

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: P331324

Luminaire Tested: **S122DIP-S485D1080U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331324  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S485D1080U835-4F0-1E-UDD-D  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6274.9 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

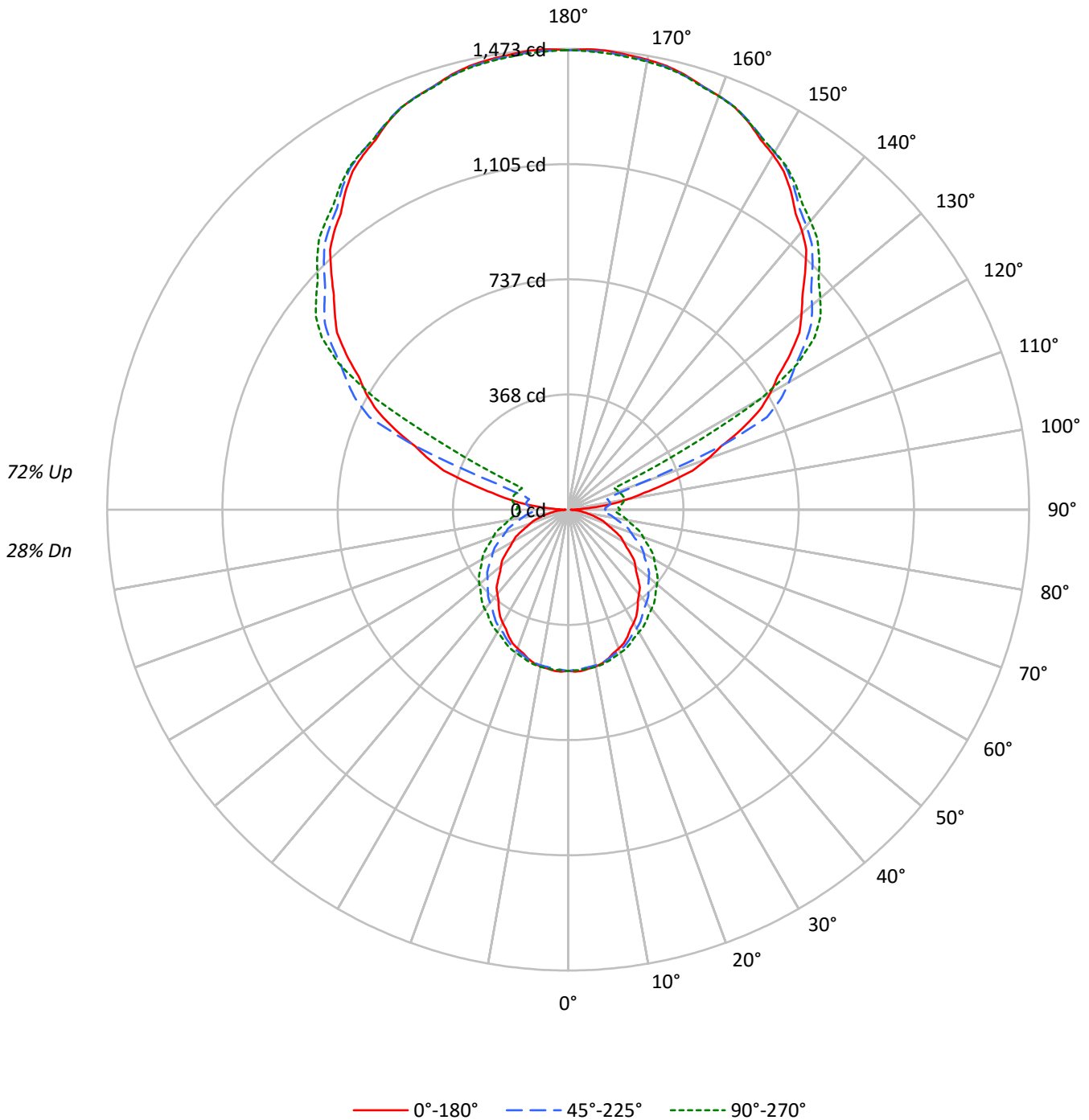
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331324

