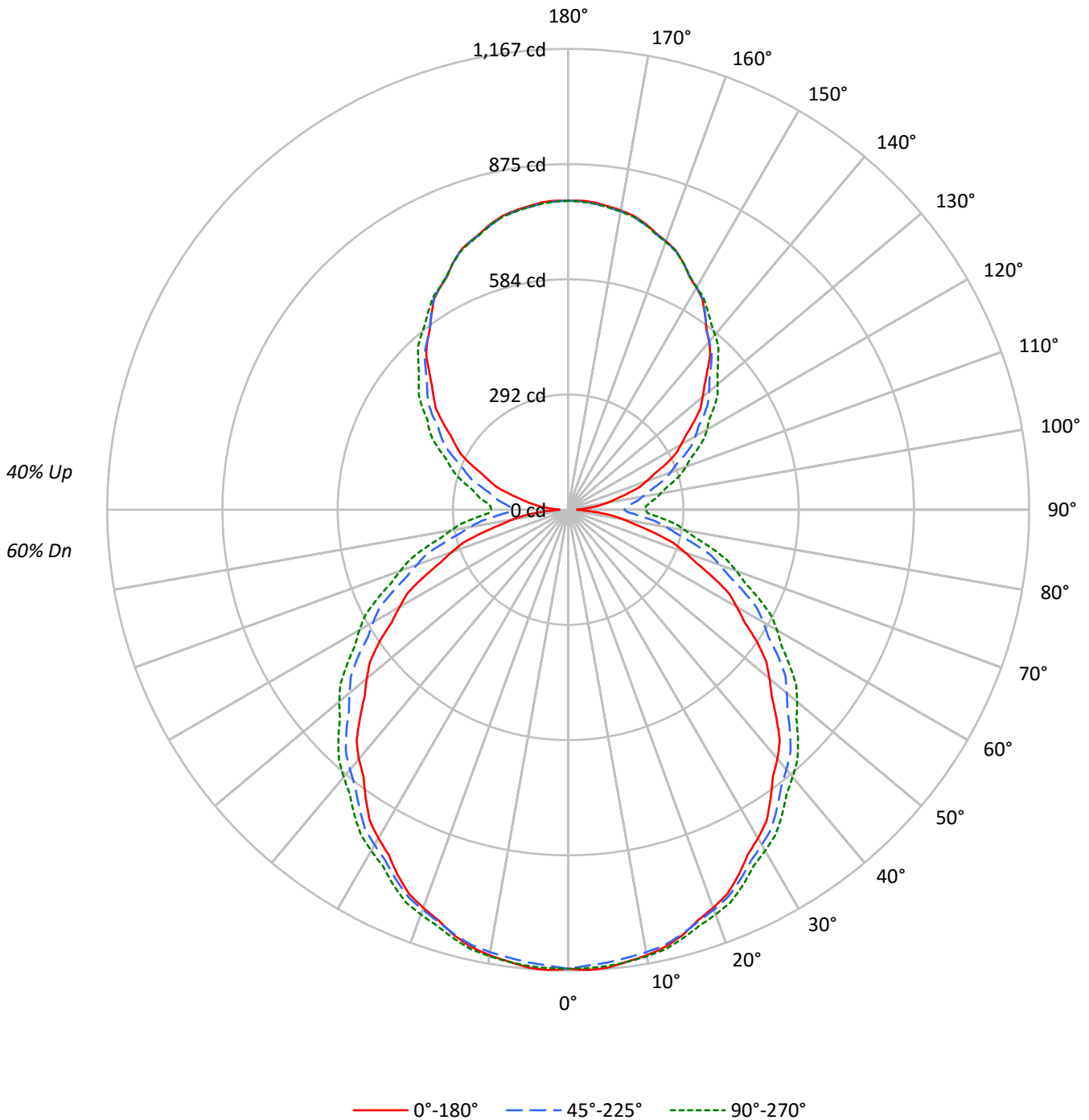
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332844-930

CATALOG NUMBER: S124DIW-S1195D770U930-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P332844-930

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |    | 20 |    |    |    |    |    |    |    |    | 20 |    |    |    |    |   |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |    | 50 |    |    |    |    |    |    |    |    | 30 |    |    |    |    |   |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 76 | 76 | 76 | 65 | 65 | 65 | 60 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 99  | 94  | 89  | 85  | 92  | 88  | 84  | 80  | 76 | 73 | 70 | 65 | 63 | 61 | 56 | 54 | 53 | 48 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 89  | 81  | 74  | 69  | 83  | 76  | 70  | 65  | 66 | 61 | 57 | 57 | 53 | 50 | 48 | 46 | 43 | 39 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 81  | 71  | 63  | 57  | 75  | 66  | 59  | 54  | 58 | 52 | 48 | 50 | 45 | 42 | 42 | 39 | 36 | 32 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 74  | 63  | 54  | 48  | 69  | 59  | 51  | 45  | 51 | 45 | 40 | 44 | 39 | 36 | 38 | 34 | 31 | 27 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 68  | 56  | 47  | 41  | 63  | 52  | 44  | 39  | 46 | 39 | 35 | 39 | 34 | 31 | 34 | 30 | 27 | 24 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 63  | 50  | 41  | 35  | 58  | 47  | 39  | 33  | 41 | 35 | 30 | 36 | 31 | 27 | 30 | 26 | 23 | 21 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 58  | 45  | 37  | 31  | 54  | 42  | 35  | 29  | 37 | 31 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 18 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 54  | 41  | 33  | 27  | 50  | 38  | 31  | 26  | 34 | 28 | 23 | 30 | 25 | 21 | 25 | 21 | 18 | 16 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 50  | 37  | 29  | 24  | 47  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 | 14 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 47  | 34  | 27  | 22  | 44  | 32  | 25  | 21  | 29 | 23 | 19 | 25 | 20 | 17 | 22 | 18 | 15 | 13 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9386 | 9386 | 9386 |
| 5°  | 9414 | 9173 | 9199 |
| 10° | 9357 | 9022 | 9016 |
| 15° | 9273 | 8849 | 8800 |
| 20° | 9147 | 8658 | 8591 |
| 25° | 9004 | 8442 | 8360 |
| 30° | 8849 | 8228 | 8124 |
