

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: P332855-830

Luminaire Tested: **S124DIW-S1195D1340U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332855-830  
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-S1195D1340U830-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9642.4 lumens  
Efficiency: N/A  
Efficacy: 126.5 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

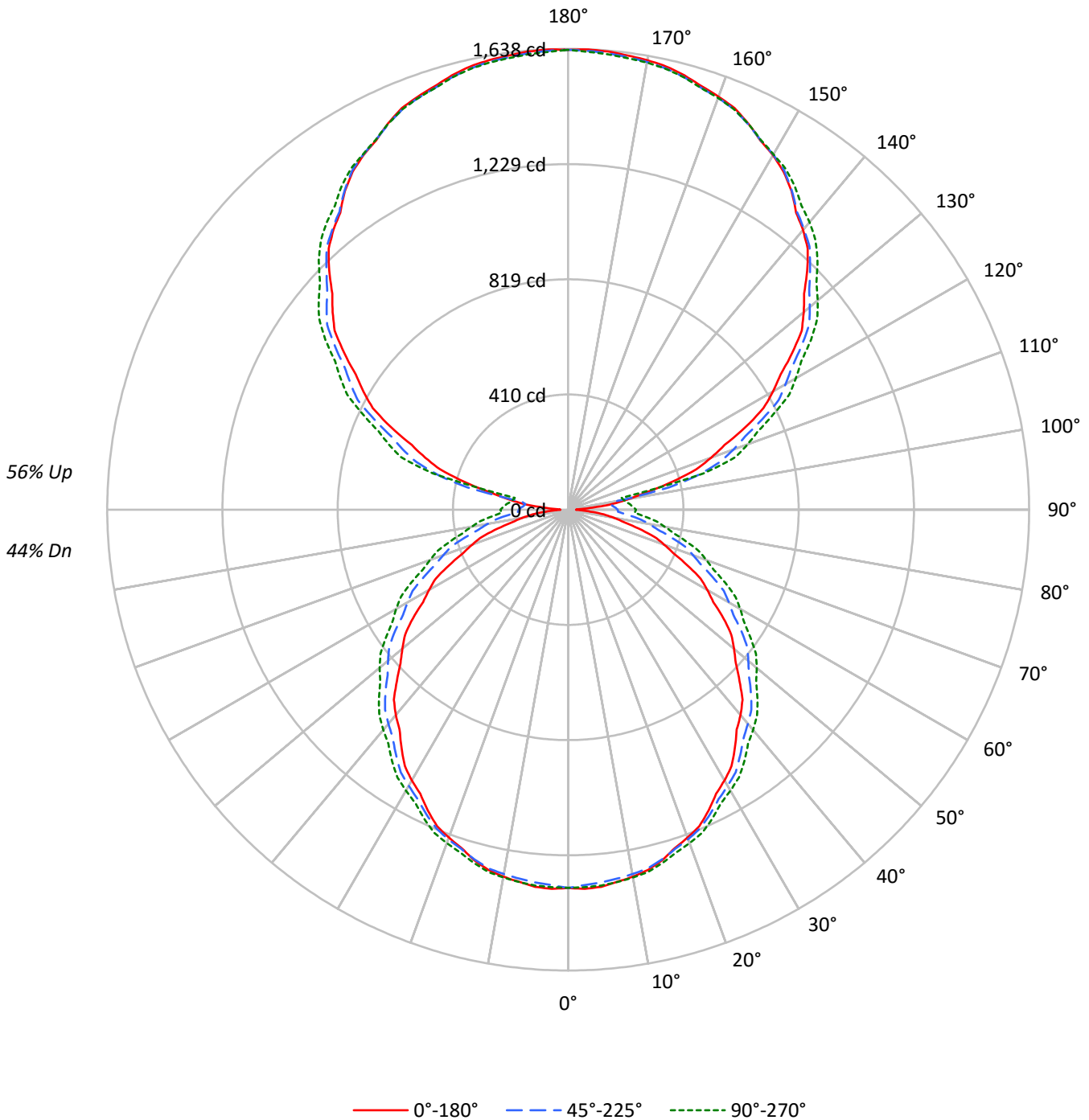
Input Watts (W): 76.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332855-830

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### Luminous Intensity Polar Plot





TEST NUMBER: P332855-830

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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 | 44 |
| 1   | 96  | 91  | 87  | 83  | 87 | 83 | 80 | 76 | 69 | 66 | 64 | 55 | 54 | 52 | 43 | 42 | 41 | 35 |
| 2   | 87  | 79  | 72  | 67  | 79 | 72 | 67 | 62 | 60 | 56 | 52 | 48 | 45 | 43 | 38 | 36 | 34 | 29 |
| 3   | 79  | 69  | 61  | 55  | 72 | 63 | 57 | 51 | 52 | 47 | 43 | 42 | 39 | 36 | 33 | 30 | 28 | 24 |
| 4   | 72  | 61  | 53  | 46  | 65 | 56 | 49 | 43 | 46 | 41 | 37 | 37 | 33 | 30 | 29 | 26 | 24 | 20 |
| 5   | 66  | 54  | 46  | 40  | 60 | 50 | 42 | 37 | 41 | 36 | 31 | 33 | 29 | 26 | 26 | 23 | 21 | 17 |
| 6   | 61  | 48  | 40  | 34  | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 18 | 15 |
| 7   | 56  | 43  | 35  | 30  | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 22 | 18 | 16 | 13 |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 14 | 12 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 22 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10  | 45  | 33  | 25  | 21  | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 21 | 17 | 14 | 17 | 14 | 12 | 10 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10851 | 10851 | 10851 |
| 5°  | 10884 | 10604 | 10635 |
| 10° | 10818 | 10431 | 10423 |
| 15° | 10721 | 10231 | 10174 |
| 20° | 10574 | 10009 | 9931  |
| 25° | 10410 | 9760  | 9665  |
| 30° | 10231 | 9513  | 9392  |
| 35° | 10029 | 9259  | 9152  |
| 40° | 9868  | 9019  | 8902  |
| 45° | 9628  | 8797  | 8688  |
| 50° | 9425  | 8541  | 8461  |
| 55° | 9216  | 8300  | 8195  |
| 60° | 8889  | 7992  | 7953  |
| 65° | 8532  | 7663  | 7655  |
| 70° | 8098  | 7286  | 7308  |
| 75° | 7493  | 6872  | 6995  |
| 80° | 6823  | 6474  | 6686  |
