

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: P331383

Luminaire Tested: **SA2XXDIP-C865D330U835-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331383  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C865D330U835-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

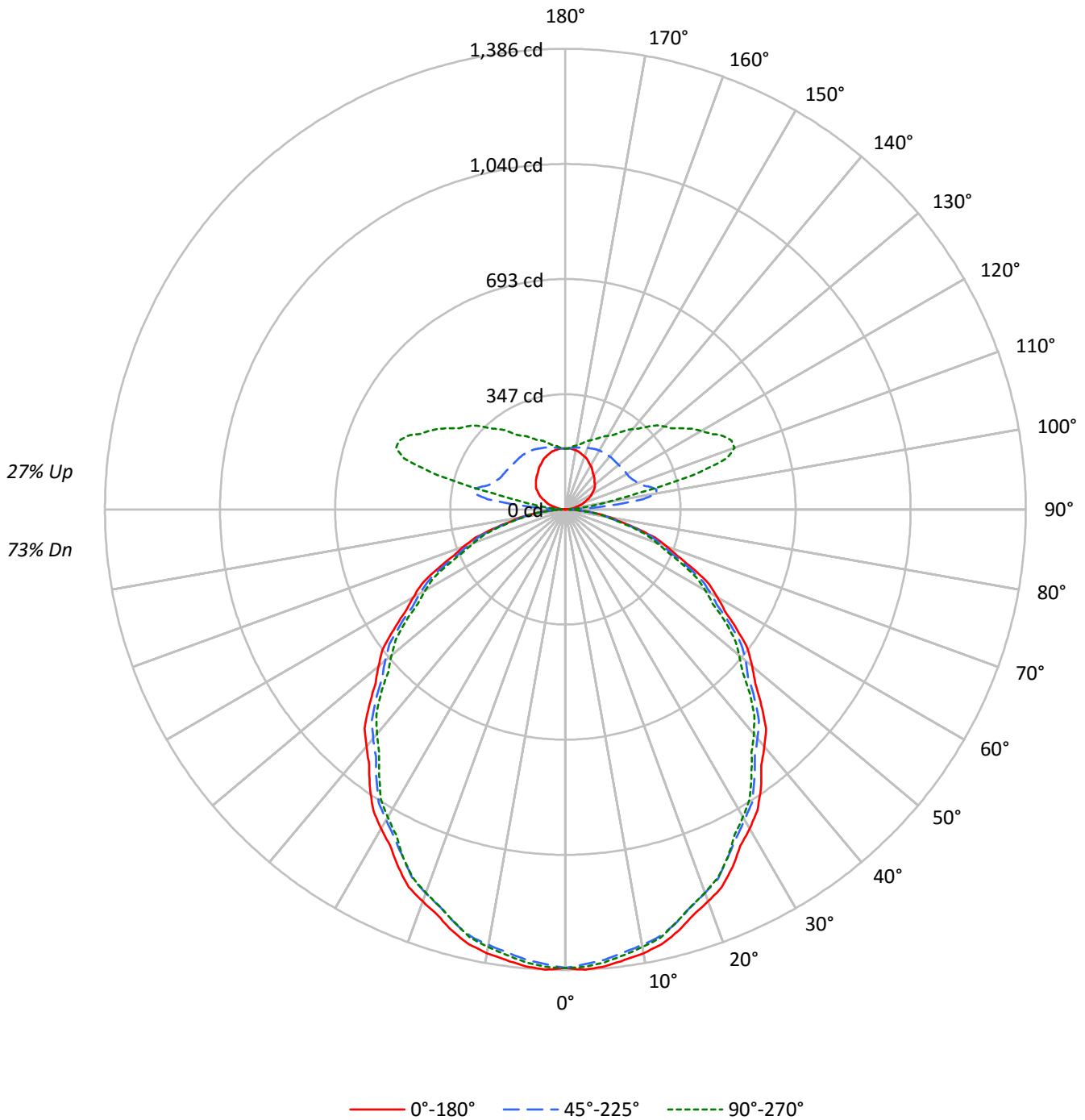
Lumens per Lamp: N/A  
Luminaire Lumens: 4791.2 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 43.5  
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: P331383  
CATALOG NUMBER: SA2XXDIP-C865D330U835-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot





