

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: P332838-935

Luminaire Tested: **S124DIW-S1195D470U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332838-935  
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-S1195D470U935-4F0-1E-UDD-D1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

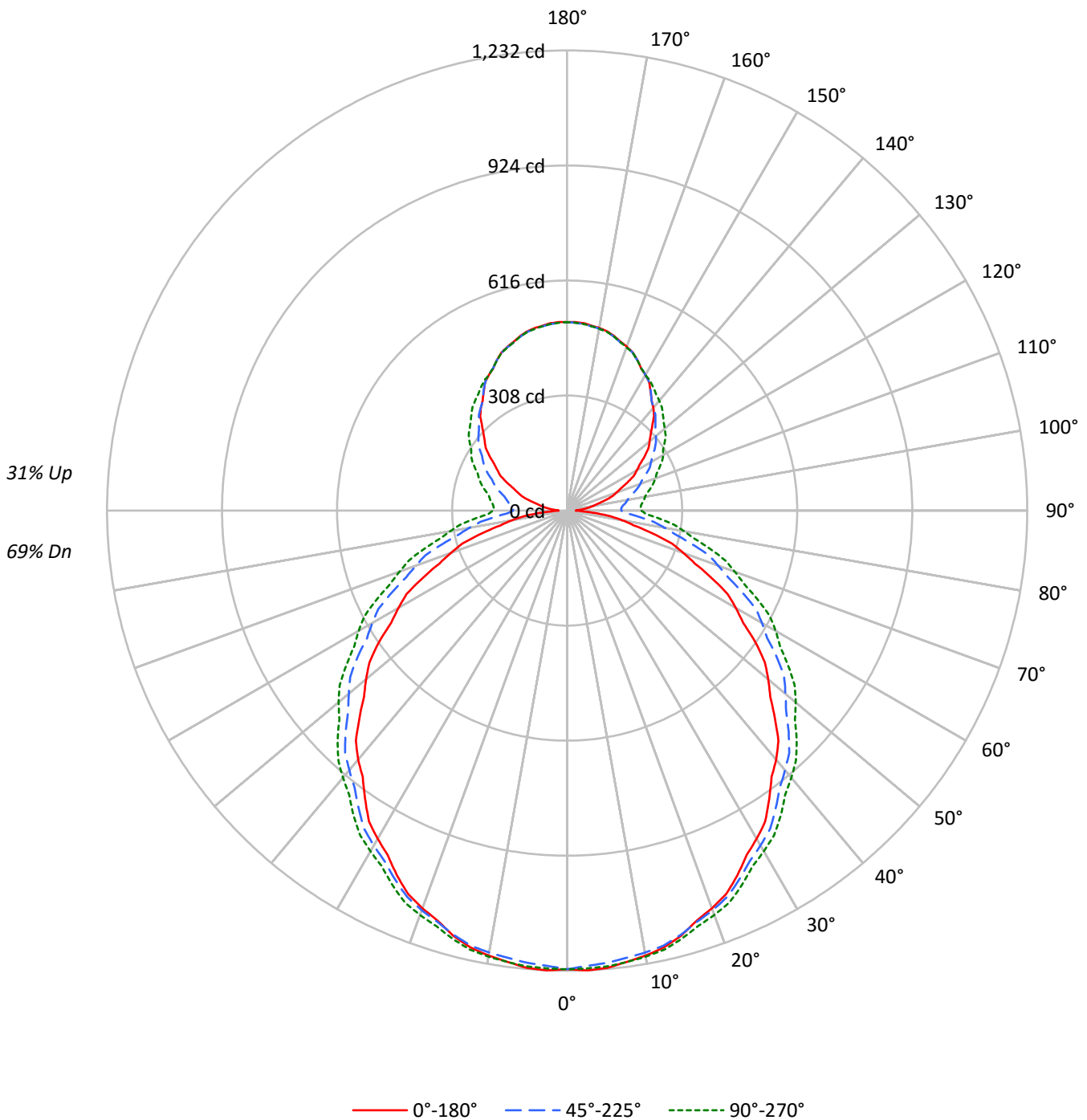
Lumens per Lamp: N/A  
Luminaire Lumens: 5586.3 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct  
  
Input Watts (W): 52.4  
Input Voltage (V): 120  
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: P332838-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P332838-935

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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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 | 69 |
| 1   | 101 | 96  | 91  | 87  | 95  | 90  | 86  | 83  | 81 | 77 | 75 | 71 | 69 | 67 | 63 | 61 | 60 | 55 |
| 2   | 91  | 83  | 76  | 70  | 86  | 78  | 72  | 67  | 70 | 65 | 61 | 62 | 58 | 55 | 55 | 52 | 49 | 45 |
| 3   | 83  | 72  | 64  | 58  | 78  | 68  | 61  | 55  | 61 | 55 | 50 | 54 | 50 | 46 | 48 | 44 | 41 | 38 |
| 4   | 76  | 64  | 55  | 48  | 71  | 60  | 52  | 46  | 54 | 48 | 43 | 48 | 43 | 39 | 43 | 38 | 35 | 32 |
| 5   | 69  | 57  | 48  | 41  | 65  | 54  | 46  | 40  | 48 | 42 | 36 | 43 | 38 | 33 | 38 | 34 | 30 | 27 |
| 6   | 64  | 51  | 42  | 36  | 60  | 48  | 40  | 34  | 43 | 37 | 32 | 39 | 33 | 29 | 35 | 30 | 27 | 24 |
| 7   | 59  | 46  | 37  | 31  | 55  | 44  | 36  | 30  | 39 | 33 | 28 | 35 | 30 | 26 | 31 | 27 | 23 | 21 |
| 8   | 55  | 42  | 33  | 28  | 52  | 40  | 32  | 27  | 36 | 29 | 25 | 32 | 27 | 23 | 29 | 24 | 21 | 19 |
| 9   | 51  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 33 | 27 | 22 | 30 | 24 | 20 | 27 | 22 | 19 | 17 |
| 10  | 48  | 35  | 27  | 22  | 45  | 33  | 26  | 21  | 30 | 24 | 20 | 27 | 22 | 19 | 25 | 20 | 17 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9912 | 9912 | 9912 |
| 5°  | 9942 | 9687 | 9715 |
| 10° | 9882 | 9528 | 9521 |
| 15° | 9793 | 9345 | 9294 |
| 20° | 9660 | 9143 | 9072 |
| 25° | 9509 | 8916 | 8829 |
| 30° | 9346 | 8690 | 8579 |
| 35° | 9161 | 8459 | 8360 |
| 40° | 9014 | 8239 | 8132 |
| 45° | 8795 | 8036 | 7936 |
| 50° | 8610 | 7802 | 7728 |
| 55° | 8420 | 7582 | 7486 |