| 35° | 8675 | 8010 | 7917 |
| 40° | 8536 | 7801 | 7700 |
| 45° | 8329 | 7610 | 7515 |
| 50° | 8153 | 7388 | 7319 |
| 55° | 7973 | 7179 | 7089 |
| 60° | 7689 | 6913 | 6880 |
| 65° | 7380 | 6628 | 6622 |
| 70° | 7004 | 6302 | 6322 |
| 75° | 6483 | 5945 | 6051 |
| 80° | 5900 | 5600 | 5784 |
| 85° | 5162 | 5295 | 5626 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.1  | 1.8       |
| 10°-20°   | 315.4  | 5.1       |
| 20°-30°   | 477.0  | 7.8       |
| 30°-40°   | 577.1  | 9.4       |
| 40°-50°   | 610.1  | 9.9       |
| 50°-60°   | 574.2  | 9.4       |
| 60°-70°   | 476.4  | 7.8       |
| 70°-80°   | 334.6  | 5.5       |
| 80°-90°   | 191.5  | 3.1       |
| 90°-100°  | 163.9  | 2.7       |
| 100°-110° | 236.0  | 3.8       |
| 110°-120° | 315.3  | 5.1       |
| 120°-130° | 373.6  | 6.1       |
| 130°-140° | 397.8  | 6.5       |
| 140°-150° | 380.3  | 6.2       |
| 150°-160° | 317.6  | 5.2       |
| 160°-170° | 211.3  | 3.4       |
| 170°-180° | 74.0   | 1.2       |
| 0°-30°    | 902.5  | 14.7      |
| 0°-40°    | 1479.6 | 24.1      |
| 0°-60°    | 2663.8 | 43.4      |
| 0°-90°    | 3666.3 | 59.7      |
| 90°-120°  | 715.2  | 11.7      |
| 90°-150°  | 1867.0 | 30.4      |
| 90°-180°  | 2470.0 | 40.3      |
| 0°-180°   | 6136.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1163 | 1163  | 1163 | 1163  | 1163 |      |
| 5°   | 1164 | 1160  | 1151 | 1161  | 1160 | 110  |
| 15°  | 1116 | 1117  | 1113 | 1124  | 1124 | 314  |
| 25°  | 1021 | 1028  | 1032 | 1046  | 1048 | 470  |
| 35°  | 893  | 908   | 922  | 939   | 944  | 559  |
| 45°  | 745  | 769   | 794  | 815   | 823  | 575  |
| 55°  | 583  | 611   | 650  | 675   | 684  | 520  |
| 65°  | 404  | 445   | 490  | 521   | 532  | 400  |
| 75°  | 224  | 272   | 327  | 362   | 375  | 238  |
| 85°  | 69   | 124   | 182  | 220   | 234  | 73   |
| 90°  | 23   | 81    | 142  | 182   | 195  | 16   |
| 95°  | 53   | 102   | 159  | 195   | 208  | 54   |
| 105° | 153  | 181   | 230  | 263   | 276  | 163  |
| 115° | 272  | 285   | 324  | 351   | 360  | 268  |
| 125° | 390  | 390   | 420  | 443   | 450  | 347  |
| 135° | 498  | 502   | 511  | 530   | 536  | 386  |
| 145° | 603  | 604   | 605  | 612   | 616  | 378  |
| 155° | 690  | 690   | 689  | 691   | 689  | 317  |
| 165° | 751  | 749   | 748  | 751   | 749  | 212  |
