

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: P332606

Luminaire Tested: **S124DIP-S795D810U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332606  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S795D810U835-4F0-1E-UDD-F4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

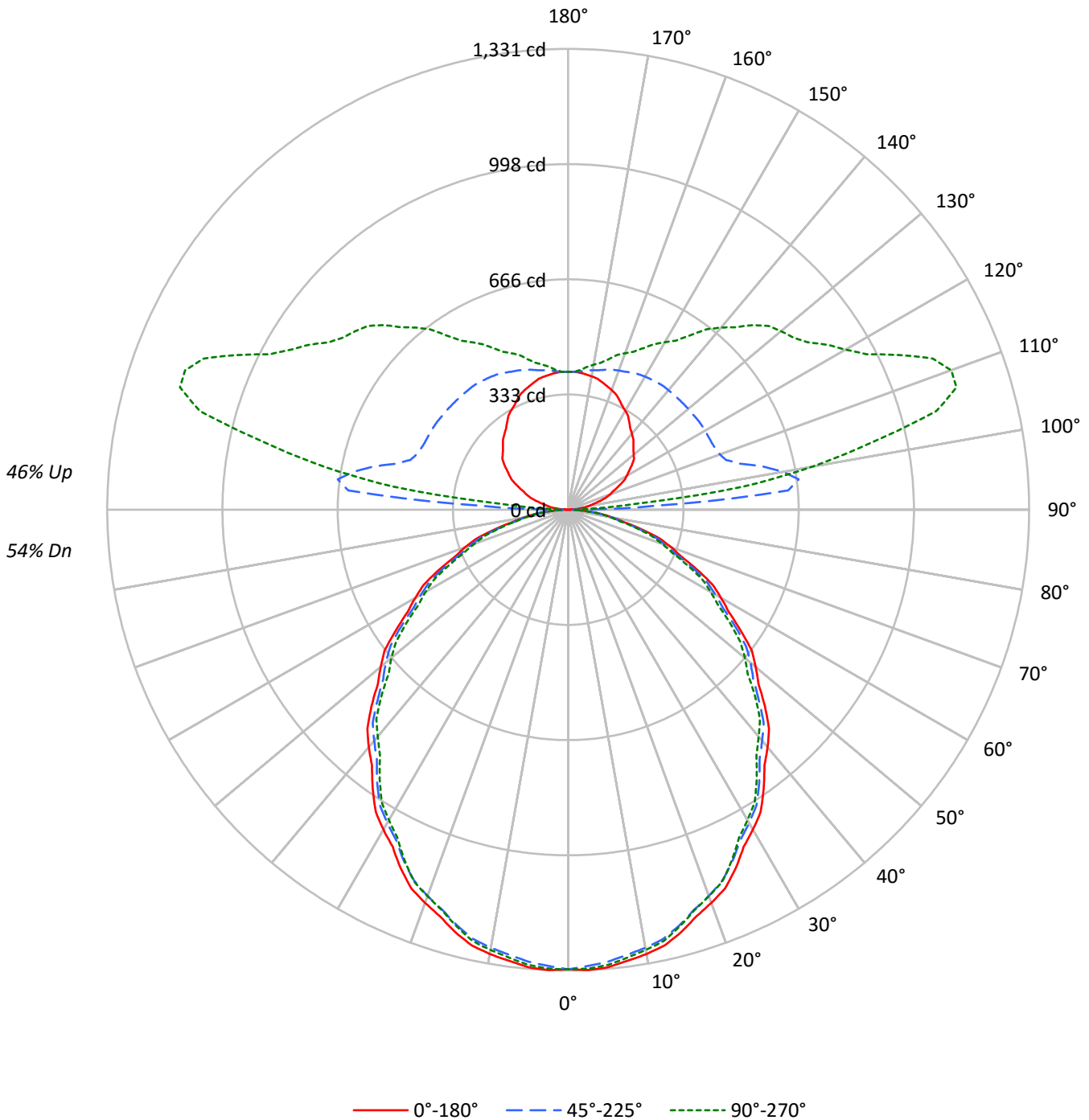
Lumens per Lamp: N/A  
Luminaire Lumens: 6303.3 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 45.9  
Input Voltage (V): 120  
Input Current (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



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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 | 50 | 30 | 10 | 0  |    |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 72 | 72 | 72 | 60 | 60 | 60 | 54 |    |    |    | 54 |
| 1   | 99  | 94  | 90  | 87  | 91  | 88  | 84  | 81  | 75 | 73 | 70 | 63 | 62 | 60 | 53 | 52 | 50 | 45 |    |    |    | 45 |
| 2   | 90  | 82  | 76  | 71  | 83  | 77  | 71  | 67  | 66 | 62 | 58 | 56 | 53 | 50 | 46 | 44 | 42 | 38 |    |    |    | 38 |
| 3   | 82  | 72  | 65  | 59  | 76  | 67  | 61  | 56  | 58 | 53 | 49 | 49 | 46 | 42 | 41 | 38 | 36 | 32 |    |    |    | 32 |
| 4   | 75  | 64  | 56  | 50  | 69  | 60  | 53  | 47  | 52 | 46 | 42 | 44 | 40 | 36 | 37 | 34 | 31 | 28 |    |    |    | 28 |
| 5   | 69  | 57  | 49  | 43  | 64  | 53  | 46  | 41  | 46 | 40 | 36 | 39 | 35 | 32 | 33 | 30 | 27 | 24 |    |    |    | 24 |
| 6   | 63  | 51  | 43  | 37  | 59  | 48  | 41  | 35  | 42 | 36 | 31 | 36 | 31 | 28 | 30 | 27 | 24 | 21 |    |    |    | 21 |
| 7   | 59  | 46  | 38  | 33  | 54  | 43  | 36  | 31  | 38 | 32 | 28 | 32 | 28 | 24 | 28 | 24 | 21 | 19 |    |    |    | 19 |
| 8   | 54  | 42  | 34  | 29  | 50  | 39  | 32  | 27  | 34 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |    |    |    | 17 |
| 9   | 51  | 38  | 31  | 26  | 47  | 36  | 29  | 25  | 32 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |    |    |    | 15 |
| 10  | 47  | 35  | 28  | 23  | 44  | 33  | 27  | 22  | 29 | 24 | 20 | 25 | 21 | 18 | 22 | 18 | 16 | 14 |    |    |    | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10717 | 10717 | 10717 |
| 5°  | 10749 | 10619 | 10697 |
| 10° | 10681 | 10533 | 10585 |
| 15° | 10552 | 10384 | 10410 |
| 20° | 10381 | 10198 | 10207 |
| 25° | 10185 | 9986  | 9958  |
| 30° | 9945  | 9737  | 9648  |
