

| | |
|----------------------|-----------------------------|
| Faixa de Frequência | 76.1 a 108 MHz |
| Largura de Banda | 3 MHz |
| Polarização | Vertical |
| Impedância | 50 ohms |
| Ganho | (Vide tabela) |
| Máxima Potência | Sob Consulta |
| Conexão de Entrada | EIA 1 5/8", 3 1/8", 4 1/16" |
| VSWR | < 1.1:1 |
| Resistência ao Vento | 180 Km/h |

| Ganho | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|---------|
| Modelo | APVT-1 | APVT-2 | APVT-3 | APVT-4 | APVT-6 | APVT-8 | APVT-10 |
| Vezes | 3,2 | 7,3 | 10,2 | 13,8 | 21,0 | 27,9 | 35,6 |
| dBd | 5.08 | 8.25 | 10.1 | 11.4 | 13.22 | 14.45 | 15.51 |

CARACTERÍSTICAS CONSTRUTIVAS

Padrões de alimentação

Os sistemas podem ser fornecidos alimentados com linhas rígidas ou com divisor e cabos.

Material Empregado:

Estrutura em latão, cobre ou alumínio conforme projeto.

Fixadores em aço inox e isoladores em PTFE

Estrutura de sustentação em aço galvanizado

Montagem:

Fornecida com suportes compatíveis com tubos de 3,5" a 10" em aço

Acabamento:

Pintura na cor vermelha.

Acessórios:

Divisores de potência contruidos em latão e cobre com contatos internos prateados

Embalagem:

Caixa de madeira

Modelo:

APVT-(Nº NÍVEIS) - (FACES) - (FREQUÊNCIA) - (POTÊNCIA)

1 - 10

1 - 4

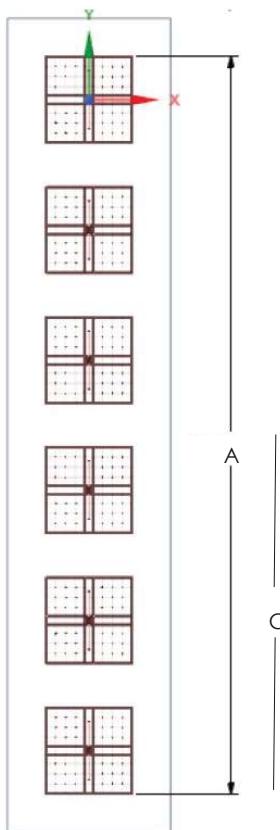
76.1 - 107.9Mhz

Kw

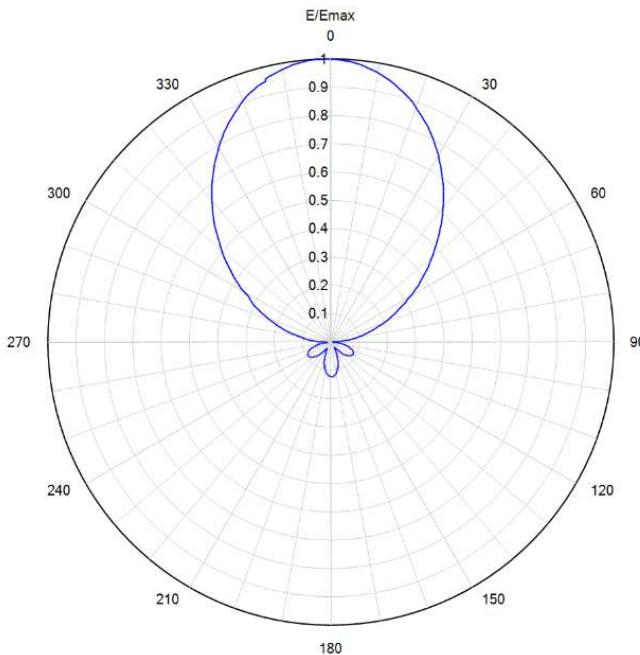
Características Mecânicas

- A Altura da antena em mm
- C Centro de radiação em mm
- P Peso médio da antena em Kg
- AE Área de exposição (CaAc) da antena em m²

| Modelo > | APVT-1 | | | | APVT-2 | | | | APVT-3 | | | | APVT-4 | | | | APVT-5 | | | | APVT-6 | | | |
|---------------|--------|-----|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|
| Frequência | A | C | P | AE | A | C | P | AE | A | C | P | AE | A | C | P | AE | A | C | P | AE | A | C | P | AE |
| 76,1 a 77,9 | 350 | 175 | | | 4253 | 2126 | | | 8156 | 4078 | | | 12058 | 6029 | | | 15961 | 7981 | | | 19864 | 9932 | | |
| 78,1 a 80,9 | 350 | 175 | | | 4153 | 2076 | | | 7956 | 3978 | | | 11758 | 5879 | | | 15561 | 7781 | | | 19364 | 9682 | | |
| 80,1 a 81,9 | 350 | 175 | | | 4058 | 2029 | | | 7766 | 3883 | | | 11474 | 5737 | | | 15181 | 7591 | | | 18889 | 9445 | | |
| 82,1 a 83,9 | 350 | 175 | | | 3968 | 1984 | | | 7585 | 3793 | | | 11203 | 5601 | | | 14820 | 7410 | | | 18438 | 9219 | | |
| 84,1 a 85,9 | 350 | 175 | | | 3882 | 1941 | | | 7413 | 3707 | | | 10945 | 5472 | | | 14476 | 7238 | | | 18008 | 9004 | | |
| 86,1 a 87,9 | 350 | 175 | | | 3799 | 1900 | | | 7249 | 3624 | | | 10698 | 5349 | | | 14148 | 7074 | | | 17597 | 8799 | | |
| 88,1 a 89,9 | 350 | 175 | S O | 0,15 | 3721 | 1861 | S O | | 7092 | 3546 | S O | | 10464 | 5232 | S O | | 13835 | 6917 | S O | | 17206 | 8603 | S O | |
| 90,1 a 91,9 | 350 | 175 | B C | | 3646 | 1823 | B C | 0,43 | 6943 | 3471 | B C | 0,71 | 10239 | 5120 | B C | 0,99 | 13535 | 6768 | B C | 1,27 | 16832 | 8416 | B C | 1,55 |
| 92,1 a 93,9 | 350 | 175 | C ON | | 3575 | 1787 | C ON | | 6800 | 3400 | C ON | | 10024 | 5012 | C ON | | 13249 | 6625 | C ON | | 16474 | 8237 | C ON | |
| 94,1 a 95,9 | 350 | 175 | O N | | 3506 | 1753 | O N | | 6662 | 3331 | O N | | 9819 | 4909 | O N | | 12975 | 6487 | O N | | 16131 | 8066 | O N | |
| 96,1 a 97,9 | 350 | 175 | S U | | 3441 | 1720 | S U | | 6531 | 3266 | S U | | 9622 | 4811 | S U | | 12712 | 6356 | S U | | 15803 | 7901 | S U | |
| 98,1 a 99,9 | 350 | 175 | U LT | | 3378 | 1689 | U LT | | 6405 | 3203 | U LT | | 9433 | 4716 | U LT | | 12460 | 6230 | U LT | | 15488 | 7744 | U LT | |
| 100,1 a 101,9 | 350 | 175 | L T | | 3317 | 1659 | L T | | 6284 | 3142 | L T | | 9251 | 4626 | L T | | 12218 | 6109 | L T | | 15185 | 7593 | L T | |
| 102,1 a 103,9 | 350 | 175 | A | | 3259 | 1629 | A | | 6168 | 3084 | A | | 9077 | 4538 | A | | 11986 | 5993 | A | | 14895 | 7447 | A | |
| 104,1 a 105,9 | 350 | 175 | | | 3203 | 1602 | | | 6056 | 3028 | | | 8909 | 4455 | | | 11762 | 5881 | | | 14615 | 7308 | | |
| 106,1 a 107,9 | 350 | 175 | | | 3149 | 1575 | | | 5948 | 2974 | | | 8748 | 4374 | | | 11547 | 5773 | | | 14346 | 7173 | | |

