



**RFS Vertical Radiation Pattern Data for 828-1DA**  
**E / Emax (voltage)**

| Angle | Magnitude |       |        |       |        |       |        |
|-------|-----------|-------|--------|-------|--------|-------|--------|
| -90.0 | 0.0582    | -88.2 | 0.0418 | -86.4 | 0.0229 | -84.6 | 0.0023 |
| -89.9 | 0.0574    | -88.1 | 0.0408 | -86.3 | 0.0218 | -84.5 | 0.0011 |
| -89.8 | 0.0565    | -88.0 | 0.0398 | -86.2 | 0.0207 | -84.4 | 0.0000 |
| -89.7 | 0.0557    | -87.9 | 0.0388 | -86.1 | 0.0196 | -84.3 | 0.0012 |
| -89.6 | 0.0548    | -87.8 | 0.0378 | -86.0 | 0.0185 | -84.2 | 0.0024 |
| -89.5 | 0.0539    | -87.7 | 0.0367 | -85.9 | 0.0173 | -84.1 | 0.0036 |
| -89.4 | 0.0530    | -87.6 | 0.0357 | -85.8 | 0.0162 | -84.0 | 0.0048 |
| -89.3 | 0.0521    | -87.5 | 0.0347 | -85.7 | 0.0151 | -83.9 | 0.0060 |
| -89.2 | 0.0512    | -87.4 | 0.0336 | -85.6 | 0.0139 | -83.8 | 0.0072 |
| -89.1 | 0.0503    | -87.3 | 0.0326 | -85.5 | 0.0128 | -83.7 | 0.0084 |
| -89.0 | 0.0494    | -87.2 | 0.0316 | -85.4 | 0.0116 | -83.6 | 0.0096 |
| -88.9 | 0.0485    | -87.1 | 0.0305 | -85.3 | 0.0105 | -83.5 | 0.0108 |
| -88.8 | 0.0475    | -87.0 | 0.0294 | -85.2 | 0.0093 | -83.4 | 0.0120 |
| -88.7 | 0.0466    | -86.9 | 0.0284 | -85.1 | 0.0082 | -83.3 | 0.0132 |
| -88.6 | 0.0457    | -86.8 | 0.0273 | -85.0 | 0.0070 | -83.2 | 0.0144 |
| -88.5 | 0.0447    | -86.7 | 0.0262 | -84.9 | 0.0058 | -83.1 | 0.0156 |
| -88.4 | 0.0437    | -86.6 | 0.0251 | -84.8 | 0.0047 | -83.0 | 0.0168 |
| -88.3 | 0.0427    | -86.5 | 0.0240 | -84.7 | 0.0035 | -82.9 | 0.0181 |

|       |        |       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|-------|--------|
| -82.8 | 0.0193 | -78.2 | 0.0731 | -73.6 | 0.1137 | -69.0 | 0.1283 |
| -82.7 | 0.0205 | -78.1 | 0.0742 | -73.5 | 0.1143 | -68.9 | 0.1283 |
| -82.6 | 0.0217 | -78.0 | 0.0753 | -73.4 | 0.1149 | -68.8 | 0.1283 |
| -82.5 | 0.0229 | -77.9 | 0.0763 | -73.3 | 0.1155 | -68.7 | 0.1282 |
| -82.4 | 0.0241 | -77.8 | 0.0774 | -73.2 | 0.1161 | -68.6 | 0.1281 |
| -82.3 | 0.0253 | -77.7 | 0.0784 | -73.1 | 0.1167 | -68.5 | 0.1280 |
| -82.2 | 0.0265 | -77.6 | 0.0795 | -73.0 | 0.1173 | -68.4 | 0.1279 |
| -82.1 | 0.0277 | -77.5 | 0.0805 | -72.9 | 0.1178 | -68.3 | 0.1277 |
| -82.0 | 0.0290 | -77.4 | 0.0815 | -72.8 | 0.1184 | -68.2 | 0.1276 |
| -81.9 | 0.0302 | -77.3 | 0.0826 | -72.7 | 0.1189 | -68.1 | 0.1274 |
| -81.8 | 0.0314 | -77.2 | 0.0836 | -72.6 | 0.1194 | -68.0 | 0.1272 |
| -81.7 | 0.0326 | -77.1 | 0.0846 | -72.5 | 0.1199 | -67.9 | 0.1270 |
| -81.6 | 0.0338 | -77.0 | 0.0856 | -72.4 | 0.1204 | -67.8 | 0.1268 |
| -81.5 | 0.0350 | -76.9 | 0.0866 | -72.3 | 0.1209 | -67.7 | 0.1266 |
| -81.4 | 0.0362 | -76.8 | 0.0875 | -72.2 | 0.1214 | -67.6 | 0.1263 |
| -81.3 | 0.0374 | -76.7 | 0.0885 | -72.1 | 0.1218 | -67.5 | 0.1261 |
| -81.2 | 0.0386 | -76.6 | 0.0895 | -72.0 | 0.1222 | -67.4 | 0.1258 |
| -81.1 | 0.0398 | -76.5 | 0.0904 | -71.9 | 0.1227 | -67.3 | 0.1255 |
| -81.0 | 0.0410 | -76.4 | 0.0914 | -71.8 | 0.1231 | -67.2 | 0.1252 |
| -80.9 | 0.0422 | -76.3 | 0.0923 | -71.7 | 0.1235 | -67.1 | 0.1248 |
| -80.8 | 0.0434 | -76.2 | 0.0932 | -71.6 | 0.1238 | -67.0 | 0.1245 |
| -80.7 | 0.0446 | -76.1 | 0.0941 | -71.5 | 0.1242 | -66.9 | 0.1241 |
| -80.6 | 0.0458 | -76.0 | 0.0950 | -71.4 | 0.1245 | -66.8 | 0.1237 |
| -80.5 | 0.0470 | -75.9 | 0.0959 | -71.3 | 0.1249 | -66.7 | 0.1233 |
| -80.4 | 0.0482 | -75.8 | 0.0968 | -71.2 | 0.1252 | -66.6 | 0.1229 |
| -80.3 | 0.0493 | -75.7 | 0.0977 | -71.1 | 0.1255 | -66.5 | 0.1225 |
| -80.2 | 0.0505 | -75.6 | 0.0986 | -71.0 | 0.1258 | -66.4 | 0.1221 |
| -80.1 | 0.0517 | -75.5 | 0.0994 | -70.9 | 0.1261 | -66.3 | 0.1216 |
| -80.0 | 0.0529 | -75.4 | 0.1003 | -70.8 | 0.1263 | -66.2 | 0.1211 |
| -79.9 | 0.0540 | -75.3 | 0.1011 | -70.7 | 0.1266 | -66.1 | 0.1206 |
| -79.8 | 0.0552 | -75.2 | 0.1020 | -70.6 | 0.1268 | -66.0 | 0.1201 |
| -79.7 | 0.0563 | -75.1 | 0.1028 | -70.5 | 0.1270 | -65.9 | 0.1196 |
| -79.6 | 0.0575 | -75.0 | 0.1036 | -70.4 | 0.1272 | -65.8 | 0.1190 |
| -79.5 | 0.0586 | -74.9 | 0.1044 | -70.3 | 0.1274 | -65.7 | 0.1184 |
