

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: P332674-830

Luminaire Tested: **S124DIP-S1195D365U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

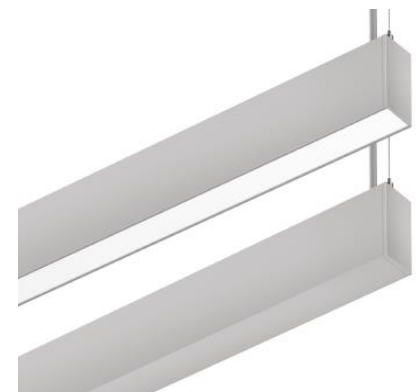
**Test Information**

Test Method: LM-79-08  
Report Number: P332674-830  
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: S124DIP-S1195D365U830-4F0-1E-UDD-D1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5777.7 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

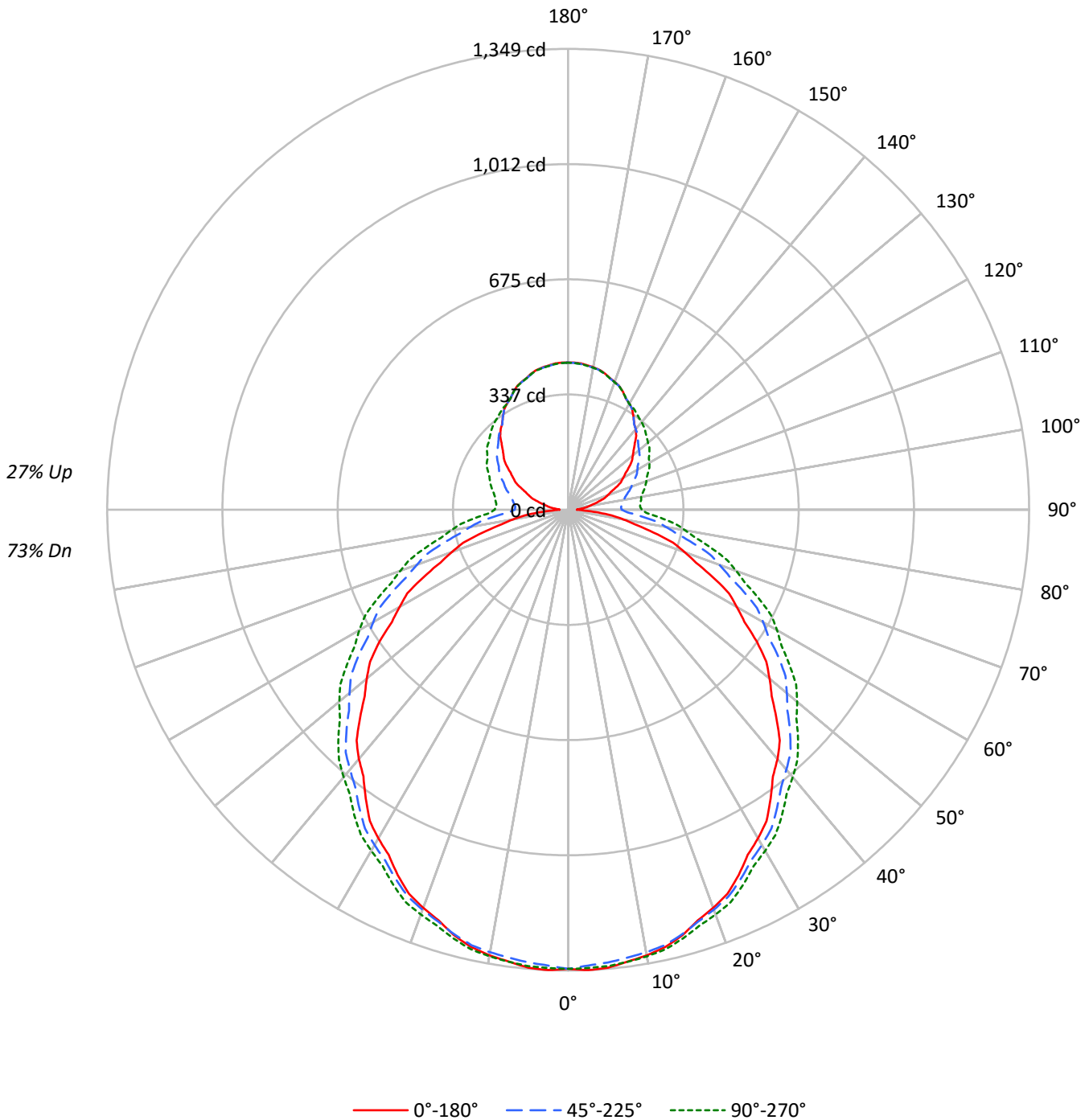
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332674-830