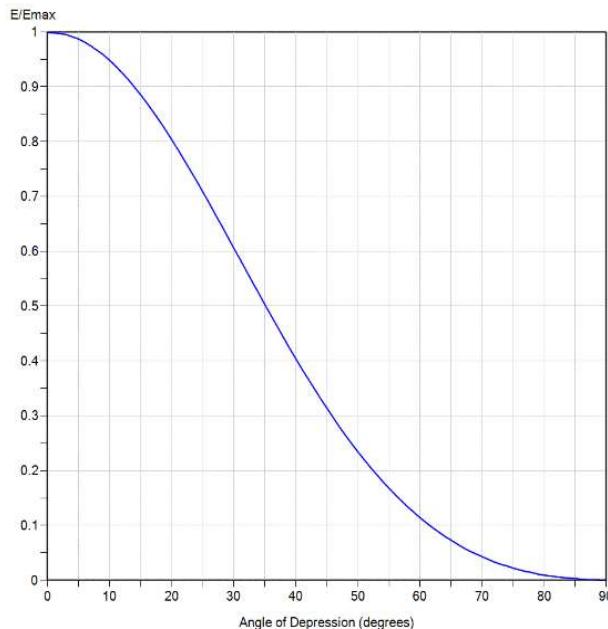


Diagramas de Radiação Horizontal - Escala E/Emáx



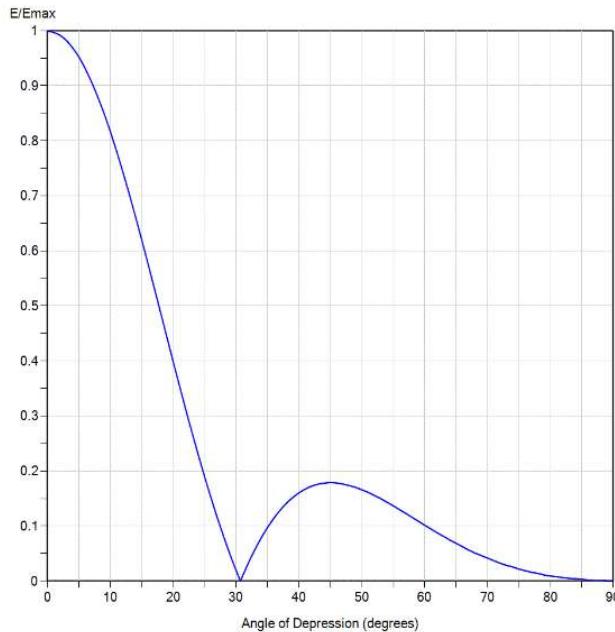
| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.999 | 45 | 0.542 | 90 | 0.015 | 135 | 0.058 | 180 | 0.123 | 225 | 0.070 | 270 | 0.031 | 315 | 0.579 | | |
| 1 | 0.998 | 46 | 0.527 | 91 | 0.009 | 136 | 0.055 | 181 | 0.122 | 226 | 0.073 | 271 | 0.038 | 316 | 0.594 | | |
| 2 | 0.997 | 47 | 0.512 | 92 | 0.005 | 137 | 0.051 | 182 | 0.121 | 227 | 0.076 | 272 | 0.046 | 317 | 0.609 | | |
| 3 | 0.995 | 48 | 0.497 | 93 | 0.008 | 138 | 0.047 | 183 | 0.120 | 228 | 0.078 | 273 | 0.054 | 318 | 0.624 | | |
| 4 | 0.992 | 49 | 0.482 | 94 | 0.013 | 139 | 0.043 | 184 | 0.119 | 229 | 0.081 | 274 | 0.062 | 319 | 0.639 | | |
| 5 | 0.989 | 50 | 0.467 | 95 | 0.019 | 140 | 0.039 | 185 | 0.117 | 230 | 0.083 | 275 | 0.071 | 320 | 0.653 | | |
| 6 | 0.985 | 51 | 0.453 | 96 | 0.024 | 141 | 0.035 | 186 | 0.115 | 231 | 0.085 | 276 | 0.080 | 321 | 0.668 | | |
| 7 | 0.981 | 52 | 0.438 | 97 | 0.030 | 142 | 0.031 | 187 | 0.113 | 232 | 0.087 | 277 | 0.089 | 322 | 0.683 | | |
| 8 | 0.976 | 53 | 0.423 | 98 | 0.035 | 143 | 0.028 | 188 | 0.110 | 233 | 0.088 | 278 | 0.098 | 323 | 0.697 | | |
| 9 | 0.971 | 54 | 0.409 | 99 | 0.040 | 144 | 0.025 | 189 | 0.108 | 234 | 0.090 | 279 | 0.108 | 324 | 0.711 | | |
| 10 | 0.965 | 55 | 0.395 | 100 | 0.045 | 145 | 0.023 | 190 | 0.105 | 235 | 0.091 | 280 | 0.117 | 325 | 0.726 | | |
| 11 | 0.959 | 56 | 0.381 | 101 | 0.049 | 146 | 0.022 | 191 | 0.101 | 236 | 0.092 | 281 | 0.127 | 326 | 0.739 | | |
| 12 | 0.952 | 57 | 0.370 | 102 | 0.054 | 147 | 0.022 | 192 | 0.098 | 237 | 0.092 | 282 | 0.138 | 327 | 0.753 | | |
| 13 | 0.945 | 58 | 0.353 | 103 | 0.058 | 148 | 0.023 | 193 | 0.094 | 238 | 0.093 | 283 | 0.148 | 328 | 0.767 | | |
| 14 | 0.937 | 59 | 0.340 | 104 | 0.062 | 149 | 0.029 | 194 | 0.090 | 239 | 0.093 | 284 | 0.159 | 329 | 0.780 | | |
| 15 | 0.929 | 60 | 0.324 | 105 | 0.065 | 150 | 0.026 | 195 | 0.086 | 240 | 0.093 | 285 | 0.170 | 330 | 0.793 | | |
| 16 | 0.920 | 61 | 0.312 | 106 | 0.069 | 151 | 0.033 | 196 | 0.082 | 241 | 0.092 | 286 | 0.181 | 331 | 0.806 | | |
| 17 | 0.911 | 62 | 0.299 | 107 | 0.072 | 152 | 0.037 | 197 | 0.078 | 242 | 0.092 | 287 | 0.192 | 332 | 0.818 | | |
| 18 | 0.902 | 63 | 0.286 | 108 | 0.075 | 153 | 0.042 | 198 | 0.073 | 243 | 0.091 | 288 | 0.204 | 333 | 0.831 | | |
| 19 | 0.892 | 64 | 0.273 | 109 | 0.077 | 154 | 0.046 | 199 | 0.069 | 244 | 0.089 | 289 | 0.216 | 334 | 0.843 | | |
| 20 | 0.881 | 65 | 0.260 | 110 | 0.080 | 155 | 0.051 | 200 | 0.064 | 245 | 0.088 | 290 | 0.228 | 335 | 0.854 | | |
| 21 | 0.871 | 66 | 0.248 | 111 | 0.082 | 156 | 0.056 | 201 | 0.059 | 246 | 0.086 | 291 | 0.240 | 336 | 0.865 | | |