| -79.4 | 0.0598 | -74.8 | 0.1052 | -70.2 | 0.1276 | -65.6 | 0.1179 |
| -79.3 | 0.0609 | -74.7 | 0.1059 | -70.1 | 0.1277 | -65.5 | 0.1173 |
| -79.2 | 0.0621 | -74.6 | 0.1067 | -70.0 | 0.1278 | -65.4 | 0.1167 |
| -79.1 | 0.0632 | -74.5 | 0.1074 | -69.9 | 0.1280 | -65.3 | 0.1160 |
| -79.0 | 0.0643 | -74.4 | 0.1082 | -69.8 | 0.1281 | -65.2 | 0.1154 |
| -78.9 | 0.0654 | -74.3 | 0.1089 | -69.7 | 0.1282 | -65.1 | 0.1147 |
| -78.8 | 0.0666 | -74.2 | 0.1096 | -69.6 | 0.1282 | -65.0 | 0.1140 |
| -78.7 | 0.0677 | -74.1 | 0.1103 | -69.5 | 0.1283 | -64.9 | 0.1133 |
| -78.6 | 0.0688 | -74.0 | 0.1110 | -69.4 | 0.1283 | -64.8 | 0.1126 |
| -78.5 | 0.0699 | -73.9 | 0.1117 | -69.3 | 0.1284 | -64.7 | 0.1119 |
| -78.4 | 0.0710 | -73.8 | 0.1124 | -69.2 | 0.1284 | -64.6 | 0.1112 |
| -78.3 | 0.0721 | -73.7 | 0.1130 | -69.1 | 0.1284 | -64.5 | 0.1104 |

|       |        |       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|-------|--------|
| -64.4 | 0.1096 | -59.8 | 0.0575 | -55.2 | 0.0193 | -50.6 | 0.1047 |
| -64.3 | 0.1088 | -59.7 | 0.0561 | -55.1 | 0.0212 | -50.5 | 0.1065 |
| -64.2 | 0.1080 | -59.6 | 0.0546 | -55.0 | 0.0230 | -50.4 | 0.1083 |
| -64.1 | 0.1072 | -59.5 | 0.0531 | -54.9 | 0.0248 | -50.3 | 0.1101 |
| -64.0 | 0.1063 | -59.4 | 0.0516 | -54.8 | 0.0267 | -50.2 | 0.1119 |
| -63.9 | 0.1055 | -59.3 | 0.0501 | -54.7 | 0.0285 | -50.1 | 0.1136 |
| -63.8 | 0.1046 | -59.2 | 0.0486 | -54.6 | 0.0304 | -50.0 | 0.1154 |
| -63.7 | 0.1037 | -59.1 | 0.0471 | -54.5 | 0.0322 | -49.9 | 0.1171 |
| -63.6 | 0.1028 | -59.0 | 0.0456 | -54.4 | 0.0341 | -49.8 | 0.1189 |
| -63.5 | 0.1019 | -58.9 | 0.0440 | -54.3 | 0.0360 | -49.7 | 0.1206 |
| -63.4 | 0.1010 | -58.8 | 0.0425 | -54.2 | 0.0378 | -49.6 | 0.1224 |
| -63.3 | 0.1000 | -58.7 | 0.0409 | -54.1 | 0.0397 | -49.5 | 0.1241 |
| -63.2 | 0.0990 | -58.6 | 0.0393 | -54.0 | 0.0416 | -49.4 | 0.1258 |
| -63.1 | 0.0981 | -58.5 | 0.0377 | -53.9 | 0.0434 | -49.3 | 0.1275 |
| -63.0 | 0.0971 | -58.4 | 0.0361 | -53.8 | 0.0453 | -49.2 | 0.1292 |
| -62.9 | 0.0960 | -58.3 | 0.0345 | -53.7 | 0.0472 | -49.1 | 0.1309 |
| -62.8 | 0.0950 | -58.2 | 0.0329 | -53.6 | 0.0491 | -49.0 | 0.1326 |
| -62.7 | 0.0940 | -58.1 | 0.0313 | -53.5 | 0.0509 | -48.9 | 0.1343 |
| -62.6 | 0.0929 | -58.0 | 0.0297 | -53.4 | 0.0528 | -48.8 | 0.1359 |
| -62.5 | 0.0918 | -57.9 | 0.0280 | -53.3 | 0.0547 | -48.7 | 0.1376 |
| -62.4 | 0.0908 | -57.8 | 0.0264 | -53.2 | 0.0566 | -48.6 | 0.1392 |
| -62.3 | 0.0897 | -57.7 | 0.0247 | -53.1 | 0.0584 | -48.5 | 0.1408 |
| -62.2 | 0.0885 | -57.6 | 0.0230 | -53.0 | 0.0603 | -48.4 | 0.1425 |
| -62.1 | 0.0874 | -57.5 | 0.0213 | -52.9 | 0.0622 | -48.3 | 0.1441 |
| -62.0 | 0.0863 | -57.4 | 0.0197 | -52.8 | 0.0641 | -48.2 | 0.1457 |
| -61.9 | 0.0851 | -57.3 | 0.0180 | -52.7 | 0.0659 | -48.1 | 0.1472 |
| -61.8 | 0.0839 | -57.2 | 0.0162 | -52.6 | 0.0678 | -48.0 | 0.1488 |
| -61.7 | 0.0827 | -57.1 | 0.0145 | -52.5 | 0.0697 | -47.9 | 0.1504 |
| -61.6 | 0.0815 | -57.0 | 0.0128 | -52.4 | 0.0716 | -47.8 | 0.1519 |
| -61.5 | 0.0803 | -56.9 | 0.0111 | -52.3 | 0.0734 | -47.7 | 0.1535 |
| -61.4 | 0.0791 | -56.8 | 0.0093 | -52.2 | 0.0753 | -47.6 | 0.1550 |
| -61.3 | 0.0778 | -56.7 | 0.0076 | -52.1 | 0.0772 | -47.5 | 0.1565 |
| -61.2 | 0.0766 | -56.6 | 0.0058 | -52.0 | 0.0790 | -47.4 | 0.1580 |
| -61.1 | 0.0753 | -56.5 | 0.0041 | -51.9 | 0.0809 | -47.3 | 0.1595 |
| -61.0 | 0.0740 | -56.4 | 0.0023 | -51.8 | 0.0827 | -47.2 | 0.1609 |
| -60.9 | 0.0727 | -56.3 | 0.0006 | -51.7 | 0.0846 | -47.1 | 0.1624 |
| -60.8 | 0.0714 | -56.2 | 0.0012 | -51.6 | 0.0864 | -47.0 | 0.1638 |
| -60.7 | 0.0701 | -56.1 | 0.0030 | -51.5 | 0.0883 | -46.9 | 0.1653 |
| -60.6 | 0.0687 | -56.0 | 0.0048 | -51.4 | 0.0901 | -46.8 | 0.1667 |
| -60.5 | 0.0674 | -55.9 | 0.0066 | -51.3 | 0.0920 | -46.7 | 0.1681 |
| -60.4 | 0.0660 | -55.8 | 0.0084 | -51.2 | 0.0938 | -46.6 | 0.1695 |
| -60.3 | 0.0646 | -55.7 | 0.0102 | -51.1 | 0.0956 | -46.5 | 0.1708 |
| -60.2 | 0.0632 | -55.6 | 0.0120 | -51.0 | 0.0975 | -46.4 | 0.1722 |
| -60.1 | 0.0618 | -55.5 | 0.0138 | -50.9 | 0.0993 | -46.3 | 0.1735 |