CATALOG NUMBER: S124DIP-S1195D365U830-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P332674-830

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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   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 87 | 87 | 87 | 78 | 78 | 78 | 73 |
| 1   | 102 | 96  | 92  | 88  | 96  | 92  | 87  | 84  | 82 | 79 | 76 | 74 | 72 | 69 | 66 | 64 | 63 | 59 |
| 2   | 92  | 83  | 76  | 70  | 87  | 79  | 73  | 68  | 71 | 66 | 62 | 64 | 60 | 57 | 57 | 54 | 52 | 48 |
| 3   | 83  | 73  | 65  | 58  | 79  | 69  | 62  | 56  | 62 | 56 | 51 | 56 | 51 | 47 | 50 | 46 | 43 | 40 |
| 4   | 76  | 64  | 55  | 49  | 72  | 61  | 53  | 47  | 55 | 49 | 43 | 50 | 44 | 40 | 45 | 40 | 37 | 34 |
| 5   | 70  | 57  | 48  | 42  | 66  | 54  | 46  | 40  | 49 | 43 | 37 | 45 | 39 | 35 | 40 | 36 | 32 | 29 |
| 6   | 64  | 51  | 42  | 36  | 61  | 49  | 41  | 35  | 44 | 38 | 32 | 40 | 34 | 30 | 36 | 32 | 28 | 25 |
| 7   | 60  | 46  | 38  | 32  | 56  | 44  | 36  | 31  | 40 | 33 | 29 | 37 | 31 | 27 | 33 | 28 | 25 | 22 |
| 8   | 55  | 42  | 34  | 28  | 52  | 40  | 32  | 27  | 37 | 30 | 25 | 33 | 28 | 24 | 30 | 26 | 22 | 20 |
| 9   | 52  | 38  | 30  | 25  | 49  | 37  | 29  | 24  | 34 | 27 | 23 | 31 | 25 | 21 | 28 | 23 | 20 | 18 |
| 10  | 48  | 35  | 28  | 22  | 46  | 34  | 27  | 22  | 31 | 25 | 21 | 28 | 23 | 19 | 26 | 21 | 18 | 16 |

**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  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.3  | 2.2       |
| 10°-20°   | 364.7  | 6.3       |
| 20°-30°   | 551.4  | 9.5       |
| 30°-40°   | 667.1  | 11.5      |
| 40°-50°   | 705.3  | 12.2      |
| 50°-60°   | 663.8  | 11.5      |
| 60°-70°   | 550.7  | 9.5       |
| 70°-80°   | 386.8  | 6.7       |
| 80°-90°   | 220.0  | 3.8       |
| 90°-100°  | 158.3  | 2.7       |
| 100°-110° | 180.3  | 3.1       |
| 110°-120° | 207.3  | 3.6       |
| 120°-130° | 224.7  | 3.9       |
| 130°-140° | 227.2  | 3.9       |
| 140°-150° | 211.0  | 3.7       |
| 150°-160° | 174.8  | 3.0       |
| 160°-170° | 116.3  | 2.0       |
| 170°-180° | 40.7   | 0.7       |
| 0°-30°    | 1043.3 | 18.1      |
| 0°-40°    | 1710.5 | 29.6      |
| 0°-60°    | 3079.5 | 53.3      |
| 0°-90°    | 4237.1 | 73.3      |
| 90°-120°  | 545.8  | 9.4       |
| 90°-150°  | 1208.8 | 20.9      |
| 90°-180°  | 1541.0 | 26.7      |
| 0°-180°   | 5777.7 | 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°  | 25   | 89    | 156  | 200   | 215  | 17   |
| 95°  | 40   | 93    | 156  | 196   | 211  | 38   |
| 105° | 91   | 123   | 179  | 216   | 230  | 98   |
| 115° | 154  | 170   | 215  | 247   | 258  | 153  |
| 125° | 218  | 218   | 253  | 280   | 290  | 194  |
| 135° | 276  | 278   | 288  | 311   | 320  | 214  |
| 145° | 333  | 333   | 333  | 342   | 347  | 208  |
| 155° | 380  | 380   | 379  | 380   | 379  | 175  |
| 165° | 413  | 412   | 412  | 413   | 412  | 116  |
| 175° | 430  | 428   | 428  | 430   | 428  | 41   |
| 180° | 431  | 431   | 431  | 431   | 431  |      |