| 35° | 9697  | 9477  | 9351  |
| 40° | 9438  | 9180  | 9013  |
| 45° | 9169  | 8889  | 8719  |
| 50° | 8871  | 8629  | 8363  |
| 55° | 8549  | 8294  | 8024  |
| 60° | 8226  | 7918  | 7677  |
| 65° | 7862  | 7559  | 7253  |
| 70° | 7456  | 7081  | 6805  |
| 75° | 6834  | 6503  | 6338  |
| 80° | 6081  | 5835  | 5686  |
| 85° | 5317  | 5122  | 5020  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.0  | 2.0       |
| 10°-20°   | 352.2  | 5.6       |
| 20°-30°   | 518.4  | 8.2       |
| 30°-40°   | 602.7  | 9.6       |
| 40°-50°   | 602.7  | 9.6       |
| 50°-60°   | 527.2  | 8.4       |
| 60°-70°   | 391.5  | 6.2       |
| 70°-80°   | 222.4  | 3.5       |
| 80°-90°   | 66.4   | 1.1       |
| 90°-100°  | 287.5  | 4.6       |
| 100°-110° | 598.3  | 9.5       |
| 110°-120° | 535.9  | 8.5       |
| 120°-130° | 450.8  | 7.2       |
| 130°-140° | 375.9  | 6.0       |
| 140°-150° | 287.1  | 4.6       |
| 150°-160° | 201.8  | 3.2       |
| 160°-170° | 118.7  | 1.9       |
| 170°-180° | 38.6   | 0.6       |
| 0°-30°    | 995.7  | 15.8      |
| 0°-40°    | 1598.4 | 25.4      |
| 0°-60°    | 2728.3 | 43.3      |
| 0°-90°    | 3408.7 | 54.1      |
| 90°-120°  | 1421.6 | 22.6      |
| 90°-150°  | 2535.4 | 40.2      |
| 90°-180°  | 2895.0 | 45.9      |
| 0°-180°   | 6303.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1328 | 1328  | 1328 | 1328  | 1328 |      |
| 5°   | 1326 | 1322  | 1310 | 1321  | 1320 | 126  |
| 15°  | 1263 | 1258  | 1242 | 1248  | 1246 | 356  |
| 25°  | 1143 | 1136  | 1121 | 1122  | 1118 | 526  |
| 35°  | 984  | 976   | 962  | 954   | 949  | 615  |
| 45°  | 803  | 795   | 779  | 767   | 764  | 619  |
| 55°  | 607  | 604   | 589  | 577   | 570  | 544  |
| 65°  | 412  | 406   | 396  | 385   | 380  | 407  |
| 75°  | 219  | 214   | 208  | 204   | 203  | 233  |
| 85°  | 57   | 57    | 55   | 55    | 54   | 63   |
| 90°  | 1    | 6     | 14   | 16    | 16   | 4    |
| 95°  | 26   | 81    | 637  | 316   | 191  | 29   |
| 105° | 92   | 133   | 513  | 1104  | 1100 | 98   |
| 115° | 161  | 202   | 457  | 879   | 1056 | 160  |
| 125° | 224  | 267   | 455  | 748   | 843  | 200  |
| 135° | 267  | 317   | 451  | 664   | 754  | 206  |
| 145° | 307  | 352   | 449  | 560   | 615  | 193  |
| 155° | 350  | 377   | 436  | 494   | 515  | 161  |
| 165° | 381  | 393   | 418  | 443   | 450  | 107  |
