

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: P331391

Luminaire Tested: **S122DIP-S865D530U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331391  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S865D530U835-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5403.1 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

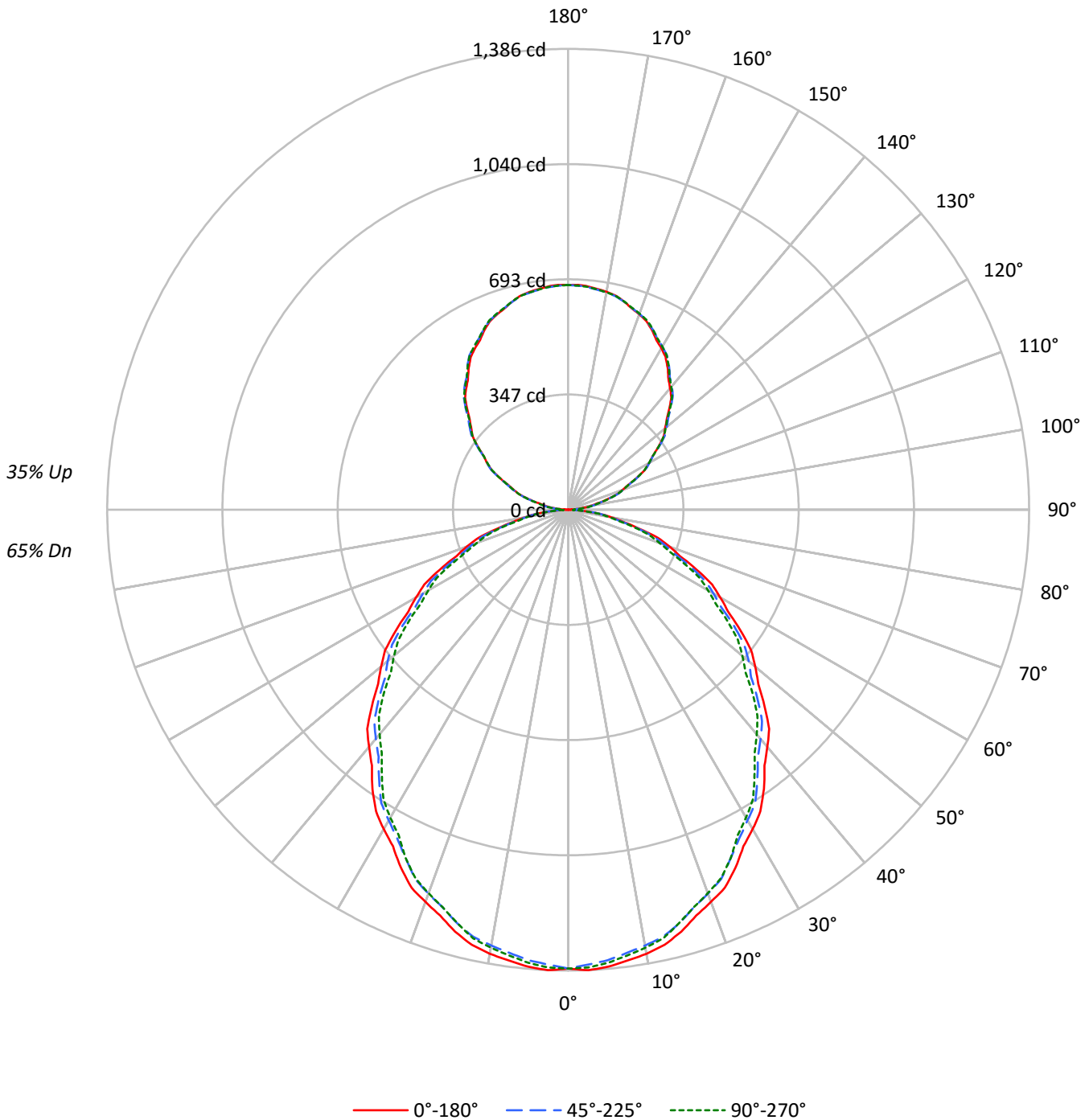
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331391

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-F1

### Luminous Intensity Polar Plot





TEST NUMBER: P331391

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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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 | 65 |
| 1   | 101 | 97  | 93  | 89  | 95  | 91  | 88  | 84  | 80 | 78 | 75 | 71 | 69 | 67 | 62 | 60 | 59 | 55 |
| 2   | 92  | 84  | 78  | 73  | 86  | 80  | 74  | 69  | 71 | 66 | 62 | 62 | 59 | 56 | 54 | 52 | 50 | 46 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 63  | 58  | 62 | 57 | 53 | 55 | 51 | 47 | 48 | 45 | 42 | 39 |
| 4   | 77  | 66  | 58  | 51  | 72  | 62  | 55  | 49  | 55 | 50 | 45 | 49 | 44 | 41 | 43 | 40 | 37 | 33 |
| 5   | 71  | 59  | 50  | 44  | 66  | 56  | 48  | 42  | 50 | 44 | 39 | 44 | 39 | 35 | 39 | 35 | 32 | 29 |
| 6   | 65  | 53  | 44  | 39  | 61  | 50  | 42  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 35 | 31 | 28 | 25 |
| 7   | 60  | 48  | 40  | 34  | 57  | 45  | 38  | 33  | 41 | 35 | 30 | 36 | 31 | 27 | 32 | 28 | 25 | 23 |
| 8   | 56  | 43  | 36  | 30  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 25 | 30 | 26 | 22 | 20 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 18 |
| 10  | 49  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 28 | 24 | 20 | 25 | 21 | 18 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 22281 | 22281 | 22281 |
| 5°  | 22366 | 22044 | 22174 |
| 10° | 22233 | 21820 | 21930 |
| 15° | 21959 | 21538 | 21514 |
| 20° | 21569 | 21113 | 21089 |
| 25° | 21180 | 20591 | 20591 |
| 30° | 20681 | 20113 | 19939 |
| 35° | 20217 | 19537 | 19249 |
| 40° | 19633 | 18963 | 18598 |
| 45° | 19057 | 18393 | 17938 |
| 50° | 18432 | 17799 | 17166 |
| 55° | 17779 | 17106 | 16473 |
| 60° | 17053 | 16281 | 15684 |
| 65° | 16275 | 15461 | 14751 |