| 175° | 781  | 778   | 778  | 781   | 778  | 74   |
| 180° | 782  | 782   | 782  | 782   | 782  |      |



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CATALOG NUMBER: S124DIW-S1195D770U930-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°   | 1166.8 | 1166.0 | 1165.4 | 1164.7 | 1164.0 | 1162.7 | 1160.8 | 1159.0 | 1157.2 | 1155.3 | 1156.9 |
| 5°     | 1163.8 | 1163.0 | 1162.1 | 1161.3 | 1160.4 | 1158.9 | 1156.9 | 1154.9 | 1152.9 | 1150.9 | 1153.2 |
| 7.5°   | 1154.0 | 1153.5 | 1152.9 | 1152.4 | 1151.9 | 1150.8 | 1149.2 | 1147.5 | 1145.7 | 1144.1 | 1146.7 |
| 10°    | 1145.7 | 1145.3 | 1145.1 | 1144.8 | 1144.5 | 1143.6 | 1142.2 | 1140.8 | 1139.3 | 1137.8 | 1140.4 |
| 12.5°  | 1134.2 | 1134.2 | 1134.1 | 1134.0 | 1134.0 | 1133.4 | 1132.5 | 1131.5 | 1130.5 | 1129.5 | 1131.9 |
| 15°    | 1115.7 | 1116.0 | 1116.3 | 1116.6 | 1116.9 | 1116.6 | 1115.7 | 1114.8 | 1113.9 | 1113.1 | 1115.7 |
| 17.5°  | 1090.5 | 1091.4 | 1092.2 | 1093.1 | 1093.9 | 1094.3 | 1094.1 | 1093.9 | 1093.7 | 1093.6 | 1096.3 |
| 20°    | 1072.8 | 1073.6 | 1074.5 | 1075.4 | 1076.2 | 1076.8 | 1077.1 | 1077.4 | 1077.7 | 1078.0 | 1080.8 |
| 22.5°  | 1053.0 | 1054.0 | 1055.2 | 1056.2 | 1057.4 | 1058.2 | 1058.7 | 1059.2 | 1059.7 | 1060.2 | 1063.2 |
| 25°    | 1020.7 | 1022.4 | 1024.2 | 1025.9 | 1027.6 | 1028.9 | 1029.8 | 1030.6 | 1031.5 | 1032.4 | 1035.6 |
| 27.5°  | 984.7  | 987.3  | 989.9  | 992.4  | 994.9  | 996.9  | 998.2  | 999.6  | 1000.9 | 1002.2 | 1005.1 |
| 30°    | 960.7  | 963.1  | 965.4  | 967.8  | 970.0  | 972.2  | 974.2  | 976.2  | 978.3  | 980.3  | 983.5  |
| 32.5°  | 934.7  | 937.5  | 940.3  | 943.1  | 945.8  | 948.4  | 950.6  | 952.9  | 955.1  | 957.4  | 961.1  |
| 35°    | 893.1  | 896.6  | 900.0  | 903.5  | 906.9  | 910.1  | 913.1  | 915.9  | 918.8  | 921.7  | 925.8  |
| 37.5°  | 851.2  | 855.2  | 859.2  | 863.2  | 867.2  | 870.9  | 874.5  | 878.1  | 881.7  | 885.3  | 889.4  |
| 40°    | 824.1  | 827.9  | 831.6  | 835.4  | 839.1  | 843.0  | 847.1  | 851.2  | 855.2  | 859.2  | 863.6  |
| 42.5°  | 792.9  | 797.0  | 801.3  | 805.5  | 809.8  | 814.2  | 819.0  | 823.7  | 828.4  | 833.2  | 838.0  |
| 45°    | 744.7  | 750.2  | 755.7  | 761.2  | 766.6  | 772.2  | 777.6  | 783.2  | 788.6  | 794.2  | 799.1  |
| 47.5°  | 698.5  | 704.3  | 710.0  | 715.6  | 721.3  | 727.3  | 733.7  | 740.0  | 746.4  | 752.8  | 757.8  |