TEST NUMBER: P332674-830

CATALOG NUMBER: S124DIP-S1195D365U830-4F0-1E-UDD-D1

**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°  | 44.8   | 58.5   | 72.4   | 86.1   | 100.0  | 114.2  | 129.0  | 143.8  | 158.5  | 173.3  | 183.1  |
| 90°    | 25.1   | 39.3   | 53.4   | 67.7   | 81.8   | 96.4   | 111.4  | 126.4  | 141.4  | 156.4  | 166.5  |
| 92.5°  | 30.0   | 43.0   | 56.0   | 68.9   | 81.9   | 95.8   | 110.6  | 125.4  | 140.2  | 155.0  | 164.7  |
| 95°    | 39.6   | 51.3   | 63.0   | 74.6   | 86.3   | 99.3   | 113.6  | 127.8  | 142.0  | 156.3  | 165.5  |
| 97.5°  | 52.7   | 62.7   | 72.8   | 82.8   | 92.7   | 104.9  | 119.0  | 133.3  | 147.4  | 161.6  | 170.7  |
| 100°   | 63.2   | 72.2   | 81.2   | 90.2   | 99.2   | 110.5  | 124.2  | 137.9  | 151.7  | 165.3  | 174.6  |
| 102.5° | 75.4   | 83.2   | 91.0   | 98.7   | 106.4  | 117.0  | 130.4  | 143.7  | 157.1  | 170.5  | 179.5  |
| 105°   | 91.1   | 97.9   | 104.7  | 111.4  | 118.2  | 127.9  | 140.6  | 153.3  | 165.9  | 178.6  | 187.2  |
| 107.5° | 110.5  | 116.0  | 121.7  | 127.2  | 132.8  | 141.5  | 153.2  | 164.9  | 176.7  | 188.4  | 196.9  |
| 110°   | 122.6  | 127.4  | 132.2  | 137.1  | 141.9  | 150.1  | 161.8  | 173.4  | 185.0  | 196.7  | 204.2  |