| 175° | 397  | 398   | 401  | 407   | 405  | 38   |
| 180° | 398  | 398   | 398  | 398   | 398  |      |



TEST NUMBER: P332606

CATALOG NUMBER: S124DIP-S795D810U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 |
| 2.5°   | 1330.9 | 1330.3 | 1329.7 | 1329.2 | 1328.6 | 1327.3 | 1325.2 | 1323.1 | 1321.0 | 1319.0 | 1320.8 |
| 5°     | 1326.4 | 1325.5 | 1324.5 | 1323.6 | 1322.6 | 1320.8 | 1318.2 | 1315.6 | 1313.0 | 1310.4 | 1313.0 |
| 7.5°   | 1314.1 | 1313.1 | 1312.2 | 1311.2 | 1310.3 | 1308.4 | 1305.5 | 1302.6 | 1299.7 | 1296.8 | 1298.9 |
| 10°    | 1303.0 | 1302.1 | 1301.1 | 1300.2 | 1299.2 | 1297.2 | 1294.1 | 1291.1 | 1288.0 | 1284.9 | 1286.8 |
| 12.5°  | 1288.5 | 1287.6 | 1286.6 | 1285.7 | 1284.8 | 1282.6 | 1279.4 | 1276.1 | 1272.9 | 1269.6 | 1271.7 |
| 15°    | 1262.6 | 1261.6 | 1260.7 | 1259.7 | 1258.8 | 1256.6 | 1253.0 | 1249.5 | 1245.9 | 1242.4 | 1243.8 |
| 17.5°  | 1231.3 | 1230.1 | 1228.9 | 1227.8 | 1226.6 | 1224.3 | 1221.0 | 1217.6 | 1214.2 | 1210.9 | 1211.8 |
| 20°    | 1208.3 | 1207.1 | 1206.0 | 1204.8 | 1203.6 | 1201.2 | 1197.7 | 1194.1 | 1190.6 | 1187.1 | 1187.8 |
| 22.5°  | 1183.7 | 1182.1 | 1180.5 | 1179.0 | 1177.4 | 1174.9 | 1171.3 | 1167.8 | 1164.2 | 1160.7 | 1162.0 |
| 25°    | 1143.4 | 1141.8 | 1140.1 | 1138.5 | 1136.8 | 1134.3 | 1131.0 | 1127.7 | 1124.4 | 1121.1 | 1121.3 |
| 27.5°  | 1097.5 | 1095.8 | 1094.1 | 1092.4 | 1090.7 | 1088.3 | 1085.2 | 1082.2 | 1079.1 | 1076.0 | 1075.4 |
| 30°    | 1066.9 | 1065.0 | 1063.1 | 1061.2 | 1059.3 | 1056.8 | 1053.7 | 1050.7 | 1047.6 | 1044.5 | 1043.6 |
| 32.5°  | 1034.5 | 1032.8 | 1031.1 | 1029.4 | 1027.7 | 1025.2 | 1022.0 | 1018.7 | 1015.5 | 1012.2 | 1011.1 |
| 35°    | 983.9  | 982.2  | 980.6  | 978.9  | 977.3  | 974.8  | 971.5  | 968.2  | 964.9  | 961.6  | 959.9  |
| 37.5°  | 930.5  | 929.0  | 927.5  | 926.0  | 924.4  | 921.9  | 918.4  | 914.8  | 911.3  | 907.7  | 905.9  |
| 40°    | 895.6  | 893.7  | 891.8  | 889.9  | 888.0  | 885.3  | 881.8  | 878.2  | 874.7  | 871.1  | 868.8  |
| 42.5°  | 858.2  | 857.0  | 855.9  | 854.8  | 853.6  | 851.1  | 847.2  | 843.3  | 839.3  | 835.4  | 832.7  |
| 45°    | 803.1  | 801.4  | 799.8  | 798.1  | 796.5  | 793.7  | 790.0  | 786.2  | 782.4  | 778.6  | 776.0  |
| 47.5°  | 745.4  | 744.3  | 743.2  | 742.0  | 740.9  | 738.6  | 735.1  | 731.6  | 728.1  | 724.6  | 721.6  |