| 60° | 8121 | 7301 | 7265 |
| 65° | 7793 | 6999 | 6992 |
| 70° | 7397 | 6655 | 6676 |
| 75° | 6845 | 6278 | 6390 |
| 80° | 6233 | 5915 | 6107 |
| 85° | 5446 | 5591 | 5943 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.3  | 2.1       |
| 10°-20°   | 333.1  | 6.0       |
| 20°-30°   | 503.7  | 9.0       |
| 30°-40°   | 609.4  | 10.9      |
| 40°-50°   | 644.3  | 11.5      |
| 50°-60°   | 606.4  | 10.9      |
| 60°-70°   | 503.1  | 9.0       |
| 70°-80°   | 353.4  | 6.3       |
| 80°-90°   | 201.3  | 3.6       |
| 90°-100°  | 151.9  | 2.7       |
| 100°-110° | 186.4  | 3.3       |
| 110°-120° | 226.2  | 4.0       |
| 120°-130° | 253.8  | 4.5       |
| 130°-140° | 262.1  | 4.7       |
| 140°-150° | 246.4  | 4.4       |
| 150°-160° | 204.8  | 3.7       |
| 160°-170° | 136.2  | 2.4       |
| 170°-180° | 47.7   | 0.9       |
| 0°-30°    | 953.1  | 17.1      |
| 0°-40°    | 1562.5 | 28.0      |
| 0°-60°    | 2813.1 | 50.4      |
| 0°-90°    | 3870.8 | 69.3      |
| 90°-120°  | 564.5  | 10.1      |
| 90°-150°  | 1326.8 | 23.8      |
| 90°-180°  | 1715.0 | 30.7      |
| 0°-180°   | 5586.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1228 | 1228  | 1228 | 1228  | 1228 |      |
| 5°   | 1229 | 1225  | 1215 | 1226  | 1225 | 117  |
| 15°  | 1178 | 1179  | 1176 | 1187  | 1186 | 332  |
| 25°  | 1078 | 1086  | 1090 | 1105  | 1107 | 496  |
| 35°  | 943  | 959   | 973  | 992   | 997  | 590  |
| 45°  | 786  | 813   | 839  | 861   | 869  | 608  |
| 55°  | 616  | 646   | 686  | 712   | 722  | 549  |
| 65°  | 426  | 470   | 517  | 550   | 562  | 422  |
| 75°  | 236  | 288   | 345  | 382   | 396  | 252  |
| 85°  | 73   | 131   | 192  | 232   | 248  | 78   |
| 90°  | 23   | 83    | 145  | 185   | 199  | 16   |
| 95°  | 41   | 91    | 149  | 186   | 200  | 40   |
| 105° | 103  | 132   | 184  | 218   | 231  | 110  |
| 115° | 178  | 192   | 234  | 263   | 273  | 176  |
| 125° | 253  | 254   | 286  | 310   | 319  | 226  |
| 135° | 322  | 325   | 334  | 355   | 363  | 250  |
| 145° | 390  | 390   | 390  | 398   | 402  | 244  |
| 155° | 445  | 445   | 444  | 446   | 444  | 205  |
| 165° | 484  | 483   | 482  | 484   | 483  | 136  |
| 175° | 504  | 502   | 501  | 504   | 501  | 48   |
| 180° | 504  | 504   | 504  | 504   | 504  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 |