| 70° | 15286 | 14469 | 13780 |
| 75° | 13905 | 13325 | 12994 |
| 80° | 12338 | 11967 | 11353 |
| 85° | 10078 | 9596  | 8596  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 129.8  | 2.4       |
| 10°-20°   | 365.1  | 6.8       |
| 20°-30°   | 536.7  | 9.9       |
| 30°-40°   | 623.4  | 11.5      |
| 40°-50°   | 622.7  | 11.5      |
| 50°-60°   | 543.1  | 10.1      |
| 60°-70°   | 401.6  | 7.4       |
| 70°-80°   | 227.4  | 4.2       |
| 80°-90°   | 63.9   | 1.2       |
| 90°-100°  | 42.8   | 0.8       |
| 100°-110° | 133.0  | 2.5       |
| 110°-120° | 227.3  | 4.2       |
| 120°-130° | 298.9  | 5.5       |
| 130°-140° | 335.5  | 6.2       |
| 140°-150° | 329.0  | 6.1       |
| 150°-160° | 275.9  | 5.1       |
| 160°-170° | 183.0  | 3.4       |
| 170°-180° | 64.0   | 1.2       |
| 0°-30°    | 1031.6 | 19.1      |
| 0°-40°    | 1655.0 | 30.6      |
| 0°-60°    | 2820.8 | 52.2      |
| 0°-90°    | 3513.7 | 65.0      |
| 90°-120°  | 403.1  | 7.5       |
| 90°-150°  | 1366.6 | 25.3      |
| 90°-180°  | 1889.0 | 35.0      |
| 0°-180°   | 5403.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1380 | 1380  | 1380 | 1380  | 1380 |      |
| 5°   | 1380 | 1374  | 1360 | 1370  | 1368 | 131  |
| 15°  | 1314 | 1305  | 1288 | 1293  | 1287 | 370  |
| 25°  | 1189 | 1178  | 1156 | 1158  | 1156 | 547  |
| 35°  | 1026 | 1012  | 991  | 983   | 977  | 640  |
| 45°  | 835  | 825   | 806  | 791   | 786  | 644  |
| 55°  | 632  | 623   | 608  | 592   | 585  | 565  |
| 65°  | 426  | 418   | 405  | 393   | 386  | 421  |
| 75°  | 223  | 220   | 214  | 206   | 208  | 238  |
| 85°  | 54   | 53    | 52   | 48    | 46   | 62   |
| 90°  | 1    | 8     | 20   | 19    | 19   | 4    |
| 95°  | 30   | 35    | 36   | 36    | 35   | 34   |
| 105° | 123  | 124   | 126  | 127   | 127  | 129  |
| 115° | 228  | 231   | 230  | 230   | 228  | 226  |
| 125° | 332  | 337   | 335  | 334   | 333  | 296  |
| 135° | 429  | 435   | 437  | 436   | 434  | 332  |
| 145° | 521  | 525   | 529  | 529   | 527  | 325  |
| 155° | 596  | 598   | 599  | 602   | 600  | 274  |
| 165° | 648  | 648   | 648  | 651   | 649  | 183  |
| 175° | 675  | 673   | 672  | 675   | 672  | 64   |
| 180° | 676  | 676   | 676  | 676   | 676  |      |



TEST NUMBER: P331391