| 22 | 0.860 | 67 | 0.235 | 112 | 0.084 | 157 | 0.061 | 202 | 0.055 | 247 | 0.084 | 292 | 0.252 | 337 | 0.876 | | |
| 23 | 0.848 | 68 | 0.223 | 113 | 0.085 | 158 | 0.066 | 203 | 0.050 | 248 | 0.082 | 293 | 0.265 | 338 | 0.887 | | |
| 24 | 0.837 | 69 | 0.212 | 114 | 0.087 | 159 | 0.070 | 204 | 0.046 | 249 | 0.080 | 294 | 0.278 | 339 | 0.897 | | |
| 25 | 0.825 | 70 | 0.200 | 115 | 0.088 | 160 | 0.075 | 205 | 0.041 | 250 | 0.077 | 295 | 0.291 | 340 | 0.907 | | |
| 26 | 0.812 | 71 | 0.188 | 116 | 0.089 | 161 | 0.079 | 206 | 0.037 | 251 | 0.074 | 296 | 0.304 | 341 | 0.916 | | |
| 27 | 0.800 | 72 | 0.177 | 117 | 0.089 | 162 | 0.084 | 207 | 0.033 | 252 | 0.071 | 297 | 0.317 | 342 | 0.925 | | |
| 28 | 0.787 | 73 | 0.166 | 118 | 0.090 | 163 | 0.088 | 208 | 0.028 | 253 | 0.067 | 298 | 0.325 | 343 | 0.933 | | |
| 29 | 0.773 | 74 | 0.155 | 119 | 0.090 | 164 | 0.096 | 209 | 0.030 | 254 | 0.064 | 299 | 0.331 | 344 | 0.941 | | |
| 30 | 0.760 | 75 | 0.145 | 120 | 0.090 | 165 | 0.092 | 210 | 0.026 | 255 | 0.060 | 300 | 0.358 | 345 | 0.949 | | |
| 31 | 0.746 | 76 | 0.135 | 121 | 0.089 | 166 | 0.099 | 211 | 0.026 | 256 | 0.056 | 301 | 0.372 | 346 | 0.956 | | |
| 32 | 0.733 | 77 | 0.124 | 122 | 0.088 | 167 | 0.103 | 212 | 0.026 | 257 | 0.051 | 302 | 0.386 | 347 | 0.962 | | |
| 33 | 0.719 | 78 | 0.115 | 123 | 0.087 | 168 | 0.106 | 213 | 0.028 | 258 | 0.047 | 303 | 0.401 | 348 | 0.968 | | |
| 34 | 0.704 | 79 | 0.105 | 124 | 0.086 | 169 | 0.109 | 214 | 0.031 | 259 | 0.042 | 304 | 0.415 | 349 | 0.974 | | |
| 35 | 0.690 | 80 | 0.095 | 125 | 0.085 | 170 | 0.112 | 215 | 0.034 | 260 | 0.037 | 305 | 0.430 | 350 | 0.979 | | |
| 36 | 0.676 | 81 | 0.086 | 126 | 0.083 | 171 | 0.114 | 216 | 0.037 | 261 | 0.032 | 306 | 0.444 | 351 | 0.983 | | |
| 37 | 0.661 | 82 | 0.077 | 127 | 0.081 | 172 | 0.116 | 217 | 0.041 | 262 | 0.027 | 307 | 0.459 | 352 | 0.987 | | |
| 38 | 0.646 | 83 | 0.069 | 128 | 0.079 | 173 | 0.118 | 218 | 0.044 | 263 | 0.022 | 308 | 0.474 | 353 | 0.990 | | |
| 39 | 0.631 | 84 | 0.060 | 129 | 0.077 | 174 | 0.120 | 219 | 0.048 | 264 | 0.017 | 309 | 0.489 | 354 | 0.993 | | |
| 40 | 0.617 | 85 | 0.052 | 130 | 0.074 | 175 | 0.121 | 220 | 0.052 | 265 | 0.013 | 310 | 0.504 | 355 | 0.996 | | |
| 41 | 0.602 | 86 | 0.044 | 131 | 0.071 | 176 | 0.122 | 221 | 0.056 | 266 | 0.011 | 311 | 0.519 | 356 | 0.997 | | |
| 42 | 0.587 | 87 | 0.036 | 132 | 0.068 | 177 | 0.123 | 222 | 0.059 | 267 | 0.013 | 312 | 0.534 | 357 | 0.999 | | |
| 43 | 0.572 | 88 | 0.029 | 133 | 0.065 | 178 | 0.123 | 223 | 0.063 | 268 | 0.018 | 313 | 0.549 | 358 | 0.999 | | |
| 44 | 0.557 | 89 | 0.021 | 134 | 0.062 | 179 | 0.123 | 224 | 0.066 | 269 | 0.024 | 314 | 0.564 | 359 | 1.000 | | |