| 2.5°   | 1232.2 | 1231.4 | 1230.7 | 1229.9 | 1229.2 | 1227.9 | 1225.9 | 1224.0 | 1222.0 | 1220.0 | 1221.8 |
| 5°     | 1229.1 | 1228.2 | 1227.3 | 1226.4 | 1225.5 | 1223.9 | 1221.8 | 1219.6 | 1217.5 | 1215.4 | 1217.8 |
| 7.5°   | 1218.7 | 1218.1 | 1217.5 | 1217.0 | 1216.5 | 1215.3 | 1213.6 | 1211.8 | 1210.0 | 1208.2 | 1211.0 |
| 10°    | 1209.9 | 1209.5 | 1209.3 | 1208.9 | 1208.7 | 1207.7 | 1206.2 | 1204.7 | 1203.2 | 1201.6 | 1204.4 |
| 12.5°  | 1197.7 | 1197.7 | 1197.7 | 1197.6 | 1197.6 | 1197.0 | 1195.9 | 1194.9 | 1193.9 | 1192.8 | 1195.3 |
| 15°    | 1178.3 | 1178.5 | 1178.9 | 1179.1 | 1179.5 | 1179.1 | 1178.3 | 1177.3 | 1176.4 | 1175.5 | 1178.3 |
| 17.5°  | 1151.6 | 1152.5 | 1153.4 | 1154.3 | 1155.2 | 1155.6 | 1155.5 | 1155.2 | 1155.0 | 1154.9 | 1157.7 |
| 20°    | 1132.9 | 1133.8 | 1134.7 | 1135.7 | 1136.5 | 1137.1 | 1137.5 | 1137.8 | 1138.1 | 1138.4 | 1141.4 |
| 22.5°  | 1112.0 | 1113.1 | 1114.3 | 1115.4 | 1116.6 | 1117.5 | 1118.0 | 1118.6 | 1119.1 | 1119.6 | 1122.7 |
| 25°    | 1077.9 | 1079.7 | 1081.6 | 1083.4 | 1085.2 | 1086.6 | 1087.5 | 1088.4 | 1089.3 | 1090.3 | 1093.6 |
| 27.5°  | 1039.9 | 1042.7 | 1045.3 | 1048.0 | 1050.7 | 1052.7 | 1054.1 | 1055.6 | 1057.0 | 1058.3 | 1061.4 |
| 30°    | 1014.6 | 1017.1 | 1019.5 | 1022.0 | 1024.4 | 1026.7 | 1028.8 | 1031.0 | 1033.1 | 1035.3 | 1038.6 |
| 32.5°  | 987.1  | 990.1  | 993.0  | 995.9  | 998.8  | 1001.5 | 1003.9 | 1006.3 | 1008.7 | 1011.1 | 1014.9 |
| 35°    | 943.1  | 946.8  | 950.5  | 954.2  | 957.8  | 961.1  | 964.2  | 967.2  | 970.3  | 973.4  | 977.7  |
| 37.5°  | 898.9  | 903.1  | 907.3  | 911.5  | 915.8  | 919.7  | 923.5  | 927.3  | 931.1  | 934.9  | 939.3  |
| 40°    | 870.3  | 874.3  | 878.2  | 882.2  | 886.1  | 890.3  | 894.6  | 898.9  | 903.1  | 907.4  | 912.0  |
| 42.5°  | 837.3  | 841.7  | 846.2  | 850.7  | 855.1  | 859.9  | 864.9  | 869.9  | 874.9  | 879.9  | 885.0  |
| 45°    | 786.4  | 792.2  | 798.1  | 803.8  | 809.6  | 815.5  | 821.2  | 827.1  | 832.8  | 838.7  | 843.9  |
| 47.5°  | 737.7  | 743.7  | 749.8  | 755.7  | 761.7  | 768.1  | 774.8  | 781.5  | 788.2  | 795.0  | 800.3  |
| 50°    | 702.6  | 709.3  | 716.0  | 722.7  | 729.4  | 736.2  | 742.9  | 749.6  | 756.3  | 763.0  | 769.1  |
