

|                     | Liquid Phase      | Vapor Phase       | Liquid Phase                    | Vapor Phase                     | Liquid Phase        | Vapor Phase         | Liquid Phase         | Vapor Phase          |
|---------------------|-------------------|-------------------|---------------------------------|---------------------------------|---------------------|---------------------|----------------------|----------------------|
| Temperature<br>(°C) | Pressure<br>(bar) | Pressure<br>(bar) | Density<br>(kg/m <sup>3</sup> ) | Density<br>(kg/m <sup>3</sup> ) | Enthalpy<br>(kJ/kg) | Enthalpy<br>(kJ/kg) | Entropy<br>(kJ/kg-K) | Entropy<br>(kJ/kg-K) |
| -100                | 0.025271          | 0.012252          | 1570.1                          | 0.076834                        | 70.383              | 338.93              | 0.41304              | 2.0021               |
| -99                 | 0.027704          | 0.013587          | 1567.1                          | 0.084729                        | 71.655              | 339.52              | 0.42036              | 1.996                |
| -98                 | 0.030334          | 0.015045          | 1564.1                          | 0.093302                        | 72.926              | 340.11              | 0.42764              | 1.99                 |
| -97                 | 0.033173          | 0.016637          | 1561.1                          | 0.1026                          | 74.195              | 340.7               | 0.43486              | 1.9841               |
| -96                 | 0.036235          | 0.01837           | 1558.1                          | 0.11267                         | 75.462              | 341.29              | 0.44203              | 1.9783               |
| -95                 | 0.039534          | 0.020257          | 1555.1                          | 0.12357                         | 76.728              | 341.88              | 0.44916              | 1.9727               |
| -94                 | 0.043084          | 0.022307          | 1552.1                          | 0.13534                         | 77.993              | 342.48              | 0.45624              | 1.9671               |
| -93                 | 0.046901          | 0.024532          | 1549.1                          | 0.14804                         | 79.257              | 343.07              | 0.46327              | 1.9617               |
| -92                 | 0.050999          | 0.026944          | 1546.2                          | 0.16174                         | 80.52               | 343.66              | 0.47026              | 1.9563               |
| -91                 | 0.055395          | 0.029555          | 1543.2                          | 0.17648                         | 81.782              | 344.26              | 0.47721              | 1.9511               |
| -90                 | 0.060107          | 0.032379          | 1540.2                          | 0.19233                         | 83.043              | 344.86              | 0.48411              | 1.946                |
| -89                 | 0.065152          | 0.03543           | 1537.2                          | 0.20936                         | 84.304              | 345.45              | 0.49097              | 1.941                |
| -88                 | 0.070548          | 0.038721          | 1534.2                          | 0.22763                         | 85.563              | 346.05              | 0.49779              | 1.936                |
| -87                 | 0.076314          | 0.042267          | 1531.2                          | 0.24721                         | 86.823              | 346.65              | 0.50458              | 1.9312               |
| -86                 | 0.08247           | 0.046086          | 1528.2                          | 0.26818                         | 88.081              | 347.25              | 0.51132              | 1.9265               |
| -85                 | 0.089037          | 0.050192          | 1525.3                          | 0.29061                         | 89.34               | 347.85              | 0.51802              | 1.9218               |
| -84                 | 0.096035          | 0.054603          | 1522.3                          | 0.31458                         | 90.598              | 348.45              | 0.52469              | 1.9173               |
| -83                 | 0.10349           | 0.059336          | 1519.3                          | 0.34016                         | 91.855              | 349.05              | 0.53132              | 1.9128               |