TEST NUMBER: P331383

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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   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 87 | 87 | 87 | 78 | 78 | 78 | 73 |    |    |    |   |
| 1   | 103 | 99  | 94  | 91  | 98  | 94  | 90  | 87  | 85 | 82 | 79 | 76 | 74 | 72 | 69 | 67 | 66 | 62 |    |    |    |   |
| 2   | 94  | 86  | 80  | 74  | 89  | 82  | 76  | 71  | 74 | 70 | 66 | 67 | 63 | 60 | 60 | 58 | 55 | 52 |    |    |    |   |
| 3   | 86  | 76  | 68  | 62  | 81  | 72  | 65  | 60  | 65 | 60 | 55 | 59 | 55 | 51 | 54 | 50 | 47 | 44 |    |    |    |   |
| 4   | 78  | 67  | 59  | 53  | 74  | 64  | 57  | 51  | 58 | 52 | 47 | 53 | 48 | 44 | 48 | 44 | 41 | 38 |    |    |    |   |
| 5   | 72  | 60  | 52  | 45  | 68  | 57  | 50  | 44  | 52 | 46 | 41 | 48 | 42 | 38 | 43 | 39 | 35 | 33 |    |    |    |   |
| 6   | 67  | 54  | 46  | 39  | 63  | 52  | 44  | 38  | 47 | 41 | 36 | 43 | 38 | 34 | 39 | 35 | 31 | 29 |    |    |    |   |
| 7   | 62  | 49  | 41  | 35  | 58  | 47  | 39  | 34  | 43 | 36 | 32 | 39 | 34 | 30 | 36 | 31 | 28 | 25 |    |    |    |   |
| 8   | 57  | 45  | 36  | 31  | 54  | 43  | 35  | 30  | 39 | 33 | 28 | 36 | 31 | 27 | 33 | 28 | 25 | 23 |    |    |    |   |
| 9   | 54  | 41  | 33  | 28  | 51  | 39  | 32  | 27  | 36 | 30 | 26 | 33 | 28 | 24 | 30 | 26 | 23 | 21 |    |    |    |   |
| 10  | 50  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 33 | 27 | 23 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |    |    |    |   |

**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  | 2.7       |
| 10°-20°   | 365.1  | 7.6       |
| 20°-30°   | 536.7  | 11.2      |
| 30°-40°   | 623.4  | 13.0      |
| 40°-50°   | 622.7  | 13.0      |
| 50°-60°   | 543.1  | 11.3      |
| 60°-70°   | 401.6  | 8.4       |
| 70°-80°   | 227.4  | 4.7       |
| 80°-90°   | 62.8   | 1.3       |
| 90°-100°  | 73.5   | 1.5       |
| 100°-110° | 249.3  | 5.2       |
| 110°-120° | 264.8  | 5.5       |
| 120°-130° | 218.0  | 4.6       |
| 130°-140° | 175.1  | 3.7       |
| 140°-150° | 132.3  | 2.8       |
| 150°-160° | 93.0   | 1.9       |
| 160°-170° | 54.7   | 1.1       |
| 170°-180° | 17.8   | 0.4       |
| 0°-30°    | 1031.6 | 21.5      |
| 0°-40°    | 1655.0 | 34.5      |
| 0°-60°    | 2820.8 | 58.9      |
| 0°-90°    | 3512.6 | 73.3      |
| 90°-120°  | 587.6  | 12.3      |
| 90°-150°  | 1113.0 | 23.2      |
| 90°-180°  | 1279.0 | 26.7      |
| 0°-180°   | 4791.2 | 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°  | 0    | 5     | 12   | 12    | 12   | 3    |
| 95°  | 12   | 30    | 138  | 52    | 40   | 13   |
| 105° | 43   | 65    | 262  | 468   | 398  | 46   |
| 115° | 76   | 96    | 219  | 452   | 524  | 75   |
| 125° | 106  | 125   | 211  | 366   | 425  | 94   |
| 135° | 124  | 148   | 208  | 308   | 352  | 96   |
| 145° | 142  | 163   | 207  | 257   | 281  | 89   |
| 155° | 162  | 174   | 201  | 227   | 236  | 74   |
| 165° | 176  | 181   | 193  | 204   | 207  | 50   |
| 175° | 183  | 184   | 185  | 187   | 187  | 17   |
| 180° | 184  | 184   | 184  | 184   | 184  |      |