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 |
| 2.5°   | 1386.4 | 1385.2 | 1384.0 | 1382.9 | 1381.7 | 1379.8 | 1377.2 | 1374.6 | 1372.0 | 1369.4 | 1371.8 |
| 5°     | 1380.0 | 1378.8 | 1377.7 | 1376.5 | 1375.3 | 1373.1 | 1369.9 | 1366.6 | 1363.4 | 1360.1 | 1362.5 |
| 7.5°   | 1367.8 | 1366.0 | 1364.2 | 1362.3 | 1360.5 | 1357.9 | 1354.6 | 1351.3 | 1348.0 | 1344.7 | 1347.1 |
| 10°    | 1356.1 | 1354.1 | 1352.0 | 1349.9 | 1347.9 | 1345.1 | 1341.5 | 1338.0 | 1334.5 | 1330.9 | 1333.3 |
| 12.5°  | 1340.2 | 1338.4 | 1336.6 | 1334.7 | 1332.9 | 1330.2 | 1326.7 | 1323.1 | 1319.6 | 1316.1 | 1317.7 |
| 15°    | 1313.7 | 1311.9 | 1310.1 | 1308.4 | 1306.6 | 1303.8 | 1300.0 | 1296.1 | 1292.3 | 1288.5 | 1289.6 |
| 17.5°  | 1279.7 | 1277.9 | 1276.2 | 1274.4 | 1272.6 | 1269.8 | 1265.9 | 1262.0 | 1258.1 | 1254.2 | 1255.6 |
| 20°    | 1255.3 | 1253.5 | 1251.8 | 1250.0 | 1248.2 | 1245.3 | 1241.1 | 1237.0 | 1232.9 | 1228.8 | 1229.6 |
| 22.5°  | 1230.9 | 1228.4 | 1225.9 | 1223.4 | 1221.0 | 1217.8 | 1213.9 | 1210.0 | 1206.1 | 1202.2 | 1202.4 |
| 25°    | 1188.9 | 1186.6 | 1184.2 | 1181.9 | 1179.5 | 1175.8 | 1170.8 | 1165.8 | 1160.8 | 1155.8 | 1156.4 |
| 27.5°  | 1141.2 | 1139.1 | 1136.9 | 1134.8 | 1132.7 | 1129.6 | 1125.7 | 1121.7 | 1117.8 | 1113.8 | 1113.0 |
| 30°    | 1109.3 | 1107.0 | 1104.6 | 1102.3 | 1099.9 | 1096.5 | 1092.1 | 1087.7 | 1083.2 | 1078.8 | 1077.9 |
| 32.5°  | 1075.4 | 1073.5 | 1071.6 | 1069.7 | 1067.8 | 1064.5 | 1059.9 | 1055.2 | 1050.6 | 1045.9 | 1044.3 |
| 35°    | 1025.7 | 1022.8 | 1019.8 | 1016.9 | 1013.9 | 1010.1 | 1005.4 | 1000.7 | 995.9  | 991.2  | 989.5  |
| 37.5°  | 969.7  | 967.1  | 964.5  | 961.9  | 959.4  | 955.7  | 951.0  | 946.3  | 941.5  | 936.8  | 934.6  |
| 40°    | 931.5  | 929.2  | 926.8  | 924.4  | 922.1  | 918.5  | 913.8  | 909.1  | 904.4  | 899.7  | 897.0  |
| 42.5°  | 894.4  | 892.0  | 889.6  | 887.3  | 884.9  | 881.4  | 876.7  | 872.0  | 867.2  | 862.5  | 859.6  |
| 45°    | 834.6  | 832.6  | 830.5  | 828.5  | 826.4  | 823.1  | 818.7  | 814.3  | 809.9  | 805.5  | 802.2  |
| 47.5°  | 775.2  | 773.3  | 771.3  | 769.4  | 767.4  | 764.1  | 759.5  | 754.9  | 750.3  | 745.7  | 742.3  |
| 50°    | 733.8  | 732.3  | 730.9  | 729.4  | 727.9  | 725.1  | 721.0  | 716.8  | 712.7  | 708.6  | 704.5  |