| -82                 | 0.11141           | 0.064411          | 1516.3                          | 0.36745                         | 93.113              | 349.65              | 0.53791              | 1.9085               |
| -81                 | 0.11984           | 0.069845          | 1513.3                          | 0.39652                         | 94.37               | 350.25              | 0.54447              | 1.9042               |
| -80                 | 0.12879           | 0.07566           | 1510.3                          | 0.42747                         | 95.628              | 350.86              | 0.55099              | 1.9                  |
| -79                 | 0.13829           | 0.081875          | 1507.3                          | 0.46039                         | 96.885              | 351.46              | 0.55748              | 1.8958               |
| -78                 | 0.14836           | 0.088512          | 1504.3                          | 0.49536                         | 98.142              | 352.06              | 0.56394              | 1.8918               |
| -77                 | 0.15903           | 0.095593          | 1501.4                          | 0.53249                         | 99.4                | 352.66              | 0.57036              | 1.8878               |
| -76                 | 0.17032           | 0.10314           | 1498.4                          | 0.57187                         | 100.66              | 353.27              | 0.57675              | 1.884                |
| -75                 | 0.18227           | 0.11118           | 1495.4                          | 0.61362                         | 101.92              | 353.87              | 0.58311              | 1.8801               |
| -74                 | 0.1949            | 0.11973           | 1492.4                          | 0.65783                         | 103.17              | 354.47              | 0.58944              | 1.8764               |
| -73                 | 0.20825           | 0.12883           | 1489.4                          | 0.70461                         | 104.43              | 355.08              | 0.59574              | 1.8727               |
| -72                 | 0.22234           | 0.13849           | 1486.3                          | 0.75407                         | 105.69              | 355.68              | 0.60201              | 1.8691               |
| -71                 | 0.2372            | 0.14874           | 1483.3                          | 0.80632                         | 106.95              | 356.28              | 0.60825              | 1.8656               |
| -70                 | 0.25286           | 0.15961           | 1480.3                          | 0.86149                         | 108.21              | 356.89              | 0.61446              | 1.8622               |
| -69                 | 0.26936           | 0.17114           | 1477.3                          | 0.91969                         | 109.47              | 357.49              | 0.62064              | 1.8588               |
| -68                 | 0.28673           | 0.18334           | 1474.3                          | 0.98105                         | 110.73              | 358.1               | 0.6268               | 1.8554               |
| -67                 | 0.305             | 0.19624           | 1471.3                          | 1.0457                          | 111.99              | 358.7               | 0.63293              | 1.8522               |
| -66                 | 0.32421           | 0.20989           | 1468.2                          | 1.1137                          | 113.26              | 359.3               | 0.63903              | 1.849                |
| -65                 | 0.3444            | 0.22431           | 1465.2                          | 1.1853                          | 114.52              | 359.9               | 0.64511              | 1.8458               |
| -64                 | 0.36559           | 0.23953           | 1462.2                          | 1.2606                          | 115.78              | 360.51              | 0.65115              | 1.8428               |
| -63                 | 0.38783           | 0.25559           | 1459.1                          | 1.3396                          | 117.05              | 361.11              | 0.65718              | 1.8397               |