TEST NUMBER: P331383

CATALOG NUMBER: SA2XXDIP-C865D330U835-4F0-1E-UDD-F4

**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   | 18.9   | 18.7   | 18.4   | 18.1   | 17.8   | 17.7   | 17.7   | 17.7   | 17.3   | 16.5   |
| 90°    | 0.4    | 1.4    | 2.8    | 3.5    | 4.2    | 5.3    | 7.1    | 9.5    | 11.7   | 12.0   | 11.7   |
| 92.5°  | 4.3    | 6.2    | 8.8    | 10.3   | 12.7   | 16.0   | 24.0   | 35.3   | 45.3   | 45.9   | 38.8   |
| 95°    | 12.4   | 13.8   | 17.3   | 20.5   | 26.1   | 34.6   | 50.9   | 81.6   | 122.6  | 138.5  | 121.2  |
| 97.5°  | 20.1   | 22.0   | 25.8   | 30.6   | 37.1   | 46.7   | 67.1   | 110.0  | 178.1  | 236.4  | 248.0  |
| 100°   | 27.2   | 28.3   | 31.4   | 37.1   | 44.2   | 54.1   | 72.8   | 115.9  | 192.2  | 279.1  | 330.0  |
| 102.5° | 33.7   | 34.5   | 37.7   | 43.3   | 50.7   | 60.6   | 77.9   | 116.2  | 186.8  | 280.5  | 360.5  |
| 105°   | 43.1   | 44.5   | 47.0   | 52.3   | 60.1   | 70.0   | 86.6   | 118.0  | 176.3  | 261.8  | 355.8  |
| 107.5° | 53.3   | 54.4   | 56.8   | 61.7   | 69.4   | 79.4   | 95.5   | 122.9  | 171.1  | 241.7  | 324.8  |
| 110°   | 60.1   | 61.5   | 63.6   | 68.2   | 75.6   | 85.9   | 101.4  | 126.8  | 170.0  | 232.1  | 305.3  |