| 85° | 5963  | 6123  | 6505  |



TEST NUMBER: P332855-830

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.3  | 1.3       |
| 10°-20°   | 364.7  | 3.8       |
| 20°-30°   | 551.4  | 5.7       |
| 30°-40°   | 667.1  | 6.9       |
| 40°-50°   | 705.3  | 7.3       |
| 50°-60°   | 663.8  | 6.9       |
| 60°-70°   | 550.7  | 5.7       |
| 70°-80°   | 386.8  | 4.0       |
| 80°-90°   | 223.4  | 2.3       |
| 90°-100°  | 185.8  | 1.9       |
| 100°-110° | 452.6  | 4.7       |
| 110°-120° | 746.4  | 7.7       |
| 120°-130° | 902.0  | 9.4       |
| 130°-140° | 941.8  | 9.8       |
| 140°-150° | 869.2  | 9.0       |
| 150°-160° | 698.4  | 7.2       |
| 160°-170° | 450.5  | 4.7       |
| 170°-180° | 155.3  | 1.6       |
| 0°-30°    | 1043.3 | 10.8      |
| 0°-40°    | 1710.5 | 17.7      |
| 0°-60°    | 3079.5 | 31.9      |
| 0°-90°    | 4240.5 | 44.0      |
| 90°-120°  | 1384.7 | 14.4      |
| 90°-150°  | 4097.8 | 42.5      |
| 90°-180°  | 5402.0 | 56.0      |
| 0°-180°   | 9642.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1344 | 1344  | 1344 | 1344  | 1344 |      |
| 5°   | 1346 | 1341  | 1330 | 1342  | 1341 | 128  |
| 15°  | 1290 | 1291  | 1287 | 1300  | 1299 | 363  |
| 25°  | 1180 | 1189  | 1194 | 1209  | 1212 | 543  |
| 35°  | 1032 | 1050  | 1066 | 1086  | 1091 | 646  |
| 45°  | 861  | 890   | 918  | 943   | 951  | 665  |
| 55°  | 674  | 707   | 751  | 780   | 790  | 601  |
| 65°  | 467  | 515   | 566  | 602   | 616  | 462  |
| 75°  | 259  | 315   | 378  | 418   | 434  | 275  |
| 85°  | 80   | 143   | 211  | 254   | 271  | 85   |
| 90°  | 28   | 101   | 176  | 225   | 241  | 19   |
| 95°  | 87   | 98    | 158  | 204   | 221  | 102  |
| 105° | 382  | 420   | 481  | 525   | 497  | 400  |
| 115° | 696  | 715   | 760  | 794   | 806  | 685  |
| 125° | 972  | 977   | 1010 | 1041  | 1053 | 868  |
| 135° | 1201 | 1201  | 1215 | 1241  | 1253 | 926  |
| 145° | 1383 | 1385  | 1385 | 1395  | 1404 | 864  |
| 155° | 1515 | 1516  | 1512 | 1517  | 1514 | 698  |
| 165° | 1598 | 1592  | 1592 | 1600  | 1590 | 451  |
| 175° | 1635 | 1628  | 1628 | 1638  | 1625 | 156  |
| 180° | 1635 | 1635  | 1635 | 1635  | 1635 |      |



TEST NUMBER: P332855-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 |
| 2.5°   | 1348.9 | 1348.0 | 1347.3 | 1346.4 | 1345.7 | 1344.2 | 1342.0 | 1339.9 | 1337.8 | 1335.6 | 1337.5 |