| 50°    | 706.3  | 705.3  | 704.4  | 703.4  | 702.5  | 700.4  | 697.1  | 693.8  | 690.4  | 687.1  | 683.8  |
| 52.5°  | 668.0  | 666.9  | 665.7  | 664.6  | 663.4  | 661.1  | 657.6  | 654.1  | 650.6  | 647.1  | 644.2  |
| 55°    | 607.4  | 606.6  | 605.9  | 605.2  | 604.5  | 602.5  | 599.2  | 595.9  | 592.6  | 589.3  | 586.4  |
| 57.5°  | 549.5  | 548.7  | 547.9  | 547.1  | 546.3  | 544.2  | 541.0  | 537.7  | 534.5  | 531.2  | 528.5  |
| 60°    | 509.5  | 508.3  | 507.1  | 506.0  | 504.8  | 502.6  | 499.6  | 496.5  | 493.4  | 490.4  | 488.2  |
| 62.5°  | 470.4  | 469.4  | 468.4  | 467.4  | 466.4  | 464.3  | 461.0  | 457.7  | 454.5  | 451.2  | 449.3  |
| 65°    | 411.6  | 410.5  | 409.3  | 408.1  | 406.9  | 405.1  | 402.8  | 400.4  | 398.0  | 395.7  | 393.3  |
| 67.5°  | 352.5  | 351.4  | 350.3  | 349.2  | 348.2  | 346.5  | 344.2  | 341.9  | 339.7  | 337.4  | 335.1  |
| 70°    | 315.9  | 314.3  | 312.6  | 310.9  | 309.3  | 307.5  | 305.6  | 303.7  | 301.8  | 300.0  | 298.1  |
| 72.5°  | 276.8  | 275.1  | 273.5  | 271.8  | 270.1  | 268.6  | 267.1  | 265.5  | 264.0  | 262.5  | 261.0  |
| 75°    | 219.1  | 217.9  | 216.8  | 215.6  | 214.4  | 213.2  | 212.0  | 210.8  | 209.7  | 208.5  | 207.5  |
| 77.5°  | 164.0  | 163.5  | 163.0  | 162.5  | 161.9  | 161.2  | 160.1  | 159.1  | 158.0  | 157.0  | 156.7  |
| 80°    | 130.8  | 130.1  | 129.4  | 128.7  | 128.0  | 127.4  | 126.9  | 126.5  | 126.0  | 125.5  | 125.0  |
| 82.5°  | 98.5   | 98.2   | 97.8   | 97.5   | 97.2   | 97.0   | 96.9   | 96.8   | 96.7   | 96.6   | 96.3   |
| 85°    | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.2   | 56.7   | 56.3   | 55.8   | 55.3   | 55.3   |
| 87.5°  | 22.3   | 22.4   | 22.7   | 22.7   | 22.6   | 22.4   | 23.2   | 23.0   | 23.1   | 23.2   | 23.1   |
| 90°    | 0.8    | 2.3    | 4.7    | 5.5    | 6.3    | 6.3    | 10.9   | 10.9   | 12.5   | 14.1   | 13.3   |
| 92.5°  | 8.9    | 13.0   | 20.3   | 29.9   | 41.3   | 57.5   | 97.3   | 157.9  | 217.1  | 248.0  | 206.6  |
| 95°    | 25.8   | 28.1   | 36.0   | 46.1   | 64.9   | 97.7   | 165.8  | 294.0  | 480.9  | 637.3  | 655.3  |
| 97.5°  | 46.3   | 46.3   | 53.0   | 62.4   | 78.5   | 106.0  | 158.4  | 264.3  | 450.1  | 671.2  | 823.2  |
| 100°   | 59.4   | 59.4   | 64.9   | 74.3   | 89.1   | 114.2  | 160.3  | 248.7  | 408.2  | 628.7  | 828.8  |
