

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: P332791-830

Luminaire Tested: **S124DIW-S795D1050U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332791-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S795D1050U830-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1050 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7163.9 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

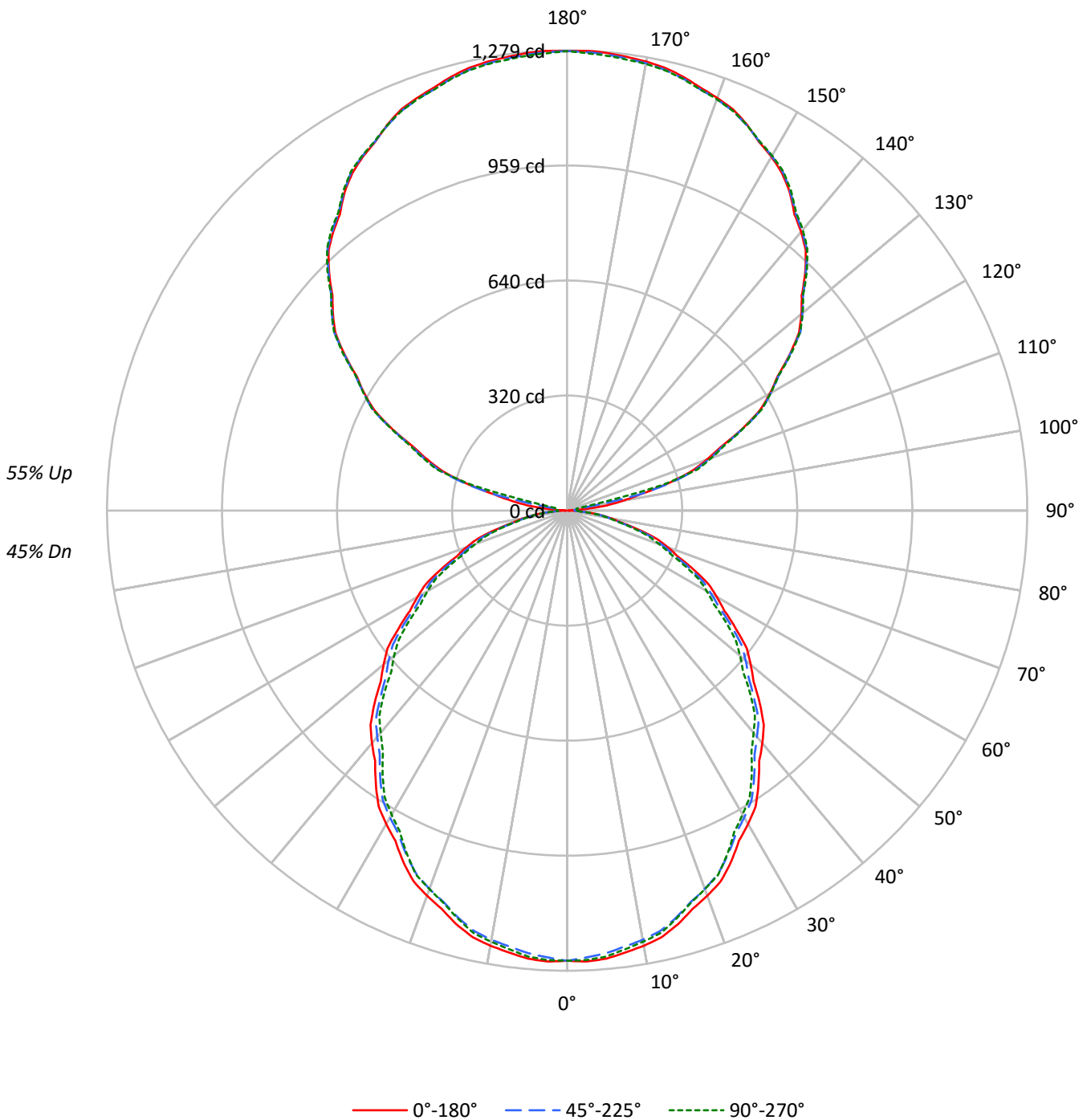
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1   | 97  | 92  | 88  | 85  | 88 | 85 | 81 | 78 | 70 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2   | 88  | 81  | 74  | 69  | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 50 | 48 | 45 | 40 | 38 | 36 | 32 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 45 | 41 | 38 | 35 | 33 | 31 | 27 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 45 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 28 | 26 | 23 | 20 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 20 | 17 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 | 16 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9   | 49  | 37  | 30  | 25  | 45 | 35 | 28 | 23 | 29 | 24 | 20 | 25 | 20 | 18 | 20 | 17 | 15 | 13 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10101 | 10101 | 10101 |
| 5°  | 10131 | 10009 | 10083 |
| 10° | 10067 | 9928  | 9977  |
| 15° | 9947  | 9787  | 9812  |
| 20° | 9784  | 9613  | 9620  |
| 25° | 9600  | 9413  | 9386  |
| 30° | 9374  | 9177  | 9093  |
| 35° | 9140  | 8932  | 8814  |
| 40° | 8896  | 8652  | 8495  |
| 45° | 8643  | 8379  | 8218  |
| 50° | 8361  | 8133  | 7882  |
| 55° | 8058  | 7817  | 7562  |
| 60° | 7753  | 7463  | 7237  |
| 65° | 7412  | 7125  | 6837  |
| 70° | 7027  | 6675  | 6413  |
| 75° | 6441  | 6129  | 5973  |
| 80° | 5732  | 5500  | 5360  |
| 85° | 5011  | 4826  | 4733  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.8  | 1.6       |
| 10°-20°   | 332.0  | 4.6       |
| 20°-30°   | 488.6  | 6.8       |
| 30°-40°   | 568.1  | 7.9       |
| 40°-50°   | 568.1  | 7.9       |
| 50°-60°   | 496.9  | 6.9       |
| 60°-70°   | 369.0  | 5.2       |
| 70°-80°   | 209.7  | 2.9       |
| 80°-90°   | 64.2   | 0.9       |
| 90°-100°  | 43.7   | 0.6       |
| 100°-110° | 278.4  | 3.9       |