| -60.0 | 0.0604 | -55.4 | 0.0157 | -50.8 | 0.1011 | -46.2 | 0.1748 |
| -59.9 | 0.0590 | -55.3 | 0.0175 | -50.7 | 0.1029 | -46.1 | 0.1761 |

|       |        |       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|-------|--------|
| -46.0 | 0.1774 | -41.4 | 0.2154 | -36.8 | 0.2004 | -32.2 | 0.1220 |
| -45.9 | 0.1787 | -41.3 | 0.2157 | -36.7 | 0.1994 | -32.1 | 0.1195 |
| -45.8 | 0.1800 | -41.2 | 0.2160 | -36.6 | 0.1984 | -32.0 | 0.1171 |
| -45.7 | 0.1812 | -41.1 | 0.2162 | -36.5 | 0.1973 | -31.9 | 0.1146 |
| -45.6 | 0.1824 | -41.0 | 0.2165 | -36.4 | 0.1962 | -31.8 | 0.1121 |
| -45.5 | 0.1836 | -40.9 | 0.2167 | -36.3 | 0.1950 | -31.7 | 0.1095 |
| -45.4 | 0.1848 | -40.8 | 0.2168 | -36.2 | 0.1939 | -31.6 | 0.1070 |
| -45.3 | 0.1860 | -40.7 | 0.2170 | -36.1 | 0.1927 | -31.5 | 0.1043 |
| -45.2 | 0.1871 | -40.6 | 0.2171 | -36.0 | 0.1915 | -31.4 | 0.1017 |
| -45.1 | 0.1883 | -40.5 | 0.2171 | -35.9 | 0.1902 | -31.3 | 0.0990 |
| -45.0 | 0.1894 | -40.4 | 0.2172 | -35.8 | 0.1889 | -31.2 | 0.0963 |
| -44.9 | 0.1905 | -40.3 | 0.2172 | -35.7 | 0.1876 | -31.1 | 0.0936 |
| -44.8 | 0.1915 | -40.2 | 0.2172 | -35.6 | 0.1862 | -31.0 | 0.0909 |
| -44.7 | 0.1926 | -40.1 | 0.2172 | -35.5 | 0.1849 | -30.9 | 0.0881 |
| -44.6 | 0.1936 | -40.0 | 0.2172 | -35.4 | 0.1835 | -30.8 | 0.0853 |
| -44.5 | 0.1947 | -39.9 | 0.2171 | -35.3 | 0.1820 | -30.7 | 0.0824 |
| -44.4 | 0.1957 | -39.8 | 0.2170 | -35.2 | 0.1805 | -30.6 | 0.0796 |
| -44.3 | 0.1966 | -39.7 | 0.2168 | -35.1 | 0.1790 | -30.5 | 0.0767 |
| -44.2 | 0.1976 | -39.6 | 0.2167 | -35.0 | 0.1775 | -30.4 | 0.0737 |
| -44.1 | 0.1985 | -39.5 | 0.2165 | -34.9 | 0.1759 | -30.3 | 0.0708 |
| -44.0 | 0.1994 | -39.4 | 0.2163 | -34.8 | 0.1743 | -30.2 | 0.0678 |
| -43.9 | 0.2003 | -39.3 | 0.2160 | -34.7 | 0.1727 | -30.1 | 0.0648 |
| -43.8 | 0.2012 | -39.2 | 0.2157 | -34.6 | 0.1710 | -30.0 | 0.0617 |
| -43.7 | 0.2021 | -39.1 | 0.2154 | -34.5 | 0.1694 | -29.9 | 0.0587 |
| -43.6 | 0.2029 | -39.0 | 0.2151 | -34.4 | 0.1676 | -29.8 | 0.0556 |
| -43.5 | 0.2037 | -38.9 | 0.2147 | -34.3 | 0.1659 | -29.7 | 0.0524 |
| -43.4 | 0.2045 | -38.8 | 0.2144 | -34.2 | 0.1641 | -29.6 | 0.0493 |
| -43.3 | 0.2053 | -38.7 | 0.2139 | -34.1 | 0.1623 | -29.5 | 0.0461 |
| -43.2 | 0.2060 | -38.6 | 0.2135 | -34.0 | 0.1604 | -29.4 | 0.0429 |
| -43.1 | 0.2067 | -38.5 | 0.2130 | -33.9 | 0.1586 | -29.3 | 0.0397 |
| -43.0 | 0.2074 | -38.4 | 0.2125 | -33.8 | 0.1567 | -29.2 | 0.0364 |
| -42.9 | 0.2081 | -38.3 | 0.2120 | -33.7 | 0.1547 | -29.1 | 0.0331 |
| -42.8 | 0.2088 | -38.2 | 0.2114 | -33.6 | 0.1528 | -29.0 | 0.0298 |
| -42.7 | 0.2094 | -38.1 | 0.2108 | -33.5 | 0.1508 | -28.9 | 0.0265 |
| -42.6 | 0.2100 | -38.0 | 0.2102 | -33.4 | 0.1487 | -28.8 | 0.0231 |
| -42.5 | 0.2106 | -37.9 | 0.2096 | -33.3 | 0.1467 | -28.7 | 0.0197 |
| -42.4 | 0.2112 | -37.8 | 0.2089 | -33.2 | 0.1446 | -28.6 | 0.0163 |
| -42.3 | 0.2117 | -37.7 | 0.2082 | -33.1 | 0.1424 | -28.5 | 0.0128 |
| -42.2 | 0.2122 | -37.6 | 0.2074 | -33.0 | 0.1403 | -28.4 | 0.0093 |
| -42.1 | 0.2127 | -37.5 | 0.2066 | -32.9 | 0.1381 | -28.3 | 0.0058 |
| -42.0 | 0.2132 | -37.4 | 0.2058 | -32.8 | 0.1359 | -28.2 | 0.0023 |
| -41.9 | 0.2136 | -37.3 | 0.2050 | -32.7 | 0.1336 | -28.1 | 0.0012 |
| -41.8 | 0.2140 | -37.2 | 0.2042 | -32.6 | 0.1314 | -28.0 | 0.0048 |
| -41.7 | 0.2144 | -37.1 | 0.2033 | -32.5 | 0.1291 | -27.9 | 0.0084 |
| -41.6 | 0.2148 | -37.0 | 0.2023 | -32.4 | 0.1267 | -27.8 | 0.0120 |
| -41.5 | 0.2151 | -36.9 | 0.2014 | -32.3 | 0.1244 | -27.7 | 0.0157 |

|       |        |       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|-------|--------|
| -27.6 | 0.0194 | -23.0 | 0.2112 | -18.4 | 0.4309 | -13.8 | 0.6487 |
| -27.5 | 0.0231 | -22.9 | 0.2158 | -18.3 | 0.4357 | -13.7 | 0.6531 |
| -27.4 | 0.0268 | -22.8 | 0.2204 | -18.2 | 0.4406 | -13.6 | 0.6576 |
| -27.3 | 0.0305 | -22.7 | 0.2250 | -18.1 | 0.4455 | -13.5 | 0.6620 |
| -27.2 | 0.0343 | -22.6 | 0.2296 | -18.0 | 0.4503 | -13.4 | 0.6665 |
| -27.1 | 0.0381 | -22.5 | 0.2342 | -17.9 | 0.4552 | -13.3 | 0.6709 |
| -27.0 | 0.0419 | -22.4 | 0.2389 | -17.8 | 0.4600 | -13.2 | 0.6753 |