| 102.5° | 71.9   | 73.2   | 78.0   | 86.8   | 101.0  | 124.8  | 166.5  | 244.3  | 380.0  | 575.5  | 781.9  |
| 105°   | 91.5   | 93.8   | 97.7   | 107.1  | 121.2  | 143.9  | 181.4  | 246.3  | 355.8  | 512.9  | 696.7  |
| 107.5° | 113.1  | 114.6  | 118.5  | 128.5  | 142.0  | 164.4  | 198.8  | 257.9  | 351.4  | 477.9  | 627.9  |
| 110°   | 127.5  | 129.0  | 132.9  | 142.3  | 156.4  | 177.5  | 211.9  | 266.6  | 352.6  | 466.0  | 593.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 141.2 | 142.8 | 147.3 | 156.1 | 170.1 | 191.3 | 224.4 | 276.0 | 356.4 | 460.4 | 574.1 |
| 115°   | 161.1 | 163.4 | 168.9 | 176.7 | 191.6 | 212.7 | 244.0 | 290.9 | 363.6 | 457.4 | 555.9 |
| 117.5° | 181.7 | 183.9 | 188.8 | 197.4 | 211.3 | 233.2 | 262.9 | 306.0 | 371.3 | 456.6 | 547.8 |
| 120°   | 195.5 | 197.0 | 202.5 | 211.1 | 224.4 | 246.3 | 276.0 | 316.7 | 376.9 | 456.6 | 543.4 |
| 122.5° | 208.0 | 209.6 | 215.0 | 223.0 | 237.5 | 258.8 | 288.5 | 326.7 | 382.5 | 456.0 | 538.4 |
| 125°   | 224.4 | 227.5 | 232.2 | 240.8 | 255.7 | 277.6 | 305.7 | 341.7 | 391.0 | 455.1 | 530.1 |
| 127.5° | 239.0 | 241.5 | 247.1 | 256.9 | 272.4 | 294.5 | 321.7 | 354.7 | 397.7 | 453.4 | 519.0 |
| 130°   | 247.1 | 250.2 | 256.5 | 268.2 | 283.1 | 305.7 | 332.3 | 362.8 | 402.7 | 452.7 | 512.2 |
| 132.5° | 255.2 | 257.7 | 265.9 | 277.0 | 293.1 | 314.5 | 341.1 | 370.9 | 407.1 | 452.1 | 505.9 |
| 135°   | 266.6 | 269.8 | 277.6 | 290.9 | 307.3 | 327.6 | 353.4 | 381.6 | 413.6 | 451.2 | 496.5 |
| 137.5° | 278.1 | 281.0 | 289.6 | 302.3 | 319.3 | 338.7 | 362.8 | 389.1 | 417.5 | 451.0 | 488.4 |
| 140°   | 286.2 | 288.5 | 297.1 | 310.4 | 326.8 | 345.6 | 369.1 | 394.1 | 420.7 | 450.4 | 484.0 |
| 142.5° | 294.9 | 297.3 | 305.3 | 317.9 | 333.7 | 351.9 | 374.7 | 397.8 | 423.2 | 450.4 | 480.3 |
| 145°   | 307.3 | 309.6 | 317.5 | 328.4 | 343.3 | 360.5 | 380.8 | 401.9 | 424.6 | 448.8 | 473.8 |
| 147.5° | 321.2 | 322.0 | 328.9 | 340.1 | 352.5 | 368.0 | 387.1 | 405.5 | 425.4 | 446.0 | 468.1 |
| 150°   | 330.0 | 330.8 | 337.0 | 346.4 | 358.1 | 373.0 | 390.2 | 407.4 | 425.4 | 444.1 | 463.7 |
| 152.5° | 338.1 | 338.3 | 344.5 | 353.3 | 363.8 | 377.4 | 392.7 | 408.6 | 424.1 | 441.0 | 458.7 |
| 155°   | 349.5 | 350.3 | 355.0 | 362.8 | 371.4 | 383.1 | 396.4 | 409.7 | 422.2 | 436.3 | 451.2 |
| 157.5° | 360.6 | 360.6 | 365.0 | 371.1 | 378.6 | 387.8 | 399.1 | 409.7 | 420.2 | 431.5 | 443.5 |