| 52.5°  | 693.5  | 691.5  | 689.6  | 687.6  | 685.7  | 682.8  | 678.9  | 675.0  | 671.1  | 667.2  | 663.8  |
| 55°    | 631.6  | 629.9  | 628.1  | 626.3  | 624.5  | 621.9  | 618.4  | 614.8  | 611.3  | 607.7  | 604.2  |
| 57.5°  | 569.5  | 568.1  | 566.7  | 565.3  | 563.9  | 561.2  | 557.3  | 553.4  | 549.5  | 545.6  | 542.2  |
| 60°    | 528.1  | 526.9  | 525.8  | 524.6  | 523.4  | 520.8  | 516.6  | 512.5  | 508.4  | 504.2  | 501.0  |
| 62.5°  | 487.8  | 485.9  | 484.0  | 482.1  | 480.2  | 477.7  | 474.5  | 471.3  | 468.1  | 465.0  | 462.0  |
| 65°    | 426.0  | 424.2  | 422.4  | 420.6  | 418.9  | 416.5  | 413.6  | 410.6  | 407.7  | 404.7  | 402.1  |
| 67.5°  | 363.1  | 361.6  | 360.2  | 358.8  | 357.4  | 355.4  | 352.7  | 350.0  | 347.4  | 344.7  | 342.7  |
| 70°    | 323.8  | 322.6  | 321.4  | 320.2  | 319.1  | 317.1  | 314.5  | 311.8  | 309.2  | 306.5  | 304.5  |
| 72.5°  | 283.4  | 282.3  | 281.1  | 279.9  | 278.7  | 277.3  | 275.6  | 273.9  | 272.1  | 270.4  | 268.4  |
| 75°    | 222.9  | 222.3  | 221.7  | 221.2  | 220.6  | 219.5  | 218.1  | 216.6  | 215.1  | 213.6  | 211.9  |
| 77.5°  | 168.8  | 167.8  | 166.8  | 165.8  | 164.8  | 164.0  | 163.4  | 162.8  | 162.2  | 161.6  | 160.7  |
| 80°    | 132.7  | 132.4  | 132.1  | 131.8  | 131.5  | 131.1  | 130.5  | 129.9  | 129.3  | 128.7  | 127.8  |
| 82.5°  | 98.7   | 98.7   | 98.6   | 98.5   | 98.5   | 98.3   | 97.9   | 97.6   | 97.2   | 96.9   | 95.7   |
| 85°    | 54.4   | 54.1   | 53.8   | 53.5   | 53.2   | 52.9   | 52.6   | 52.3   | 52.0   | 51.8   | 50.9   |
| 87.5°  | 19.2   | 19.1   | 18.9   | 18.7   | 18.6   | 18.5   | 18.6   | 18.7   | 18.8   | 18.9   | 18.1   |
| 90°    | 0.6    | 2.1    | 3.6    | 5.1    | 6.7    | 8.8    | 11.6   | 14.4   | 17.2   | 20.0   | 19.7   |
| 92.5°  | 10.2   | 11.3   | 12.4   | 13.5   | 14.6   | 15.5   | 16.2   | 16.8   | 17.5   | 18.1   | 18.2   |
| 95°    | 29.7   | 30.9   | 32.2   | 33.5   | 34.7   | 35.5   | 35.7   | 36.0   | 36.2   | 36.5   | 36.5   |
| 97.5°  | 54.2   | 55.3   | 56.4   | 57.5   | 58.6   | 59.4   | 59.9   | 60.4   | 60.9   | 61.4   | 61.4   |
| 100°   | 72.4   | 73.4   | 74.4   | 75.5   | 76.5   | 77.2   | 77.6   | 77.9   | 78.3   | 78.7   | 78.7   |