| 50°    | 665.3  | 671.6  | 678.0  | 684.4  | 690.7  | 697.1  | 703.4  | 709.8  | 716.2  | 722.5  | 728.3  |
| 52.5°  | 631.9  | 638.3  | 644.7  | 651.0  | 657.4  | 664.2  | 671.5  | 678.8  | 686.1  | 693.4  | 699.2  |
| 55°    | 583.3  | 589.3  | 595.4  | 601.4  | 607.6  | 614.9  | 623.6  | 632.3  | 641.0  | 649.6  | 655.4  |
| 57.5°  | 528.8  | 536.4  | 543.9  | 551.4  | 558.9  | 567.0  | 575.6  | 584.2  | 592.9  | 601.4  | 608.4  |
| 60°    | 493.4  | 500.9  | 508.4  | 516.0  | 523.5  | 532.1  | 541.6  | 551.1  | 560.7  | 570.2  | 576.9  |
| 62.5°  | 459.0  | 467.2  | 475.5  | 483.7  | 491.9  | 500.8  | 510.4  | 519.9  | 529.5  | 539.0  | 545.6  |
| 65°    | 403.6  | 412.9  | 422.1  | 431.4  | 440.6  | 450.1  | 460.0  | 469.9  | 479.6  | 489.5  | 496.8  |
| 67.5°  | 350.2  | 360.0  | 369.9  | 379.7  | 389.6  | 399.7  | 410.3  | 420.8  | 431.3  | 441.9  | 449.2  |
| 70°    | 313.7  | 323.6  | 333.5  | 343.2  | 353.1  | 363.5  | 374.5  | 385.5  | 396.5  | 407.5  | 415.3  |
| 72.5°  | 278.3  | 288.4  | 298.5  | 308.5  | 318.6  | 329.5  | 341.2  | 352.9  | 364.5  | 376.3  | 383.8  |
| 75°    | 224.0  | 234.6  | 245.3  | 256.0  | 266.8  | 278.2  | 290.3  | 302.5  | 314.6  | 326.8  | 334.8  |
| 77.5°  | 173.2  | 184.5  | 195.8  | 207.2  | 218.5  | 230.6  | 243.3  | 256.0  | 268.7  | 281.4  | 289.7  |
| 80°    | 141.9  | 153.4  | 165.0  | 176.6  | 188.2  | 200.3  | 213.0  | 225.8  | 238.6  | 251.3  | 259.9  |
| 82.5°  | 110.6  | 122.7  | 134.8  | 146.8  | 158.8  | 171.2  | 183.9  | 196.7  | 209.4  | 222.1  | 231.0  |
| 85°    | 69.0   | 81.1   | 93.3   | 105.4  | 117.6  | 130.2  | 143.2  | 156.2  | 169.3  | 182.3  | 190.9  |
| 87.5°  | 38.9   | 51.0   | 63.1   | 75.2   | 87.3   | 99.8   | 112.7  | 125.6  | 138.4  | 151.3  | 159.9  |
| 90°    | 22.7   | 35.7   | 48.8   | 61.8   | 74.8   | 88.1   | 101.7  | 115.2  | 128.7  | 142.2  | 151.4  |
| 92.5°  | 32.8   | 44.8   | 57.0   | 69.1   | 81.2   | 93.8   | 107.0  | 120.2  | 133.4  | 146.6  | 155.2  |
| 95°    | 53.2   | 64.0   | 74.8   | 85.5   | 96.3   | 108.0  | 120.8  | 133.6  | 146.4  | 159.2  | 167.5  |
| 97.5°  | 78.8   | 88.0   | 97.2   | 106.3  | 115.5  | 126.5  | 139.4  | 152.2  | 165.1  | 177.9  | 186.0  |
| 100°   | 99.1   | 107.1  | 115.1  | 123.2  | 131.3  | 141.5  | 154.0  | 166.6  | 179.0  | 191.5  | 199.6  |