TEST NUMBER: P332674-830

CATALOG NUMBER: S124DIP-S1195D365U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 135.3 | 139.4 | 143.6 | 147.8 | 151.9 | 159.6 | 170.6 | 181.6 | 192.7 | 203.8 | 211.1 |
| 115°   | 154.2 | 157.2 | 160.2 | 163.2 | 166.3 | 173.1 | 183.6 | 194.2 | 204.7 | 215.3 | 222.5 |
| 117.5° | 173.5 | 175.4 | 177.3 | 179.1 | 181.0 | 186.8 | 196.7 | 206.6 | 216.4 | 226.3 | 233.0 |
| 120°   | 185.4 | 186.7 | 187.9 | 189.3 | 190.6 | 196.0 | 205.5 | 214.9 | 224.4 | 233.8 | 240.2 |
| 122.5° | 199.0 | 199.3 | 199.6 | 199.9 | 200.3 | 204.9 | 214.0 | 223.1 | 232.1 | 241.2 | 247.6 |
| 125°   | 217.5 | 217.2 | 216.9 | 216.5 | 216.2 | 220.2 | 228.5 | 236.8 | 245.1 | 253.3 | 259.5 |
| 127.5° | 235.4 | 235.3 | 235.2 | 235.1 | 235.0 | 238.1 | 244.3 | 250.6 | 256.9 | 263.3 | 269.1 |
| 130°   | 246.9 | 246.9 | 246.8 | 246.7 | 246.6 | 249.1 | 254.5 | 259.9 | 265.2 | 270.6 | 276.4 |
| 132.5° | 260.0 | 259.9 | 259.7 | 259.5 | 259.4 | 261.4 | 265.6 | 269.8 | 274.1 | 278.2 | 283.9 |
| 135°   | 275.8 | 276.3 | 276.6 | 277.1 | 277.6 | 279.0 | 281.3 | 283.6 | 286.0 | 288.3 | 293.5 |
| 137.5° | 294.5 | 294.5 | 294.4 | 294.2 | 294.1 | 294.6 | 295.9 | 297.2 | 298.4 | 299.6 | 304.3 |
| 140°   | 307.1 | 306.9 | 306.7 | 306.5 | 306.3 | 306.4 | 306.8 | 307.1 | 307.5 | 307.7 | 312.1 |
| 142.5° | 317.4 | 317.4 | 317.5 | 317.6 | 317.6 | 317.5 | 317.4 | 317.1 | 316.8 | 316.5 | 320.4 |
| 145°   | 332.9 | 332.9 | 332.8 | 332.8 | 332.7 | 332.8 | 332.8 | 332.9 | 333.0 | 333.1 | 335.0 |
| 147.5° | 348.6 | 348.6 | 348.6 | 348.6 | 348.7 | 348.6 | 348.6 | 348.6 | 348.6 | 348.5 | 348.6 |
| 150°   | 358.3 | 358.2 | 358.2 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 |
| 152.5° | 366.1 | 366.2 | 366.3 | 366.4 | 366.6 | 366.6 | 366.6 | 366.7 | 366.7 | 366.8 | 367.0 |
| 155°   | 379.7 | 379.7 | 379.7 | 379.7 | 379.7 | 379.7 | 379.6 | 379.5 | 379.5 | 379.4 | 379.7 |
| 157.5° | 391.4 | 391.2 | 391.2 | 391.1 | 390.9 | 390.8 | 390.8 | 390.8 | 390.8 | 390.8 | 391.0 |
| 160°   | 398.3 | 398.2 | 398.2 | 398.1 | 398.0 | 397.9 | 397.9 | 397.8 | 397.8 | 397.7 | 397.9 |
| 162.5° | 404.7 | 404.5 | 404.4 | 404.2 | 404.0 | 403.9 | 403.8 | 403.7 | 403.6 | 403.5 | 404.0 |
| 165°   | 413.3 | 413.1 | 412.9 | 412.6 | 412.5 | 412.3 | 412.1 | 412.0 | 411.8 | 411.7 | 412.1 |
| 167.5° | 419.9 | 419.6 | 419.3 | 419.0 | 418.7 | 418.5 | 418.6 | 418.6 | 418.6 | 418.6 | 419.1 |
| 170°   | 423.7 | 423.3 | 422.9 | 422.5 | 422.2 | 422.1 | 422.1 | 422.2 | 422.3 | 422.4 | 422.7 |
| 172.5° | 426.3 | 426.0 | 425.7 | 425.4 | 425.1 | 424.9 | 424.9 | 425.0 | 425.0 | 425.0 | 425.5 |
| 175°   | 430.0 | 429.6 | 429.2 | 428.9 | 428.5 | 428.3 | 428.2 | 428.1 | 428.1 | 428.0 | 428.5 |
| 177.5° | 431.2 | 430.9 | 430.6 | 430.3 | 430.0 | 429.9 | 429.9 | 429.9 | 429.9 | 429.9 | 430.3 |
| 180°   | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 |



TEST NUMBER: P332674-830

CATALOG NUMBER: S124DIP-S1195D365U830-4F0-1E-UDD-D1

**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°  | 192.9  | 202.7  | 212.4  | 218.9  | 221.9  | 224.8  | 227.8  | 230.7  |
| 90°    | 176.6  | 186.7  | 196.9  | 203.4  | 206.2  | 209.1  | 211.9  | 214.7  |
| 92.5°  | 174.4  | 184.1  | 193.8  | 200.0  | 202.7  | 205.5  | 208.3  | 211.0  |
| 95°    | 174.7  | 184.0  | 193.2  | 199.3  | 202.4  | 205.4  | 208.4  | 211.4  |
| 97.5°  | 179.7  | 188.7  | 197.7  | 203.7  | 206.6  | 209.4  | 212.4  | 215.2  |
| 100°   | 183.7  | 192.8  | 202.1  | 207.8  | 210.2  | 212.5  | 214.8  | 217.2  |
| 102.5° | 188.4  | 197.5  | 206.4  | 212.2  | 214.9  | 217.5  | 220.2  | 222.9  |
| 105°   | 195.8  | 204.3  | 212.9  | 218.7  | 221.6  | 224.5  | 227.3  | 230.3  |
| 107.5° | 205.3  | 213.8  | 222.2  | 227.6  | 230.0  | 232.4  | 234.8  | 237.1  |
| 110°   | 211.8  | 219.3  | 226.9  | 232.1  | 235.0  | 237.9  | 240.8  | 243.6  |