| 102.5° | 91.6   | 92.4   | 93.2   | 94.0   | 94.8   | 95.5   | 96.0   | 96.4   | 96.9   | 97.4   | 97.5   |
| 105°   | 122.6  | 123.0  | 123.4  | 123.7  | 124.1  | 124.4  | 124.7  | 124.9  | 125.2  | 125.5  | 125.7  |
| 107.5° | 153.9  | 154.4  | 155.0  | 155.5  | 156.1  | 156.4  | 156.4  | 156.4  | 156.4  | 156.4  | 156.5  |
| 110°   | 173.9  | 174.7  | 175.4  | 176.2  | 177.0  | 177.3  | 177.3  | 177.3  | 177.3  | 177.3  | 177.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 195.8 | 196.6 | 197.3 | 198.1 | 198.9 | 199.2 | 199.1 | 199.0 | 198.9 | 198.8 | 198.5 |
| 115°   | 228.1 | 228.9 | 229.6 | 230.4 | 231.1 | 231.4 | 231.1 | 230.9 | 230.6 | 230.4 | 230.3 |
| 117.5° | 260.3 | 261.3 | 262.3 | 263.3 | 264.3 | 264.5 | 263.8 | 263.0 | 262.3 | 261.6 | 261.3 |
| 120°   | 281.7 | 282.7 | 283.7 | 284.7 | 285.8 | 285.8 | 284.7 | 283.7 | 282.7 | 281.7 | 281.7 |
| 122.5° | 301.3 | 302.5 | 303.8 | 305.0 | 306.2 | 306.4 | 305.7 | 305.0 | 304.3 | 303.6 | 303.3 |
| 125°   | 331.9 | 333.0 | 334.2 | 335.3 | 336.4 | 336.8 | 336.4 | 336.1 | 335.7 | 335.3 | 334.9 |
| 127.5° | 361.6 | 363.1 | 364.5 | 366.0 | 367.4 | 367.9 | 367.5 | 367.0 | 366.6 | 366.1 | 365.6 |
| 130°   | 380.4 | 382.0 | 383.6 | 385.3 | 386.9 | 387.6 | 387.4 | 387.1 | 386.9 | 386.6 | 386.4 |
| 132.5° | 401.3 | 402.7 | 404.0 | 405.4 | 406.7 | 407.4 | 407.5 | 407.5 | 407.6 | 407.6 | 407.1 |
| 135°   | 429.4 | 430.8 | 432.2 | 433.6 | 435.0 | 435.8 | 436.0 | 436.3 | 436.6 | 436.8 | 436.7 |
| 137.5° | 458.9 | 460.1 | 461.2 | 462.4 | 463.5 | 464.2 | 464.6 | 464.9 | 465.2 | 465.5 | 465.4 |
| 140°   | 476.7 | 477.9 | 479.0 | 480.1 | 481.3 | 482.2 | 482.8 | 483.4 | 484.1 | 484.7 | 484.7 |
| 142.5° | 495.0 | 496.1 | 497.3 | 498.4 | 499.5 | 500.3 | 500.8 | 501.2 | 501.6 | 502.0 | 502.1 |
| 145°   | 521.2 | 522.1 | 523.0 | 523.9 | 524.8 | 525.6 | 526.3 | 527.1 | 527.9 | 528.6 | 528.7 |
| 147.5° | 544.6 | 545.6 | 546.7 | 547.8 | 548.8 | 549.6 | 550.1 | 550.6 | 551.1 | 551.7 | 551.9 |
| 150°   | 560.6 | 561.3 | 562.1 | 562.8 | 563.6 | 564.2 | 564.7 | 565.2 | 565.7 | 566.3 | 566.6 |
| 152.5° | 574.7 | 575.5 | 576.2 | 577.0 | 577.7 | 578.4 | 579.0 | 579.6 | 580.2 | 580.9 | 581.3 |
| 155°   | 595.9 | 596.3 | 596.7 | 597.0 | 597.4 | 597.8 | 598.2 | 598.6 | 598.9 | 599.3 | 600.0 |