| 110°-120° | 532.6  | 7.4       |
| 120°-130° | 676.2  | 9.4       |
| 130°-140° | 723.4  | 10.1      |
| 140°-150° | 676.5  | 9.4       |
| 150°-160° | 545.5  | 7.6       |
| 160°-170° | 351.9  | 4.9       |
| 170°-180° | 121.3  | 1.7       |
| 0°-30°    | 938.5  | 13.1      |
| 0°-40°    | 1506.5 | 21.0      |
| 0°-60°    | 2571.5 | 35.9      |
| 0°-90°    | 3214.4 | 44.9      |
| 90°-120°  | 854.7  | 11.9      |
| 90°-150°  | 2930.8 | 40.9      |
| 90°-180°  | 3949.0 | 55.1      |
| 0°-180°   | 7163.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1251 | 1251  | 1251 | 1251  | 1251 |      |
| 5°   | 1250 | 1246  | 1235 | 1245  | 1244 | 119  |
| 15°  | 1190 | 1185  | 1171 | 1176  | 1174 | 335  |
| 25°  | 1078 | 1070  | 1057 | 1057  | 1054 | 496  |
| 35°  | 927  | 920   | 906  | 899   | 894  | 580  |
| 45°  | 757  | 749   | 734  | 723   | 720  | 583  |
| 55°  | 572  | 569   | 555  | 544   | 537  | 513  |
| 65°  | 388  | 383   | 373  | 363   | 358  | 384  |
| 75°  | 206  | 202   | 196  | 193   | 192  | 219  |
| 85°  | 54   | 54    | 52   | 52    | 51   | 60   |
| 90°  | 3    | 13    | 21   | 27    | 29   | 5    |
| 95°  | 52   | 22    | 21   | 26    | 28   | 68   |
| 105° | 288  | 293   | 298  | 304   | 272  | 301  |
| 115° | 537  | 539   | 539  | 540   | 540  | 528  |
| 125° | 754  | 758   | 756  | 759   | 760  | 673  |
| 135° | 936  | 935   | 939  | 941   | 942  | 721  |
| 145° | 1079 | 1082  | 1082 | 1083  | 1085 | 674  |
| 155° | 1183 | 1184  | 1181 | 1185  | 1182 | 545  |
| 165° | 1248 | 1244  | 1243 | 1250  | 1242 | 353  |
| 175° | 1277 | 1271  | 1272 | 1280  | 1269 | 122  |
| 180° | 1277 | 1277  | 1277 | 1277  | 1277 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 |
| 2.5°   | 1254.4 | 1253.9 | 1253.3 | 1252.8 | 1252.3 | 1251.0 | 1249.1 | 1247.1 | 1245.1 | 1243.2 | 1244.9 |
| 5°     | 1250.2 | 1249.3 | 1248.4 | 1247.5 | 1246.6 | 1244.9 | 1242.5 | 1240.0 | 1237.6 | 1235.1 | 1237.6 |
| 7.5°   | 1238.6 | 1237.7 | 1236.8 | 1235.9 | 1235.0 | 1233.2 | 1230.5 | 1227.8 | 1225.0 | 1222.3 | 1224.3 |
| 10°    | 1228.1 | 1227.3 | 1226.3 | 1225.5 | 1224.6 | 1222.7 | 1219.7 | 1216.9 | 1214.0 | 1211.1 | 1212.9 |
| 12.5°  | 1214.5 | 1213.6 | 1212.7 | 1211.8 | 1211.0 | 1208.9 | 1205.9 | 1202.8 | 1199.8 | 1196.7 | 1198.6 |