TEST NUMBER: P332674-830

CATALOG NUMBER: S124DIP-S1195D365U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 218.5 | 225.9 | 233.3 | 238.4 | 241.1 | 243.8 | 246.6 | 249.2 |
| 115°   | 229.9 | 237.1 | 244.4 | 249.2 | 251.5 | 253.7 | 256.0 | 258.3 |
| 117.5° | 239.7 | 246.4 | 253.2 | 257.8 | 260.2 | 262.8 | 265.3 | 267.9 |
| 120°   | 246.5 | 252.8 | 259.1 | 263.7 | 266.6 | 269.4 | 272.2 | 275.0 |
| 122.5° | 254.0 | 260.5 | 266.9 | 271.3 | 273.3 | 275.5 | 277.7 | 279.7 |
| 125°   | 265.7 | 271.9 | 278.1 | 282.2 | 284.0 | 285.9 | 287.8 | 289.6 |
| 127.5° | 275.0 | 280.9 | 286.7 | 290.8 | 292.9 | 295.1 | 297.2 | 299.4 |
| 130°   | 282.3 | 288.1 | 294.1 | 297.8 | 299.5 | 301.2 | 302.9 | 304.7 |
| 132.5° | 289.5 | 295.1 | 300.7 | 304.4 | 306.3 | 308.2 | 310.1 | 312.0 |
| 135°   | 298.7 | 304.0 | 309.2 | 312.6 | 314.4 | 316.2 | 318.0 | 319.8 |
| 137.5° | 309.1 | 313.7 | 318.4 | 321.6 | 323.3 | 325.1 | 326.8 | 328.5 |
| 140°   | 316.3 | 320.6 | 324.9 | 327.8 | 329.4 | 331.0 | 332.6 | 334.2 |
| 142.5° | 324.1 | 327.9 | 331.8 | 334.3 | 335.7 | 337.1 | 338.5 | 339.9 |
| 145°   | 337.0 | 338.8 | 340.8 | 342.3 | 343.5 | 344.6 | 345.6 | 346.8 |
| 147.5° | 348.8 | 349.1 | 349.3 | 349.9 | 350.9 | 351.9 | 352.9 | 353.8 |
| 150°   | 358.1 | 358.1 | 358.1 | 358.0 | 358.0 | 357.9 | 357.8 | 357.7 |
| 152.5° | 367.2 | 367.4 | 367.6 | 367.5 | 367.3 | 367.1 | 366.9 | 366.7 |
| 155°   | 379.9 | 380.2 | 380.5 | 380.5 | 380.2 | 379.9 | 379.7 | 379.4 |
| 157.5° | 391.2 | 391.4 | 391.6 | 391.6 | 391.3 | 391.2 | 390.9 | 390.6 |
| 160°   | 398.1 | 398.3 | 398.6 | 398.5 | 398.1 | 397.8 | 397.4 | 397.0 |
| 162.5° | 404.4 | 404.7 | 405.1 | 405.1 | 404.8 | 404.4 | 404.1 | 403.7 |
| 165°   | 412.6 | 413.0 | 413.4 | 413.5 | 413.2 | 412.9 | 412.6 | 412.4 |
| 167.5° | 419.5 | 419.9 | 420.4 | 420.4 | 419.9 | 419.4 | 419.0 | 418.5 |
| 170°   | 423.2 | 423.7 | 424.1 | 424.0 | 423.6 | 423.0 | 422.5 | 422.0 |
| 172.5° | 426.0 | 426.5 | 427.0 | 427.0 | 426.5 | 425.9 | 425.5 | 424.9 |
| 175°   | 429.0 | 429.5 | 430.1 | 430.1 | 429.5 | 429.0 | 428.5 | 428.0 |
| 177.5° | 430.6 | 431.1 | 431.5 | 431.5 | 431.0 | 430.6 | 430.1 | 429.6 |
| 180°   | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 | 430.6 |

(END OF REPORT)