| 102.5° | 121.3  | 128.1  | 134.9  | 141.7  | 148.5  | 158.0  | 170.2  | 182.3  | 194.5  | 206.7  | 214.6  |
| 105°   | 152.7  | 158.7  | 164.5  | 170.5  | 176.3  | 185.0  | 196.2  | 207.5  | 218.7  | 229.9  | 237.6  |
| 107.5° | 188.2  | 193.1  | 198.0  | 202.8  | 207.7  | 215.3  | 225.5  | 235.7  | 246.0  | 256.2  | 263.7  |
| 110°   | 211.3  | 215.6  | 220.0  | 224.3  | 228.6  | 235.7  | 245.7  | 255.8  | 265.7  | 275.7  | 282.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 235.5 | 239.0 | 242.7 | 246.4 | 250.0 | 256.6 | 266.0 | 275.4 | 284.8 | 294.2 | 300.6 |
| 115°   | 271.7 | 274.3 | 276.9 | 279.5 | 282.0 | 287.9 | 296.9 | 305.8 | 314.8 | 323.8 | 330.0 |
| 117.5° | 307.0 | 308.6 | 310.3 | 311.9 | 313.6 | 318.7 | 327.1 | 335.6 | 344.0 | 352.5 | 358.0 |
| 120°   | 329.6 | 331.0 | 332.5 | 333.9 | 335.3 | 340.0 | 348.0 | 356.0 | 363.9 | 371.9 | 377.0 |
| 122.5° | 354.3 | 354.7 | 355.1 | 355.5 | 355.9 | 360.0 | 367.7 | 375.4 | 383.2 | 390.9 | 396.2 |
| 125°   | 389.5 | 389.1 | 388.9 | 388.6 | 388.3 | 391.7 | 398.8 | 405.9 | 413.0 | 420.1 | 425.3 |
| 127.5° | 422.2 | 422.3 | 422.5 | 422.6 | 422.7 | 425.4 | 430.7 | 436.1 | 441.4 | 446.8 | 451.7 |
| 130°   | 444.4 | 444.5 | 444.7 | 444.7 | 444.9 | 447.3 | 451.8 | 456.5 | 461.1 | 465.8 | 470.7 |
| 132.5° | 468.1 | 468.1 | 468.1 | 468.1 | 468.1 | 469.9 | 473.5 | 477.2 | 480.8 | 484.4 | 489.1 |
| 135°   | 498.1 | 499.0 | 499.8 | 500.6 | 501.4 | 502.8 | 504.8 | 506.9 | 508.9 | 510.9 | 515.3 |
| 137.5° | 532.3 | 532.4 | 532.5 | 532.6 | 532.6 | 533.3 | 534.5 | 535.7 | 536.9 | 538.1 | 542.0 |
| 140°   | 555.1 | 555.1 | 555.1 | 555.0 | 555.0 | 555.1 | 555.4 | 555.7 | 556.0 | 556.3 | 559.9 |
| 142.5° | 574.9 | 575.0 | 575.3 | 575.4 | 575.7 | 575.7 | 575.4 | 575.1 | 574.8 | 574.5 | 577.8 |
| 145°   | 603.4 | 603.6 | 603.9 | 604.1 | 604.4 | 604.5 | 604.7 | 604.9 | 605.0 | 605.1 | 606.7 |
| 147.5° | 631.9 | 632.3 | 632.7 | 633.0 | 633.4 | 633.5 | 633.4 | 633.2 | 633.2 | 633.1 | 633.2 |
| 150°   | 649.4 | 649.6 | 649.9 | 650.1 | 650.4 | 650.5 | 650.5 | 650.5 | 650.5 | 650.5 | 650.5 |
| 152.5° | 664.8 | 665.0 | 665.3 | 665.6 | 665.9 | 666.0 | 666.1 | 666.3 | 666.3 | 666.4 | 666.8 |
| 155°   | 689.8 | 689.8 | 689.8 | 689.8 | 689.8 | 689.7 | 689.6 | 689.5 | 689.3 | 689.3 | 689.7 |