| 5°     | 1345.5 | 1344.5 | 1343.5 | 1342.6 | 1341.5 | 1339.8 | 1337.5 | 1335.1 | 1332.8 | 1330.5 | 1333.1 |
| 7.5°   | 1334.1 | 1333.5 | 1332.8 | 1332.3 | 1331.7 | 1330.4 | 1328.5 | 1326.5 | 1324.6 | 1322.7 | 1325.7 |
| 10°    | 1324.5 | 1324.1 | 1323.8 | 1323.4 | 1323.1 | 1322.1 | 1320.4 | 1318.8 | 1317.1 | 1315.4 | 1318.4 |
| 12.5°  | 1311.2 | 1311.2 | 1311.1 | 1311.0 | 1311.0 | 1310.3 | 1309.2 | 1308.1 | 1306.9 | 1305.8 | 1308.5 |
| 15°    | 1289.9 | 1290.2 | 1290.5 | 1290.8 | 1291.2 | 1290.8 | 1289.9 | 1288.8 | 1287.8 | 1286.9 | 1289.9 |
| 17.5°  | 1260.7 | 1261.7 | 1262.6 | 1263.7 | 1264.6 | 1265.1 | 1264.9 | 1264.6 | 1264.4 | 1264.2 | 1267.3 |
| 20°    | 1240.2 | 1241.1 | 1242.2 | 1243.2 | 1244.2 | 1244.8 | 1245.2 | 1245.6 | 1245.9 | 1246.2 | 1249.5 |
| 22.5°  | 1217.3 | 1218.5 | 1219.8 | 1221.1 | 1222.4 | 1223.3 | 1223.9 | 1224.6 | 1225.1 | 1225.7 | 1229.1 |
| 25°    | 1180.0 | 1181.9 | 1184.0 | 1186.0 | 1188.0 | 1189.5 | 1190.5 | 1191.5 | 1192.5 | 1193.5 | 1197.2 |
| 27.5°  | 1138.4 | 1141.4 | 1144.3 | 1147.3 | 1150.2 | 1152.4 | 1154.0 | 1155.6 | 1157.1 | 1158.6 | 1162.0 |
| 30°    | 1110.7 | 1113.4 | 1116.1 | 1118.8 | 1121.4 | 1124.0 | 1126.2 | 1128.6 | 1131.0 | 1133.3 | 1137.0 |
| 32.5°  | 1080.6 | 1083.8 | 1087.0 | 1090.2 | 1093.4 | 1096.4 | 1099.0 | 1101.6 | 1104.2 | 1106.8 | 1111.1 |
| 35°    | 1032.5 | 1036.5 | 1040.5 | 1044.5 | 1048.5 | 1052.2 | 1055.6 | 1058.9 | 1062.2 | 1065.5 | 1070.3 |
| 37.5°  | 984.0  | 988.6  | 993.3  | 997.9  | 1002.5 | 1006.8 | 1011.0 | 1015.1 | 1019.3 | 1023.4 | 1028.2 |
| 40°    | 952.7  | 957.1  | 961.4  | 965.7  | 970.1  | 974.6  | 979.3  | 984.0  | 988.6  | 993.3  | 998.3  |
| 42.5°  | 916.6  | 921.4  | 926.3  | 931.2  | 936.1  | 941.3  | 946.8  | 952.3  | 957.7  | 963.3  | 968.8  |
| 45°    | 860.9  | 867.2  | 873.6  | 880.0  | 886.3  | 892.7  | 899.0  | 905.4  | 911.7  | 918.1  | 923.8  |
| 47.5°  | 807.6  | 814.2  | 820.8  | 827.3  | 833.9  | 840.8  | 848.2  | 855.5  | 862.9  | 870.2  | 876.1  |
| 50°    | 769.1  | 776.5  | 783.8  | 791.2  | 798.5  | 805.9  | 813.2  | 820.6  | 827.9  | 835.3  | 842.0  |
| 52.5°  | 730.6  | 737.9  | 745.3  | 752.6  | 760.0  | 767.9  | 776.3  | 784.8  | 793.1  | 801.6  | 808.3  |
| 55°    | 674.3  | 681.3  | 688.3  | 695.3  | 702.4  | 710.9  | 721.0  | 730.9  | 741.0  | 751.0  | 757.7  |