Elevação 1 Nível



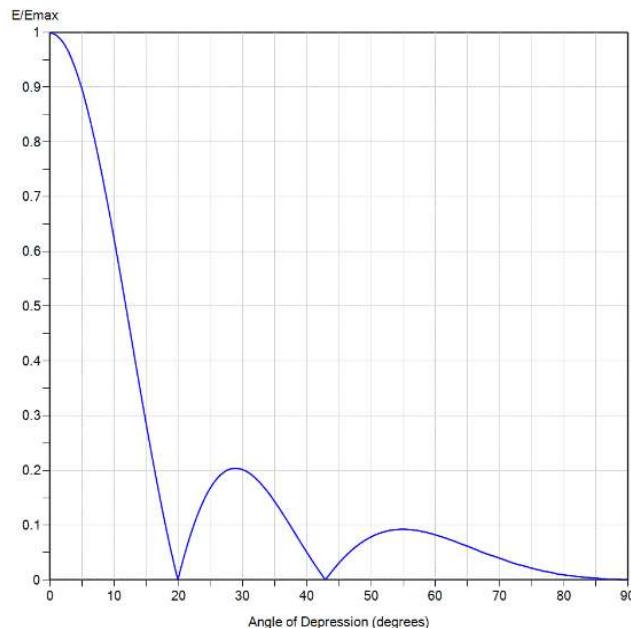
| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.940 | 2.4 | 0.996 | 10.6 | 0.941 | 30.5 | 0.595 | 51.0 | 0.220 | 71.5 | 0.035 |
| -9.5 | 0.945 | 2.6 | 0.996 | 10.8 | 0.939 | 31.0 | 0.585 | 51.5 | 0.213 | 72.0 | 0.033 |
| -9.0 | 0.950 | 2.8 | 0.995 | 11.0 | 0.937 | 31.5 | 0.575 | 52.0 | 0.206 | 72.5 | 0.031 |
| -8.5 | 0.955 | 3.0 | 0.995 | 11.5 | 0.931 | 32.0 | 0.564 | 52.5 | 0.199 | 73.0 | 0.029 |
| -8.0 | 0.960 | 3.2 | 0.994 | 12.0 | 0.925 | 32.5 | 0.554 | 53.0 | 0.193 | 73.5 | 0.027 |
| -7.5 | 0.964 | 3.4 | 0.993 | 12.5 | 0.919 | 33.0 | 0.543 | 53.5 | 0.186 | 74.0 | 0.026 |
| -7.0 | 0.968 | 3.6 | 0.993 | 13.0 | 0.913 | 33.5 | 0.533 | 54.0 | 0.180 | 74.5 | 0.024 |
| -6.5 | 0.972 | 3.8 | 0.992 | 13.5 | 0.906 | 34.0 | 0.523 | 54.5 | 0.174 | 75.0 | 0.022 |
| -6.0 | 0.976 | 4.0 | 0.991 | 14.0 | 0.899 | 34.5 | 0.513 | 55.0 | 0.168 | 75.5 | 0.020 |
| -5.5 | 0.979 | 4.2 | 0.990 | 14.5 | 0.892 | 35.0 | 0.502 | 55.5 | 0.162 | 76.0 | 0.019 |
| -5.0 | 0.982 | 4.4 | 0.989 | 15.0 | 0.885 | 35.5 | 0.493 | 56.0 | 0.156 | 76.5 | 0.017 |
| -4.5 | 0.985 | 4.6 | 0.989 | 15.5 | 0.878 | 36.0 | 0.483 | 56.5 | 0.150 | 77.0 | 0.016 |
| -4.0 | 0.988 | 4.8 | 0.988 | 16.0 | 0.870 | 36.5 | 0.473 | 57.0 | 0.145 | 77.5 | 0.015 |
| -3.5 | 0.990 | 5.0 | 0.987 | 16.5 | 0.862 | 37.0 | 0.463 | 57.5 | 0.139 | 78.0 | 0.014 |
| -3.0 | 0.992 | 5.2 | 0.986 | 17.0 | 0.854 | 37.5 | 0.453 | 58.0 | 0.134 | 78.5 | 0.012 |
| -2.8 | 0.993 | 5.4 | 0.985 | 17.5 | 0.846 | 38.0 | 0.443 | 58.5 | 0.129 | 79.0 | 0.011 |
| -2.6 | 0.993 | 5.6 | 0.983 | 18.0 | 0.838 | 38.5 | 0.433 | 59.0 | 0.124 | 79.5 | 0.010 |
| -2.4 | 0.994 | 5.8 | 0.982 | 18.5 | 0.830 | 39.0 | 0.423 | 59.5 | 0.119 | 80.0 | 0.009 |
| -2.2 | 0.994 | 6.0 | 0.981 | 19.0 | 0.821 | 39.5 | 0.413 | 60.0 | 0.114 | 80.5 | 0.008 |
| -2.0 | 0.995 | 6.2 | 0.980 | 19.5 | 0.812 | 40.0 | 0.404 | 60.5 | 0.109 | 81.0 | 0.008 |
| -1.8 | 0.996 | 6.4 | 0.978 | 20.0 | 0.803 | 40.5 | 0.394 | 61.0 | 0.105 | 81.5 | 0.007 |
| -1.6 | 0.996 | 6.6 | 0.977 | 20.5 | 0.794 | 41.0 | 0.385 | 61.5 | 0.100 | 82.0 | 0.006 |
| -1.4 | 0.997 | 6.8 | 0.975 | 21.0 | 0.785 | 41.5 | 0.376 | 62.0 | 0.096 | 82.5 | 0.005 |
| -1.2 | 0.997 | 7.0 | 0.974 | 21.5 | 0.776 | 42.0 | 0.367 | 62.5 | 0.092 | 83.0 | 0.005 |
| -1.0 | 0.998 | 7.2 | 0.972 | 22.0 | 0.766 | 42.5 | 0.358 | 63.0 | 0.088 | 83.5 | 0.004 |
| -0.8 | 0.998 | 7.4 | 0.971 | 22.5 | 0.757 | 43.0 | 0.349 | 63.5 | 0.084 | 84.0 | 0.004 |
| -0.6 | 0.998 | 7.6 | 0.969 | 23.0 | 0.747 | 43.5 | 0.340 | 64.0 | 0.080 | 84.5 | 0.003 |
| -0.4 | 0.999 | 7.8 | 0.968 | 23.5 | 0.738 | 44.0 | 0.331 | 64.5 | 0.076 | 85.0 | 0.003 |
| -0.2 | 0.999 | 8.0 | 0.966 | 24.0 | 0.728 | 44.5 | 0.322 | 65.0 | 0.073 | 85.5 | 0.002 |
| 0.0 | 0.999 | 8.2 | 0.964 | 24.5 | 0.718 | 45.0 | 0.314 | 65.5 | 0.069 | 86.0 | 0.002 |
| 0.2 | 0.999 | 8.4 | 0.963 | 25.0 | 0.708 | 45.5 | 0.305 | 66.0 | 0.066 | 86.5 | 0.001 |
| 0.4 | 0.999 | 8.6 | 0.961 | 25.5 | 0.698 | 46.0 | 0.297 | 66.5 | 0.062 | 87.0 | 0.001 |
| 0.6 | 0.998 | 8.8 | 0.960 | 26.0 | 0.688 | 46.5 | 0.288 | 67.0 | 0.059 | 87.5 | 0.001 |
| 0.8 | 0.998 | 9.0 | 0.958 | 26.5 | 0.678 | 47.0 | 0.280 | 67.5 | 0.056 | 88.0 | 0.001 |
| 1.0 | 0.998 | 9.2 | 0.956 | 27.0 | 0.667 | 47.5 | 0.272 | 68.0 | 0.053 | 88.5 | 0.000 |
| 1.2 | 0.998 | 9.4 | 0.954 | 27.5 | 0.657 | 48.0 | 0.264 | 68.5 | 0.050 | 89.0 | 0.000 |
| 1.4 | 0.998 | 9.6 | 0.952 | 28.0 | 0.647 | 48.5 | 0.256 | 69.0 | 0.048 | 89.5 | 0.000 |
| 1.6 | 0.997 | 9.8 | 0.950 | 28.5 | 0.637 | 49.0 | 0.249 | 69.5 | 0.045 | 90.0 | 0.000 |
| 1.8 | 0.997 | 10.0 | 0.948 | 29.0 | 0.626 | 49.5 | 0.241 | 70.0 | 0.043 | | |
| 2.0 | 0.997 | 10.2 | 0.946 | 29.5 | 0.616 | 50.0 | 0.234 | 70.5 | 0.040 | | |
| 2.2 | 0.997 | 10.4 | 0.944 | 30.0 | 0.605 | 50.5 | 0.227 | 71.0 | 0.038 | | |