| 157.5° | 711.1 | 710.9 | 710.6 | 710.4 | 710.1 | 710.0 | 710.0 | 710.0 | 710.0 | 709.9 | 710.3 |
| 160°   | 723.7 | 723.6 | 723.4 | 723.3 | 723.2 | 723.0 | 722.9 | 722.8 | 722.6 | 722.5 | 722.9 |
| 162.5° | 735.3 | 735.0 | 734.6 | 734.3 | 733.9 | 733.7 | 733.5 | 733.4 | 733.3 | 733.1 | 733.9 |
| 165°   | 751.0 | 750.6 | 750.2 | 749.7 | 749.3 | 749.0 | 748.7 | 748.4 | 748.2 | 747.9 | 748.7 |
| 167.5° | 762.9 | 762.4 | 761.8 | 761.2 | 760.7 | 760.3 | 760.4 | 760.4 | 760.4 | 760.5 | 761.3 |
| 170°   | 769.7 | 769.0 | 768.3 | 767.7 | 767.0 | 766.7 | 766.9 | 767.0 | 767.1 | 767.3 | 768.1 |
| 172.5° | 774.5 | 774.0 | 773.4 | 772.8 | 772.3 | 772.0 | 772.0 | 772.1 | 772.1 | 772.1 | 773.1 |
| 175°   | 781.2 | 780.5 | 779.8 | 779.2 | 778.5 | 778.1 | 778.0 | 777.8 | 777.7 | 777.6 | 778.5 |
| 177.5° | 783.3 | 782.9 | 782.3 | 781.8 | 781.2 | 781.0 | 781.0 | 781.0 | 781.0 | 781.0 | 781.7 |
| 180°   | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 |



TEST NUMBER: P332844-930

CATALOG NUMBER: S124DIW-S1195D770U930-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°   | 1158.5 | 1160.2 | 1161.8 | 1162.5 | 1162.2 | 1162.0 | 1161.8 | 1161.6 |
| 5°     | 1155.5 | 1157.8 | 1160.1 | 1161.1 | 1160.8 | 1160.6 | 1160.3 | 1160.0 |
| 7.5°   | 1149.3 | 1151.9 | 1154.5 | 1155.7 | 1155.4 | 1155.1 | 1154.8 | 1154.5 |
| 10°    | 1143.0 | 1145.7 | 1148.3 | 1149.4 | 1149.2 | 1148.8 | 1148.5 | 1148.3 |
| 12.5°  | 1134.2 | 1136.6 | 1139.0 | 1140.2 | 1140.1 | 1140.0 | 1140.0 | 1140.0 |
| 15°    | 1118.3 | 1121.0 | 1123.5 | 1124.7 | 1124.4 | 1124.1 | 1123.8 | 1123.5 |
| 17.5°  | 1098.9 | 1101.6 | 1104.2 | 1105.5 | 1105.2 | 1105.0 | 1104.7 | 1104.5 |
| 20°    | 1083.8 | 1086.6 | 1089.6 | 1091.0 | 1091.0 | 1091.0 | 1091.0 | 1091.0 |
| 22.5°  | 1066.0 | 1068.9 | 1071.8 | 1073.5 | 1074.0 | 1074.4 | 1074.9 | 1075.4 |
| 25°    | 1038.8 | 1042.0 | 1045.1 | 1046.8 | 1047.2 | 1047.4 | 1047.7 | 1048.0 |
| 27.5°  | 1008.1 | 1011.1 | 1014.0 | 1015.6 | 1016.0 | 1016.4 | 1016.7 | 1017.0 |
| 30°    | 986.7  | 989.9  | 993.0  | 994.9  | 995.5  | 996.1  | 996.6  | 997.3  |
| 32.5°  | 964.7  | 968.3  | 972.0  | 974.1  | 974.7  | 975.3  | 975.8  | 976.4  |
| 35°    | 929.8  | 933.8  | 937.9  | 940.4  | 941.3  | 942.2  | 943.0  | 943.9  |
| 37.5°  | 893.5  | 897.6  | 901.7  | 904.2  | 905.1  | 906.0  | 907.0  | 907.9  |
| 40°    | 867.9  | 872.3  | 876.6  | 879.4  | 880.5  | 881.7  | 882.8  | 883.9  |