| 57.5°  | 611.3  | 620.1  | 628.8  | 637.4  | 646.1  | 655.4  | 665.4  | 675.4  | 685.4  | 695.3  | 703.3  |
| 60°    | 570.4  | 579.1  | 587.8  | 596.5  | 605.2  | 615.1  | 626.1  | 637.2  | 648.2  | 659.2  | 666.9  |
| 62.5°  | 530.7  | 540.2  | 549.7  | 559.2  | 568.6  | 578.9  | 590.0  | 601.1  | 612.1  | 623.1  | 630.7  |
| 65°    | 466.6  | 477.3  | 488.0  | 498.7  | 509.3  | 520.4  | 531.8  | 543.2  | 554.5  | 565.9  | 574.3  |
| 67.5°  | 404.8  | 416.2  | 427.6  | 438.9  | 450.3  | 462.1  | 474.3  | 486.4  | 498.6  | 510.9  | 519.3  |
| 70°    | 362.7  | 374.1  | 385.5  | 396.8  | 408.2  | 420.3  | 432.9  | 445.6  | 458.4  | 471.1  | 480.1  |
| 72.5°  | 321.8  | 333.4  | 345.1  | 356.7  | 368.3  | 380.9  | 394.5  | 407.9  | 421.4  | 435.0  | 443.7  |
| 75°    | 258.9  | 271.3  | 283.6  | 296.0  | 308.4  | 321.6  | 335.6  | 349.7  | 363.7  | 377.8  | 387.1  |
| 77.5°  | 200.2  | 213.3  | 226.4  | 239.5  | 252.6  | 266.6  | 281.3  | 296.0  | 310.7  | 325.4  | 334.9  |
| 80°    | 164.1  | 177.4  | 190.8  | 204.2  | 217.5  | 231.6  | 246.3  | 261.1  | 275.8  | 290.5  | 300.5  |
| 82.5°  | 127.9  | 141.9  | 155.8  | 169.7  | 183.6  | 197.9  | 212.6  | 227.3  | 242.0  | 256.7  | 267.0  |
| 85°    | 79.7   | 93.8   | 107.8  | 121.9  | 135.9  | 150.5  | 165.5  | 180.6  | 195.7  | 210.8  | 220.7  |
| 87.5°  | 45.2   | 59.6   | 73.8   | 88.0   | 102.3  | 116.9  | 132.1  | 147.1  | 162.2  | 177.3  | 187.3  |
| 90°    | 27.7   | 44.1   | 60.5   | 76.8   | 93.2   | 109.7  | 126.2  | 142.8  | 159.4  | 175.9  | 187.2  |
| 92.5°  | 38.3   | 50.5   | 62.7   | 74.9   | 87.1   | 101.5  | 118.0  | 134.6  | 151.2  | 167.7  | 178.8  |
| 95°    | 86.8   | 88.6   | 90.4   | 92.2   | 94.0   | 101.9  | 115.8  | 129.9  | 143.8  | 157.9  | 168.5  |
| 97.5°  | 160.5  | 175.8  | 191.1  | 206.3  | 221.6  | 220.8  | 204.1  | 187.4  | 170.6  | 153.9  | 162.8  |
| 100°   | 217.1  | 230.6  | 244.2  | 257.8  | 271.4  | 266.0  | 241.5  | 217.1  | 192.7  | 168.1  | 172.6  |
| 102.5° | 281.6  | 292.8  | 304.1  | 315.3  | 326.4  | 336.0  | 343.8  | 351.8  | 359.7  | 367.5  | 326.5  |
| 105°   | 381.5  | 389.8  | 398.1  | 406.5  | 414.8  | 425.8  | 439.6  | 453.3  | 467.0  | 480.8  | 491.5  |
| 107.5° | 476.8  | 483.1  | 489.5  | 495.7  | 502.0  | 512.0  | 525.5  | 539.0  | 552.6  | 566.2  | 575.6  |