| -62                 | 0.41116           | 0.27252           | 1456.1                          | 1.4226                          | 118.31              | 361.71              | 0.66318              | 1.8368               |
| -61                 | 0.43561           | 0.29036           | 1453                            | 1.5098                          | 119.58              | 362.31              | 0.66915              | 1.8339               |
| -60                 | 0.46122           | 0.30913           | 1450                            | 1.6011                          | 120.84              | 362.91              | 0.6751               | 1.831                |
| -59                 | 0.48803           | 0.32889           | 1446.9                          | 1.6968                          | 122.11              | 363.51              | 0.68103              | 1.8282               |
| -58                 | 0.51608           | 0.34966           | 1443.8                          | 1.7971                          | 123.38              | 364.11              | 0.68693              | 1.8254               |
| -57                 | 0.54541           | 0.37148           | 1440.7                          | 1.9021                          | 124.65              | 364.71              | 0.69281              | 1.8228               |
| -56                 | 0.57608           | 0.3944            | 1437.7                          | 2.0119                          | 125.92              | 365.3               | 0.69867              | 1.8201               |
| -55                 | 0.60811           | 0.41845           | 1434.6                          | 2.1268                          | 127.2               | 365.9               | 0.70451              | 1.8175               |
| -54                 | 0.64155           | 0.44367           | 1431.5                          | 2.2468                          | 128.47              | 366.5               | 0.71032              | 1.815                |
| -53                 | 0.67645           | 0.47011           | 1428.4                          | 2.3722                          | 129.74              | 367.09              | 0.71611              | 1.8125               |
| -52                 | 0.71285           | 0.49781           | 1425.3                          | 2.5031                          | 131.02              | 367.69              | 0.72188              | 1.81                 |
| -51                 | 0.7508            | 0.5268            | 1422.2                          | 2.6397                          | 132.3               | 368.28              | 0.72763              | 1.8076               |
| -50                 | 0.79034           | 0.55715           | 1419                            | 2.7821                          | 133.58              | 368.87              | 0.73336              | 1.8052               |
| -49                 | 0.83152           | 0.58888           | 1415.9                          | 2.9306                          | 134.86              | 369.46              | 0.73907              | 1.8029               |
| -48                 | 0.87439           | 0.62205           | 1412.8                          | 3.0854                          | 136.14              | 370.06              | 0.74476              | 1.8006               |
| -47                 | 0.91899           | 0.6567            | 1409.6                          | 3.2466                          | 137.42              | 370.64              | 0.75043              | 1.7984               |
| -46                 | 0.96539           | 0.69287           | 1406.5                          | 3.4143                          | 138.7               | 371.23              | 0.75608              | 1.7962               |
| -45                 | 1.0136            | 0.73063           | 1403.3                          | 3.5889                          | 139.99              | 371.82              | 0.76171              | 1.794                |
| -44                 | 1.0637            | 0.77001           | 1400.2                          | 3.7705                          | 141.28              | 372.4               | 0.76733              | 1.7919               |
| -43                 | 1.1158            | 0.81107           | 1397                            | 3.9593                          | 142.56              | 372.99              | 0.77292              | 1.7898               |
| -42                 | 1.1698            | 0.85385           | 1393.8                          | 4.1555                          | 143.85              | 373.57              | 0.7785               | 1.7878               |