| 42.5°  | 842.8  | 847.6  | 852.4  | 855.2  | 856.2  | 857.1  | 858.0  | 859.0  |
| 45°    | 804.0  | 808.9  | 813.8  | 817.0  | 818.5  | 819.9  | 821.3  | 822.8  |
| 47.5°  | 763.0  | 768.0  | 773.1  | 776.5  | 778.3  | 780.0  | 781.7  | 783.5  |
| 50°    | 734.1  | 739.9  | 745.7  | 749.4  | 751.2  | 752.9  | 754.6  | 756.4  |
| 52.5°  | 705.0  | 710.8  | 716.5  | 720.3  | 722.0  | 723.7  | 725.5  | 727.2  |
| 55°    | 661.2  | 667.0  | 672.8  | 676.5  | 678.2  | 680.0  | 681.8  | 683.5  |
| 57.5°  | 615.2  | 622.2  | 629.0  | 633.2  | 634.9  | 636.5  | 638.1  | 639.8  |
| 60°    | 583.5  | 590.2  | 596.8  | 601.3  | 603.6  | 605.9  | 608.3  | 610.6  |
| 62.5°  | 552.3  | 559.0  | 565.6  | 570.1  | 572.4  | 574.7  | 577.0  | 579.4  |
| 65°    | 503.9  | 511.2  | 518.4  | 523.2  | 525.5  | 527.8  | 530.2  | 532.5  |
| 67.5°  | 456.6  | 463.9  | 471.2  | 476.1  | 478.3  | 480.5  | 482.8  | 485.1  |
| 70°    | 423.1  | 430.9  | 438.7  | 443.7  | 445.6  | 447.7  | 449.7  | 451.8  |
| 72.5°  | 391.4  | 399.0  | 406.6  | 411.5  | 413.8  | 416.0  | 418.2  | 420.5  |
| 75°    | 343.0  | 351.1  | 359.1  | 364.5  | 367.1  | 369.7  | 372.3  | 375.0  |
| 77.5°  | 297.9  | 306.1  | 314.3  | 319.8  | 322.6  | 325.4  | 328.2  | 330.9  |
| 80°    | 268.6  | 277.3  | 286.0  | 291.5  | 293.8  | 296.1  | 298.4  | 300.8  |
| 82.5°  | 239.9  | 248.8  | 257.7  | 263.5  | 266.0  | 268.6  | 271.1  | 273.6  |
| 85°    | 199.6  | 208.3  | 217.0  | 222.7  | 225.7  | 228.5  | 231.5  | 234.3  |
| 87.5°  | 168.4  | 177.0  | 185.6  | 191.1  | 193.7  | 196.3  | 198.9  | 201.5  |
| 90°    | 160.6  | 169.8  | 179.0  | 184.9  | 187.4  | 190.0  | 192.7  | 195.2  |
| 92.5°  | 163.9  | 172.5  | 181.2  | 186.7  | 189.2  | 191.7  | 194.1  | 196.7  |
| 95°    | 175.7  | 183.9  | 192.1  | 197.5  | 200.2  | 202.8  | 205.3  | 207.9  |
| 97.5°  | 194.0  | 202.1  | 210.2  | 215.5  | 217.9  | 220.5  | 222.9  | 225.4  |
| 100°   | 207.7  | 215.7  | 223.9  | 228.9  | 230.9  | 232.9  | 235.0  | 237.0  |
| 102.5° | 222.6  | 230.5  | 238.5  | 243.6  | 246.0  | 248.3  | 250.7  | 253.1  |
| 105°   | 245.2  | 252.8  | 260.5  | 265.6  | 268.4  | 271.1  | 273.8  | 276.5  |
| 107.5° | 271.2  | 278.7  | 286.1  | 290.9  | 292.9  | 295.0  | 297.1  | 299.1  |