| 52.5°  | 667.4  | 674.1  | 680.8  | 687.5  | 694.2  | 701.5  | 709.1  | 716.9  | 724.5  | 732.3  | 738.4  |
| 55°    | 616.0  | 622.3  | 628.8  | 635.2  | 641.6  | 649.4  | 658.6  | 667.7  | 676.9  | 686.0  | 692.2  |
| 57.5°  | 558.4  | 566.5  | 574.4  | 582.3  | 590.2  | 598.7  | 607.9  | 617.0  | 626.1  | 635.2  | 642.5  |
| 60°    | 521.1  | 529.0  | 536.9  | 544.9  | 552.8  | 561.9  | 572.0  | 582.0  | 592.1  | 602.2  | 609.2  |
| 62.5°  | 484.7  | 493.4  | 502.1  | 510.8  | 519.4  | 528.8  | 539.0  | 549.1  | 559.1  | 569.2  | 576.2  |
| 65°    | 426.2  | 436.0  | 445.7  | 455.6  | 465.3  | 475.4  | 485.8  | 496.2  | 506.5  | 516.9  | 524.6  |
| 67.5°  | 369.8  | 380.2  | 390.6  | 401.0  | 411.4  | 422.1  | 433.3  | 444.4  | 455.5  | 466.7  | 474.4  |
| 70°    | 331.3  | 341.7  | 352.1  | 362.5  | 372.9  | 383.9  | 395.5  | 407.1  | 418.7  | 430.3  | 438.6  |
| 72.5°  | 293.9  | 304.5  | 315.2  | 325.8  | 336.5  | 347.9  | 360.3  | 372.6  | 385.0  | 397.4  | 405.4  |
| 75°    | 236.5  | 247.8  | 259.1  | 270.4  | 281.7  | 293.8  | 306.6  | 319.4  | 332.3  | 345.1  | 353.6  |
| 77.5°  | 182.9  | 194.8  | 206.8  | 218.8  | 230.7  | 243.5  | 256.9  | 270.4  | 283.8  | 297.2  | 305.9  |
| 80°    | 149.9  | 162.0  | 174.3  | 186.5  | 198.7  | 211.5  | 225.0  | 238.5  | 251.9  | 265.4  | 274.5  |
| 82.5°  | 116.8  | 129.6  | 142.3  | 155.0  | 167.7  | 180.8  | 194.2  | 207.7  | 221.1  | 234.5  | 243.9  |
| 85°    | 72.8   | 85.7   | 98.5   | 111.3  | 124.2  | 137.5  | 151.2  | 165.0  | 178.7  | 192.5  | 201.6  |
| 87.5°  | 40.9   | 53.6   | 66.2   | 78.9   | 91.5   | 104.6  | 118.1  | 131.6  | 145.2  | 158.7  | 167.7  |
| 90°    | 23.2   | 36.3   | 49.5   | 62.7   | 75.9   | 89.4   | 103.2  | 117.0  | 130.9  | 144.7  | 154.0  |
| 92.5°  | 29.3   | 41.3   | 53.5   | 65.5   | 77.6   | 90.5   | 104.1  | 117.7  | 131.3  | 145.0  | 153.9  |
| 95°    | 41.2   | 52.2   | 63.0   | 73.9   | 84.7   | 96.7   | 109.9  | 123.0  | 136.1  | 149.3  | 157.7  |
| 97.5°  | 57.1   | 66.4   | 75.7   | 85.0   | 94.3   | 105.6  | 118.6  | 131.7  | 144.9  | 158.0  | 166.3  |
| 100°   | 69.7   | 78.0   | 86.4   | 94.6   | 102.9  | 113.4  | 126.1  | 138.8  | 151.4  | 164.2  | 172.6  |
| 102.5° | 84.1   | 91.2   | 98.3   | 105.4  | 112.5  | 122.3  | 134.7  | 147.1  | 159.4  | 171.8  | 180.0  |