| 15°    | 1190.1 | 1189.1 | 1188.3 | 1187.3 | 1186.5 | 1184.4 | 1181.0 | 1177.7 | 1174.3 | 1171.0 | 1172.3 |
| 17.5°  | 1160.6 | 1159.4 | 1158.3 | 1157.3 | 1156.1 | 1154.0 | 1150.8 | 1147.6 | 1144.4 | 1141.3 | 1142.2 |
| 20°    | 1138.9 | 1137.7 | 1136.7 | 1135.6 | 1134.4 | 1132.2 | 1128.9 | 1125.5 | 1122.2 | 1118.9 | 1119.6 |
| 22.5°  | 1115.7 | 1114.2 | 1112.7 | 1111.3 | 1109.7 | 1107.4 | 1104.0 | 1100.7 | 1097.3 | 1094.0 | 1095.2 |
| 25°    | 1077.7 | 1076.2 | 1074.6 | 1073.1 | 1071.5 | 1069.1 | 1066.0 | 1062.9 | 1059.8 | 1056.7 | 1056.9 |
| 27.5°  | 1034.4 | 1032.8 | 1031.2 | 1029.6 | 1028.0 | 1025.8 | 1022.8 | 1020.0 | 1017.1 | 1014.2 | 1013.6 |
| 30°    | 1005.6 | 1003.8 | 1002.0 | 1000.2 | 998.4  | 996.1  | 993.2  | 990.3  | 987.4  | 984.5  | 983.6  |
| 32.5°  | 975.1  | 973.5  | 971.9  | 970.3  | 968.7  | 966.3  | 963.3  | 960.2  | 957.2  | 954.0  | 953.0  |
| 35°    | 927.4  | 925.8  | 924.3  | 922.7  | 921.1  | 918.8  | 915.7  | 912.6  | 909.5  | 906.3  | 904.7  |
| 37.5°  | 877.0  | 875.6  | 874.2  | 872.8  | 871.3  | 868.9  | 865.6  | 862.2  | 858.9  | 855.5  | 853.8  |
| 40°    | 844.1  | 842.4  | 840.6  | 838.8  | 837.0  | 834.4  | 831.1  | 827.7  | 824.4  | 821.0  | 818.9  |
| 42.5°  | 808.9  | 807.8  | 806.7  | 805.7  | 804.6  | 802.2  | 798.5  | 794.8  | 791.1  | 787.4  | 784.9  |
| 45°    | 757.0  | 755.4  | 753.8  | 752.2  | 750.7  | 748.1  | 744.6  | 741.0  | 737.4  | 733.9  | 731.4  |
| 47.5°  | 702.6  | 701.5  | 700.5  | 699.4  | 698.3  | 696.2  | 692.9  | 689.6  | 686.3  | 683.0  | 680.1  |
| 50°    | 665.7  | 664.8  | 663.9  | 663.0  | 662.1  | 660.2  | 657.0  | 653.9  | 650.7  | 647.6  | 644.5  |
| 52.5°  | 629.6  | 628.6  | 627.5  | 626.4  | 625.3  | 623.1  | 619.8  | 616.5  | 613.2  | 609.9  | 607.2  |
| 55°    | 572.5  | 571.7  | 571.1  | 570.4  | 569.8  | 567.9  | 564.8  | 561.7  | 558.6  | 555.4  | 552.7  |
| 57.5°  | 517.9  | 517.2  | 516.4  | 515.7  | 514.9  | 512.9  | 509.9  | 506.8  | 503.8  | 500.7  | 498.1  |
| 60°    | 480.2  | 479.1  | 478.0  | 476.9  | 475.8  | 473.7  | 470.9  | 468.0  | 465.1  | 462.2  | 460.1  |
| 62.5°  | 443.4  | 442.4  | 441.5  | 440.5  | 439.6  | 437.6  | 434.5  | 431.4  | 428.4  | 425.3  | 423.5  |
| 65°    | 388.0  | 386.9  | 385.8  | 384.7  | 383.5  | 381.8  | 379.7  | 377.4  | 375.1  | 373.0  | 370.7  |