| -26.9 | 0.0457 | -22.3 | 0.2435 | -17.7 | 0.4649 | -13.1 | 0.6796 |
| -26.8 | 0.0496 | -22.2 | 0.2482 | -17.6 | 0.4698 | -13.0 | 0.6840 |
| -26.7 | 0.0535 | -22.1 | 0.2529 | -17.5 | 0.4746 | -12.9 | 0.6883 |
| -26.6 | 0.0574 | -22.0 | 0.2575 | -17.4 | 0.4795 | -12.8 | 0.6927 |
| -26.5 | 0.0613 | -21.9 | 0.2622 | -17.3 | 0.4843 | -12.7 | 0.6970 |
| -26.4 | 0.0653 | -21.8 | 0.2669 | -17.2 | 0.4891 | -12.6 | 0.7012 |
| -26.3 | 0.0693 | -21.7 | 0.2717 | -17.1 | 0.4940 | -12.5 | 0.7055 |
| -26.2 | 0.0733 | -21.6 | 0.2764 | -17.0 | 0.4988 | -12.4 | 0.7097 |
| -26.1 | 0.0773 | -21.5 | 0.2811 | -16.9 | 0.5036 | -12.3 | 0.7140 |
| -26.0 | 0.0813 | -21.4 | 0.2859 | -16.8 | 0.5084 | -12.2 | 0.7182 |
| -25.9 | 0.0854 | -21.3 | 0.2906 | -16.7 | 0.5133 | -12.1 | 0.7223 |
| -25.8 | 0.0895 | -21.2 | 0.2954 | -16.6 | 0.5181 | -12.0 | 0.7265 |
| -25.7 | 0.0936 | -21.1 | 0.3001 | -16.5 | 0.5229 | -11.9 | 0.7306 |
| -25.6 | 0.0977 | -21.0 | 0.3049 | -16.4 | 0.5276 | -11.8 | 0.7347 |
| -25.5 | 0.1018 | -20.9 | 0.3097 | -16.3 | 0.5324 | -11.7 | 0.7388 |
| -25.4 | 0.1060 | -20.8 | 0.3145 | -16.2 | 0.5372 | -11.6 | 0.7429 |
| -25.3 | 0.1102 | -20.7 | 0.3193 | -16.1 | 0.5420 | -11.5 | 0.7470 |
| -25.2 | 0.1144 | -20.6 | 0.3241 | -16.0 | 0.5467 | -11.4 | 0.7510 |
| -25.1 | 0.1186 | -20.5 | 0.3289 | -15.9 | 0.5515 | -11.3 | 0.7550 |
| -25.0 | 0.1228 | -20.4 | 0.3337 | -15.8 | 0.5562 | -11.2 | 0.7590 |
| -24.9 | 0.1271 | -20.3 | 0.3386 | -15.7 | 0.5610 | -11.1 | 0.7629 |
| -24.8 | 0.1314 | -20.2 | 0.3434 | -15.6 | 0.5657 | -11.0 | 0.7668 |
| -24.7 | 0.1357 | -20.1 | 0.3482 | -15.5 | 0.5704 | -10.9 | 0.7708 |
| -24.6 | 0.1400 | -20.0 | 0.3531 | -15.4 | 0.5751 | -10.8 | 0.7746 |
| -24.5 | 0.1443 | -19.9 | 0.3579 | -15.3 | 0.5798 | -10.7 | 0.7785 |
| -24.4 | 0.1487 | -19.8 | 0.3627 | -15.2 | 0.5845 | -10.6 | 0.7823 |
| -24.3 | 0.1530 | -19.7 | 0.3676 | -15.1 | 0.5891 | -10.5 | 0.7861 |
| -24.2 | 0.1574 | -19.6 | 0.3725 | -15.0 | 0.5938 | -10.4 | 0.7899 |
| -24.1 | 0.1618 | -19.5 | 0.3773 | -14.9 | 0.5984 | -10.3 | 0.7937 |
| -24.0 | 0.1662 | -19.4 | 0.3822 | -14.8 | 0.6031 | -10.2 | 0.7974 |
| -23.9 | 0.1706 | -19.3 | 0.3870 | -14.7 | 0.6077 | -10.1 | 0.8011 |
| -23.8 | 0.1751 | -19.2 | 0.3919 | -14.6 | 0.6123 | -10.0 | 0.8048 |
| -23.7 | 0.1796 | -19.1 | 0.3968 | -14.5 | 0.6169 | -9.9  | 0.8084 |
| -23.6 | 0.1840 | -19.0 | 0.4016 | -14.4 | 0.6215 | -9.8  | 0.8120 |
| -23.5 | 0.1885 | -18.9 | 0.4065 | -14.3 | 0.6260 | -9.7  | 0.8156 |
| -23.4 | 0.1930 | -18.8 | 0.4114 | -14.2 | 0.6306 | -9.6  | 0.8192 |
| -23.3 | 0.1976 | -18.7 | 0.4162 | -14.1 | 0.6351 | -9.5  | 0.8227 |
| -23.2 | 0.2021 | -18.6 | 0.4211 | -14.0 | 0.6397 | -9.4  | 0.8262 |
| -23.1 | 0.2066 | -18.5 | 0.4260 | -13.9 | 0.6442 | -9.3  | 0.8297 |

|      |        |      |        |      |        |     |        |
|------|--------|------|--------|------|--------|-----|--------|
| -9.2 | 0.8332 | -4.6 | 0.9566 | -0.0 | 1.0000 | 4.6 | 0.9566 |
| -9.1 | 0.8366 | -4.5 | 0.9584 | 0.1  | 1.0000 | 4.7 | 0.9547 |
| -9.0 | 0.8400 | -4.4 | 0.9603 | 0.2  | 0.9999 | 4.8 | 0.9528 |
| -8.9 | 0.8433 | -4.3 | 0.9620 | 0.3  | 0.9998 | 4.9 | 0.9508 |
| -8.8 | 0.8467 | -4.2 | 0.9637 | 0.4  | 0.9997 | 5.0 | 0.9489 |
| -8.7 | 0.8500 | -4.1 | 0.9654 | 0.5  | 0.9995 | 5.1 | 0.9468 |
| -8.6 | 0.8532 | -4.0 | 0.9671 | 0.6  | 0.9993 | 5.2 | 0.9447 |
| -8.5 | 0.8565 | -3.9 | 0.9687 | 0.7  | 0.9990 | 5.3 | 0.9426 |
| -8.4 | 0.8597 | -3.8 | 0.9703 | 0.8  | 0.9987 | 5.4 | 0.9405 |
| -8.3 | 0.8629 | -3.7 | 0.9718 | 0.9  | 0.9983 | 5.5 | 0.9383 |
| -8.2 | 0.8660 | -3.6 | 0.9733 | 1.0  | 0.9979 | 5.6 | 0.9361 |
| -8.1 | 0.8691 | -3.5 | 0.9747 | 1.1  | 0.9975 | 5.7 | 0.9338 |
| -8.0 | 0.8722 | -3.4 | 0.9761 | 1.2  | 0.9970 | 5.8 | 0.9315 |
| -7.9 | 0.8753 | -3.3 | 0.9775 | 1.3  | 0.9965 | 5.9 | 0.9292 |
| -7.8 | 0.8783 | -3.2 | 0.9789 | 1.4  | 0.9959 | 6.0 | 0.9268 |
| -7.7 | 0.8813 | -3.1 | 0.9801 | 1.5  | 0.9953 | 6.1 | 0.9244 |
| -7.6 | 0.8842 | -3.0 | 0.9814 | 1.6  | 0.9947 | 6.2 | 0.9220 |
| -7.5 | 0.8871 | -2.9 | 0.9826 | 1.7  | 0.9940 | 6.3 | 0.9195 |