| 160°   | 367.5 | 367.5 | 370.6 | 376.1 | 382.4 | 391.0 | 400.3 | 409.7 | 418.3 | 427.7 | 437.9 |
| 162.5° | 373.8 | 373.1 | 375.6 | 380.5 | 386.1 | 392.8 | 401.6 | 409.7 | 416.5 | 424.0 | 432.9 |
| 165°   | 380.8 | 380.8 | 382.4 | 386.3 | 390.2 | 394.9 | 401.9 | 408.2 | 412.9 | 418.3 | 424.6 |
| 167.5° | 387.8 | 387.1 | 387.8 | 390.8 | 393.0 | 396.6 | 401.8 | 406.3 | 409.1 | 412.7 | 417.1 |
| 170°   | 391.0 | 390.2 | 391.0 | 393.3 | 394.9 | 397.2 | 401.1 | 405.0 | 406.6 | 408.9 | 412.1 |
| 172.5° | 394.1 | 393.3 | 393.5 | 395.2 | 396.1 | 397.8 | 400.5 | 403.8 | 404.1 | 405.2 | 407.7 |
| 175°   | 397.2 | 396.4 | 396.4 | 397.2 | 398.0 | 398.0 | 399.6 | 401.9 | 401.1 | 401.1 | 402.7 |
| 177.5° | 398.6 | 398.0 | 397.4 | 398.0 | 398.0 | 398.0 | 398.6 | 399.9 | 398.6 | 398.6 | 399.2 |
| 180°   | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 |



TEST NUMBER: P332606

CATALOG NUMBER: S124DIP-S795D810U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 | 1327.5 |
| 2.5°   | 1322.7 | 1324.6 | 1326.5 | 1327.4 | 1327.2 | 1327.0 | 1326.8 | 1326.6 |
| 5°     | 1315.6 | 1318.2 | 1320.8 | 1321.9 | 1321.4 | 1321.0 | 1320.5 | 1320.0 |
| 7.5°   | 1301.0 | 1303.1 | 1305.1 | 1306.0 | 1305.8 | 1305.5 | 1305.2 | 1304.9 |
| 10°    | 1288.7 | 1290.6 | 1292.5 | 1293.2 | 1292.7 | 1292.2 | 1291.8 | 1291.3 |
| 12.5°  | 1273.8 | 1275.8 | 1277.9 | 1278.6 | 1278.0 | 1277.3 | 1276.6 | 1276.0 |
| 15°    | 1245.2 | 1246.6 | 1248.0 | 1248.4 | 1247.7 | 1247.0 | 1246.3 | 1245.6 |
| 17.5°  | 1212.7 | 1213.6 | 1214.5 | 1214.7 | 1214.2 | 1213.7 | 1213.3 | 1212.8 |
| 20°    | 1188.5 | 1189.2 | 1189.9 | 1190.0 | 1189.5 | 1189.1 | 1188.6 | 1188.1 |
| 22.5°  | 1163.2 | 1164.5 | 1165.8 | 1166.0 | 1165.1 | 1164.3 | 1163.4 | 1162.6 |
| 25°    | 1121.6 | 1121.8 | 1122.1 | 1121.7 | 1120.8 | 1119.8 | 1118.9 | 1117.9 |
| 27.5°  | 1074.9 | 1074.3 | 1073.7 | 1072.9 | 1071.7 | 1070.5 | 1069.3 | 1068.1 |
| 30°    | 1042.6 | 1041.7 | 1040.7 | 1039.7 | 1038.5 | 1037.3 | 1036.1 | 1035.0 |
| 32.5°  | 1009.9 | 1008.8 | 1007.7 | 1006.5 | 1005.3 | 1004.1 | 1002.9 | 1001.8 |
| 35°    | 958.3  | 956.6  | 954.9  | 953.5  | 952.3  | 951.2  | 950.0  | 948.8  |
| 37.5°  | 904.1  | 902.3  | 900.6  | 898.9  | 897.3  | 895.8  | 894.2  | 892.6  |
| 40°    | 866.4  | 864.1  | 861.7  | 859.9  | 858.7  | 857.6  | 856.4  | 855.2  |