| 110°   | 540.2  | 545.6  | 551.2  | 556.7  | 562.1  | 571.6  | 584.9  | 598.2  | 611.6  | 624.9  | 633.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 601.5  | 607.2  | 612.7  | 618.4  | 624.1  | 632.8  | 644.7  | 656.7  | 668.5  | 680.5  | 687.9  |
| 115°   | 696.1  | 699.9  | 703.7  | 707.6  | 711.4  | 718.5  | 729.0  | 739.4  | 749.8  | 760.3  | 768.2  |
| 117.5° | 782.6  | 785.5  | 788.3  | 791.3  | 794.2  | 800.9  | 811.4  | 822.0  | 832.5  | 843.1  | 850.0  |
| 120°   | 840.1  | 842.2  | 844.2  | 846.3  | 848.4  | 854.2  | 863.7  | 873.1  | 882.5  | 891.9  | 899.1  |
| 122.5° | 894.8  | 895.7  | 896.5  | 897.4  | 898.2  | 903.4  | 912.9  | 922.6  | 932.1  | 941.6  | 948.7  |
| 125°   | 971.9  | 972.6  | 973.4  | 974.1  | 974.9  | 979.1  | 986.9  | 994.8  | 1002.6 | 1010.4 | 1017.6 |
| 127.5° | 1045.8 | 1045.8 | 1045.8 | 1045.7 | 1045.6 | 1049.4 | 1057.1 | 1064.8 | 1072.4 | 1080.1 | 1085.9 |
| 130°   | 1092.6 | 1092.5 | 1092.4 | 1092.4 | 1092.3 | 1095.3 | 1101.5 | 1107.7 | 1113.9 | 1120.0 | 1126.3 |
| 132.5° | 1136.6 | 1136.7 | 1136.9 | 1137.1 | 1137.2 | 1139.9 | 1145.3 | 1150.6 | 1155.8 | 1161.2 | 1167.2 |
| 135°   | 1201.1 | 1200.8 | 1200.5 | 1200.2 | 1200.0 | 1201.6 | 1205.0 | 1208.4 | 1211.8 | 1215.3 | 1221.2 |
| 137.5° | 1259.5 | 1259.3 | 1259.0 | 1258.9 | 1258.7 | 1259.7 | 1262.0 | 1264.3 | 1266.7 | 1269.0 | 1274.5 |
| 140°   | 1297.7 | 1297.9 | 1298.1 | 1298.3 | 1298.5 | 1299.0 | 1300.0 | 1300.8 | 1301.7 | 1302.6 | 1307.7 |
| 142.5° | 1330.7 | 1331.6 | 1332.6 | 1333.4 | 1334.4 | 1334.8 | 1335.0 | 1335.1 | 1335.2 | 1335.4 | 1339.7 |
| 145°   | 1383.0 | 1383.5 | 1383.9 | 1384.4 | 1384.9 | 1385.2 | 1385.2 | 1385.2 | 1385.2 | 1385.2 | 1387.4 |
| 147.5° | 1424.7 | 1426.0 | 1427.1 | 1428.3 | 1429.6 | 1430.0 | 1429.7 | 1429.5 | 1429.2 | 1428.9 | 1429.4 |
| 150°   | 1455.1 | 1455.9 | 1456.6 | 1457.4 | 1458.1 | 1458.3 | 1458.1 | 1457.8 | 1457.5 | 1457.3 | 1457.3 |
| 152.5° | 1479.3 | 1480.2 | 1480.9 | 1481.8 | 1482.5 | 1482.7 | 1482.2 | 1481.7 | 1481.2 | 1480.7 | 1481.2 |
| 155°   | 1514.8 | 1514.9 | 1515.2 | 1515.5 | 1515.8 | 1515.5 | 1514.8 | 1513.9 | 1513.1 | 1512.3 | 1513.3 |
| 157.5° | 1544.8 | 1544.6 | 1544.5 | 1544.3 | 1544.2 | 1543.6 | 1542.7 | 1541.7 | 1540.9 | 1539.9 | 1541.3 |
| 160°   | 1562.4 | 1561.6 | 1560.8 | 1559.9 | 1559.2 | 1558.6 | 1558.3 | 1558.0 | 1557.7 | 1557.6 | 1559.2 |