| 105°   | 103.3  | 109.5  | 115.6  | 121.8  | 128.0  | 137.0  | 148.6  | 160.3  | 171.9  | 183.6  | 191.5  |
| 107.5° | 126.1  | 131.1  | 136.2  | 141.4  | 146.5  | 154.4  | 165.1  | 175.9  | 186.7  | 197.4  | 205.2  |
| 110°   | 140.5  | 145.0  | 149.5  | 153.9  | 158.3  | 165.8  | 176.5  | 187.1  | 197.7  | 208.3  | 215.2  |



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CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 155.7 | 159.5 | 163.3 | 167.1 | 171.0 | 177.9 | 188.0 | 197.9 | 208.0 | 218.1 | 224.8 |
| 115°   | 178.4 | 181.1 | 183.8 | 186.6 | 189.3 | 195.5 | 205.2 | 214.7 | 224.4 | 233.9 | 240.6 |
| 117.5° | 201.0 | 202.8 | 204.5 | 206.2 | 207.9 | 213.3 | 222.2 | 231.2 | 240.2 | 249.2 | 255.2 |
| 120°   | 215.2 | 216.5 | 217.7 | 219.0 | 220.2 | 225.2 | 233.8 | 242.4 | 251.0 | 259.6 | 265.3 |
| 122.5° | 231.1 | 231.4 | 231.8 | 232.1 | 232.4 | 236.7 | 245.0 | 253.2 | 261.5 | 269.8 | 275.5 |
| 125°   | 253.2 | 253.0 | 252.6 | 252.4 | 252.0 | 255.6 | 263.2 | 270.8 | 278.3 | 285.9 | 291.4 |
| 127.5° | 274.3 | 274.2 | 274.1 | 274.1 | 274.1 | 276.9 | 282.7 | 288.3 | 294.1 | 299.9 | 305.1 |
| 130°   | 288.2 | 288.1 | 288.1 | 288.0 | 288.0 | 290.4 | 295.3 | 300.1 | 305.1 | 310.0 | 315.3 |
| 132.5° | 303.4 | 303.3 | 303.2 | 303.1 | 303.0 | 304.9 | 308.7 | 312.5 | 316.4 | 320.2 | 325.3 |
| 135°   | 322.3 | 322.8 | 323.3 | 323.8 | 324.3 | 325.7 | 327.9 | 329.9 | 332.1 | 334.2 | 339.0 |
| 137.5° | 344.3 | 344.2 | 344.1 | 344.1 | 344.1 | 344.6 | 345.8 | 347.0 | 348.1 | 349.3 | 353.5 |
| 140°   | 359.0 | 358.9 | 358.7 | 358.6 | 358.4 | 358.5 | 358.9 | 359.1 | 359.5 | 359.7 | 363.6 |
| 142.5° | 371.3 | 371.4 | 371.5 | 371.6 | 371.7 | 371.7 | 371.4 | 371.2 | 370.9 | 370.7 | 374.1 |
| 145°   | 389.6 | 389.6 | 389.7 | 389.7 | 389.8 | 389.8 | 389.9 | 389.9 | 390.0 | 390.1 | 391.9 |
| 147.5° | 408.0 | 408.1 | 408.2 | 408.3 | 408.5 | 408.5 | 408.4 | 408.3 | 408.3 | 408.2 | 408.4 |
| 150°   | 419.2 | 419.3 | 419.3 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 |
| 152.5° | 428.8 | 428.9 | 429.0 | 429.2 | 429.3 | 429.5 | 429.5 | 429.6 | 429.6 | 429.7 | 429.9 |
| 155°   | 444.8 | 444.8 | 444.8 | 444.8 | 444.8 | 444.7 | 444.6 | 444.5 | 444.4 | 444.4 | 444.7 |
| 157.5° | 458.5 | 458.3 | 458.2 | 458.1 | 457.9 | 457.8 | 457.8 | 457.8 | 457.7 | 457.7 | 458.0 |