Elevação 2 Nível



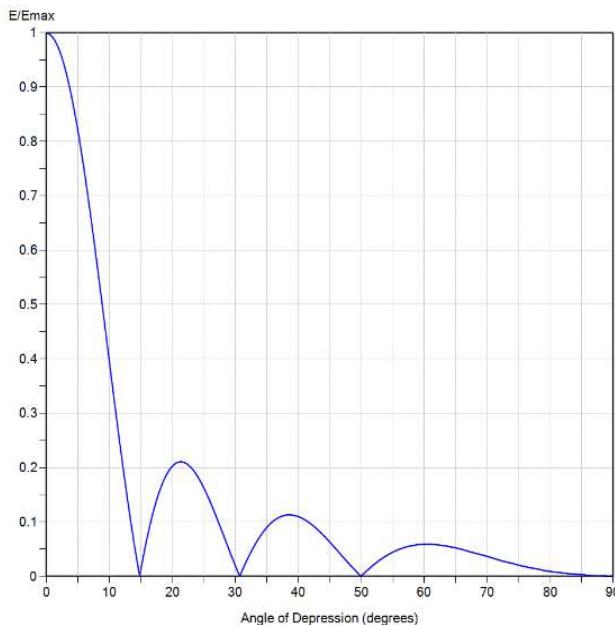
| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.809 | 2.4 | 0.988 | 10.6 | 0.794 | 30.5 | 0.005 | 51.0 | 0.161 | 71.5 | 0.035 |
| -9.5 | 0.826 | 2.6 | 0.986 | 10.8 | 0.787 | 31.0 | 0.009 | 51.5 | 0.158 | 72.0 | 0.032 |
| -9.0 | 0.842 | 2.8 | 0.984 | 11.0 | 0.780 | 31.5 | 0.022 | 52.0 | 0.155 | 72.5 | 0.030 |
| -8.5 | 0.858 | 3.0 | 0.982 | 11.5 | 0.761 | 32.0 | 0.034 | 52.5 | 0.153 | 73.0 | 0.028 |
| -8.0 | 0.873 | 3.2 | 0.980 | 12.0 | 0.742 | 32.5 | 0.046 | 53.0 | 0.150 | 73.5 | 0.027 |
| -7.5 | 0.887 | 3.4 | 0.977 | 12.5 | 0.722 | 33.0 | 0.058 | 53.5 | 0.146 | 74.0 | 0.026 |
| -7.0 | 0.901 | 3.6 | 0.974 | 13.0 | 0.703 | 33.5 | 0.068 | 54.0 | 0.143 | 74.5 | 0.024 |
| -6.5 | 0.914 | 3.8 | 0.971 | 13.5 | 0.682 | 34.0 | 0.079 | 54.5 | 0.140 | 75.0 | 0.022 |
| -6.0 | 0.926 | 4.0 | 0.968 | 14.0 | 0.661 | 34.5 | 0.088 | 55.0 | 0.137 | 75.5 | 0.020 |
| -5.5 | 0.937 | 4.2 | 0.965 | 14.5 | 0.640 | 35.0 | 0.097 | 55.5 | 0.133 | 76.0 | 0.019 |
| -5.0 | 0.947 | 4.4 | 0.962 | 15.0 | 0.619 | 35.5 | 0.106 | 56.0 | 0.130 | 76.5 | 0.017 |
| -4.5 | 0.956 | 4.6 | 0.959 | 15.5 | 0.597 | 36.0 | 0.114 | 56.5 | 0.126 | 77.0 | 0.016 |
| -4.0 | 0.965 | 4.8 | 0.955 | 16.0 | 0.575 | 36.5 | 0.122 | 57.0 | 0.123 | 77.5 | 0.015 |
| -3.5 | 0.973 | 5.0 | 0.952 | 16.5 | 0.553 | 37.0 | 0.129 | 57.5 | 0.119 | 78.0 | 0.014 |
| -3.0 | 0.979 | 5.2 | 0.948 | 17.0 | 0.531 | 37.5 | 0.135 | 58.0 | 0.115 | 78.5 | 0.012 |
| -2.8 | 0.981 | 5.4 | 0.944 | 17.5 | 0.509 | 38.0 | 0.141 | 58.5 | 0.112 | 79.0 | 0.011 |
| -2.6 | 0.984 | 5.6 | 0.939 | 18.0 | 0.487 | 38.5 | 0.147 | 59.0 | 0.109 | 79.5 | 0.010 |
| -2.4 | 0.986 | 5.8 | 0.935 | 18.5 | 0.464 | 39.0 | 0.152 | 59.5 | 0.105 | 80.0 | 0.009 |
| -2.2 | 0.987 | 6.0 | 0.931 | 19.0 | 0.442 | 39.5 | 0.156 | 60.0 | 0.101 | 80.5 | 0.008 |
| -2.0 | 0.989 | 6.2 | 0.926 | 19.5 | 0.420 | 40.0 | 0.160 | 60.5 | 0.098 | 81.0 | 0.008 |
| -1.8 | 0.991 | 6.4 | 0.921 | 20.0 | 0.398 | 40.5 | 0.164 | 61.0 | 0.095 | 81.5 | 0.007 |
| -1.6 | 0.993 | 6.6 | 0.916 | 20.5 | 0.376 | 41.0 | 0.167 | 61.5 | 0.091 | 82.0 | 0.006 |
| -1.4 | 0.994 | 6.8 | 0.911 | 21.0 | 0.354 | 41.5 | 0.170 | 62.0 | 0.087 | 82.5 | 0.005 |
| -1.2 | 0.995 | 7.0 | 0.906 | 21.5 | 0.332 | 42.0 | 0.172 | 62.5 | 0.084 | 83.0 | 0.005 |
| -1.0 | 0.997 | 7.2 | 0.901 | 22.0 | 0.311 | 42.5 | 0.174 | 63.0 | 0.081 | 83.5 | 0.004 |
| -0.8 | 0.997 | 7.4 | 0.895 | 22.5 | 0.290 | 43.0 | 0.176 | 63.5 | 0.078 | 84.0 | 0.004 |
| -0.6 | 0.998 | 7.6 | 0.890 | 23.0 | 0.269 | 43.5 | 0.177 | 64.0 | 0.074 | 84.5 | 0.003 |
| -0.4 | 0.998 | 7.8 | 0.884 | 23.5 | 0.248 | 44.0 | 0.178 | 64.5 | 0.071 | 85.0 | 0.003 |
| -0.2 | 0.999 | 8.0 | 0.879 | 24.0 | 0.228 | 44.5 | 0.178 | 65.0 | 0.068 | 85.5 | 0.002 |
| 0.0 | 0.999 | 8.2 | 0.873 | 24.5 | 0.208 | 45.0 | 0.179 | 65.5 | 0.065 | 86.0 | 0.002 |
| 0.2 | 0.999 | 8.4 | 0.867 | 25.0 | 0.189 | 45.5 | 0.179 | 66.0 | 0.062 | 86.5 | 0.001 |
| 0.4 | 0.998 | 8.6 | 0.861 | 25.5 | 0.170 | 46.0 | 0.178 | 66.5 | 0.059 | 87.0 | 0.001 |
| 0.6 | 0.998 | 8.8 | 0.855 | 26.0 | 0.151 | 46.5 | 0.177 | 67.0 | 0.056 | 87.5 | 0.001 |
| 0.8 | 0.997 | 9.0 | 0.849 | 26.5 | 0.133 | 47.0 | 0.176 | 67.5 | 0.053 | 88.0 | 0.001 |
| 1.0 | 0.997 | 9.2 | 0.843 | 27.0 | 0.115 | 47.5 | 0.175 | 68.0 | 0.051 | 88.5 | 0.000 |
| 1.2 | 0.996 | 9.4 | 0.836 | 27.5 | 0.098 | 48.0 | 0.173 | 68.5 | 0.049 | 89.0 | 0.000 |
| 1.4 | 0.995 | 9.6 | 0.829 | 28.0 | 0.081 | 48.5 | 0.172 | 69.0 | 0.046 | 89.5 | 0.000 |
| 1.6 | 0.994 | 9.8 | 0.823 | 28.5 | 0.065 | 49.0 | 0.170 | 69.5 | 0.044 | 90.0 | 0.000 |
| 1.8 | 0.993 | 10.0 | 0.816 | 29.0 | 0.049 | 49.5 | 0.168 | 70.0 | 0.042 | | |
| 2.0 | 0.991 | 10.2 | 0.809 | 29.5 | 0.034 | 50.0 | 0.166 | 70.5 | 0.039 | | |
| 2.2 | 0.990 | 10.4 | 0.802 | 30.0 | 0.019 | 50.5 | 0.163 | 71.0 | 0.037 | | |