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P331324

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-D

**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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 |
| 1   | 92  | 87  | 83  | 80  | 82 | 78 | 75 | 72 | 61 | 59 | 56 | 45 | 43 | 42 | 30 | 29 | 28 | 22 |
| 2   | 83  | 76  | 70  | 64  | 74 | 68 | 63 | 58 | 53 | 49 | 46 | 39 | 37 | 34 | 26 | 25 | 23 | 18 |
| 3   | 76  | 66  | 59  | 53  | 67 | 59 | 53 | 48 | 46 | 42 | 38 | 34 | 31 | 29 | 23 | 21 | 19 | 14 |
| 4   | 69  | 58  | 51  | 45  | 61 | 52 | 46 | 40 | 41 | 36 | 32 | 30 | 27 | 24 | 20 | 18 | 17 | 12 |
| 5   | 63  | 52  | 44  | 38  | 56 | 46 | 39 | 34 | 36 | 31 | 27 | 27 | 23 | 21 | 18 | 16 | 14 | 10 |
| 6   | 58  | 46  | 38  | 32  | 52 | 41 | 35 | 29 | 33 | 27 | 24 | 24 | 21 | 18 | 16 | 14 | 12 | 9  |
| 7   | 54  | 41  | 34  | 28  | 48 | 37 | 30 | 26 | 29 | 24 | 21 | 22 | 18 | 16 | 15 | 13 | 11 | 8  |
| 8   | 50  | 37  | 30  | 25  | 44 | 34 | 27 | 22 | 27 | 22 | 18 | 20 | 16 | 14 | 14 | 11 | 10 | 7  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 19 | 16 | 18 | 15 | 12 | 13 | 10 | 9  | 6  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 13 | 11 | 12 | 9  | 8  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8320 | 8320 | 8320 |
| 5°  | 8361 | 8009 | 7978 |
| 10° | 8308 | 7773 | 7685 |
| 15° | 8193 | 7522 | 7376 |
| 20° | 8049 | 7253 | 7078 |
| 25° | 7906 | 6994 | 6809 |
| 30° | 7704 | 6728 | 6536 |
| 35° | 7501 | 6472 | 6346 |
| 40° | 7287 | 6254 | 6154 |
| 45° | 7084 | 6058 | 5992 |
| 50° | 6865 | 5879 | 5830 |
| 55° | 6634 | 5689 | 5666 |
| 60° | 6355 | 5493 | 5493 |
| 65° | 6063 | 5262 | 5287 |
| 70° | 5738 | 5012 | 5065 |
| 75° | 5319 | 4768 | 4860 |
| 80° | 4657 | 4519 | 4652 |
| 85° | 4025 | 4303 | 4491 |



TEST NUMBER: P331324

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.8   | 0.8       |
| 10°-20°   | 140.0  | 2.2       |
| 20°-30°   | 212.2  | 3.4       |
| 30°-40°   | 258.4  | 4.1       |
| 40°-50°   | 278.0  | 4.4       |
| 50°-60°   | 270.0  | 4.3       |
| 60°-70°   | 235.8  | 3.8       |
| 70°-80°   | 181.5  | 2.9       |
| 80°-90°   | 125.4  | 2.0       |
| 90°-100°  | 132.9  | 2.1       |
| 100°-110° | 241.0  | 3.8       |
| 110°-120° | 520.9  | 8.3       |
| 120°-130° | 815.6  | 13.0      |
| 130°-140° | 852.8  | 13.6      |
| 140°-150° | 785.5  | 12.5      |
| 150°-160° | 630.2  | 10.0      |
| 160°-170° | 406.1  | 6.5       |
| 170°-180° | 139.8  | 2.2       |
| 0°-30°    | 401.0  | 6.4       |
| 0°-40°    | 659.5  | 10.5      |
| 0°-60°    | 1207.5 | 19.2      |
| 0°-90°    | 1750.2 | 27.9      |
| 90°-120°  | 894.8  | 14.3      |
| 90°-150°  | 3348.6 | 53.4      |
| 90°-180°  | 4525.0 | 72.1      |
| 0°-180°   | 6274.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 515  | 515   | 515  | 515   | 515  |      |
| 5°   | 517  | 514   | 510  | 514   | 514  | 49   |
| 15°  | 493  | 494   | 494  | 501   | 500  | 139  |
| 25°  | 448  | 453   | 460  | 469   | 471  | 206  |
| 35°  | 386  | 399   | 413  | 429   | 435  | 241  |
| 45°  | 317  | 337   | 363  | 385   | 394  | 244  |
| 55°  | 243  | 270   | 308  | 334   | 345  | 217  |
| 65°  | 166  | 203   | 246  | 276   | 287  | 165  |
| 75°  | 92   | 134   | 182  | 212   | 223  | 97   |
| 85°  | 27   | 73    | 121  | 151   | 163  | 29   |
| 90°  | 8    | 64    | 120  | 154   | 166  | 8    |
| 95°  | 75   | 78    | 127  | 160   | 169  | 89   |
| 105° | 327  | 364   | 129  | 166   | 179  | 350  |
| 115° | 614  | 642   | 701  | 253   | 163  | 604  |
| 125° | 866  | 881   | 924  | 950   | 961  | 772  |
| 135° | 1070 | 1087  | 1104 | 1129  | 1134 | 826  |
| 145° | 1241 | 1241  | 1258 | 1269  | 1268 | 776  |
| 155° | 1366 | 1358  | 1369 | 1375  | 1367 | 629  |
| 165° | 1439 | 1434  | 1436 | 1443  | 1436 | 406  |
| 175° | 1472 | 1465  | 1467 | 1473  | 1464 | 140  |
| 180° | 1469 | 1469  | 1469 | 1469  | 1469 |      |