| 160°   | 466.7 | 466.6 | 466.5 | 466.4 | 466.3 | 466.2 | 466.1 | 466.1 | 466.0 | 465.9 | 466.1 |
| 162.5° | 474.2 | 473.9 | 473.6 | 473.5 | 473.2 | 473.0 | 472.9 | 472.9 | 472.8 | 472.7 | 473.2 |
| 165°   | 484.1 | 483.9 | 483.6 | 483.4 | 483.1 | 482.9 | 482.8 | 482.6 | 482.4 | 482.2 | 482.8 |
| 167.5° | 491.9 | 491.5 | 491.2 | 490.9 | 490.4 | 490.3 | 490.3 | 490.3 | 490.3 | 490.3 | 490.9 |
| 170°   | 496.3 | 495.8 | 495.4 | 495.0 | 494.6 | 494.4 | 494.5 | 494.6 | 494.6 | 494.7 | 495.2 |
| 172.5° | 499.4 | 499.0 | 498.7 | 498.3 | 497.9 | 497.7 | 497.7 | 497.8 | 497.8 | 497.8 | 498.4 |
| 175°   | 503.7 | 503.3 | 502.8 | 502.4 | 502.0 | 501.7 | 501.6 | 501.5 | 501.4 | 501.4 | 502.0 |
| 177.5° | 505.1 | 504.7 | 504.4 | 504.0 | 503.7 | 503.5 | 503.5 | 503.5 | 503.5 | 503.5 | 504.0 |
| 180°   | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 |



TEST NUMBER: P332838-935

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 |
| 2.5°   | 1223.5 | 1225.2 | 1226.9 | 1227.6 | 1227.4 | 1227.1 | 1226.9 | 1226.7 |
| 5°     | 1220.3 | 1222.7 | 1225.1 | 1226.2 | 1225.9 | 1225.6 | 1225.3 | 1225.0 |
| 7.5°   | 1213.8 | 1216.5 | 1219.3 | 1220.5 | 1220.1 | 1219.9 | 1219.5 | 1219.3 |
| 10°    | 1207.1 | 1209.9 | 1212.6 | 1213.8 | 1213.6 | 1213.2 | 1212.9 | 1212.6 |
| 12.5°  | 1197.8 | 1200.3 | 1202.8 | 1204.1 | 1204.0 | 1203.9 | 1203.9 | 1203.9 |
| 15°    | 1181.0 | 1183.8 | 1186.5 | 1187.7 | 1187.4 | 1187.1 | 1186.8 | 1186.5 |
| 17.5°  | 1160.5 | 1163.3 | 1166.1 | 1167.4 | 1167.2 | 1166.9 | 1166.7 | 1166.4 |
| 20°    | 1144.5 | 1147.5 | 1150.6 | 1152.1 | 1152.1 | 1152.1 | 1152.1 | 1152.1 |
| 22.5°  | 1125.8 | 1128.9 | 1131.9 | 1133.7 | 1134.2 | 1134.6 | 1135.1 | 1135.7 |
| 25°    | 1097.0 | 1100.4 | 1103.7 | 1105.5 | 1105.9 | 1106.1 | 1106.5 | 1106.7 |
| 27.5°  | 1064.6 | 1067.7 | 1070.8 | 1072.5 | 1073.0 | 1073.3 | 1073.7 | 1074.0 |
| 30°    | 1042.0 | 1045.3 | 1048.7 | 1050.7 | 1051.3 | 1051.9 | 1052.5 | 1053.2 |
| 32.5°  | 1018.7 | 1022.6 | 1026.5 | 1028.7 | 1029.3 | 1029.9 | 1030.5 | 1031.1 |
| 35°    | 982.0  | 986.2  | 990.5  | 993.1  | 994.0  | 995.0  | 995.8  | 996.8  |
| 37.5°  | 943.6  | 947.9  | 952.3  | 954.9  | 955.9  | 956.8  | 957.9  | 958.8  |
| 40°    | 916.5  | 921.2  | 925.7  | 928.7  | 929.9  | 931.1  | 932.3  | 933.5  |