| 157.5° | 614.0 | 614.3 | 614.5 | 614.8 | 615.1 | 615.3 | 615.5 | 615.8 | 616.0 | 616.2 | 617.1 |
| 160°   | 625.0 | 625.2 | 625.5 | 625.7 | 626.0 | 626.2 | 626.3 | 626.4 | 626.6 | 626.7 | 627.5 |
| 162.5° | 635.0 | 635.1 | 635.1 | 635.2 | 635.2 | 635.3 | 635.4 | 635.6 | 635.7 | 635.8 | 636.7 |
| 165°   | 648.4 | 648.2 | 648.1 | 648.0 | 647.9 | 647.8 | 647.8 | 647.8 | 647.8 | 647.8 | 648.7 |
| 167.5° | 659.5 | 659.2 | 658.8 | 658.4 | 658.0 | 657.8 | 657.8 | 657.8 | 657.7 | 657.7 | 658.6 |
| 170°   | 665.5 | 665.1 | 664.7 | 664.3 | 664.0 | 663.7 | 663.6 | 663.4 | 663.3 | 663.2 | 664.1 |
| 172.5° | 669.6 | 669.2 | 668.8 | 668.4 | 668.1 | 667.8 | 667.7 | 667.6 | 667.4 | 667.3 | 668.2 |
| 175°   | 674.6 | 674.2 | 673.8 | 673.5 | 673.1 | 672.8 | 672.5 | 672.3 | 672.0 | 671.7 | 672.6 |
| 177.5° | 676.7 | 676.3 | 676.0 | 675.7 | 675.4 | 675.2 | 675.0 | 674.8 | 674.6 | 674.4 | 675.0 |
| 180°   | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 | 1380.0 |
| 2.5°   | 1374.1 | 1376.5 | 1378.8 | 1379.8 | 1379.3 | 1378.8 | 1378.4 | 1377.9 |
| 5°     | 1364.8 | 1367.2 | 1369.6 | 1370.4 | 1369.9 | 1369.3 | 1368.7 | 1368.1 |
| 7.5°   | 1349.4 | 1351.8 | 1354.2 | 1355.0 | 1354.4 | 1353.7 | 1353.1 | 1352.4 |
| 10°    | 1335.6 | 1338.0 | 1340.4 | 1341.1 | 1340.2 | 1339.3 | 1338.4 | 1337.6 |
| 12.5°  | 1319.4 | 1321.0 | 1322.7 | 1323.2 | 1322.5 | 1321.9 | 1321.2 | 1320.6 |
| 15°    | 1290.8 | 1292.0 | 1293.2 | 1293.0 | 1291.6 | 1290.1 | 1288.6 | 1287.1 |
| 17.5°  | 1256.9 | 1258.3 | 1259.7 | 1259.6 | 1258.2 | 1256.8 | 1255.4 | 1254.0 |
| 20°    | 1230.5 | 1231.4 | 1232.3 | 1232.1 | 1231.0 | 1229.8 | 1228.6 | 1227.4 |
| 22.5°  | 1202.6 | 1202.7 | 1202.9 | 1202.7 | 1201.9 | 1201.2 | 1200.5 | 1199.8 |
| 25°    | 1157.0 | 1157.5 | 1158.1 | 1158.1 | 1157.5 | 1157.0 | 1156.4 | 1155.8 |
| 27.5°  | 1112.1 | 1111.2 | 1110.3 | 1109.2 | 1107.7 | 1106.3 | 1104.9 | 1103.5 |
| 30°    | 1077.0 | 1076.2 | 1075.3 | 1074.2 | 1073.1 | 1071.9 | 1070.7 | 1069.5 |
| 32.5°  | 1042.7 | 1041.1 | 1039.5 | 1038.1 | 1037.0 | 1035.8 | 1034.6 | 1033.4 |
| 35°    | 987.7  | 985.9  | 984.2  | 982.5  | 981.1  | 979.6  | 978.1  | 976.6  |
| 37.5°  | 932.5  | 930.3  | 928.1  | 926.3  | 924.9  | 923.5  | 922.1  | 920.6  |
| 40°    | 894.4  | 891.7  | 889.1  | 887.1  | 886.0  | 884.8  | 883.6  | 882.4  |