| -41                 | 1.2259            | 0.89841           | 1390.6                          | 4.3594                          | 145.15              | 374.15              | 0.78406              | 1.7858               |
| -40                 | 1.2841            | 0.9448            | 1387.4                          | 4.571                           | 146.44              | 374.73              | 0.7896               | 1.7838               |
| -39                 | 1.3444            | 0.99307           | 1384.2                          | 4.7907                          | 147.73              | 375.31              | 0.79512              | 1.7818               |

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|-------------|--------------|-------------|----------------------|----------------------|--------------|-------------|--------------|-------------|
| Temperature | Pressure     | Pressure    | Density              | Density              | Enthalpy     | Enthalpy    | Entropy      | Entropy     |
| (°C)        | (bar)        | (bar)       | (kg/m <sup>3</sup> ) | (kg/m <sup>3</sup> ) | (kJ/kg)      | (kJ/kg)     | (kJ/kg-K)    | (kJ/kg-K)   |
| -38         | 1.4069       | 1.0433      | 1381                 | 5.0187               | 149.03       | 375.89      | 0.80063      | 1.7799      |
| -37         | 1.4717       | 1.0955      | 1377.7               | 5.2551               | 150.33       | 376.46      | 0.80612      | 1.7781      |
| -36         | 1.5388       | 1.1497      | 1374.5               | 5.5003               | 151.63       | 377.04      | 0.8116       | 1.7762      |
| -35         | 1.6083       | 1.206       | 1371.2               | 5.7544               | 152.93       | 377.61      | 0.81706      | 1.7744      |
| -34         | 1.6802       | 1.2645      | 1368                 | 6.0177               | 154.24       | 378.18      | 0.8225       | 1.7726      |
| -33         | 1.7545       | 1.3252      | 1364.7               | 6.2904               | 155.54       | 378.75      | 0.82793      | 1.7709      |
| -32         | 1.8315       | 1.3882      | 1361.4               | 6.5727               | 156.85       | 379.31      | 0.83334      | 1.7692      |
| -31         | 1.911        | 1.4535      | 1358.1               | 6.865                | 158.16       | 379.88      | 0.83874      | 1.7675      |
| -30         | 1.9931       | 1.5212      | 1354.8               | 7.1674               | 159.47       | 380.44      | 0.84412      | 1.7658      |
| -29         | 2.078        | 1.5913      | 1351.5               | 7.4803               | 160.79       | 381         | 0.84949      | 1.7642      |
| -28         | 2.1657       | 1.664       | 1348.2               | 7.8038               | 162.1        | 381.56      | 0.85484      | 1.7626      |
| -27         | 2.2562       | 1.7392      | 1344.8               | 8.1383               | 163.42       | 382.12      | 0.86018      | 1.761       |
| -26         | 2.3496       | 1.8171      | 1341.5               | 8.484                | 164.74       | 382.67      | 0.86551      | 1.7595      |
| -25         | 2.446        | 1.8976      | 1338.1               | 8.8412               | 166.07       | 383.22      | 0.87082      | 1.758       |
| -24         | 2.5453       | 1.9809      | 1334.7               | 9.2102               | 167.39       | 383.77      | 0.87612      | 1.7565      |
| -23         | 2.6478       | 2.067       | 1331.4               | 9.5912               | 168.72       | 384.32      | 0.88141      | 1.755       |
| -22         | 2.7534       | 2.1561      | 1327.9               | 9.9846               | 170.05       | 384.87      | 0.88668      | 1.7535      |
| -21         | 2.8623       | 2.248       | 1324.5               | 10.391               | 171.38       | 385.41      | 0.89194      | 1.7521      |
| -20         | 2.9744       | 2.343       | 1321.1               | 10.81                | 172.72       | 385.95      | 0.89719      | 1.7507      |
| -19         | 3.0898       | 2.4411      | 1317.6               | 11.242               | 174.05       | 386.49      | 0.90243      | 1.7493      |
| -18         | 3.2086       | 2.5423      | 1314.2               | 11.688               | 175.39       | 387.02      | 0.90766      | 1.7479      |
| -17         | 3.331        | 2.6467      | 1310.7               | 12.147               | 176.74       | 387.56      | 0.91287      | 1.7466      |