| 42.5°  | 829.9  | 827.2  | 824.4  | 822.7  | 821.9  | 821.1  | 820.3  | 819.5  |
| 45°    | 773.4  | 770.8  | 768.2  | 766.6  | 765.8  | 765.1  | 764.4  | 763.7  |
| 47.5°  | 718.7  | 715.8  | 712.8  | 710.5  | 708.7  | 706.9  | 705.1  | 703.3  |
| 50°    | 680.5  | 677.2  | 673.9  | 671.5  | 670.1  | 668.7  | 667.3  | 665.9  |
| 52.5°  | 641.3  | 638.3  | 635.4  | 633.1  | 631.3  | 629.5  | 627.7  | 625.9  |
| 55°    | 583.6  | 580.8  | 577.9  | 575.8  | 574.4  | 573.0  | 571.5  | 570.1  |
| 57.5°  | 525.8  | 523.1  | 520.4  | 518.4  | 517.0  | 515.6  | 514.3  | 512.9  |
| 60°    | 486.1  | 484.0  | 481.8  | 480.2  | 479.0  | 477.8  | 476.6  | 475.5  |
| 62.5°  | 447.3  | 445.4  | 443.5  | 441.9  | 440.7  | 439.5  | 438.4  | 437.2  |
| 65°    | 391.0  | 388.6  | 386.2  | 384.5  | 383.3  | 382.1  | 380.9  | 379.7  |
| 67.5°  | 332.9  | 330.6  | 328.3  | 327.0  | 326.7  | 326.4  | 326.0  | 325.7  |
| 70°    | 296.2  | 294.3  | 292.4  | 291.1  | 290.4  | 289.7  | 289.0  | 288.3  |
| 72.5°  | 259.5  | 258.0  | 256.5  | 255.4  | 254.6  | 253.9  | 253.2  | 252.5  |
| 75°    | 206.6  | 205.6  | 204.7  | 204.1  | 203.9  | 203.6  | 203.4  | 203.2  |
| 77.5°  | 156.4  | 156.1  | 155.9  | 155.4  | 154.8  | 154.2  | 153.6  | 153.0  |
| 80°    | 124.6  | 124.1  | 123.6  | 123.3  | 123.0  | 122.8  | 122.6  | 122.3  |
| 82.5°  | 96.0   | 95.7   | 95.4   | 95.2   | 95.0   | 94.7   | 94.5   | 94.2   |
| 85°    | 55.3   | 55.3   | 55.3   | 55.2   | 55.0   | 54.7   | 54.5   | 54.2   |
| 87.5°  | 23.2   | 23.4   | 23.6   | 23.6   | 23.7   | 23.9   | 23.7   | 23.7   |
| 90°    | 14.1   | 14.9   | 15.6   | 15.6   | 16.4   | 17.2   | 16.4   | 16.4   |
| 92.5°  | 153.6  | 115.6  | 92.0   | 76.3   | 67.1   | 62.9   | 60.2   | 60.2   |
| 95°    | 579.4  | 458.2  | 353.4  | 277.6  | 239.3  | 215.0  | 201.0  | 190.8  |
| 97.5°  | 856.0  | 811.0  | 734.5  | 652.9  | 596.8  | 549.7  | 526.2  | 510.0  |
| 100°   | 943.0  | 958.6  | 920.3  | 862.5  | 794.4  | 746.7  | 723.3  | 717.0  |
| 102.5° | 938.6  | 1016.2 | 1027.3 | 1003.2 | 961.5  | 926.9  | 902.2  | 897.2  |
| 105°   | 875.8  | 1011.0 | 1088.4 | 1120.5 | 1122.1 | 1115.8 | 1104.9 | 1100.2 |
| 107.5° | 786.5  | 930.5  | 1039.5 | 1109.2 | 1147.9 | 1165.7 | 1173.5 | 1175.5 |
| 110°   | 732.7  | 867.9  | 981.3  | 1067.3 | 1122.8 | 1155.7 | 1169.8 | 1176.8 |





TEST NUMBER: P332606