| -7.4 | 0.8900 | -2.8 | 0.9838 | 1.8  | 0.9933 | 6.4 | 0.9170 |
| -7.3 | 0.8929 | -2.7 | 0.9849 | 1.9  | 0.9925 | 6.5 | 0.9145 |
| -7.2 | 0.8957 | -2.6 | 0.9860 | 2.0  | 0.9917 | 6.6 | 0.9119 |
| -7.1 | 0.8985 | -2.5 | 0.9871 | 2.1  | 0.9909 | 6.7 | 0.9093 |
| -7.0 | 0.9012 | -2.4 | 0.9881 | 2.2  | 0.9900 | 6.8 | 0.9066 |
| -6.9 | 0.9040 | -2.3 | 0.9890 | 2.3  | 0.9890 | 6.9 | 0.9040 |
| -6.8 | 0.9066 | -2.2 | 0.9900 | 2.4  | 0.9881 | 7.0 | 0.9012 |
| -6.7 | 0.9093 | -2.1 | 0.9909 | 2.5  | 0.9871 | 7.1 | 0.8985 |
| -6.6 | 0.9119 | -2.0 | 0.9917 | 2.6  | 0.9860 | 7.2 | 0.8957 |
| -6.5 | 0.9145 | -1.9 | 0.9925 | 2.7  | 0.9849 | 7.3 | 0.8929 |
| -6.4 | 0.9170 | -1.8 | 0.9933 | 2.8  | 0.9838 | 7.4 | 0.8900 |
| -6.3 | 0.9195 | -1.7 | 0.9940 | 2.9  | 0.9826 | 7.5 | 0.8871 |
| -6.2 | 0.9220 | -1.6 | 0.9947 | 3.0  | 0.9814 | 7.6 | 0.8842 |
| -6.1 | 0.9244 | -1.5 | 0.9953 | 3.1  | 0.9801 | 7.7 | 0.8813 |
| -6.0 | 0.9268 | -1.4 | 0.9959 | 3.2  | 0.9789 | 7.8 | 0.8783 |
| -5.9 | 0.9292 | -1.3 | 0.9965 | 3.3  | 0.9775 | 7.9 | 0.8753 |
| -5.8 | 0.9315 | -1.2 | 0.9970 | 3.4  | 0.9761 | 8.0 | 0.8722 |
| -5.7 | 0.9338 | -1.1 | 0.9975 | 3.5  | 0.9747 | 8.1 | 0.8691 |
| -5.6 | 0.9361 | -1.0 | 0.9979 | 3.6  | 0.9733 | 8.2 | 0.8660 |
| -5.5 | 0.9383 | -0.9 | 0.9983 | 3.7  | 0.9718 | 8.3 | 0.8629 |
| -5.4 | 0.9405 | -0.8 | 0.9987 | 3.8  | 0.9703 | 8.4 | 0.8597 |
| -5.3 | 0.9426 | -0.7 | 0.9990 | 3.9  | 0.9687 | 8.5 | 0.8565 |
| -5.2 | 0.9447 | -0.6 | 0.9993 | 4.0  | 0.9671 | 8.6 | 0.8532 |
| -5.1 | 0.9468 | -0.5 | 0.9995 | 4.1  | 0.9654 | 8.7 | 0.8500 |
| -5.0 | 0.9489 | -0.4 | 0.9997 | 4.2  | 0.9637 | 8.8 | 0.8467 |
| -4.9 | 0.9508 | -0.3 | 0.9998 | 4.3  | 0.9620 | 8.9 | 0.8433 |
| -4.8 | 0.9528 | -0.2 | 0.9999 | 4.4  | 0.9603 | 9.0 | 0.8400 |
| -4.7 | 0.9547 | -0.1 | 1.0000 | 4.5  | 0.9584 | 9.1 | 0.8366 |

|      |        |      |        |      |        |      |        |
|------|--------|------|--------|------|--------|------|--------|
| 9.2  | 0.8332 | 13.8 | 0.6487 | 18.4 | 0.4309 | 23.0 | 0.2112 |
| 9.3  | 0.8297 | 13.9 | 0.6442 | 18.5 | 0.4260 | 23.1 | 0.2066 |
| 9.4  | 0.8262 | 14.0 | 0.6397 | 18.6 | 0.4211 | 23.2 | 0.2021 |
| 9.5  | 0.8227 | 14.1 | 0.6351 | 18.7 | 0.4162 | 23.3 | 0.1976 |
| 9.6  | 0.8192 | 14.2 | 0.6306 | 18.8 | 0.4114 | 23.4 | 0.1930 |
| 9.7  | 0.8156 | 14.3 | 0.6260 | 18.9 | 0.4065 | 23.5 | 0.1885 |
| 9.8  | 0.8120 | 14.4 | 0.6215 | 19.0 | 0.4016 | 23.6 | 0.1840 |
| 9.9  | 0.8084 | 14.5 | 0.6169 | 19.1 | 0.3968 | 23.7 | 0.1796 |
| 10.0 | 0.8048 | 14.6 | 0.6123 | 19.2 | 0.3919 | 23.8 | 0.1751 |
| 10.1 | 0.8011 | 14.7 | 0.6077 | 19.3 | 0.3870 | 23.9 | 0.1706 |
| 10.2 | 0.7974 | 14.8 | 0.6031 | 19.4 | 0.3822 | 24.0 | 0.1662 |
| 10.3 | 0.7937 | 14.9 | 0.5984 | 19.5 | 0.3773 | 24.1 | 0.1618 |
| 10.4 | 0.7899 | 15.0 | 0.5938 | 19.6 | 0.3725 | 24.2 | 0.1574 |
| 10.5 | 0.7861 | 15.1 | 0.5891 | 19.7 | 0.3676 | 24.3 | 0.1530 |
| 10.6 | 0.7823 | 15.2 | 0.5845 | 19.8 | 0.3627 | 24.4 | 0.1487 |
| 10.7 | 0.7785 | 15.3 | 0.5798 | 19.9 | 0.3579 | 24.5 | 0.1443 |
| 10.8 | 0.7746 | 15.4 | 0.5751 | 20.0 | 0.3531 | 24.6 | 0.1400 |
| 10.9 | 0.7708 | 15.5 | 0.5704 | 20.1 | 0.3482 | 24.7 | 0.1357 |
| 11.0 | 0.7668 | 15.6 | 0.5657 | 20.2 | 0.3434 | 24.8 | 0.1314 |
| 11.1 | 0.7629 | 15.7 | 0.5610 | 20.3 | 0.3386 | 24.9 | 0.1271 |
| 11.2 | 0.7590 | 15.8 | 0.5562 | 20.4 | 0.3337 | 25.0 | 0.1228 |
| 11.3 | 0.7550 | 15.9 | 0.5515 | 20.5 | 0.3289 | 25.1 | 0.1186 |
| 11.4 | 0.7510 | 16.0 | 0.5467 | 20.6 | 0.3241 | 25.2 | 0.1144 |
| 11.5 | 0.7470 | 16.1 | 0.5420 | 20.7 | 0.3193 | 25.3 | 0.1102 |
| 11.6 | 0.7429 | 16.2 | 0.5372 | 20.8 | 0.3145 | 25.4 | 0.1060 |
| 11.7 | 0.7388 | 16.3 | 0.5324 | 20.9 | 0.3097 | 25.5 | 0.1018 |
| 11.8 | 0.7347 | 16.4 | 0.5276 | 21.0 | 0.3049 | 25.6 | 0.0977 |
| 11.9 | 0.7306 | 16.5 | 0.5229 | 21.1 | 0.3001 | 25.7 | 0.0936 |
| 12.0 | 0.7265 | 16.6 | 0.5181 | 21.2 | 0.2954 | 25.8 | 0.0895 |
| 12.1 | 0.7223 | 16.7 | 0.5133 | 21.3 | 0.2906 | 25.9 | 0.0854 |
| 12.2 | 0.7182 | 16.8 | 0.5084 | 21.4 | 0.2859 | 26.0 | 0.0813 |
| 12.3 | 0.7140 | 16.9 | 0.5036 | 21.5 | 0.2811 | 26.1 | 0.0773 |