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CATALOG NUMBER: SA2XXDIP-C865D330U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 66.3  | 67.7  | 70.1  | 74.4  | 81.5  | 92.1  | 107.1 | 131.1 | 170.2 | 225.9 | 291.7 |
| 115°   | 76.0  | 77.7  | 79.9  | 84.1  | 91.2  | 100.7 | 115.9 | 137.4 | 171.7 | 219.1 | 274.9 |
| 117.5° | 86.0  | 87.4  | 89.5  | 93.3  | 100.1 | 110.0 | 124.0 | 144.2 | 174.3 | 215.7 | 264.3 |
| 120°   | 92.2  | 93.6  | 95.8  | 98.9  | 106.0 | 115.9 | 129.7 | 148.8 | 176.0 | 213.8 | 258.6 |
| 122.5° | 98.2  | 99.3  | 101.4 | 104.9 | 111.9 | 122.1 | 135.0 | 152.7 | 177.9 | 212.6 | 253.8 |
| 125°   | 106.0 | 107.1 | 109.2 | 113.4 | 120.5 | 130.4 | 143.1 | 159.0 | 180.9 | 210.6 | 247.0 |
| 127.5° | 112.2 | 113.6 | 116.6 | 121.3 | 128.0 | 138.2 | 150.6 | 164.9 | 183.9 | 209.4 | 240.6 |
| 130°   | 115.9 | 117.3 | 120.8 | 125.8 | 132.9 | 142.7 | 155.1 | 168.5 | 186.2 | 208.8 | 236.4 |
| 132.5° | 119.3 | 121.0 | 124.8 | 130.0 | 137.4 | 147.3 | 159.1 | 172.2 | 188.5 | 208.5 | 233.0 |
| 135°   | 124.4 | 125.8 | 130.0 | 135.3 | 143.5 | 153.3 | 164.7 | 177.0 | 191.2 | 208.1 | 228.2 |
| 137.5° | 129.2 | 130.9 | 135.1 | 140.8 | 148.8 | 158.0 | 169.2 | 180.7 | 193.6 | 208.0 | 224.9 |
| 140°   | 132.9 | 134.3 | 138.5 | 144.2 | 151.9 | 161.1 | 171.7 | 182.7 | 194.7 | 207.8 | 222.9 |
| 142.5° | 136.5 | 137.7 | 141.6 | 147.3 | 154.8 | 163.4 | 173.7 | 184.4 | 195.5 | 207.8 | 221.0 |
| 145°   | 142.0 | 143.5 | 147.0 | 152.3 | 159.4 | 167.1 | 176.7 | 186.6 | 196.4 | 207.0 | 218.4 |
| 147.5° | 148.0 | 149.0 | 152.4 | 157.3 | 163.2 | 170.1 | 179.1 | 187.8 | 196.7 | 205.8 | 215.7 |
| 150°   | 151.9 | 153.0 | 155.8 | 160.4 | 165.7 | 172.1 | 180.2 | 188.3 | 196.4 | 204.9 | 213.4 |
| 152.5° | 155.9 | 156.4 | 159.2 | 163.2 | 168.3 | 174.0 | 181.3 | 188.6 | 195.9 | 203.5 | 211.4 |
| 155°   | 161.5 | 161.8 | 163.9 | 167.8 | 171.7 | 177.0 | 183.0 | 189.0 | 195.0 | 201.0 | 207.8 |
| 157.5° | 166.1 | 166.5 | 168.2 | 171.6 | 174.7 | 179.1 | 184.2 | 189.0 | 193.4 | 198.5 | 204.3 |
| 160°   | 169.2 | 169.6 | 171.0 | 173.8 | 176.7 | 180.6 | 184.8 | 189.0 | 192.6 | 196.8 | 201.7 |
| 162.5° | 172.4 | 172.1 | 173.6 | 175.8 | 178.4 | 181.4 | 185.1 | 188.7 | 191.7 | 195.4 | 199.5 |
| 165°   | 176.0 | 175.6 | 176.3 | 178.4 | 180.2 | 182.3 | 185.5 | 188.0 | 190.1 | 192.6 | 195.7 |
| 167.5° | 178.9 | 178.5 | 179.1 | 180.5 | 181.8 | 183.1 | 185.4 | 187.5 | 188.5 | 190.1 | 192.1 |
| 170°   | 180.9 | 180.2 | 180.6 | 181.6 | 182.3 | 183.4 | 185.1 | 186.9 | 187.6 | 188.7 | 190.1 |
| 172.5° | 182.0 | 181.6 | 181.4 | 182.5 | 182.9 | 183.7 | 184.9 | 186.1 | 186.5 | 187.0 | 188.1 |
| 175°   | 183.4 | 183.0 | 182.7 | 183.4 | 183.4 | 183.7 | 184.4 | 185.1 | 184.8 | 185.1 | 185.5 |
| 177.5° | 184.0 | 183.4 | 183.2 | 183.7 | 183.7 | 183.7 | 184.0 | 184.6 | 184.0 | 183.7 | 184.0 |
| 180°   | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 |



TEST NUMBER: P331383

CATALOG NUMBER: SA2XXDIP-C865D330U835-4F0-1E-UDD-F4

**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°  | 15.7   | 14.9   | 14.3   | 13.9   | 13.7   | 13.4   | 13.2   | 12.9   |
| 90°    | 11.3   | 10.6   | 11.3   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   |
| 92.5°  | 30.8   | 26.4   | 23.5   | 21.3   | 21.0   | 19.9   | 20.1   | 19.6   |
| 95°    | 92.6   | 71.0   | 56.2   | 48.4   | 43.8   | 41.0   | 39.9   | 40.3   |
| 97.5°  | 216.0  | 176.7  | 138.5  | 113.0  | 96.1   | 87.4   | 82.3   | 79.3   |
| 100°   | 322.6  | 278.8  | 230.4  | 187.6  | 158.3  | 143.1  | 132.9  | 126.5  |
| 102.5° | 392.4  | 382.5  | 347.1  | 301.8  | 269.9  | 244.0  | 231.2  | 222.6  |
| 105°   | 429.3  | 469.2  | 473.8  | 462.2  | 440.2  | 418.3  | 403.1  | 398.2  |
| 107.5° | 402.7  | 462.9  | 499.6  | 516.7  | 519.5  | 518.3  | 515.2  | 508.7  |
| 110°   | 379.8  | 443.1  | 488.3  | 517.3  | 532.5  | 539.2  | 542.4  | 542.0  |