Elevação 3 Nível



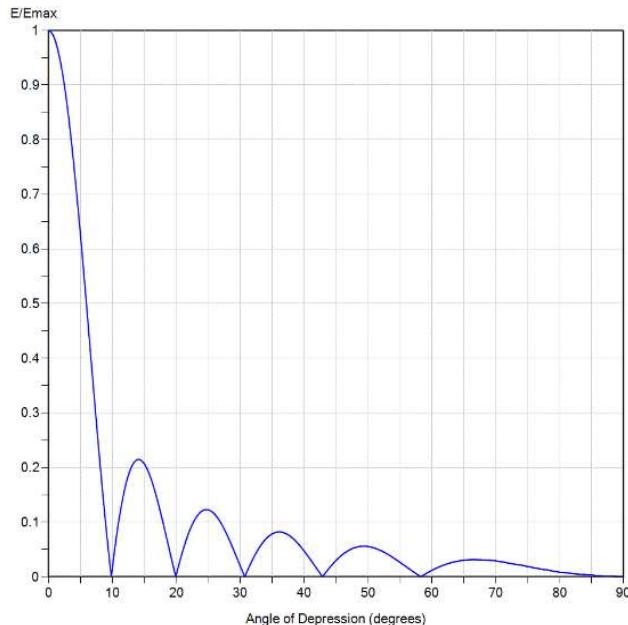
| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.615 | 2.4 | 0.974 | 10.6 | 0.580 | 30.5 | 0.198 | 51.0 | 0.084 | 71.5 | 0.033 |
| -9.5 | 0.647 | 2.6 | 0.970 | 10.8 | 0.567 | 31.0 | 0.195 | 51.5 | 0.086 | 72.0 | 0.031 |
| -9.0 | 0.678 | 2.8 | 0.966 | 11.0 | 0.553 | 31.5 | 0.191 | 52.0 | 0.088 | 72.5 | 0.029 |
| -8.5 | 0.709 | 3.0 | 0.961 | 11.5 | 0.519 | 32.0 | 0.185 | 52.5 | 0.089 | 73.0 | 0.027 |
| -8.0 | 0.739 | 3.2 | 0.955 | 12.0 | 0.485 | 32.5 | 0.180 | 53.0 | 0.090 | 73.5 | 0.026 |
| -7.5 | 0.767 | 3.4 | 0.950 | 12.5 | 0.451 | 33.0 | 0.173 | 53.5 | 0.091 | 74.0 | 0.025 |
| -7.0 | 0.795 | 3.6 | 0.944 | 13.0 | 0.417 | 33.5 | 0.166 | 54.0 | 0.092 | 74.5 | 0.023 |
| -6.5 | 0.821 | 3.8 | 0.938 | 13.5 | 0.382 | 34.0 | 0.159 | 54.5 | 0.092 | 75.0 | 0.021 |
| -6.0 | 0.846 | 4.0 | 0.931 | 14.0 | 0.348 | 34.5 | 0.151 | 55.0 | 0.092 | 75.5 | 0.020 |
| -5.5 | 0.869 | 4.2 | 0.924 | 14.5 | 0.315 | 35.0 | 0.142 | 55.5 | 0.092 | 76.0 | 0.018 |
| -5.0 | 0.890 | 4.4 | 0.917 | 15.0 | 0.282 | 35.5 | 0.134 | 56.0 | 0.092 | 76.5 | 0.017 |
| -4.5 | 0.910 | 4.6 | 0.910 | 15.5 | 0.249 | 36.0 | 0.125 | 56.5 | 0.091 | 77.0 | 0.016 |
| -4.0 | 0.928 | 4.8 | 0.902 | 16.0 | 0.217 | 36.5 | 0.116 | 57.0 | 0.090 | 77.5 | 0.015 |
| -3.5 | 0.944 | 5.0 | 0.895 | 16.5 | 0.186 | 37.0 | 0.106 | 57.5 | 0.089 | 78.0 | 0.014 |
| -3.0 | 0.958 | 5.2 | 0.886 | 17.0 | 0.155 | 37.5 | 0.097 | 58.0 | 0.088 | 78.5 | 0.012 |
| -2.8 | 0.963 | 5.4 | 0.877 | 17.5 | 0.126 | 38.0 | 0.087 | 58.5 | 0.087 | 79.0 | 0.011 |
| -2.6 | 0.968 | 5.6 | 0.869 | 18.0 | 0.097 | 38.5 | 0.078 | 59.0 | 0.086 | 79.5 | 0.010 |
| -2.4 | 0.972 | 5.8 | 0.859 | 18.5 | 0.070 | 39.0 | 0.068 | 59.5 | 0.084 | 80.0 | 0.009 |
| -2.2 | 0.976 | 6.0 | 0.850 | 19.0 | 0.044 | 39.5 | 0.059 | 60.0 | 0.082 | 80.5 | 0.008 |
| -2.0 | 0.980 | 6.2 | 0.840 | 19.5 | 0.018 | 40.0 | 0.050 | 60.5 | 0.080 | 81.0 | 0.008 |
| -1.8 | 0.983 | 6.4 | 0.831 | 20.0 | 0.005 | 40.5 | 0.041 | 61.0 | 0.079 | 81.5 | 0.007 |
| -1.6 | 0.986 | 6.6 | 0.820 | 20.5 | 0.028 | 41.0 | 0.032 | 61.5 | 0.077 | 82.0 | 0.006 |
| -1.4 | 0.989 | 6.8 | 0.810 | 21.0 | 0.049 | 41.5 | 0.023 | 62.0 | 0.074 | 82.5 | 0.005 |
| -1.2 | 0.992 | 7.0 | 0.800 | 21.5 | 0.069 | 42.0 | 0.014 | 62.5 | 0.072 | 83.0 | 0.005 |
| -1.0 | 0.994 | 7.2 | 0.789 | 22.0 | 0.087 | 42.5 | 0.006 | 63.0 | 0.070 | 83.5 | 0.004 |
| -0.8 | 0.996 | 7.4 | 0.778 | 22.5 | 0.105 | 43.0 | 0.002 | 63.5 | 0.068 | 84.0 | 0.004 |
| -0.6 | 0.997 | 7.6 | 0.767 | 23.0 | 0.120 | 43.5 | 0.010 | 64.0 | 0.066 | 84.5 | 0.003 |
| -0.4 | 0.998 | 7.8 | 0.755 | 23.5 | 0.135 | 44.0 | 0.017 | 64.5 | 0.064 | 85.0 | 0.003 |
| -0.2 | 0.999 | 8.0 | 0.744 | 24.0 | 0.148 | 44.5 | 0.024 | 65.0 | 0.061 | 85.5 | 0.002 |
| 0.0 | 0.999 | 8.2 | 0.732 | 24.5 | 0.159 | 45.0 | 0.031 | 65.5 | 0.059 | 86.0 | 0.002 |
| 0.2 | 0.999 | 8.4 | 0.720 | 25.0 | 0.169 | 45.5 | 0.038 | 66.0 | 0.057 | 86.5 | 0.001 |
| 0.4 | 0.998 | 8.6 | 0.708 | 25.5 | 0.178 | 46.0 | 0.044 | 66.5 | 0.054 | 87.0 | 0.001 |
| 0.6 | 0.997 | 8.8 | 0.696 | 26.0 | 0.185 | 46.5 | 0.049 | 67.0 | 0.052 | 87.5 | 0.001 |
| 0.8 | 0.996 | 9.0 | 0.684 | 26.5 | 0.191 | 47.0 | 0.055 | 67.5 | 0.050 | 88.0 | 0.001 |
| 1.0 | 0.994 | 9.2 | 0.671 | 27.0 | 0.196 | 47.5 | 0.059 | 68.0 | 0.047 | 88.5 | 0.000 |
| 1.2 | 0.992 | 9.4 | 0.659 | 27.5 | 0.200 | 48.0 | 0.064 | 68.5 | 0.045 | 89.0 | 0.000 |
| 1.4 | 0.990 | 9.6 | 0.646 | 28.0 | 0.202 | 48.5 | 0.068 | 69.0 | 0.043 | 89.5 | 0.000 |
| 1.6 | 0.988 | 9.8 | 0.633 | 28.5 | 0.204 | 49.0 | 0.072 | 69.5 | 0.042 | 90.0 | 0.000 |
| 1.8 | 0.985 | 10.0 | 0.620 | 29.0 | 0.204 | 49.5 | 0.076 | 70.0 | 0.039 | | |
| 2.0 | 0.982 | 10.2 | 0.607 | 29.5 | 0.203 | 50.0 | 0.079 | 70.5 | 0.037 | | |
| 2.2 | 0.978 | 10.4 | 0.593 | 30.0 | 0.201 | 50.5 | 0.081 | 71.0 | 0.035 | | |