TEST NUMBER: P331324

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 |
| 2.5°   | 518.3 | 517.9 | 517.5 | 517.1 | 516.7 | 516.0 | 515.1 | 514.2 | 513.3 | 512.3 | 513.0 |
| 5°     | 516.8 | 516.3 | 515.8 | 515.3 | 514.8 | 514.1 | 513.1 | 512.1 | 511.1 | 510.1 | 511.1 |
| 7.5°   | 512.2 | 511.8 | 511.5 | 511.2 | 510.9 | 510.3 | 509.5 | 508.8 | 508.0 | 507.2 | 508.4 |
| 10°    | 508.6 | 508.3 | 507.9 | 507.6 | 507.3 | 506.9 | 506.4 | 505.9 | 505.4 | 504.9 | 506.2 |
| 12.5°  | 502.6 | 502.7 | 502.8 | 502.8 | 502.9 | 502.7 | 502.4 | 502.0 | 501.6 | 501.3 | 502.6 |
| 15°    | 492.9 | 493.2 | 493.6 | 493.9 | 494.2 | 494.4 | 494.4 | 494.4 | 494.4 | 494.4 | 495.9 |
| 17.5°  | 480.4 | 481.1 | 481.8 | 482.5 | 483.2 | 483.8 | 484.3 | 484.8 | 485.4 | 485.9 | 487.4 |
| 20°    | 472.0 | 472.8 | 473.7 | 474.5 | 475.3 | 476.1 | 476.7 | 477.4 | 478.1 | 478.7 | 480.5 |
| 22.5°  | 463.0 | 464.0 | 465.0 | 465.9 | 466.9 | 467.8 | 468.8 | 469.7 | 470.6 | 471.6 | 473.4 |
| 25°    | 448.1 | 449.3 | 450.4 | 451.6 | 452.7 | 454.1 | 455.6 | 457.1 | 458.6 | 460.0 | 462.0 |
| 27.5°  | 430.2 | 432.1 | 434.0 | 435.9 | 437.7 | 439.6 | 441.3 | 443.1 | 444.8 | 446.6 | 449.1 |
| 30°    | 418.2 | 420.4 | 422.5 | 424.7 | 426.9 | 429.0 | 431.2 | 433.3 | 435.5 | 437.6 | 440.3 |
| 32.5°  | 405.1 | 407.5 | 409.9 | 412.4 | 414.8 | 417.3 | 419.8 | 422.4 | 424.9 | 427.5 | 430.5 |
| 35°    | 386.1 | 388.9 | 391.8 | 394.6 | 397.4 | 400.4 | 403.5 | 406.7 | 409.8 | 413.0 | 416.6 |
| 37.5°  | 365.5 | 368.8 | 372.0 | 375.3 | 378.5 | 382.2 | 386.3 | 390.3 | 394.4 | 398.5 | 402.6 |
| 40°    | 351.8 | 355.4 | 359.1 | 362.7 | 366.4 | 370.4 | 374.9 | 379.4 | 383.9 | 388.4 | 392.7 |
| 42.5°  | 338.6 | 342.3 | 345.9 | 349.6 | 353.2 | 357.6 | 362.8 | 367.9 | 373.1 | 378.2 | 382.9 |
| 45°    | 316.7 | 321.1 | 325.6 | 330.1 | 334.6 | 339.7 | 345.5 | 351.3 | 357.2 | 363.0 | 368.1 |
| 47.5°  | 295.0 | 299.9 | 304.8 | 309.6 | 314.5 | 320.4 | 327.2 | 334.0 | 340.8 | 347.6 | 353.0 |
| 50°    | 280.1 | 285.2 | 290.4 | 295.5 | 300.6 | 306.9 | 314.4 | 321.9 | 329.4 | 336.8 | 342.5 |
| 52.5°  | 265.7 | 271.1 | 276.5 | 282.0 | 287.4 | 294.0 | 301.9 | 309.7 | 317.6 | 325.5 | 331.2 |
| 55°    | 242.7 | 248.7 | 254.7 | 260.6 | 266.6 | 273.9 | 282.6 | 291.2 | 299.8 | 308.4 | 314.4 |