TEST NUMBER: P331383

CATALOG NUMBER: SA2XXDIP-C865D330U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 358.9 | 419.6 | 467.9 | 501.2 | 522.3 | 533.5 | 539.5 | 541.4 |
| 115°   | 333.2 | 387.6 | 433.9 | 470.3 | 495.4 | 511.6 | 520.8 | 524.0 |
| 117.5° | 313.8 | 361.6 | 403.6 | 437.7 | 463.3 | 480.5 | 490.1 | 492.8 |
| 120°   | 304.2 | 348.0 | 385.5 | 417.6 | 442.4 | 459.0 | 469.2 | 472.8 |
| 122.5° | 296.6 | 336.7 | 372.2 | 401.2 | 423.4 | 439.8 | 448.9 | 451.8 |
| 125°   | 285.5 | 321.9 | 353.0 | 379.5 | 400.0 | 413.4 | 422.2 | 425.1 |
| 127.5° | 274.5 | 307.5 | 336.8 | 361.2 | 379.1 | 391.7 | 399.3 | 401.6 |
| 130°   | 267.5 | 297.9 | 325.8 | 349.1 | 366.4 | 378.4 | 385.5 | 388.3 |
| 132.5° | 260.7 | 288.8 | 314.5 | 336.4 | 353.4 | 365.4 | 371.9 | 374.5 |
| 135°   | 251.2 | 274.5 | 297.9 | 317.6 | 332.8 | 344.5 | 350.9 | 352.3 |
| 137.5° | 243.7 | 263.2 | 281.7 | 298.9 | 312.8 | 322.8 | 328.4 | 330.5 |
| 140°   | 238.8 | 255.8 | 272.1 | 287.6 | 298.9 | 308.1 | 313.4 | 315.5 |
| 142.5° | 234.9 | 249.3 | 263.3 | 276.3 | 287.0 | 295.4 | 300.1 | 300.5 |
| 145°   | 229.3 | 241.0 | 251.9 | 262.2 | 270.6 | 276.7 | 280.2 | 281.2 |
| 147.5° | 225.0 | 234.2 | 242.7 | 250.2 | 257.2 | 262.0 | 264.4 | 265.1 |
| 150°   | 221.9 | 229.7 | 237.1 | 243.4 | 248.7 | 253.0 | 255.1 | 255.5 |
| 152.5° | 218.8 | 226.0 | 232.3 | 237.8 | 242.0 | 245.6 | 247.2 | 247.3 |
| 155°   | 214.5 | 220.1 | 225.4 | 229.3 | 233.2 | 235.7 | 237.1 | 236.4 |
| 157.5° | 209.5 | 214.2 | 218.6 | 221.7 | 224.4 | 226.5 | 227.1 | 227.1 |
| 160°   | 206.3 | 210.2 | 214.1 | 216.6 | 219.1 | 220.8 | 221.2 | 221.2 |
| 162.5° | 203.2 | 206.6 | 209.9 | 211.8 | 214.3 | 215.5 | 215.8 | 215.5 |
| 165°   | 198.6 | 201.0 | 203.5 | 204.9 | 206.3 | 207.8 | 207.8 | 207.4 |
| 167.5° | 194.1 | 196.0 | 197.7 | 199.0 | 199.6 | 200.4 | 200.3 | 199.9 |
| 170°   | 191.9 | 192.9 | 194.3 | 195.0 | 195.4 | 196.4 | 196.1 | 195.4 |
| 172.5° | 189.3 | 190.1 | 191.2 | 191.6 | 192.0 | 192.5 | 192.1 | 191.7 |
| 175°   | 186.6 | 186.9 | 187.3 | 187.6 | 187.6 | 188.0 | 187.6 | 186.9 |
| 177.5° | 184.6 | 184.6 | 184.9 | 184.9 | 184.9 | 184.9 | 184.6 | 184.0 |
| 180°   | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 |

(END OF REPORT)