| 12.4 | 0.7097 | 17.0 | 0.4988 | 21.6 | 0.2764 | 26.2 | 0.0733 |
| 12.5 | 0.7055 | 17.1 | 0.4940 | 21.7 | 0.2717 | 26.3 | 0.0693 |
| 12.6 | 0.7012 | 17.2 | 0.4891 | 21.8 | 0.2669 | 26.4 | 0.0653 |
| 12.7 | 0.6970 | 17.3 | 0.4843 | 21.9 | 0.2622 | 26.5 | 0.0613 |
| 12.8 | 0.6927 | 17.4 | 0.4795 | 22.0 | 0.2575 | 26.6 | 0.0574 |
| 12.9 | 0.6883 | 17.5 | 0.4746 | 22.1 | 0.2529 | 26.7 | 0.0535 |
| 13.0 | 0.6840 | 17.6 | 0.4698 | 22.2 | 0.2482 | 26.8 | 0.0496 |
| 13.1 | 0.6796 | 17.7 | 0.4649 | 22.3 | 0.2435 | 26.9 | 0.0457 |
| 13.2 | 0.6753 | 17.8 | 0.4600 | 22.4 | 0.2389 | 27.0 | 0.0419 |
| 13.3 | 0.6709 | 17.9 | 0.4552 | 22.5 | 0.2342 | 27.1 | 0.0381 |
| 13.4 | 0.6665 | 18.0 | 0.4503 | 22.6 | 0.2296 | 27.2 | 0.0343 |
| 13.5 | 0.6620 | 18.1 | 0.4455 | 22.7 | 0.2250 | 27.3 | 0.0305 |
| 13.6 | 0.6576 | 18.2 | 0.4406 | 22.8 | 0.2204 | 27.4 | 0.0268 |
| 13.7 | 0.6531 | 18.3 | 0.4357 | 22.9 | 0.2158 | 27.5 | 0.0231 |

|      |        |      |        |      |        |      |        |
|------|--------|------|--------|------|--------|------|--------|
| 27.6 | 0.0194 | 32.2 | 0.1220 | 36.8 | 0.2004 | 41.4 | 0.2154 |
| 27.7 | 0.0157 | 32.3 | 0.1244 | 36.9 | 0.2014 | 41.5 | 0.2151 |
| 27.8 | 0.0120 | 32.4 | 0.1267 | 37.0 | 0.2023 | 41.6 | 0.2148 |
| 27.9 | 0.0084 | 32.5 | 0.1291 | 37.1 | 0.2033 | 41.7 | 0.2144 |
| 28.0 | 0.0048 | 32.6 | 0.1314 | 37.2 | 0.2042 | 41.8 | 0.2140 |
| 28.1 | 0.0012 | 32.7 | 0.1336 | 37.3 | 0.2050 | 41.9 | 0.2136 |
| 28.2 | 0.0023 | 32.8 | 0.1359 | 37.4 | 0.2058 | 42.0 | 0.2132 |
| 28.3 | 0.0058 | 32.9 | 0.1381 | 37.5 | 0.2066 | 42.1 | 0.2127 |
| 28.4 | 0.0093 | 33.0 | 0.1403 | 37.6 | 0.2074 | 42.2 | 0.2122 |
| 28.5 | 0.0128 | 33.1 | 0.1424 | 37.7 | 0.2082 | 42.3 | 0.2117 |
| 28.6 | 0.0163 | 33.2 | 0.1446 | 37.8 | 0.2089 | 42.4 | 0.2112 |
| 28.7 | 0.0197 | 33.3 | 0.1467 | 37.9 | 0.2096 | 42.5 | 0.2106 |
| 28.8 | 0.0231 | 33.4 | 0.1487 | 38.0 | 0.2102 | 42.6 | 0.2100 |
| 28.9 | 0.0265 | 33.5 | 0.1508 | 38.1 | 0.2108 | 42.7 | 0.2094 |
| 29.0 | 0.0298 | 33.6 | 0.1528 | 38.2 | 0.2114 | 42.8 | 0.2088 |
| 29.1 | 0.0331 | 33.7 | 0.1547 | 38.3 | 0.2120 | 42.9 | 0.2081 |
| 29.2 | 0.0364 | 33.8 | 0.1567 | 38.4 | 0.2125 | 43.0 | 0.2074 |
| 29.3 | 0.0397 | 33.9 | 0.1586 | 38.5 | 0.2130 | 43.1 | 0.2067 |
| 29.4 | 0.0429 | 34.0 | 0.1604 | 38.6 | 0.2135 | 43.2 | 0.2060 |
| 29.5 | 0.0461 | 34.1 | 0.1623 | 38.7 | 0.2139 | 43.3 | 0.2053 |
| 29.6 | 0.0493 | 34.2 | 0.1641 | 38.8 | 0.2144 | 43.4 | 0.2045 |
| 29.7 | 0.0524 | 34.3 | 0.1659 | 38.9 | 0.2147 | 43.5 | 0.2037 |
| 29.8 | 0.0556 | 34.4 | 0.1676 | 39.0 | 0.2151 | 43.6 | 0.2029 |
| 29.9 | 0.0587 | 34.5 | 0.1694 | 39.1 | 0.2154 | 43.7 | 0.2021 |
| 30.0 | 0.0617 | 34.6 | 0.1710 | 39.2 | 0.2157 | 43.8 | 0.2012 |
| 30.1 | 0.0648 | 34.7 | 0.1727 | 39.3 | 0.2160 | 43.9 | 0.2003 |
| 30.2 | 0.0678 | 34.8 | 0.1743 | 39.4 | 0.2163 | 44.0 | 0.1994 |
| 30.3 | 0.0708 | 34.9 | 0.1759 | 39.5 | 0.2165 | 44.1 | 0.1985 |
| 30.4 | 0.0737 | 35.0 | 0.1775 | 39.6 | 0.2167 | 44.2 | 0.1976 |
| 30.5 | 0.0767 | 35.1 | 0.1790 | 39.7 | 0.2168 | 44.3 | 0.1966 |
| 30.6 | 0.0796 | 35.2 | 0.1805 | 39.8 | 0.2170 | 44.4 | 0.1957 |
| 30.7 | 0.0824 | 35.3 | 0.1820 | 39.9 | 0.2171 | 44.5 | 0.1947 |
| 30.8 | 0.0853 | 35.4 | 0.1835 | 40.0 | 0.2172 | 44.6 | 0.1936 |
| 30.9 | 0.0881 | 35.5 | 0.1849 | 40.1 | 0.2172 | 44.7 | 0.1926 |
| 31.0 | 0.0909 | 35.6 | 0.1862 | 40.2 | 0.2172 | 44.8 | 0.1915 |
| 31.1 | 0.0936 | 35.7 | 0.1876 | 40.3 | 0.2172 | 44.9 | 0.1905 |
| 31.2 | 0.0963 | 35.8 | 0.1889 | 40.4 | 0.2172 | 45.0 | 0.1894 |
| 31.3 | 0.0990 | 35.9 | 0.1902 | 40.5 | 0.2171 | 45.1 | 0.1883 |
| 31.4 | 0.1017 | 36.0 | 0.1915 | 40.6 | 0.2171 | 45.2 | 0.1871 |
| 31.5 | 0.1043 | 36.1 | 0.1927 | 40.7 | 0.2170 | 45.3 | 0.1860 |
| 31.6 | 0.1070 | 36.2 | 0.1939 | 40.8 | 0.2168 | 45.4 | 0.1848 |
| 31.7 | 0.1095 | 36.3 | 0.1950 | 40.9 | 0.2167 | 45.5 | 0.1836 |
| 31.8 | 0.1121 | 36.4 | 0.1962 | 41.0 | 0.2165 | 45.6 | 0.1824 |
| 31.9 | 0.1146 | 36.5 | 0.1973 | 41.1 | 0.2162 | 45.7 | 0.1812 |
| 32.0 | 0.1171 | 36.6 | 0.1984 | 41.2 | 0.2160 | 45.8 | 0.1800 |