| 57.5°  | 220.0 | 226.8 | 233.5 | 240.2 | 247.0 | 254.7 | 263.5 | 272.3 | 281.1 | 289.9 | 296.4 |
| 60°    | 203.9 | 211.0 | 218.2 | 225.3 | 232.4 | 240.7 | 250.2 | 259.6 | 269.1 | 278.6 | 284.9 |
| 62.5°  | 189.5 | 196.9 | 204.4 | 211.8 | 219.2 | 227.6 | 237.0 | 246.5 | 256.0 | 265.4 | 272.1 |
| 65°    | 165.8 | 173.9 | 182.1 | 190.2 | 198.3 | 207.3 | 217.1 | 226.9 | 236.7 | 246.5 | 253.3 |
| 67.5°  | 144.0 | 152.5 | 161.0 | 169.5 | 178.0 | 187.2 | 197.3 | 207.3 | 217.3 | 227.3 | 234.2 |
| 70°    | 128.5 | 137.1 | 145.7 | 154.3 | 163.0 | 172.4 | 182.7 | 193.0 | 203.3 | 213.6 | 220.7 |
| 72.5°  | 114.1 | 123.0 | 131.9 | 140.8 | 149.7 | 159.4 | 169.8 | 180.2 | 190.6 | 201.0 | 208.1 |
| 75°    | 91.9  | 101.2 | 110.4 | 119.7 | 129.0 | 139.0 | 149.6 | 160.2 | 170.9 | 181.5 | 188.6 |
| 77.5°  | 70.4  | 80.1  | 89.8  | 99.5  | 109.3 | 119.5 | 130.3 | 141.1 | 151.9 | 162.7 | 169.8 |
| 80°    | 56.0  | 66.1  | 76.3  | 86.4  | 96.5  | 107.0 | 117.8 | 128.5 | 139.3 | 150.1 | 157.1 |
| 82.5°  | 44.1  | 54.1  | 64.0  | 74.0  | 84.0  | 94.5  | 105.4 | 116.3 | 127.2 | 138.2 | 145.1 |
| 85°    | 26.9  | 37.2  | 47.5  | 57.8  | 68.0  | 78.5  | 89.1  | 99.7  | 110.4 | 121.0 | 128.0 |
| 87.5°  | 14.9  | 25.3  | 35.7  | 46.1  | 56.5  | 67.2  | 78.2  | 89.2  | 100.2 | 111.2 | 118.2 |
| 90°    | 8.5   | 20.8  | 33.0  | 45.2  | 57.4  | 69.8  | 82.3  | 94.8  | 107.3 | 119.8 | 127.7 |
| 92.5°  | 28.3  | 37.1  | 45.8  | 54.5  | 63.2  | 73.2  | 84.4  | 95.5  | 106.7 | 117.9 | 125.0 |
| 95°    | 75.1  | 75.1  | 75.1  | 75.1  | 75.1  | 80.9  | 92.5  | 104.1 | 115.7 | 127.3 | 134.8 |
| 97.5°  | 142.4 | 127.3 | 112.3 | 97.3  | 82.2  | 81.4  | 94.8  | 108.2 | 121.6 | 135.0 | 142.0 |
| 100°   | 193.4 | 167.2 | 140.9 | 114.7 | 88.5  | 82.0  | 95.3  | 108.7 | 122.0 | 135.3 | 143.3 |
| 102.5° | 248.9 | 247.7 | 246.4 | 245.2 | 244.0 | 231.1 | 206.5 | 181.9 | 157.4 | 132.8 | 141.3 |
| 105°   | 326.9 | 338.8 | 350.7 | 362.6 | 374.5 | 352.5 | 296.7 | 240.8 | 184.9 | 129.1 | 137.5 |
| 107.5° | 416.7 | 426.3 | 435.8 | 445.4 | 455.0 | 425.2 | 356.1 | 287.0 | 218.0 | 148.9 | 151.8 |
| 110°   | 473.9 | 482.2 | 490.5 | 498.8 | 507.0 | 481.1 | 421.0 | 360.8 | 300.7 | 240.6 | 222.2 |