Elevação 4 Nível



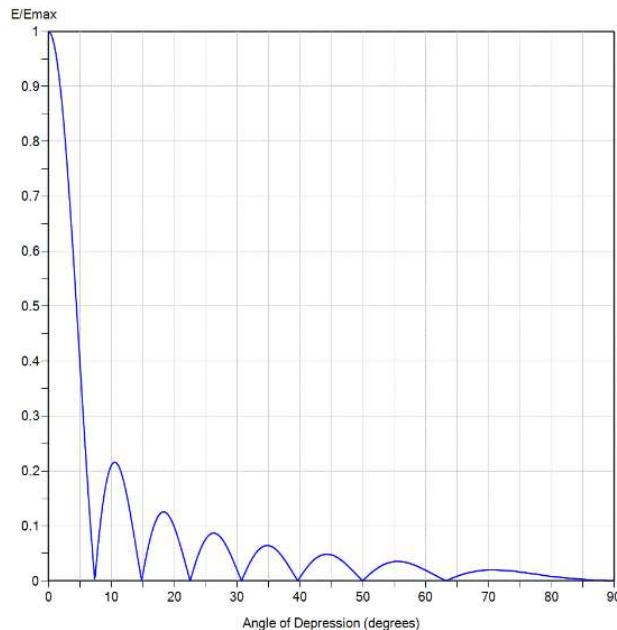
| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.389 | 2.4 | 0.955 | 10.6 | 0.337 | 30.5 | 0.005 | 51.0 | 0.012 | 71.5 | 0.031 |
| -9.5 | 0.435 | 2.6 | 0.948 | 10.8 | 0.319 | 31.0 | 0.009 | 51.5 | 0.017 | 72.0 | 0.029 |
| -9.0 | 0.481 | 2.8 | 0.940 | 11.0 | 0.301 | 31.5 | 0.022 | 52.0 | 0.022 | 72.5 | 0.028 |
| -8.5 | 0.526 | 3.0 | 0.932 | 11.5 | 0.256 | 32.0 | 0.034 | 52.5 | 0.026 | 73.0 | 0.026 |
| -8.0 | 0.572 | 3.2 | 0.922 | 12.0 | 0.213 | 32.5 | 0.046 | 53.0 | 0.030 | 73.5 | 0.025 |
| -7.5 | 0.616 | 3.4 | 0.912 | 12.5 | 0.170 | 33.0 | 0.056 | 53.5 | 0.034 | 74.0 | 0.024 |
| -7.0 | 0.659 | 3.6 | 0.902 | 13.0 | 0.130 | 33.5 | 0.066 | 54.0 | 0.038 | 74.5 | 0.022 |
| -6.5 | 0.700 | 3.8 | 0.891 | 13.5 | 0.091 | 34.0 | 0.075 | 54.5 | 0.041 | 75.0 | 0.020 |
| -6.0 | 0.741 | 4.0 | 0.880 | 14.0 | 0.054 | 34.5 | 0.083 | 55.0 | 0.044 | 75.5 | 0.019 |
| -5.5 | 0.778 | 4.2 | 0.869 | 14.5 | 0.019 | 35.0 | 0.090 | 55.5 | 0.047 | 76.0 | 0.018 |
| -5.0 | 0.814 | 4.4 | 0.857 | 15.0 | 0.014 | 35.5 | 0.096 | 56.0 | 0.050 | 76.5 | 0.017 |
| -4.5 | 0.847 | 4.6 | 0.844 | 15.5 | 0.045 | 36.0 | 0.101 | 56.5 | 0.052 | 77.0 | 0.015 |
| -4.0 | 0.878 | 4.8 | 0.831 | 16.0 | 0.073 | 36.5 | 0.106 | 57.0 | 0.054 | 77.5 | 0.014 |
| -3.5 | 0.905 | 5.0 | 0.818 | 16.5 | 0.098 | 37.0 | 0.109 | 57.5 | 0.055 | 78.0 | 0.013 |
| -3.0 | 0.929 | 5.2 | 0.804 | 17.0 | 0.121 | 37.5 | 0.111 | 58.0 | 0.056 | 78.5 | 0.012 |
| -2.8 | 0.937 | 5.4 | 0.790 | 17.5 | 0.141 | 38.0 | 0.112 | 58.5 | 0.057 | 79.0 | 0.011 |
| -2.6 | 0.945 | 5.6 | 0.775 | 18.0 | 0.159 | 38.5 | 0.113 | 59.0 | 0.058 | 79.5 | 0.010 |
| -2.4 | 0.953 | 5.8 | 0.760 | 18.5 | 0.174 | 39.0 | 0.113 | 59.5 | 0.059 | 80.0 | 0.009 |
| -2.2 | 0.960 | 6.0 | 0.744 | 19.0 | 0.186 | 39.5 | 0.112 | 60.0 | 0.059 | 80.5 | 0.008 |
| -2.0 | 0.967 | 6.2 | 0.729 | 19.5 | 0.196 | 40.0 | 0.110 | 60.5 | 0.059 | 81.0 | 0.008 |