| 162.5° | 1578.0 | 1577.0 | 1576.0 | 1575.0 | 1574.0 | 1573.3 | 1573.0 | 1572.7 | 1572.4 | 1572.2 | 1573.8 |
| 165°   | 1597.9 | 1596.5 | 1595.2 | 1593.7 | 1592.4 | 1591.8 | 1591.8 | 1591.8 | 1591.8 | 1591.8 | 1593.9 |
| 167.5° | 1613.5 | 1612.1 | 1610.7 | 1609.3 | 1607.9 | 1607.0 | 1606.9 | 1606.8 | 1606.6 | 1606.4 | 1608.8 |
| 170°   | 1622.3 | 1620.7 | 1619.0 | 1617.4 | 1615.8 | 1615.1 | 1615.3 | 1615.6 | 1615.9 | 1616.2 | 1618.3 |
| 172.5° | 1628.1 | 1626.5 | 1624.9 | 1623.2 | 1621.6 | 1621.0 | 1621.3 | 1621.6 | 1621.7 | 1622.0 | 1624.2 |
| 175°   | 1634.6 | 1632.9 | 1631.3 | 1629.7 | 1628.0 | 1627.3 | 1627.6 | 1627.9 | 1628.1 | 1628.4 | 1630.9 |
| 177.5° | 1637.5 | 1636.0 | 1634.4 | 1632.9 | 1631.4 | 1630.8 | 1631.3 | 1631.7 | 1632.1 | 1632.6 | 1634.3 |
| 180°   | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 |



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CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 |
| 2.5°   | 1339.4 | 1341.2 | 1343.1 | 1343.9 | 1343.6 | 1343.3 | 1343.1 | 1342.8 |
| 5°     | 1335.9 | 1338.5 | 1341.1 | 1342.4 | 1342.0 | 1341.7 | 1341.3 | 1341.0 |
| 7.5°   | 1328.7 | 1331.7 | 1334.7 | 1336.1 | 1335.7 | 1335.4 | 1335.0 | 1334.7 |
| 10°    | 1321.4 | 1324.5 | 1327.5 | 1328.8 | 1328.5 | 1328.1 | 1327.8 | 1327.5 |
| 12.5°  | 1311.3 | 1314.0 | 1316.7 | 1318.1 | 1318.1 | 1318.0 | 1317.9 | 1317.9 |
| 15°    | 1292.9 | 1295.9 | 1298.8 | 1300.2 | 1299.9 | 1299.6 | 1299.2 | 1298.8 |
| 17.5°  | 1270.5 | 1273.5 | 1276.6 | 1278.0 | 1277.7 | 1277.4 | 1277.1 | 1276.9 |
| 20°    | 1252.9 | 1256.2 | 1259.6 | 1261.2 | 1261.2 | 1261.2 | 1261.2 | 1261.2 |
| 22.5°  | 1232.4 | 1235.8 | 1239.1 | 1241.0 | 1241.6 | 1242.1 | 1242.6 | 1243.2 |
| 25°    | 1200.9 | 1204.6 | 1208.2 | 1210.2 | 1210.6 | 1210.9 | 1211.3 | 1211.5 |
| 27.5°  | 1165.5 | 1168.8 | 1172.2 | 1174.1 | 1174.6 | 1175.0 | 1175.4 | 1175.7 |
| 30°    | 1140.7 | 1144.3 | 1148.0 | 1150.2 | 1150.8 | 1151.5 | 1152.2 | 1152.9 |
| 32.5°  | 1115.2 | 1119.5 | 1123.7 | 1126.1 | 1126.8 | 1127.5 | 1128.1 | 1128.8 |
| 35°    | 1075.0 | 1079.6 | 1084.3 | 1087.1 | 1088.2 | 1089.2 | 1090.1 | 1091.2 |
| 37.5°  | 1032.9 | 1037.6 | 1042.5 | 1045.4 | 1046.4 | 1047.4 | 1048.6 | 1049.6 |
| 40°    | 1003.3 | 1008.4 | 1013.4 | 1016.6 | 1017.9 | 1019.3 | 1020.6 | 1021.9 |
| 42.5°  | 974.3  | 979.9  | 985.4  | 988.7  | 989.9  | 990.9  | 991.9  | 993.1  |