TEST NUMBER: P331324

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 528.3  | 535.5  | 542.7  | 549.9  | 557.1  | 556.1  | 547.0  | 537.8  | 528.7  | 519.6  | 438.7  |
| 115°   | 614.2  | 620.1  | 625.9  | 631.8  | 637.6  | 647.2  | 660.6  | 674.0  | 687.3  | 700.7  | 596.3  |
| 117.5° | 690.2  | 695.9  | 701.6  | 707.3  | 713.0  | 721.3  | 732.3  | 743.2  | 754.2  | 765.2  | 743.6  |
| 120°   | 746.4  | 750.6  | 754.8  | 759.0  | 763.2  | 770.7  | 781.6  | 792.5  | 803.4  | 814.3  | 821.8  |
| 122.5° | 794.0  | 798.0  | 802.0  | 806.0  | 810.0  | 817.4  | 828.3  | 839.2  | 850.0  | 860.9  | 867.1  |
| 125°   | 865.7  | 868.8  | 871.9  | 875.0  | 878.0  | 884.5  | 894.3  | 904.1  | 913.9  | 923.7  | 929.8  |
| 127.5° | 931.4  | 934.7  | 937.9  | 941.2  | 944.4  | 949.8  | 957.5  | 965.1  | 972.7  | 980.4  | 986.9  |
| 130°   | 973.1  | 976.7  | 980.3  | 984.0  | 987.6  | 992.4  | 998.5  | 1004.6 | 1010.7 | 1016.8 | 1023.3 |
| 132.5° | 1015.6 | 1018.7 | 1021.7 | 1024.8 | 1027.8 | 1032.0 | 1037.3 | 1042.6 | 1047.9 | 1053.1 | 1059.2 |
| 135°   | 1070.2 | 1073.9 | 1077.7 | 1081.5 | 1085.3 | 1089.1 | 1092.9 | 1096.6 | 1100.4 | 1104.2 | 1110.1 |
| 137.5° | 1126.1 | 1128.7 | 1131.3 | 1133.9 | 1136.5 | 1139.4 | 1142.6 | 1145.7 | 1148.8 | 1152.0 | 1157.3 |
| 140°   | 1162.7 | 1164.4 | 1166.1 | 1167.8 | 1169.5 | 1171.9 | 1174.8 | 1177.7 | 1180.7 | 1183.6 | 1188.4 |
| 142.5° | 1193.3 | 1194.8 | 1196.3 | 1197.9 | 1199.4 | 1201.7 | 1204.7 | 1207.8 | 1210.8 | 1213.9 | 1217.9 |
| 145°   | 1240.6 | 1240.3 | 1240.1 | 1239.9 | 1239.6 | 1241.5 | 1245.5 | 1249.5 | 1253.6 | 1257.6 | 1260.2 |
| 147.5° | 1282.5 | 1281.6 | 1280.7 | 1279.8 | 1278.9 | 1280.4 | 1284.4 | 1288.3 | 1292.3 | 1296.3 | 1297.6 |
| 150°   | 1309.7 | 1308.0 | 1306.4 | 1304.7 | 1303.1 | 1304.1 | 1307.9 | 1311.7 | 1315.5 | 1319.2 | 1320.7 |
| 152.5° | 1332.6 | 1330.8 | 1328.9 | 1327.1 | 1325.3 | 1326.1 | 1329.7 | 1333.3 | 1336.9 | 1340.5 | 1341.9 |
| 155°   | 1366.0 | 1363.9 | 1361.8 | 1359.6 | 1357.5 | 1357.9 | 1360.7 | 1363.5 | 1366.4 | 1369.2 | 1370.6 |
| 157.5° | 1392.2 | 1390.4 | 1388.6 | 1386.8 | 1385.0 | 1385.1 | 1387.1 | 1389.0 | 1391.0 | 1393.0 | 1394.6 |