| 32.1 | 0.1195 | 36.7 | 0.1994 | 41.3 | 0.2157 | 45.9 | 0.1787 |



|      |        |      |        |      |        |      |        |
|------|--------|------|--------|------|--------|------|--------|
| 46.0 | 0.1774 | 50.6 | 0.1047 | 55.2 | 0.0193 | 59.8 | 0.0575 |
| 46.1 | 0.1761 | 50.7 | 0.1029 | 55.3 | 0.0175 | 59.9 | 0.0590 |
| 46.2 | 0.1748 | 50.8 | 0.1011 | 55.4 | 0.0157 | 60.0 | 0.0604 |
| 46.3 | 0.1735 | 50.9 | 0.0993 | 55.5 | 0.0138 | 60.1 | 0.0618 |
| 46.4 | 0.1722 | 51.0 | 0.0975 | 55.6 | 0.0120 | 60.2 | 0.0632 |
| 46.5 | 0.1708 | 51.1 | 0.0956 | 55.7 | 0.0102 | 60.3 | 0.0646 |
| 46.6 | 0.1695 | 51.2 | 0.0938 | 55.8 | 0.0084 | 60.4 | 0.0660 |
| 46.7 | 0.1681 | 51.3 | 0.0920 | 55.9 | 0.0066 | 60.5 | 0.0674 |
| 46.8 | 0.1667 | 51.4 | 0.0901 | 56.0 | 0.0048 | 60.6 | 0.0687 |
| 46.9 | 0.1653 | 51.5 | 0.0883 | 56.1 | 0.0030 | 60.7 | 0.0701 |
| 47.0 | 0.1638 | 51.6 | 0.0864 | 56.2 | 0.0012 | 60.8 | 0.0714 |
| 47.1 | 0.1624 | 51.7 | 0.0846 | 56.3 | 0.0006 | 60.9 | 0.0727 |
| 47.2 | 0.1609 | 51.8 | 0.0827 | 56.4 | 0.0023 | 61.0 | 0.0740 |
| 47.3 | 0.1595 | 51.9 | 0.0809 | 56.5 | 0.0041 | 61.1 | 0.0753 |
| 47.4 | 0.1580 | 52.0 | 0.0790 | 56.6 | 0.0058 | 61.2 | 0.0766 |
| 47.5 | 0.1565 | 52.1 | 0.0772 | 56.7 | 0.0076 | 61.3 | 0.0778 |
| 47.6 | 0.1550 | 52.2 | 0.0753 | 56.8 | 0.0093 | 61.4 | 0.0791 |
| 47.7 | 0.1535 | 52.3 | 0.0734 | 56.9 | 0.0111 | 61.5 | 0.0803 |
| 47.8 | 0.1519 | 52.4 | 0.0716 | 57.0 | 0.0128 | 61.6 | 0.0815 |
| 47.9 | 0.1504 | 52.5 | 0.0697 | 57.1 | 0.0145 | 61.7 | 0.0827 |
| 48.0 | 0.1488 | 52.6 | 0.0678 | 57.2 | 0.0162 | 61.8 | 0.0839 |
| 48.1 | 0.1472 | 52.7 | 0.0659 | 57.3 | 0.0180 | 61.9 | 0.0851 |
| 48.2 | 0.1457 | 52.8 | 0.0641 | 57.4 | 0.0197 | 62.0 | 0.0863 |
| 48.3 | 0.1441 | 52.9 | 0.0622 | 57.5 | 0.0213 | 62.1 | 0.0874 |
| 48.4 | 0.1425 | 53.0 | 0.0603 | 57.6 | 0.0230 | 62.2 | 0.0885 |
| 48.5 | 0.1408 | 53.1 | 0.0584 | 57.7 | 0.0247 | 62.3 | 0.0897 |
| 48.6 | 0.1392 | 53.2 | 0.0566 | 57.8 | 0.0264 | 62.4 | 0.0908 |
| 48.7 | 0.1376 | 53.3 | 0.0547 | 57.9 | 0.0280 | 62.5 | 0.0918 |
| 48.8 | 0.1359 | 53.4 | 0.0528 | 58.0 | 0.0297 | 62.6 | 0.0929 |
| 48.9 | 0.1343 | 53.5 | 0.0509 | 58.1 | 0.0313 | 62.7 | 0.0940 |
| 49.0 | 0.1326 | 53.6 | 0.0491 | 58.2 | 0.0329 | 62.8 | 0.0950 |
| 49.1 | 0.1309 | 53.7 | 0.0472 | 58.3 | 0.0345 | 62.9 | 0.0960 |
| 49.2 | 0.1292 | 53.8 | 0.0453 | 58.4 | 0.0361 | 63.0 | 0.0971 |
| 49.3 | 0.1275 | 53.9 | 0.0434 | 58.5 | 0.0377 | 63.1 | 0.0981 |
| 49.4 | 0.1258 | 54.0 | 0.0416 | 58.6 | 0.0393 | 63.2 | 0.0990 |
| 49.5 | 0.1241 | 54.1 | 0.0397 | 58.7 | 0.0409 | 63.3 | 0.1000 |
| 49.6 | 0.1224 | 54.2 | 0.0378 | 58.8 | 0.0425 | 63.4 | 0.1010 |
| 49.7 | 0.1206 | 54.3 | 0.0360 | 58.9 | 0.0440 | 63.5 | 0.1019 |
| 49.8 | 0.1189 | 54.4 | 0.0341 | 59.0 | 0.0456 | 63.6 | 0.1028 |
| 49.9 | 0.1171 | 54.5 | 0.0322 | 59.1 | 0.0471 | 63.7 | 0.1037 |
| 50.0 | 0.1154 | 54.6 | 0.0304 | 59.2 | 0.0486 | 63.8 | 0.1046 |
| 50.1 | 0.1136 | 54.7 | 0.0285 | 59.3 | 0.0501 | 63.9 | 0.1055 |
| 50.2 | 0.1119 | 54.8 | 0.0267 | 59.4 | 0.0516 | 64.0 | 0.1063 |
| 50.3 | 0.1101 | 54.9 | 0.0248 | 59.5 | 0.0531 | 64.1 | 0.1072 |
| 50.4 | 0.1083 | 55.0 | 0.0230 | 59.6 | 0.0546 | 64.2 | 0.1080 |
| 50.5 | 0.1065 | 55.1 | 0.0212 | 59.7 | 0.0561 | 64.3 | 0.1088 |

|      |        |      |        |      |        |      |        |
|------|--------|------|--------|------|--------|------|--------|
| 64.4 | 0.1096 | 69.0 | 0.1283 | 73.6 | 0.1137 | 78.2 | 0.0731 |
| 64.5 | 0.1104 | 69.1 | 0.1284 | 73.7 | 0.1130 | 78.3 | 0.0721 |
| 64.6 | 0.1112 | 69.2 | 0.1284 | 73.8 | 0.1124 | 78.4 | 0.0710 |
| 64.7 | 0.1119 | 69.3 | 0.1284 | 73.9 | 0.1117 | 78.5 | 0.0699 |
| 64.8 | 0.1126 | 69.4 | 0.1283 | 74.0 | 0.1110 | 78.6 | 0.0688 |
| 64.9 | 0.1133 | 69.5 | 0.1283 | 74.1 | 0.1103 | 78.7 | 0.0677 |
| 65.0 | 0.1140 | 69.6 | 0.1282 | 74.2 | 0.1096 | 78.8 | 0.0666 |
| 65.1 | 0.1147 | 69.7 | 0.1282 | 74.3 | 0.1089 | 78.9 | 0.0654 |
| 65.2 | 0.1154 | 69.8 | 0.1281 | 74.4 | 0.1082 | 79.0 | 0.0643 |
| 65.3 | 0.1160 | 69.9 | 0.1280 | 74.5 | 0.1074 | 79.1 | 0.0632 |