| 45°    | 929.4  | 935.2  | 940.8  | 944.5  | 946.2  | 947.8  | 949.5  | 951.2  |
| 47.5°  | 882.0  | 887.9  | 893.8  | 897.7  | 899.8  | 901.7  | 903.7  | 905.8  |
| 50°    | 848.7  | 855.4  | 862.0  | 866.4  | 868.5  | 870.4  | 872.4  | 874.4  |
| 52.5°  | 815.0  | 821.7  | 828.3  | 832.7  | 834.7  | 836.7  | 838.7  | 840.7  |
| 55°    | 764.4  | 771.1  | 777.8  | 782.1  | 784.1  | 786.2  | 788.2  | 790.1  |
| 57.5°  | 711.2  | 719.3  | 727.2  | 732.1  | 734.0  | 735.8  | 737.7  | 739.6  |
| 60°    | 674.6  | 682.3  | 689.9  | 695.1  | 697.9  | 700.5  | 703.2  | 705.9  |
| 62.5°  | 638.5  | 646.2  | 653.8  | 659.0  | 661.8  | 664.4  | 667.0  | 669.8  |
| 65°    | 582.6  | 591.0  | 599.4  | 604.8  | 607.6  | 610.2  | 612.9  | 615.6  |
| 67.5°  | 527.8  | 536.3  | 544.8  | 550.4  | 553.0  | 555.5  | 558.2  | 560.8  |
| 70°    | 489.2  | 498.1  | 507.2  | 512.9  | 515.2  | 517.6  | 519.9  | 522.3  |
| 72.5°  | 452.5  | 461.3  | 470.0  | 475.7  | 478.3  | 480.9  | 483.5  | 486.2  |
| 75°    | 396.5  | 405.9  | 415.2  | 421.4  | 424.4  | 427.4  | 430.5  | 433.5  |
| 77.5°  | 344.4  | 353.9  | 363.4  | 369.8  | 373.0  | 376.2  | 379.4  | 382.6  |
| 80°    | 310.6  | 320.6  | 330.6  | 337.0  | 339.6  | 342.3  | 345.0  | 347.7  |
| 82.5°  | 277.4  | 287.7  | 297.9  | 304.6  | 307.6  | 310.5  | 313.4  | 316.3  |
| 85°    | 230.7  | 240.8  | 250.8  | 257.5  | 260.9  | 264.2  | 267.6  | 270.9  |
| 87.5°  | 197.3  | 207.4  | 217.4  | 223.9  | 227.0  | 230.0  | 233.1  | 236.1  |
| 90°    | 198.6  | 209.9  | 221.2  | 228.5  | 231.7  | 234.9  | 238.2  | 241.4  |
| 92.5°  | 189.8  | 200.9  | 212.0  | 218.9  | 221.7  | 224.4  | 227.2  | 230.0  |
| 95°    | 179.2  | 189.8  | 200.5  | 207.5  | 210.8  | 214.1  | 217.3  | 220.6  |
| 97.5°  | 171.7  | 180.7  | 189.5  | 195.6  | 198.8  | 201.9  | 205.1  | 208.2  |
| 100°   | 177.0  | 181.4  | 185.9  | 189.4  | 192.0  | 194.5  | 197.2  | 199.8  |
| 102.5° | 285.4  | 244.4  | 203.3  | 184.1  | 186.7  | 189.5  | 192.1  | 194.7  |
| 105°   | 502.4  | 513.2  | 524.0  | 525.8  | 518.8  | 511.6  | 504.5  | 497.4  |
| 107.5° | 585.0  | 594.5  | 603.9  | 610.3  | 613.7  | 617.2  | 620.6  | 624.1  |
| 110°   | 641.4  | 649.6  | 657.9  | 663.7  | 667.2  | 670.7  | 674.2  | 677.7  |