| 67.5°  | 332.2  | 331.2  | 330.2  | 329.1  | 328.2  | 326.6  | 324.4  | 322.3  | 320.2  | 318.0  | 315.8  |
| 70°    | 297.7  | 296.2  | 294.6  | 293.0  | 291.5  | 289.8  | 288.0  | 286.3  | 284.5  | 282.8  | 281.0  |
| 72.5°  | 260.9  | 259.3  | 257.8  | 256.2  | 254.6  | 253.2  | 251.8  | 250.2  | 248.8  | 247.4  | 246.0  |
| 75°    | 206.5  | 205.4  | 204.3  | 203.2  | 202.1  | 201.0  | 199.8  | 198.7  | 197.7  | 196.5  | 195.6  |
| 77.5°  | 154.6  | 154.1  | 153.6  | 153.2  | 152.6  | 151.9  | 150.9  | 150.0  | 148.9  | 148.0  | 147.7  |
| 80°    | 123.3  | 122.6  | 122.0  | 121.3  | 120.6  | 120.1  | 119.6  | 119.2  | 118.8  | 118.3  | 117.8  |
| 82.5°  | 92.8   | 92.6   | 92.2   | 91.9   | 91.6   | 91.4   | 91.3   | 91.2   | 91.1   | 91.0   | 90.8   |
| 85°    | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 53.9   | 53.4   | 53.1   | 52.6   | 52.1   | 52.1   |
| 87.5°  | 21.4   | 21.7   | 22.0   | 22.3   | 22.6   | 22.8   | 23.0   | 23.1   | 23.3   | 23.5   | 23.8   |
| 90°    | 2.8    | 5.2    | 7.5    | 9.9    | 12.2   | 14.2   | 15.9   | 17.6   | 19.3   | 21.0   | 22.2   |
| 92.5°  | 12.1   | 12.2   | 12.3   | 12.4   | 12.5   | 13.5   | 15.2   | 16.9   | 18.6   | 20.3   | 21.5   |
| 95°    | 52.5   | 45.3   | 38.1   | 30.9   | 23.7   | 20.2   | 20.4   | 20.5   | 20.8   | 21.0   | 22.2   |
| 97.5°  | 111.5  | 116.0  | 120.6  | 125.1  | 129.5  | 120.0  | 96.2   | 72.6   | 48.9   | 25.2   | 25.4   |
| 100°   | 156.7  | 160.4  | 164.3  | 168.1  | 171.9  | 159.2  | 129.9  | 100.6  | 71.4   | 42.0   | 38.5   |
| 102.5° | 207.1  | 209.8  | 212.6  | 215.5  | 218.2  | 217.7  | 214.0  | 210.1  | 206.2  | 202.5  | 163.5  |
| 105°   | 287.5  | 288.7  | 290.0  | 291.2  | 292.6  | 293.7  | 294.7  | 295.9  | 296.9  | 297.9  | 299.8  |
| 107.5° | 362.1  | 362.8  | 363.4  | 364.0  | 364.7  | 365.7  | 367.1  | 368.6  | 370.0  | 371.5  | 372.4  |
| 110°   | 412.6  | 413.2  | 413.8  | 414.4  | 415.1  | 416.0  | 417.4  | 418.6  | 419.9  | 421.1  | 421.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 461.5  | 462.6  | 463.7  | 464.9  | 466.0  | 466.9  | 467.5  | 468.1  | 468.6  | 469.3  | 469.2  |
| 115°   | 536.7  | 537.3  | 538.0  | 538.6  | 539.2  | 539.4  | 539.2  | 539.0  | 538.9  | 538.6  | 539.0  |