| 65.4 | 0.1167 | 70.0 | 0.1278 | 74.6 | 0.1067 | 79.2 | 0.0621 |
| 65.5 | 0.1173 | 70.1 | 0.1277 | 74.7 | 0.1059 | 79.3 | 0.0609 |
| 65.6 | 0.1179 | 70.2 | 0.1276 | 74.8 | 0.1052 | 79.4 | 0.0598 |
| 65.7 | 0.1184 | 70.3 | 0.1274 | 74.9 | 0.1044 | 79.5 | 0.0586 |
| 65.8 | 0.1190 | 70.4 | 0.1272 | 75.0 | 0.1036 | 79.6 | 0.0575 |
| 65.9 | 0.1196 | 70.5 | 0.1270 | 75.1 | 0.1028 | 79.7 | 0.0563 |
| 66.0 | 0.1201 | 70.6 | 0.1268 | 75.2 | 0.1020 | 79.8 | 0.0552 |
| 66.1 | 0.1206 | 70.7 | 0.1266 | 75.3 | 0.1011 | 79.9 | 0.0540 |
| 66.2 | 0.1211 | 70.8 | 0.1263 | 75.4 | 0.1003 | 80.0 | 0.0529 |
| 66.3 | 0.1216 | 70.9 | 0.1261 | 75.5 | 0.0994 | 80.1 | 0.0517 |
| 66.4 | 0.1221 | 71.0 | 0.1258 | 75.6 | 0.0986 | 80.2 | 0.0505 |
| 66.5 | 0.1225 | 71.1 | 0.1255 | 75.7 | 0.0977 | 80.3 | 0.0493 |
| 66.6 | 0.1229 | 71.2 | 0.1252 | 75.8 | 0.0968 | 80.4 | 0.0482 |
| 66.7 | 0.1233 | 71.3 | 0.1249 | 75.9 | 0.0959 | 80.5 | 0.0470 |
| 66.8 | 0.1237 | 71.4 | 0.1245 | 76.0 | 0.0950 | 80.6 | 0.0458 |
| 66.9 | 0.1241 | 71.5 | 0.1242 | 76.1 | 0.0941 | 80.7 | 0.0446 |
| 67.0 | 0.1245 | 71.6 | 0.1238 | 76.2 | 0.0932 | 80.8 | 0.0434 |
| 67.1 | 0.1248 | 71.7 | 0.1235 | 76.3 | 0.0923 | 80.9 | 0.0422 |
| 67.2 | 0.1252 | 71.8 | 0.1231 | 76.4 | 0.0914 | 81.0 | 0.0410 |
| 67.3 | 0.1255 | 71.9 | 0.1227 | 76.5 | 0.0904 | 81.1 | 0.0398 |
| 67.4 | 0.1258 | 72.0 | 0.1222 | 76.6 | 0.0895 | 81.2 | 0.0386 |
| 67.5 | 0.1261 | 72.1 | 0.1218 | 76.7 | 0.0885 | 81.3 | 0.0374 |
| 67.6 | 0.1263 | 72.2 | 0.1214 | 76.8 | 0.0875 | 81.4 | 0.0362 |
| 67.7 | 0.1266 | 72.3 | 0.1209 | 76.9 | 0.0866 | 81.5 | 0.0350 |
| 67.8 | 0.1268 | 72.4 | 0.1204 | 77.0 | 0.0856 | 81.6 | 0.0338 |
| 67.9 | 0.1270 | 72.5 | 0.1199 | 77.1 | 0.0846 | 81.7 | 0.0326 |
| 68.0 | 0.1272 | 72.6 | 0.1194 | 77.2 | 0.0836 | 81.8 | 0.0314 |
| 68.1 | 0.1274 | 72.7 | 0.1189 | 77.3 | 0.0826 | 81.9 | 0.0302 |
| 68.2 | 0.1276 | 72.8 | 0.1184 | 77.4 | 0.0815 | 82.0 | 0.0290 |
| 68.3 | 0.1277 | 72.9 | 0.1178 | 77.5 | 0.0805 | 82.1 | 0.0277 |
| 68.4 | 0.1279 | 73.0 | 0.1173 | 77.6 | 0.0795 | 82.2 | 0.0265 |
| 68.5 | 0.1280 | 73.1 | 0.1167 | 77.7 | 0.0784 | 82.3 | 0.0253 |
| 68.6 | 0.1281 | 73.2 | 0.1161 | 77.8 | 0.0774 | 82.4 | 0.0241 |
| 68.7 | 0.1282 | 73.3 | 0.1155 | 77.9 | 0.0763 | 82.5 | 0.0229 |
| 68.8 | 0.1283 | 73.4 | 0.1149 | 78.0 | 0.0753 | 82.6 | 0.0217 |
| 68.9 | 0.1283 | 73.5 | 0.1143 | 78.1 | 0.0742 | 82.7 | 0.0205 |

|      |        |      |        |
|------|--------|------|--------|
| 82.8 | 0.0193 | 87.4 | 0.0336 |
| 82.9 | 0.0181 | 87.5 | 0.0347 |
| 83.0 | 0.0168 | 87.6 | 0.0357 |
| 83.1 | 0.0156 | 87.7 | 0.0367 |
| 83.2 | 0.0144 | 87.8 | 0.0378 |
| 83.3 | 0.0132 | 87.9 | 0.0388 |
| 83.4 | 0.0120 | 88.0 | 0.0398 |
| 83.5 | 0.0108 | 88.1 | 0.0408 |
| 83.6 | 0.0096 | 88.2 | 0.0418 |
| 83.7 | 0.0084 | 88.3 | 0.0427 |
| 83.8 | 0.0072 | 88.4 | 0.0437 |
| 83.9 | 0.0060 | 88.5 | 0.0447 |
| 84.0 | 0.0048 | 88.6 | 0.0457 |
| 84.1 | 0.0036 | 88.7 | 0.0466 |
| 84.2 | 0.0024 | 88.8 | 0.0475 |
| 84.3 | 0.0012 | 88.9 | 0.0485 |
| 84.4 | 0.0000 | 89.0 | 0.0494 |
| 84.5 | 0.0011 | 89.1 | 0.0503 |
| 84.6 | 0.0023 | 89.2 | 0.0512 |
| 84.7 | 0.0035 | 89.3 | 0.0521 |
| 84.8 | 0.0047 | 89.4 | 0.0530 |
| 84.9 | 0.0058 | 89.5 | 0.0539 |
| 85.0 | 0.0070 | 89.6 | 0.0548 |
| 85.1 | 0.0082 | 89.7 | 0.0557 |
| 85.2 | 0.0093 | 89.8 | 0.0565 |
| 85.3 | 0.0105 | 89.9 | 0.0574 |
| 85.4 | 0.0116 | 90.0 | 0.0582 |
| 85.5 | 0.0128 |      |        |
| 85.6 | 0.0139 |      |        |
| 85.7 | 0.0151 |      |        |
| 85.8 | 0.0162 |      |        |
| 85.9 | 0.0173 |      |        |
| 86.0 | 0.0185 |      |        |
| 86.1 | 0.0196 |      |        |
| 86.2 | 0.0207 |      |        |
| 86.3 | 0.0218 |      |        |
| 86.4 | 0.0229 |      |        |
| 86.5 | 0.0240 |      |        |
| 86.6 | 0.0251 |      |        |
| 86.7 | 0.0262 |      |        |
| 86.8 | 0.0273 |      |        |
| 86.9 | 0.0284 |      |        |
| 87.0 | 0.0294 |      |        |
| 87.1 | 0.0305 |      |        |
| 87.2 | 0.0316 |      |        |
| 87.3 | 0.0326 |      |        |