| 42.5°  | 890.0  | 895.1  | 900.2  | 903.2  | 904.2  | 905.2  | 906.1  | 907.1  |
| 45°    | 849.0  | 854.3  | 859.5  | 862.8  | 864.4  | 865.8  | 867.4  | 868.9  |
| 47.5°  | 805.7  | 811.1  | 816.5  | 820.0  | 821.9  | 823.7  | 825.5  | 827.4  |
| 50°    | 775.2  | 781.4  | 787.5  | 791.4  | 793.3  | 795.1  | 796.9  | 798.7  |
| 52.5°  | 744.5  | 750.6  | 756.6  | 760.7  | 762.5  | 764.3  | 766.1  | 768.0  |
| 55°    | 698.3  | 704.4  | 710.5  | 714.5  | 716.3  | 718.2  | 720.0  | 721.8  |
| 57.5°  | 649.7  | 657.0  | 664.3  | 668.7  | 670.5  | 672.2  | 673.9  | 675.6  |
| 60°    | 616.2  | 623.3  | 630.3  | 635.0  | 637.5  | 639.9  | 642.4  | 644.8  |
| 62.5°  | 583.2  | 590.3  | 597.3  | 602.0  | 604.5  | 606.9  | 609.3  | 611.8  |
| 65°    | 532.2  | 539.8  | 547.5  | 552.5  | 555.0  | 557.4  | 559.9  | 562.3  |
| 67.5°  | 482.2  | 489.9  | 497.7  | 502.7  | 505.1  | 507.5  | 509.9  | 512.3  |
| 70°    | 446.9  | 455.0  | 463.3  | 468.6  | 470.6  | 472.8  | 474.9  | 477.1  |
| 72.5°  | 413.4  | 421.4  | 429.4  | 434.5  | 437.0  | 439.3  | 441.7  | 444.1  |
| 75°    | 362.2  | 370.7  | 379.3  | 385.0  | 387.7  | 390.5  | 393.2  | 396.0  |
| 77.5°  | 314.6  | 323.3  | 331.9  | 337.8  | 340.7  | 343.6  | 346.6  | 349.5  |
| 80°    | 283.7  | 292.8  | 302.0  | 307.8  | 310.2  | 312.7  | 315.1  | 317.6  |
| 82.5°  | 253.4  | 262.8  | 272.2  | 278.3  | 280.9  | 283.6  | 286.3  | 289.0  |
| 85°    | 210.8  | 220.0  | 229.1  | 235.2  | 238.3  | 241.3  | 244.4  | 247.5  |
| 87.5°  | 176.7  | 185.6  | 194.6  | 200.4  | 203.1  | 205.9  | 208.6  | 211.3  |
| 90°    | 163.4  | 172.8  | 182.2  | 188.2  | 190.8  | 193.5  | 196.0  | 198.7  |
| 92.5°  | 162.8  | 171.8  | 180.6  | 186.4  | 189.0  | 191.5  | 194.1  | 196.6  |
| 95°    | 166.3  | 174.8  | 183.3  | 188.9  | 191.7  | 194.4  | 197.2  | 199.9  |
| 97.5°  | 174.6  | 183.0  | 191.2  | 196.7  | 199.3  | 202.0  | 204.6  | 207.2  |
| 100°   | 181.1  | 189.4  | 197.9  | 203.2  | 205.3  | 207.4  | 209.6  | 211.7  |
| 102.5° | 188.3  | 196.6  | 204.7  | 210.2  | 212.6  | 215.1  | 217.5  | 219.9  |
| 105°   | 199.4  | 207.3  | 215.2  | 220.5  | 223.2  | 225.9  | 228.6  | 231.4  |
| 107.5° | 212.9  | 220.7  | 228.4  | 233.4  | 235.6  | 237.7  | 240.0  | 242.1  |