| 117.5° | 604.5  | 605.3  | 606.1  | 607.0  | 607.8  | 608.5  | 609.0  | 609.4  | 609.9  | 610.4  | 610.3  |
| 120°   | 650.4  | 651.2  | 652.1  | 652.9  | 653.7  | 654.0  | 653.8  | 653.7  | 653.4  | 653.2  | 653.7  |
| 122.5° | 693.1  | 693.6  | 694.1  | 694.7  | 695.1  | 695.6  | 695.9  | 696.2  | 696.4  | 696.7  | 697.0  |
| 125°   | 754.4  | 755.3  | 756.1  | 757.0  | 757.8  | 758.0  | 757.6  | 757.1  | 756.8  | 756.3  | 757.0  |
| 127.5° | 812.5  | 812.7  | 812.9  | 813.1  | 813.3  | 813.9  | 814.9  | 815.9  | 816.8  | 817.8  | 817.7  |
| 130°   | 849.9  | 850.2  | 850.4  | 850.6  | 850.7  | 851.2  | 851.9  | 852.4  | 853.1  | 853.8  | 853.9  |
| 132.5° | 884.3  | 884.7  | 885.0  | 885.4  | 885.8  | 886.5  | 887.2  | 888.1  | 888.8  | 889.7  | 889.9  |
| 135°   | 935.9  | 935.7  | 935.5  | 935.2  | 935.0  | 935.4  | 936.2  | 937.1  | 937.9  | 938.8  | 939.1  |
| 137.5° | 981.5  | 981.6  | 981.7  | 981.8  | 981.8  | 982.3  | 983.3  | 984.2  | 985.1  | 986.1  | 986.6  |
| 140°   | 1011.3 | 1011.7 | 1012.2 | 1012.6 | 1013.0 | 1013.4 | 1013.9 | 1014.3 | 1014.7 | 1015.1 | 1015.8 |
| 142.5° | 1038.0 | 1038.8 | 1039.5 | 1040.4 | 1041.1 | 1041.6 | 1041.9 | 1042.1 | 1042.4 | 1042.6 | 1043.1 |
| 145°   | 1079.1 | 1079.8 | 1080.3 | 1081.0 | 1081.7 | 1081.9 | 1081.9 | 1081.9 | 1081.9 | 1081.9 | 1082.2 |
| 147.5° | 1111.7 | 1113.0 | 1114.2 | 1115.3 | 1116.5 | 1117.0 | 1116.8 | 1116.6 | 1116.3 | 1116.2 | 1116.3 |
| 150°   | 1135.5 | 1136.3 | 1137.2 | 1138.0 | 1138.9 | 1139.2 | 1139.0 | 1138.8 | 1138.5 | 1138.3 | 1138.3 |
| 152.5° | 1155.3 | 1156.0 | 1156.7 | 1157.3 | 1158.0 | 1158.2 | 1157.8 | 1157.4 | 1157.1 | 1156.7 | 1157.0 |
| 155°   | 1183.2 | 1183.5 | 1183.6 | 1183.8 | 1184.0 | 1183.8 | 1183.2 | 1182.6 | 1181.9 | 1181.3 | 1182.1 |
| 157.5° | 1206.7 | 1206.5 | 1206.5 | 1206.3 | 1206.2 | 1205.8 | 1205.0 | 1204.3 | 1203.6 | 1202.9 | 1204.0 |
| 160°   | 1220.4 | 1219.8 | 1219.2 | 1218.5 | 1217.9 | 1217.5 | 1217.3 | 1217.0 | 1216.8 | 1216.6 | 1217.9 |
| 162.5° | 1232.7 | 1231.9 | 1231.1 | 1230.2 | 1229.5 | 1228.9 | 1228.7 | 1228.5 | 1228.3 | 1228.0 | 1229.4 |
| 165°   | 1248.1 | 1247.1 | 1246.0 | 1244.9 | 1243.9 | 1243.4 | 1243.4 | 1243.4 | 1243.4 | 1243.4 | 1245.1 |