| 160°   | 1407.5 | 1406.1 | 1404.6 | 1403.2 | 1401.8 | 1401.8 | 1403.2 | 1404.6 | 1406.1 | 1407.5 | 1408.9 |
| 162.5° | 1421.1 | 1419.7 | 1418.2 | 1416.8 | 1415.4 | 1415.3 | 1416.5 | 1417.8 | 1419.0 | 1420.2 | 1421.8 |
| 165°   | 1439.4 | 1437.9 | 1436.5 | 1435.1 | 1433.7 | 1433.3 | 1434.0 | 1434.8 | 1435.5 | 1436.2 | 1437.8 |
| 167.5° | 1453.0 | 1451.6 | 1450.1 | 1448.7 | 1447.3 | 1446.9 | 1447.6 | 1448.2 | 1448.9 | 1449.6 | 1451.2 |
| 170°   | 1460.6 | 1459.2 | 1457.8 | 1456.4 | 1455.0 | 1454.5 | 1455.0 | 1455.4 | 1455.9 | 1456.4 | 1458.0 |
| 172.5° | 1465.7 | 1464.3 | 1462.9 | 1461.5 | 1460.1 | 1459.6 | 1460.1 | 1460.5 | 1461.0 | 1461.5 | 1463.1 |
| 175°   | 1472.3 | 1470.7 | 1469.0 | 1467.4 | 1465.7 | 1465.1 | 1465.6 | 1466.1 | 1466.5 | 1467.0 | 1468.7 |
| 177.5° | 1473.4 | 1472.1 | 1470.7 | 1469.4 | 1468.1 | 1467.5 | 1467.7 | 1467.9 | 1468.1 | 1468.3 | 1469.6 |
| 180°   | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 |
| 2.5°   | 513.7 | 514.3 | 515.0 | 515.2 | 514.9 | 514.7 | 514.4 | 514.1 |
| 5°     | 512.1 | 513.1 | 514.1 | 514.5 | 514.3 | 514.2 | 514.0 | 513.8 |
| 7.5°   | 509.6 | 510.8 | 512.0 | 512.5 | 512.4 | 512.2 | 512.0 | 511.9 |
| 10°    | 507.5 | 508.8 | 510.2 | 510.8 | 510.6 | 510.4 | 510.3 | 510.1 |
| 12.5°  | 503.9 | 505.3 | 506.6 | 507.2 | 507.0 | 506.8 | 506.7 | 506.5 |
| 15°    | 497.4 | 498.9 | 500.4 | 501.0 | 500.9 | 500.7 | 500.5 | 500.4 |
| 17.5°  | 489.0 | 490.6 | 492.1 | 492.9 | 492.9 | 492.9 | 492.9 | 492.9 |
| 20°    | 482.4 | 484.2 | 486.0 | 486.9 | 486.9 | 486.9 | 486.9 | 486.9 |
| 22.5°  | 475.2 | 477.0 | 478.9 | 479.9 | 480.2 | 480.4 | 480.7 | 481.0 |
| 25°    | 464.0 | 466.0 | 468.0 | 469.3 | 469.8 | 470.3 | 470.8 | 471.3 |
| 27.5°  | 451.7 | 454.2 | 456.7 | 458.1 | 458.5 | 458.9 | 459.2 | 459.6 |
| 30°    | 443.0 | 445.6 | 448.3 | 449.8 | 450.3 | 450.8 | 451.3 | 451.8 |
| 32.5°  | 433.6 | 436.6 | 439.7 | 441.7 | 442.6 | 443.5 | 444.4 | 445.3 |
| 35°    | 420.3 | 424.0 | 427.6 | 430.0 | 431.2 | 432.3 | 433.5 | 434.7 |
| 37.5°  | 406.6 | 410.7 | 414.7 | 417.3 | 418.6 | 419.8 | 421.0 | 422.3 |
| 40°    | 397.0 | 401.3 | 405.6 | 408.5 | 410.0 | 411.5 | 413.0 | 414.5 |