| 110°   | 222.0  | 228.9  | 235.7  | 240.5  | 243.1  | 245.9  | 248.6  | 251.3  |





TEST NUMBER: P332838-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 231.6 | 238.3 | 245.0 | 249.7 | 252.2 | 254.7 | 257.2 | 259.7 |
| 115°   | 247.2 | 253.8 | 260.5 | 264.8 | 266.9 | 268.9 | 271.0 | 273.0 |
| 117.5° | 261.3 | 267.3 | 273.5 | 277.6 | 279.8 | 282.1 | 284.4 | 286.7 |
| 120°   | 271.0 | 276.6 | 282.3 | 286.5 | 289.0 | 291.7 | 294.3 | 297.0 |
| 122.5° | 281.4 | 287.1 | 293.0 | 296.8 | 298.7 | 300.6 | 302.5 | 304.4 |
| 125°   | 297.1 | 302.7 | 308.4 | 312.0 | 313.7 | 315.4 | 317.0 | 318.7 |
| 127.5° | 310.5 | 315.8 | 321.2 | 324.8 | 326.7 | 328.6 | 330.6 | 332.5 |
| 130°   | 320.6 | 325.9 | 331.2 | 334.7 | 336.1 | 337.6 | 339.1 | 340.6 |
| 132.5° | 330.4 | 335.4 | 340.5 | 344.0 | 345.6 | 347.3 | 349.0 | 350.7 |
| 135°   | 343.7 | 348.4 | 353.1 | 356.3 | 357.8 | 359.4 | 360.9 | 362.6 |
| 137.5° | 357.7 | 362.1 | 366.3 | 369.2 | 370.7 | 372.3 | 373.9 | 375.5 |
| 140°   | 367.5 | 371.4 | 375.3 | 378.0 | 379.4 | 380.8 | 382.3 | 383.7 |
| 142.5° | 377.5 | 381.1 | 384.5 | 386.8 | 388.1 | 389.4 | 390.6 | 391.9 |
| 145°   | 393.6 | 395.4 | 397.2 | 398.5 | 399.4 | 400.5 | 401.4 | 402.3 |
| 147.5° | 408.5 | 408.7 | 408.9 | 409.4 | 410.3 | 411.2 | 412.1 | 412.9 |
| 150°   | 419.4 | 419.4 | 419.4 | 419.4 | 419.3 | 419.2 | 419.1 | 419.0 |
| 152.5° | 430.2 | 430.3 | 430.6 | 430.5 | 430.3 | 430.1 | 429.9 | 429.6 |
| 155°   | 445.1 | 445.4 | 445.7 | 445.7 | 445.4 | 445.1 | 444.7 | 444.4 |
| 157.5° | 458.2 | 458.5 | 458.7 | 458.7 | 458.5 | 458.1 | 457.9 | 457.5 |
| 160°   | 466.4 | 466.7 | 466.9 | 466.8 | 466.4 | 466.0 | 465.5 | 465.0 |
| 162.5° | 473.6 | 474.2 | 474.6 | 474.6 | 474.2 | 473.7 | 473.3 | 472.9 |
| 165°   | 483.3 | 483.8 | 484.3 | 484.4 | 484.1 | 483.7 | 483.4 | 483.0 |
| 167.5° | 491.4 | 491.9 | 492.4 | 492.4 | 491.9 | 491.4 | 490.8 | 490.3 |
| 170°   | 495.8 | 496.3 | 496.8 | 496.7 | 496.1 | 495.5 | 494.9 | 494.3 |
| 172.5° | 499.0 | 499.6 | 500.2 | 500.2 | 499.6 | 498.9 | 498.3 | 497.7 |
| 175°   | 502.6 | 503.2 | 503.8 | 503.8 | 503.2 | 502.6 | 502.0 | 501.4 |
| 177.5° | 504.5 | 505.0 | 505.5 | 505.4 | 504.9 | 504.4 | 503.8 | 503.3 |
| 180°   | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 |

(END OF REPORT)