| 167.5° | 1260.4 | 1259.2 | 1258.2 | 1257.1 | 1255.9 | 1255.4 | 1255.2 | 1255.1 | 1255.0 | 1254.8 | 1256.7 |
| 170°   | 1267.2 | 1265.9 | 1264.7 | 1263.4 | 1262.2 | 1261.6 | 1261.8 | 1262.1 | 1262.3 | 1262.4 | 1264.1 |
| 172.5° | 1271.8 | 1270.5 | 1269.2 | 1268.0 | 1266.7 | 1266.2 | 1266.4 | 1266.6 | 1266.9 | 1267.1 | 1268.8 |
| 175°   | 1276.8 | 1275.5 | 1274.2 | 1273.0 | 1271.7 | 1271.2 | 1271.4 | 1271.6 | 1271.8 | 1272.1 | 1273.9 |
| 177.5° | 1279.0 | 1277.9 | 1276.7 | 1275.5 | 1274.3 | 1273.9 | 1274.2 | 1274.6 | 1274.9 | 1275.3 | 1276.6 |
| 180°   | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 |



TEST NUMBER: P332791-830

CATALOG NUMBER: S124DIW-S795D1050U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 |
| 2.5°   | 1246.7 | 1248.5 | 1250.3 | 1251.1 | 1250.9 | 1250.8 | 1250.6 | 1250.4 |
| 5°     | 1240.0 | 1242.5 | 1244.9 | 1245.9 | 1245.5 | 1245.1 | 1244.6 | 1244.2 |
| 7.5°   | 1226.2 | 1228.2 | 1230.1 | 1231.0 | 1230.8 | 1230.5 | 1230.2 | 1229.9 |
| 10°    | 1214.7 | 1216.4 | 1218.2 | 1218.9 | 1218.4 | 1218.0 | 1217.6 | 1217.1 |
| 12.5°  | 1200.6 | 1202.5 | 1204.5 | 1205.1 | 1204.6 | 1203.9 | 1203.2 | 1202.7 |
| 15°    | 1173.7 | 1175.0 | 1176.3 | 1176.7 | 1176.0 | 1175.4 | 1174.7 | 1174.0 |
| 17.5°  | 1143.0 | 1143.9 | 1144.7 | 1144.9 | 1144.4 | 1144.0 | 1143.6 | 1143.1 |
| 20°    | 1120.2 | 1120.9 | 1121.5 | 1121.6 | 1121.2 | 1120.8 | 1120.3 | 1119.8 |
| 22.5°  | 1096.4 | 1097.6 | 1098.8 | 1099.0 | 1098.2 | 1097.4 | 1096.6 | 1095.8 |
| 25°    | 1057.2 | 1057.3 | 1057.6 | 1057.2 | 1056.4 | 1055.5 | 1054.6 | 1053.7 |
| 27.5°  | 1013.1 | 1012.6 | 1012.0 | 1011.3 | 1010.1 | 1009.0 | 1007.9 | 1006.7 |
| 30°    | 982.7  | 981.8  | 980.9  | 980.0  | 978.8  | 977.7  | 976.6  | 975.5  |
| 32.5°  | 951.9  | 950.8  | 949.8  | 948.7  | 947.5  | 946.4  | 945.3  | 944.2  |
| 35°    | 903.2  | 901.6  | 900.0  | 898.7  | 897.6  | 896.5  | 895.4  | 894.3  |
| 37.5°  | 852.2  | 850.5  | 848.9  | 847.3  | 845.7  | 844.3  | 842.8  | 841.3  |
| 40°    | 816.6  | 814.5  | 812.2  | 810.5  | 809.4  | 808.3  | 807.2  | 806.1  |
| 42.5°  | 782.2  | 779.7  | 777.0  | 775.4  | 774.7  | 773.9  | 773.2  | 772.4  |
| 45°    | 729.0  | 726.5  | 724.1  | 722.6  | 721.8  | 721.1  | 720.5  | 719.8  |
| 47.5°  | 677.4  | 674.7  | 671.8  | 669.7  | 668.0  | 666.3  | 664.6  | 662.9  |