| -16         | 3.4568       | 2.7544      | 1307.2               | 12.621               | 178.08       | 388.09      | 0.91807      | 1.7453      |
| -15         | 3.5863       | 2.8655      | 1303.7               | 13.11                | 179.43       | 388.61      | 0.92327      | 1.744       |
| -14         | 3.7194       | 2.98        | 1300.2               | 13.613               | 180.78       | 389.14      | 0.92845      | 1.7427      |
| -13         | 3.8562       | 3.098       | 1296.6               | 14.132               | 182.13       | 389.66      | 0.93362      | 1.7414      |
| -12         | 3.9969       | 3.2196      | 1293.1               | 14.667               | 183.49       | 390.18      | 0.93878      | 1.7402      |
| -11         | 4.1414       | 3.3448      | 1289.5               | 15.217               | 184.85       | 390.69      | 0.94393      | 1.7389      |
| -10         | 4.2899       | 3.4737      | 1285.9               | 15.784               | 186.21       | 391.21      | 0.94907      | 1.7377      |
| -9          | 4.4424       | 3.6064      | 1282.3               | 16.367               | 187.57       | 391.72      | 0.9542       | 1.7365      |
| -8          | 4.5989       | 3.743       | 1278.7               | 16.968               | 188.94       | 392.22      | 0.95932      | 1.7353      |
| -7          | 4.7596       | 3.8835      | 1275                 | 17.586               | 190.31       | 392.72      | 0.96444      | 1.7342      |
| -6          | 4.9246       | 4.028       | 1271.4               | 18.222               | 191.69       | 393.22      | 0.96954      | 1.733       |
| -5          | 5.0938       | 4.1766      | 1267.7               | 18.877               | 193.06       | 393.72      | 0.97464      | 1.7319      |
| -4          | 5.2673       | 4.3293      | 1264                 | 19.55                | 194.44       | 394.21      | 0.97973      | 1.7307      |
| -3          | 5.4454       | 4.4863      | 1260.2               | 20.243               | 195.83       | 394.7       | 0.98481      | 1.7296      |
| -2          | 5.6279       | 4.6476      | 1256.5               | 20.955               | 197.22       | 395.19      | 0.98988      | 1.7285      |
| -1          | 5.8149       | 4.8132      | 1252.7               | 21.687               | 198.61       | 395.67      | 0.99494      | 1.7274      |
| 0           | 6.0067       | 4.9834      | 1248.9               | 22.441               | 200          | 396.15      | 1            | 1.7264      |
| 1           | 6.2031       | 5.1581      | 1245.1               | 23.215               | 201.4        | 396.62      | 1.0051       | 1.7253      |
| 2           | 6.4043       | 5.3374      | 1241.3               | 24.011               | 202.8        | 397.09      | 1.0101       | 1.7242      |
| 3           | 6.6105       | 5.5215      | 1237.4               | 24.829               | 204.2        | 397.56      | 1.0151       | 1.7232      |
| 4           | 6.8215       | 5.7103      | 1233.5               | 25.67                | 205.61       | 398.02      | 1.0202       | 1.7222      |
| 5           | 7.0376       | 5.904       | 1229.6               | 26.535               | 207.03       | 398.47      | 1.0252       | 1.7211      |
| 6           | 7.2587       | 6.1026      | 1225.7               | 27.423               | 208.44       | 398.93      | 1.0302       | 1.7201      |
| 7           | 7.485        | 6.3063      | 1221.7               | 28.335               | 209.86       | 399.37      | 1.0352       | 1.7191      |
| 8           | 7.7166       | 6.5151      | 1217.7               | 29.273               | 211.29       | 399.82      | 1.0402       | 1.7181      |
| 9           | 7.9535       | 6.7292      | 1213.7               | 30.237               | 212.72       | 400.26      | 1.0452       | 1.7171      |
| 10          | 8.1958       | 6.9485      | 1209.7               | 31.226               | 214.15       | 400.69      | 1.0502       | 1.7161      |
| 11          | 8.4435       | 7.1732      | 1205.6               | 32.243               | 215.59       | 401.12      | 1.0552       | 1.7151      |
| 12          | 8.6968       | 7.4033      | 1201.5               | 33.287               | 217.03       | 401.54      | 1.0602       | 1.7142      |
| 13          | 8.9557       | 7.6391      | 1197.4               | 34.36                | 218.48       | 401.96      | 1.0652       | 1.7132      |
| 14          | 9.2204       | 7.8804      | 1193.2               | 35.462               | 219.93       | 402.37      | 1.0702       | 1.7122      |