| 42.5°  | 387.6 | 392.3 | 397.0 | 400.2 | 401.6 | 403.1 | 404.6 | 406.1 |
| 45°    | 373.3 | 378.4 | 383.5 | 386.9 | 388.6 | 390.3 | 391.9 | 393.6 |
| 47.5°  | 358.3 | 363.7 | 369.1 | 372.7 | 374.5 | 376.3 | 378.2 | 380.0 |
| 50°    | 348.1 | 353.7 | 359.4 | 363.1 | 365.0 | 366.8 | 368.6 | 370.4 |
| 52.5°  | 337.0 | 342.8 | 348.6 | 352.4 | 354.4 | 356.4 | 358.3 | 360.3 |
| 55°    | 320.4 | 326.4 | 332.3 | 336.4 | 338.6 | 340.7 | 342.9 | 345.0 |
| 57.5°  | 302.8 | 309.2 | 315.7 | 320.0 | 322.2 | 324.4 | 326.6 | 328.8 |
| 60°    | 291.2 | 297.5 | 303.8 | 308.1 | 310.4 | 312.8 | 315.1 | 317.4 |
| 62.5°  | 278.8 | 285.5 | 292.2 | 296.7 | 298.9 | 301.1 | 303.3 | 305.5 |
| 65°    | 260.1 | 266.9 | 273.7 | 278.2 | 280.3 | 282.5 | 284.6 | 286.8 |
| 67.5°  | 241.1 | 247.9 | 254.8 | 259.4 | 261.6 | 263.9 | 266.2 | 268.4 |
| 70°    | 227.9 | 235.0 | 242.1 | 246.7 | 248.7 | 250.7 | 252.7 | 254.7 |
| 72.5°  | 215.1 | 222.1 | 229.1 | 233.8 | 236.1 | 238.5 | 240.9 | 243.3 |
| 75°    | 195.8 | 202.9 | 210.0 | 214.7 | 216.8 | 219.0 | 221.1 | 223.3 |
| 77.5°  | 176.9 | 184.0 | 191.1 | 195.8 | 198.1 | 200.4 | 202.8 | 205.1 |
| 80°    | 164.1 | 171.0 | 178.0 | 182.6 | 185.0 | 187.3 | 189.6 | 191.9 |
| 82.5°  | 152.1 | 159.1 | 166.0 | 170.6 | 172.8 | 175.0 | 177.2 | 179.4 |
| 85°    | 134.9 | 141.9 | 148.9 | 153.5 | 155.8 | 158.2 | 160.5 | 162.8 |
| 87.5°  | 125.2 | 132.2 | 139.2 | 143.8 | 146.1 | 148.3 | 150.5 | 152.7 |
| 90°    | 135.5 | 143.3 | 151.1 | 156.3 | 158.7 | 161.2 | 163.7 | 166.1 |
| 92.5°  | 132.1 | 139.2 | 146.3 | 151.0 | 153.3 | 155.6 | 157.9 | 160.1 |
| 95°    | 142.3 | 149.8 | 157.3 | 161.9 | 163.7 | 165.4 | 167.2 | 168.9 |
| 97.5°  | 149.1 | 156.2 | 163.3 | 168.0 | 170.2 | 172.4 | 174.7 | 176.9 |
| 100°   | 151.3 | 159.4 | 167.4 | 172.6 | 174.9 | 177.2 | 179.5 | 181.8 |
| 102.5° | 149.7 | 158.2 | 166.7 | 172.1 | 174.6 | 177.1 | 179.6 | 182.1 |
| 105°   | 145.9 | 154.3 | 162.7 | 168.3 | 171.1 | 173.8 | 176.6 | 179.4 |
| 107.5° | 154.7 | 157.7 | 160.6 | 163.5 | 166.2 | 169.0 | 171.8 | 174.5 |
| 110°   | 203.9 | 185.6 | 167.3 | 159.5 | 162.3 | 165.1 | 167.8 | 170.6 |