| 50°    | 641.4  | 638.3  | 635.2  | 632.9  | 631.6  | 630.3  | 629.0  | 627.6  |
| 52.5°  | 604.5  | 601.6  | 598.9  | 596.7  | 595.0  | 593.3  | 591.6  | 589.9  |
| 55°    | 550.1  | 547.4  | 544.7  | 542.7  | 541.4  | 540.1  | 538.7  | 537.3  |
| 57.5°  | 495.6  | 493.0  | 490.5  | 488.6  | 487.3  | 486.0  | 484.7  | 483.4  |
| 60°    | 458.2  | 456.2  | 454.1  | 452.6  | 451.5  | 450.3  | 449.2  | 448.2  |
| 62.5°  | 421.6  | 419.8  | 418.0  | 416.5  | 415.4  | 414.2  | 413.2  | 412.1  |
| 65°    | 368.5  | 366.3  | 364.0  | 362.4  | 361.3  | 360.1  | 359.0  | 357.9  |
| 67.5°  | 313.8  | 311.6  | 309.4  | 308.2  | 307.9  | 307.6  | 307.3  | 307.0  |
| 70°    | 279.2  | 277.4  | 275.6  | 274.4  | 273.7  | 273.1  | 272.4  | 271.7  |
| 72.5°  | 244.6  | 243.2  | 241.8  | 240.7  | 240.0  | 239.3  | 238.7  | 238.0  |
| 75°    | 194.7  | 193.8  | 192.9  | 192.4  | 192.2  | 191.9  | 191.7  | 191.5  |
| 77.5°  | 147.4  | 147.1  | 146.9  | 146.5  | 145.9  | 145.3  | 144.8  | 144.2  |
| 80°    | 117.4  | 117.0  | 116.5  | 116.2  | 115.9  | 115.7  | 115.6  | 115.3  |
| 82.5°  | 90.5   | 90.2   | 89.9   | 89.7   | 89.5   | 89.3   | 89.1   | 88.8   |
| 85°    | 52.1   | 52.1   | 52.1   | 52.0   | 51.8   | 51.6   | 51.4   | 51.1   |
| 87.5°  | 23.9   | 24.2   | 24.5   | 24.6   | 24.7   | 24.8   | 24.9   | 25.0   |
| 90°    | 23.6   | 24.8   | 26.1   | 27.0   | 27.3   | 27.8   | 28.2   | 28.7   |
| 92.5°  | 22.8   | 24.0   | 25.4   | 26.0   | 26.1   | 26.2   | 26.3   | 26.4   |
| 95°    | 23.6   | 24.8   | 26.1   | 26.9   | 27.1   | 27.2   | 27.5   | 27.7   |
| 97.5°  | 25.4   | 25.6   | 25.7   | 25.9   | 26.1   | 26.3   | 26.5   | 26.8   |
| 100°   | 34.8   | 31.2   | 27.6   | 25.9   | 26.1   | 26.3   | 26.5   | 26.8   |
| 102.5° | 124.6  | 85.7   | 46.8   | 27.3   | 27.3   | 27.4   | 27.4   | 27.5   |
| 105°   | 301.8  | 303.7  | 305.6  | 302.7  | 295.1  | 287.5  | 279.8  | 272.2  |
| 107.5° | 373.3  | 374.3  | 375.2  | 376.1  | 376.9  | 377.7  | 378.5  | 379.3  |
| 110°   | 422.0  | 422.4  | 422.8  | 423.4  | 424.0  | 424.6  | 425.3  | 425.9  |





TEST NUMBER: P332791-830

CATALOG NUMBER: S124DIW-S795D1050U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 469.1  | 469.0  | 468.9  | 469.3  | 470.1  | 470.9  | 471.7  | 472.5  |