| 42.5°  | 856.7  | 853.8  | 851.0  | 848.7  | 847.0  | 845.4  | 843.7  | 842.1  |
| 45°    | 799.0  | 795.7  | 792.5  | 790.3  | 789.1  | 787.9  | 786.7  | 785.6  |
| 47.5°  | 738.9  | 735.5  | 732.1  | 729.5  | 727.8  | 726.1  | 724.4  | 722.7  |
| 50°    | 700.3  | 696.2  | 692.1  | 689.3  | 687.8  | 686.3  | 684.9  | 683.4  |
| 52.5°  | 660.3  | 656.9  | 653.5  | 650.8  | 648.9  | 646.9  | 645.0  | 643.0  |
| 55°    | 600.7  | 597.1  | 593.6  | 591.1  | 589.6  | 588.1  | 586.7  | 585.2  |
| 57.5°  | 538.7  | 535.2  | 531.7  | 529.4  | 528.3  | 527.2  | 526.1  | 524.9  |
| 60°    | 497.8  | 494.5  | 491.3  | 489.2  | 488.3  | 487.4  | 486.5  | 485.7  |
| 62.5°  | 458.9  | 455.9  | 452.9  | 450.9  | 449.7  | 448.6  | 447.5  | 446.4  |
| 65°    | 399.4  | 396.8  | 394.1  | 392.0  | 390.6  | 389.1  | 387.6  | 386.1  |
| 67.5°  | 340.6  | 338.5  | 336.5  | 334.9  | 333.7  | 332.5  | 331.3  | 330.1  |
| 70°    | 302.4  | 300.3  | 298.3  | 296.6  | 295.5  | 294.3  | 293.1  | 291.9  |
| 72.5°  | 266.3  | 264.2  | 262.2  | 260.7  | 259.7  | 258.8  | 257.8  | 256.9  |
| 75°    | 210.1  | 208.3  | 206.6  | 206.0  | 206.6  | 207.2  | 207.7  | 208.3  |
| 77.5°  | 159.9  | 159.0  | 158.1  | 157.2  | 156.4  | 155.6  | 154.8  | 153.9  |
| 80°    | 126.9  | 126.1  | 125.2  | 124.4  | 123.8  | 123.3  | 122.7  | 122.1  |
| 82.5°  | 94.6   | 93.5   | 92.4   | 91.8   | 91.6   | 91.5   | 91.4   | 91.3   |
| 85°    | 50.0   | 49.1   | 48.2   | 47.6   | 47.3   | 47.0   | 46.7   | 46.4   |
| 87.5°  | 17.3   | 16.6   | 15.8   | 15.3   | 15.1   | 14.9   | 14.7   | 14.5   |
| 90°    | 19.5   | 19.2   | 18.9   | 18.9   | 19.0   | 19.1   | 19.3   | 19.4   |
| 92.5°  | 18.2   | 18.3   | 18.3   | 18.4   | 18.4   | 18.4   | 18.5   | 18.5   |
| 95°    | 36.5   | 36.5   | 36.5   | 36.4   | 36.1   | 35.9   | 35.6   | 35.4   |
| 97.5°  | 61.4   | 61.4   | 61.4   | 61.3   | 61.3   | 61.3   | 61.3   | 61.2   |
| 100°   | 78.7   | 78.7   | 78.7   | 78.6   | 78.5   | 78.4   | 78.3   | 78.1   |
| 102.5° | 97.6   | 97.7   | 97.8   | 97.8   | 97.7   | 97.5   | 97.4   | 97.3   |
| 105°   | 126.0  | 126.2  | 126.5  | 126.6  | 126.6  | 126.6  | 126.6  | 126.6  |
| 107.5° | 156.6  | 156.7  | 156.8  | 156.5  | 155.9  | 155.4  | 154.8  | 154.2  |