TEST NUMBER: P331324

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 357.8  | 277.0  | 196.1  | 157.0  | 159.5  | 162.1  | 164.7  | 167.3  |
| 115°   | 491.9  | 387.5  | 283.1  | 223.3  | 208.1  | 193.0  | 177.8  | 162.6  |
| 117.5° | 722.1  | 700.5  | 679.0  | 641.1  | 586.9  | 532.7  | 478.5  | 424.3  |
| 120°   | 829.3  | 836.8  | 844.2  | 832.9  | 802.9  | 772.8  | 742.8  | 712.7  |
| 122.5° | 873.3  | 879.5  | 885.8  | 886.6  | 881.9  | 877.3  | 872.7  | 868.0  |
| 125°   | 935.9  | 942.1  | 948.2  | 952.4  | 954.6  | 956.8  | 959.0  | 961.2  |
| 127.5° | 993.4  | 999.9  | 1006.5 | 1010.5 | 1012.1 | 1013.7 | 1015.3 | 1016.9 |
| 130°   | 1029.9 | 1036.5 | 1043.1 | 1046.9 | 1048.0 | 1049.1 | 1050.2 | 1051.3 |
| 132.5° | 1065.3 | 1071.4 | 1077.4 | 1081.0 | 1082.1 | 1083.2 | 1084.3 | 1085.4 |
| 135°   | 1115.9 | 1121.8 | 1127.6 | 1131.0 | 1131.8 | 1132.7 | 1133.5 | 1134.4 |
| 137.5° | 1162.7 | 1168.1 | 1173.4 | 1176.3 | 1176.6 | 1176.9 | 1177.3 | 1177.6 |
| 140°   | 1193.2 | 1197.9 | 1202.7 | 1205.0 | 1204.8 | 1204.7 | 1204.5 | 1204.3 |
| 142.5° | 1222.0 | 1226.1 | 1230.1 | 1232.0 | 1231.7 | 1231.4 | 1231.0 | 1230.7 |
| 145°   | 1262.9 | 1265.5 | 1268.2 | 1269.3 | 1269.0 | 1268.6 | 1268.3 | 1267.9 |
| 147.5° | 1299.0 | 1300.4 | 1301.7 | 1302.1 | 1301.5 | 1300.9 | 1300.3 | 1299.7 |
| 150°   | 1322.1 | 1323.5 | 1324.9 | 1325.0 | 1323.8 | 1322.7 | 1321.5 | 1320.3 |
| 152.5° | 1343.3 | 1344.8 | 1346.2 | 1346.1 | 1344.5 | 1343.0 | 1341.4 | 1339.9 |
| 155°   | 1372.0 | 1373.5 | 1374.9 | 1374.6 | 1372.7 | 1370.9 | 1369.0 | 1367.1 |
| 157.5° | 1396.2 | 1397.8 | 1399.4 | 1399.3 | 1397.5 | 1395.6 | 1393.8 | 1391.9 |
| 160°   | 1410.3 | 1411.7 | 1413.1 | 1413.0 | 1411.4 | 1409.7 | 1408.1 | 1406.4 |
| 162.5° | 1423.4 | 1425.0 | 1426.7 | 1426.4 | 1424.4 | 1422.4 | 1420.3 | 1418.3 |
| 165°   | 1439.5 | 1441.1 | 1442.8 | 1442.8 | 1441.1 | 1439.5 | 1437.8 | 1436.2 |
| 167.5° | 1452.9 | 1454.5 | 1456.2 | 1455.9 | 1453.8 | 1451.7 | 1449.6 | 1447.4 |
| 170°   | 1459.7 | 1461.3 | 1463.0 | 1462.7 | 1460.6 | 1458.5 | 1456.4 | 1454.2 |
| 172.5° | 1464.8 | 1466.4 | 1468.1 | 1467.9 | 1465.7 | 1463.6 | 1461.5 | 1459.3 |
| 175°   | 1470.3 | 1472.0 | 1473.6 | 1473.3 | 1470.9 | 1468.5 | 1466.2 | 1463.8 |
| 177.5° | 1470.9 | 1472.2 | 1473.6 | 1473.4 | 1471.7 | 1470.0 | 1468.3 | 1466.6 |
| 180°   | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 | 1469.1 |

(END OF REPORT)