CATALOG NUMBER: S124DIP-S795D810U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 693.3 | 812.9 | 920.0 | 1006.0 | 1069.0 | 1108.8 | 1128.5 | 1139.9 |
| 115°   | 653.7 | 749.9 | 841.3 | 916.4  | 978.2  | 1025.1 | 1050.1 | 1056.4 |
| 117.5° | 634.3 | 713.9 | 785.8 | 849.5  | 902.2  | 941.6  | 966.9  | 971.8  |
| 120°   | 625.5 | 698.3 | 760.8 | 816.3  | 860.9  | 895.3  | 915.6  | 924.2  |
| 122.5° | 618.0 | 688.2 | 745.2 | 793.8  | 831.5  | 860.9  | 878.1  | 886.7  |
| 125°   | 605.2 | 672.5 | 726.4 | 769.4  | 800.7  | 823.4  | 838.2  | 842.9  |
| 127.5° | 589.6 | 653.8 | 707.6 | 748.5  | 779.9  | 800.1  | 812.6  | 817.3  |
| 130°   | 577.1 | 638.8 | 692.0 | 733.4  | 765.5  | 785.1  | 797.6  | 802.3  |
| 132.5° | 563.9 | 621.9 | 673.9 | 715.3  | 746.7  | 768.8  | 780.7  | 785.4  |
| 135°   | 545.8 | 596.6 | 644.3 | 683.4  | 714.7  | 736.6  | 749.1  | 753.8  |
| 137.5° | 529.4 | 572.4 | 612.6 | 647.9  | 677.1  | 698.7  | 709.0  | 714.7  |
| 140°   | 520.0 | 556.7 | 591.9 | 624.8  | 652.1  | 669.3  | 680.3  | 686.5  |
| 142.5° | 511.2 | 543.6 | 573.8 | 602.2  | 626.5  | 642.4  | 652.1  | 656.5  |
| 145°   | 498.9 | 525.5 | 548.9 | 570.8  | 590.4  | 603.6  | 611.5  | 615.4  |
| 147.5° | 488.7 | 509.8 | 528.6 | 545.8  | 560.2  | 571.6  | 577.5  | 578.9  |
| 150°   | 482.4 | 500.4 | 516.1 | 530.1  | 542.7  | 552.8  | 557.5  | 558.3  |
| 152.5° | 475.6 | 491.0 | 505.4 | 517.0  | 527.6  | 535.9  | 538.7  | 539.5  |
| 155°   | 465.2 | 477.8 | 489.5 | 498.9  | 506.7  | 512.9  | 515.3  | 515.3  |
| 157.5° | 454.1 | 464.6 | 474.5 | 482.0  | 487.9  | 492.6  | 494.0  | 494.0  |
| 160°   | 447.3 | 455.9 | 464.5 | 470.7  | 475.4  | 480.1  | 480.9  | 480.9  |
| 162.5° | 440.4 | 447.7 | 454.5 | 460.1  | 463.5  | 468.2  | 469.0  | 468.4  |
| 165°   | 430.8 | 435.5 | 441.0 | 444.9  | 448.0  | 451.2  | 450.4  | 449.6  |
| 167.5° | 421.6 | 425.2 | 429.6 | 431.9  | 433.5  | 435.5  | 435.4  | 434.7  |
| 170°   | 416.0 | 418.3 | 421.5 | 423.8  | 425.4  | 426.1  | 425.4  | 425.4  |
| 172.5° | 411.0 | 412.7 | 414.6 | 416.3  | 417.2  | 418.0  | 417.2  | 416.0  |
| 175°   | 404.3 | 405.0 | 406.6 | 406.6  | 406.6  | 408.2  | 406.6  | 405.0  |
| 177.5° | 399.9 | 400.5 | 400.5 | 401.1  | 400.5  | 401.1  | 399.9  | 398.6  |
| 180°   | 398.0 | 398.0 | 398.0 | 398.0  | 398.0  | 398.0  | 398.0  | 398.0  |

(END OF REPORT)