| 15          | 9.4908       | 8.1275      | 1189                 | 36.594               | 221.38       | 402.78      | 1.0752       | 1.7112      |
| 16          | 9.7671       | 8.3804      | 1184.8               | 37.757               | 222.85       | 403.18      | 1.0802       | 1.7103      |
| 17          | 10.049       | 8.6393      | 1180.5               | 38.951               | 224.31       | 403.58      | 1.0851       | 1.7093      |
| 18          | 10.338       | 8.9041      | 1176.2               | 40.177               | 225.78       | 403.97      | 1.0901       | 1.7083      |
| 19          | 10.632       | 9.175       | 1171.9               | 41.437               | 227.26       | 404.35      | 1.0951       | 1.7074      |
| 20          | 10.932       | 9.4522      | 1167.5               | 42.731               | 228.74       | 404.73      | 1.1001       | 1.7064      |
| 21          | 11.239       | 9.7356      | 1163.1               | 44.06                | 230.22       | 405.1       | 1.105        | 1.7055      |
| 22          | 11.552       | 10.025      | 1158.7               | 45.425               | 231.72       | 405.46      | 1.11         | 1.7045      |
| 23          | 11.872       | 10.322      | 1154.2               | 46.828               | 233.21       | 405.82      | 1.115        | 1.7035      |

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| Temperature | Pressure     | Pressure    | Density      | Density     | Enthalpy     | Enthalpy    | Entropy      | Entropy     |
| (°C)        | (bar)        | (bar)       | (kg/m³)      | (kg/m³)     | (kJ/kg)      | (kJ/kg)     | (kJ/kg-K)    | (kJ/kg-K)   |
| 24          | 12.198       | 10.625      | 1149.7       | 48.268      | 234.72       | 406.17      | 1.1199       | 1.7026      |
| 25          | 12.531       | 10.934      | 1145.1       | 49.749      | 236.23       | 406.51      | 1.1249       | 1.7016      |
| 26          | 12.87        | 11.25       | 1140.5       | 51.269      | 237.74       | 406.85      | 1.1299       | 1.7006      |
| 27          | 13.216       | 11.574      | 1135.8       | 52.832      | 239.26       | 407.17      | 1.1349       | 1.6996      |
| 28          | 13.569       | 11.904      | 1131.2       | 54.437      | 240.79       | 407.49      | 1.1398       | 1.6986      |
| 29          | 13.929       | 12.241      | 1126.4       | 56.087      | 242.32       | 407.8       | 1.1448       | 1.6976      |
| 30          | 14.296       | 12.586      | 1121.6       | 57.782      | 243.86       | 408.11      | 1.1498       | 1.6966      |
| 31          | 14.67        | 12.937      | 1116.8       | 59.525      | 245.41       | 408.4       | 1.1548       | 1.6956      |
| 32          | 15.051       | 13.297      | 1111.9       | 61.317      | 246.97       | 408.68      | 1.1598       | 1.6946      |
| 33          | 15.439       | 13.663      | 1106.9       | 63.159      | 248.53       | 408.96      | 1.1648       | 1.6936      |
| 34          | 15.835       | 14.038      | 1101.9       | 65.053      | 250.1        | 409.22      | 1.1698       | 1.6926      |
| 35          | 16.238       | 14.42       | 1096.9       | 67.001      | 251.67       | 409.48      | 1.1748       | 1.6915      |
| 36          | 16.649       | 14.81       | 1091.8       | 69.005      | 253.26       | 409.72      | 1.1798       | 1.6904      |
| 37          | 17.068       | 15.208      | 1086.6       | 71.067      | 254.85       | 409.96      | 1.1848       | 1.6894      |
| 38          | 17.494       | 15.614      | 1081.3       | 73.188      | 256.45       | 410.18      | 1.1898       | 1.6883      |
| 39          | 17.928       | 16.028      | 1076         | 75.372      | 258.06       | 410.4       | 1.1949       | 1.6872      |
| 40          | 18.37        | 16.451      | 1070.7       | 77.62       | 259.68       | 410.6       | 1.1999       | 1.686       |
| 41          | 18.819       | 16.882      | 1065.2       | 79.935      | 261.3        | 410.78      | 1.205        | 1.6849      |
| 42          | 19.277       | 17.321      | 1059.7       | 82.32       | 262.94       | 410.96      | 1.21         | 1.6837      |
| 43          | 19.744       | 17.77       | 1054.1       | 84.777      | 264.58       | 411.12      | 1.2151       | 1.6825      |
| 44          | 20.218       | 18.227      | 1048.4       | 87.309      | 266.24       | 411.27      | 1.2202       | 1.6813      |