| 110°   | 177.3  | 177.3  | 177.3  | 177.2  | 176.8  | 176.4  | 176.0  | 175.6  |





TEST NUMBER: P331391

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 198.2 | 197.9 | 197.6 | 197.3 | 197.0 | 196.7 | 196.4 | 196.2 |
| 115°   | 230.1 | 230.0 | 229.9 | 229.6 | 229.2 | 228.9 | 228.5 | 228.1 |
| 117.5° | 261.0 | 260.7 | 260.4 | 260.1 | 259.7 | 259.3 | 258.9 | 258.5 |
| 120°   | 281.7 | 281.7 | 281.7 | 281.5 | 281.1 | 280.8 | 280.4 | 280.0 |
| 122.5° | 303.0 | 302.7 | 302.4 | 302.1 | 301.8 | 301.5 | 301.3 | 301.0 |
| 125°   | 334.5 | 334.2 | 333.8 | 333.5 | 333.4 | 333.3 | 333.1 | 333.0 |
| 127.5° | 365.2 | 364.7 | 364.3 | 363.8 | 363.4 | 363.0 | 362.6 | 362.2 |
| 130°   | 386.1 | 385.9 | 385.6 | 385.2 | 384.7 | 384.2 | 383.7 | 383.2 |
| 132.5° | 406.5 | 405.9 | 405.4 | 404.9 | 404.5 | 404.1 | 403.7 | 403.3 |
| 135°   | 436.6 | 436.4 | 436.3 | 436.0 | 435.7 | 435.3 | 434.9 | 434.5 |
| 137.5° | 465.3 | 465.2 | 465.1 | 464.8 | 464.3 | 463.8 | 463.3 | 462.8 |
| 140°   | 484.7 | 484.7 | 484.7 | 484.5 | 483.9 | 483.4 | 482.9 | 482.4 |
| 142.5° | 502.2 | 502.3 | 502.4 | 502.2 | 501.7 | 501.2 | 500.7 | 500.2 |
| 145°   | 528.9 | 529.0 | 529.1 | 528.9 | 528.4 | 527.9 | 527.4 | 526.9 |
| 147.5° | 552.2 | 552.5 | 552.8 | 552.7 | 552.2 | 551.7 | 551.2 | 550.7 |
| 150°   | 567.0 | 567.4 | 567.8 | 567.8 | 567.4 | 567.0 | 566.6 | 566.3 |
| 152.5° | 581.8 | 582.3 | 582.8 | 582.8 | 582.3 | 581.8 | 581.3 | 580.9 |
| 155°   | 600.6 | 601.2 | 601.9 | 602.0 | 601.6 | 601.2 | 600.8 | 600.5 |
| 157.5° | 617.9 | 618.8 | 619.7 | 619.8 | 619.2 | 618.6 | 618.0 | 617.3 |
| 160°   | 628.2 | 629.0 | 629.7 | 629.9 | 629.4 | 628.9 | 628.3 | 627.8 |
| 162.5° | 637.5 | 638.4 | 639.3 | 639.4 | 638.8 | 638.2 | 637.6 | 637.0 |
| 165°   | 649.6 | 650.5 | 651.3 | 651.5 | 650.8 | 650.2 | 649.6 | 648.9 |
| 167.5° | 659.5 | 660.4 | 661.3 | 661.4 | 660.7 | 660.1 | 659.4 | 658.7 |
| 170°   | 665.0 | 665.9 | 666.7 | 666.8 | 666.0 | 665.3 | 664.5 | 663.8 |
| 172.5° | 669.1 | 670.0 | 670.8 | 670.9 | 670.2 | 669.4 | 668.6 | 667.9 |
| 175°   | 673.5 | 674.4 | 675.3 | 675.4 | 674.6 | 673.8 | 673.1 | 672.3 |
| 177.5° | 675.6 | 676.2 | 676.8 | 676.8 | 676.2 | 675.6 | 675.0 | 674.4 |
| 180°   | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 |

(END OF REPORT)