| 110°   | 288.5  | 294.9  | 301.3  | 305.8  | 308.5  | 311.2  | 314.0  | 316.7  |





TEST NUMBER: P332844-930

CATALOG NUMBER: S124DIW-S1195D770U930-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 307.0 | 313.3 | 319.7 | 324.1 | 326.4 | 328.9 | 331.3 | 333.6 |
| 115°   | 336.2 | 342.5 | 348.7 | 352.8 | 354.7 | 356.5 | 358.5 | 360.4 |
| 117.5° | 363.5 | 369.1 | 374.6 | 378.5 | 380.5 | 382.5 | 384.6 | 386.6 |
| 120°   | 382.1 | 387.3 | 392.3 | 396.2 | 398.8 | 401.4 | 404.0 | 406.5 |
| 122.5° | 401.5 | 406.9 | 412.2 | 415.6 | 417.3 | 418.9 | 420.4 | 422.1 |
| 125°   | 430.6 | 435.8 | 441.0 | 444.3 | 445.8 | 447.3 | 448.7 | 450.2 |
| 127.5° | 456.6 | 461.6 | 466.5 | 469.9 | 471.7 | 473.4 | 475.2 | 476.9 |
| 130°   | 475.6 | 480.6 | 485.5 | 488.6 | 489.8 | 491.0 | 492.2 | 493.4 |
| 132.5° | 493.7 | 498.5 | 503.2 | 506.3 | 507.8 | 509.3 | 510.9 | 512.4 |
| 135°   | 519.7 | 524.0 | 528.4 | 531.2 | 532.6 | 533.9 | 535.2 | 536.5 |
| 137.5° | 545.8 | 549.8 | 553.6 | 556.3 | 557.8 | 559.4 | 560.8 | 562.4 |
| 140°   | 563.5 | 567.1 | 570.8 | 573.2 | 574.5 | 575.8 | 577.2 | 578.5 |
| 142.5° | 581.1 | 584.3 | 587.6 | 589.9 | 591.0 | 592.2 | 593.4 | 594.6 |
| 145°   | 608.3 | 609.9 | 611.5 | 612.7 | 613.4 | 614.2 | 615.0 | 615.7 |
| 147.5° | 633.3 | 633.4 | 633.6 | 634.0 | 634.8 | 635.6 | 636.4 | 637.2 |
| 150°   | 650.5 | 650.5 | 650.5 | 650.4 | 650.3 | 650.1 | 650.0 | 649.9 |
| 152.5° | 667.1 | 667.4 | 667.7 | 667.7 | 667.4 | 667.1 | 666.7 | 666.3 |
| 155°   | 690.3 | 690.8 | 691.4 | 691.4 | 690.8 | 690.3 | 689.7 | 689.3 |
| 157.5° | 710.7 | 711.1 | 711.5 | 711.5 | 711.0 | 710.6 | 710.1 | 709.6 |
| 160°   | 723.3 | 723.7 | 724.1 | 724.0 | 723.3 | 722.6 | 721.9 | 721.3 |
| 162.5° | 734.6 | 735.3 | 736.1 | 736.1 | 735.4 | 734.7 | 734.1 | 733.4 |
| 165°   | 749.5 | 750.3 | 751.1 | 751.3 | 750.7 | 750.2 | 749.7 | 749.1 |
| 167.5° | 762.1 | 762.9 | 763.7 | 763.7 | 762.9 | 762.1 | 761.2 | 760.3 |
| 170°   | 768.9 | 769.7 | 770.5 | 770.5 | 769.5 | 768.6 | 767.6 | 766.7 |
| 172.5° | 774.0 | 774.9 | 775.8 | 775.8 | 774.8 | 773.9 | 772.9 | 772.0 |
| 175°   | 779.4 | 780.4 | 781.3 | 781.3 | 780.4 | 779.4 | 778.5 | 777.6 |
| 177.5° | 782.4 | 783.2 | 784.0 | 783.9 | 783.0 | 782.2 | 781.3 | 780.5 |
| 180°   | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 | 782.4 |

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