TEST NUMBER: P332855-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 695.1  | 702.5  | 709.8  | 715.3  | 719.0  | 722.7  | 726.4  | 730.1  |
| 115°   | 776.1  | 783.9  | 791.8  | 797.0  | 799.3  | 801.6  | 804.0  | 806.3  |
| 117.5° | 856.9  | 863.7  | 870.5  | 875.2  | 877.8  | 880.4  | 883.0  | 885.5  |
| 120°   | 906.3  | 913.6  | 920.9  | 925.5  | 927.7  | 929.8  | 931.9  | 934.1  |
| 122.5° | 955.6  | 962.7  | 969.7  | 974.1  | 976.0  | 977.9  | 979.7  | 981.6  |
| 125°   | 1024.7 | 1031.9 | 1039.1 | 1043.8 | 1046.0 | 1048.4 | 1050.7 | 1052.9 |
| 127.5° | 1091.8 | 1097.7 | 1103.5 | 1107.5 | 1109.6 | 1111.5 | 1113.6 | 1115.7 |
| 130°   | 1132.7 | 1138.9 | 1145.2 | 1149.3 | 1151.3 | 1153.4 | 1155.4 | 1157.3 |
| 132.5° | 1173.3 | 1179.2 | 1185.2 | 1189.2 | 1191.0 | 1192.8 | 1194.6 | 1196.4 |
| 135°   | 1227.1 | 1232.9 | 1238.9 | 1243.1 | 1245.7 | 1248.2 | 1250.8 | 1253.3 |
| 137.5° | 1280.0 | 1285.4 | 1290.9 | 1294.4 | 1295.9 | 1297.4 | 1298.9 | 1300.4 |
| 140°   | 1312.9 | 1318.1 | 1323.2 | 1326.7 | 1328.7 | 1330.7 | 1332.6 | 1334.5 |
| 142.5° | 1344.2 | 1348.6 | 1353.0 | 1355.9 | 1357.4 | 1358.9 | 1360.3 | 1361.8 |
| 145°   | 1389.7 | 1391.9 | 1394.2 | 1396.3 | 1398.2 | 1400.1 | 1401.9 | 1403.8 |
| 147.5° | 1429.8 | 1430.3 | 1430.9 | 1431.7 | 1433.1 | 1434.5 | 1435.8 | 1437.1 |
| 150°   | 1457.3 | 1457.3 | 1457.3 | 1457.4 | 1457.6 | 1457.9 | 1458.2 | 1458.5 |
| 152.5° | 1481.6 | 1482.1 | 1482.4 | 1482.6 | 1482.4 | 1482.2 | 1482.1 | 1482.0 |
| 155°   | 1514.5 | 1515.5 | 1516.6 | 1516.7 | 1516.0 | 1515.1 | 1514.3 | 1513.5 |
| 157.5° | 1542.8 | 1544.2 | 1545.6 | 1545.6 | 1544.2 | 1542.8 | 1541.3 | 1539.9 |
| 160°   | 1560.8 | 1562.4 | 1564.1 | 1564.1 | 1562.4 | 1560.8 | 1559.2 | 1557.6 |
| 162.5° | 1575.5 | 1577.1 | 1578.7 | 1578.6 | 1576.8 | 1574.9 | 1573.0 | 1571.2 |
| 165°   | 1596.1 | 1598.3 | 1600.4 | 1600.2 | 1597.9 | 1595.4 | 1593.0 | 1590.5 |
| 167.5° | 1611.2 | 1613.5 | 1616.0 | 1615.8 | 1613.1 | 1610.3 | 1607.7 | 1605.0 |
| 170°   | 1620.5 | 1622.7 | 1624.8 | 1624.6 | 1621.9 | 1619.2 | 1616.5 | 1613.7 |
| 172.5° | 1626.4 | 1628.6 | 1630.8 | 1630.4 | 1627.4 | 1624.5 | 1621.6 | 1618.6 |
| 175°   | 1633.3 | 1635.8 | 1638.2 | 1637.8 | 1634.6 | 1631.3 | 1628.0 | 1624.8 |
| 177.5° | 1636.1 | 1637.8 | 1639.6 | 1639.1 | 1636.4 | 1633.9 | 1631.3 | 1628.6 |
| 180°   | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 |

(END OF REPORT)