| 45          | 20.701       | 18.693      | 1042.7       | 89.921      | 267.9        | 411.41      | 1.2253       | 1.6801      |
| 46          | 21.192       | 19.169      | 1036.8       | 92.614      | 269.58       | 411.53      | 1.2304       | 1.6788      |
| 47          | 21.692       | 19.653      | 1030.9       | 95.393      | 271.27       | 411.63      | 1.2355       | 1.6776      |
| 48          | 22.2         | 20.147      | 1024.9       | 98.261      | 272.97       | 411.72      | 1.2407       | 1.6762      |
| 49          | 22.718       | 20.651      | 1018.8       | 101.22      | 274.68       | 411.79      | 1.2458       | 1.6749      |
| 50          | 23.244       | 21.165      | 1012.5       | 104.29      | 276.4        | 411.85      | 1.251        | 1.6735      |
| 51          | 23.779       | 21.688      | 1006.2       | 107.45      | 278.14       | 411.88      | 1.2562       | 1.6721      |
| 52          | 24.323       | 22.221      | 999.74       | 110.72      | 279.89       | 411.9       | 1.2614       | 1.6707      |
| 53          | 24.877       | 22.765      | 993.16       | 114.11      | 281.66       | 411.9       | 1.2667       | 1.6692      |
| 54          | 25.439       | 23.319      | 986.46       | 117.62      | 283.44       | 411.87      | 1.272        | 1.6676      |
| 55          | 26.011       | 23.884      | 979.62       | 121.26      | 285.23       | 411.83      | 1.2773       | 1.666       |
| 56          | 26.593       | 24.459      | 972.64       | 125.03      | 287.05       | 411.76      | 1.2826       | 1.6644      |
| 57          | 27.184       | 25.045      | 965.5        | 128.95      | 288.88       | 411.66      | 1.288        | 1.6627      |
| 58          | 27.785       | 25.643      | 958.2        | 133.02      | 290.73       | 411.54      | 1.2934       | 1.661       |
| 59          | 28.396       | 26.252      | 950.72       | 137.25      | 292.6        | 411.39      | 1.2988       | 1.6591      |
| 60          | 29.017       | 26.873      | 943.04       | 141.66      | 294.49       | 411.21      | 1.3043       | 1.6573      |
| 61          | 29.648       | 27.505      | 935.17       | 146.25      | 296.41       | 411         | 1.3099       | 1.6553      |
| 62          | 30.289       | 28.15       | 927.06       | 151.05      | 298.35       | 410.75      | 1.3155       | 1.6533      |
| 63          | 30.94        | 28.807      | 918.72       | 156.06      | 300.31       | 410.47      | 1.3211       | 1.6512      |
| 64          | 31.602       | 29.477      | 910.1        | 161.31      | 302.31       | 410.14      | 1.3268       | 1.6489      |
| 65          | 32.274       | 30.16       | 901.2        | 166.82      | 304.34       | 409.77      | 1.3326       | 1.6466      |
| 66          | 32.957       | 30.857      | 891.97       | 172.61      | 306.4        | 409.36      | 1.3385       | 1.6442      |
| 67          | 33.65        | 31.567      | 882.38       | 178.71      | 308.51       | 408.89      | 1.3444       | 1.6416      |
| 68          | 34.355       | 32.291      | 872.39       | 185.16      | 310.65       | 408.36      | 1.3505       | 1.6389      |
| 69          | 35.07        | 33.03       | 861.95       | 191.98      | 312.84       | 407.77      | 1.3567       | 1.636       |
| 70          | 35.796       | 33.784      | 850.99       | 199.24      | 315.09       | 407.11      | 1.363        | 1.6329      |
| 71          | 36.533       | 34.554      | 839.45       | 206.98      | 317.4        | 406.36      | 1.3695       | 1.6297      |
| 72          | 37.281       | 35.34       | 827.23       | 215.28      | 319.78       | 405.53      | 1.3761       | 1.6262      |
| 73          | 38.04        | 36.144      | 814.21       | 224.23      | 322.25       | 404.58      | 1.383        | 1.6224      |
| 74          | 38.81        | 36.965      | 800.23       | 233.95      | 324.81       | 403.52      | 1.3901       | 1.6183      |
| 75          | 39.59        | 37.806      | 785.1        | 244.58      | 327.49       | 402.3       | 1.3975       | 1.6138      |
| 76          | 40.38        | 38.668      | 768.52       | 256.33      | 330.33       | 400.9       | 1.4054       | 1.6088      |
| 77          | 41.179       | 39.552      | 750.07       | 269.52      | 333.36       | 399.27      | 1.4137       | 1.6031      |
| 78          | 41.986       | 40.461      | 729.09       | 284.61      | 336.65       | 397.33      | 1.4228       | 1.5967      |
| 79          | 42.798       | 41.4        | 704.44       | 302.37      | 340.33       | 394.98      | 1.433        | 1.5891      |