| 115°   | 539.4  | 539.9  | 540.3  | 540.5  | 540.5  | 540.5  | 540.5  | 540.5  |
| 117.5° | 610.2  | 610.2  | 610.1  | 610.0  | 609.9  | 609.8  | 609.7  | 609.6  |
| 120°   | 654.0  | 654.5  | 654.9  | 654.9  | 654.5  | 654.0  | 653.7  | 653.2  |
| 122.5° | 697.3  | 697.5  | 697.8  | 697.7  | 697.3  | 696.8  | 696.4  | 696.0  |
| 125°   | 757.6  | 758.3  | 758.8  | 759.3  | 759.5  | 759.7  | 760.0  | 760.2  |
| 127.5° | 817.6  | 817.5  | 817.3  | 817.2  | 817.0  | 816.8  | 816.6  | 816.5  |
| 130°   | 854.1  | 854.4  | 854.6  | 854.7  | 854.7  | 854.7  | 854.7  | 854.7  |
| 132.5° | 890.0  | 890.3  | 890.5  | 890.5  | 890.3  | 890.1  | 890.0  | 889.9  |
| 135°   | 939.6  | 940.0  | 940.5  | 940.8  | 941.3  | 941.7  | 942.2  | 942.5  |
| 137.5° | 987.0  | 987.5  | 988.0  | 988.2  | 988.0  | 987.9  | 987.8  | 987.6  |
| 140°   | 1016.4 | 1017.0 | 1017.7 | 1018.1 | 1018.3 | 1018.5 | 1018.7 | 1019.0 |
| 142.5° | 1043.6 | 1044.1 | 1044.5 | 1044.7 | 1044.8 | 1044.8 | 1044.9 | 1044.9 |
| 145°   | 1082.4 | 1082.6 | 1082.8 | 1083.2 | 1083.5 | 1084.0 | 1084.4 | 1084.9 |
| 147.5° | 1116.5 | 1116.6 | 1116.8 | 1117.0 | 1117.3 | 1117.5 | 1117.7 | 1117.9 |
| 150°   | 1138.3 | 1138.3 | 1138.3 | 1138.4 | 1138.6 | 1138.9 | 1139.1 | 1139.3 |
| 152.5° | 1157.3 | 1157.6 | 1158.0 | 1158.1 | 1158.0 | 1157.8 | 1157.7 | 1157.6 |
| 155°   | 1183.0 | 1183.8 | 1184.7 | 1184.8 | 1184.1 | 1183.6 | 1182.9 | 1182.2 |
| 157.5° | 1205.0 | 1206.2 | 1207.3 | 1207.3 | 1206.2 | 1205.0 | 1204.0 | 1202.9 |
| 160°   | 1219.2 | 1220.4 | 1221.7 | 1221.7 | 1220.4 | 1219.2 | 1217.9 | 1216.6 |
| 162.5° | 1230.6 | 1231.9 | 1233.1 | 1233.1 | 1231.6 | 1230.2 | 1228.8 | 1227.3 |
| 165°   | 1246.8 | 1248.5 | 1250.2 | 1250.0 | 1248.1 | 1246.2 | 1244.3 | 1242.4 |
| 167.5° | 1258.6 | 1260.5 | 1262.3 | 1262.2 | 1260.1 | 1257.9 | 1255.8 | 1253.7 |
| 170°   | 1265.8 | 1267.5 | 1269.2 | 1269.0 | 1266.9 | 1264.8 | 1262.6 | 1260.6 |
| 172.5° | 1270.5 | 1272.1 | 1273.8 | 1273.6 | 1271.2 | 1268.9 | 1266.7 | 1264.3 |
| 175°   | 1275.8 | 1277.7 | 1279.7 | 1279.3 | 1276.8 | 1274.2 | 1271.7 | 1269.1 |
| 177.5° | 1278.0 | 1279.3 | 1280.7 | 1280.3 | 1278.3 | 1276.3 | 1274.2 | 1272.2 |
| 180°   | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 |

(END OF REPORT)