| -1.8 | 0.972 | 6.4 | 0.713 | 20.0 | 0.203 | 40.5 | 0.107 | 61.0 | 0.059 | 81.5 | 0.007 |
| -1.6 | 0.978 | 6.6 | 0.696 | 20.5 | 0.208 | 41.0 | 0.104 | 61.5 | 0.059 | 82.0 | 0.006 |
| -1.4 | 0.983 | 6.8 | 0.680 | 21.0 | 0.210 | 41.5 | 0.100 | 62.0 | 0.058 | 82.5 | 0.005 |
| -1.2 | 0.987 | 7.0 | 0.663 | 21.5 | 0.210 | 42.0 | 0.096 | 62.5 | 0.057 | 83.0 | 0.005 |
| -1.0 | 0.991 | 7.2 | 0.646 | 22.0 | 0.209 | 42.5 | 0.091 | 63.0 | 0.057 | 83.5 | 0.004 |
| -0.8 | 0.994 | 7.4 | 0.628 | 22.5 | 0.205 | 43.0 | 0.086 | 63.5 | 0.056 | 84.0 | 0.004 |
| -0.6 | 0.996 | 7.6 | 0.611 | 23.0 | 0.199 | 43.5 | 0.081 | 64.0 | 0.054 | 84.5 | 0.003 |
| -0.4 | 0.997 | 7.8 | 0.593 | 23.5 | 0.192 | 44.0 | 0.075 | 64.5 | 0.053 | 85.0 | 0.003 |
| -0.2 | 0.999 | 8.0 | 0.575 | 24.0 | 0.183 | 44.5 | 0.069 | 65.0 | 0.052 | 85.5 | 0.002 |
| 0.0 | 0.999 | 8.2 | 0.557 | 24.5 | 0.173 | 45.0 | 0.063 | 65.5 | 0.051 | 86.0 | 0.002 |
| 0.2 | 0.999 | 8.4 | 0.539 | 25.0 | 0.162 | 45.5 | 0.056 | 66.0 | 0.049 | 86.5 | 0.001 |
| 0.4 | 0.997 | 8.6 | 0.521 | 25.5 | 0.150 | 46.0 | 0.050 | 66.5 | 0.048 | 87.0 | 0.001 |
| 0.6 | 0.996 | 8.8 | 0.503 | 26.0 | 0.136 | 46.5 | 0.043 | 67.0 | 0.046 | 87.5 | 0.001 |
| 0.8 | 0.994 | 9.0 | 0.485 | 26.5 | 0.123 | 47.0 | 0.037 | 67.5 | 0.044 | 88.0 | 0.001 |
| 1.0 | 0.991 | 9.2 | 0.466 | 27.0 | 0.108 | 47.5 | 0.030 | 68.0 | 0.043 | 88.5 | 0.000 |
| 1.2 | 0.987 | 9.4 | 0.448 | 27.5 | 0.093 | 48.0 | 0.024 | 68.5 | 0.041 | 89.0 | 0.000 |
| 1.4 | 0.984 | 9.6 | 0.429 | 28.0 | 0.078 | 48.5 | 0.017 | 69.0 | 0.040 | 89.5 | 0.000 |
| 1.6 | 0.979 | 9.8 | 0.411 | 28.5 | 0.063 | 49.0 | 0.011 | 69.5 | 0.038 | 90.0 | 0.000 |
| 1.8 | 0.974 | 10.0 | 0.392 | 29.0 | 0.048 | 49.5 | 0.005 | 70.0 | 0.037 | | |
| 2.0 | 0.968 | 10.2 | 0.374 | 29.5 | 0.033 | 50.0 | 0.001 | 70.5 | 0.035 | | |
| 2.2 | 0.962 | 10.4 | 0.355 | 30.0 | 0.019 | 50.5 | 0.006 | 71.0 | 0.033 | | |

Elevação 6 Nível



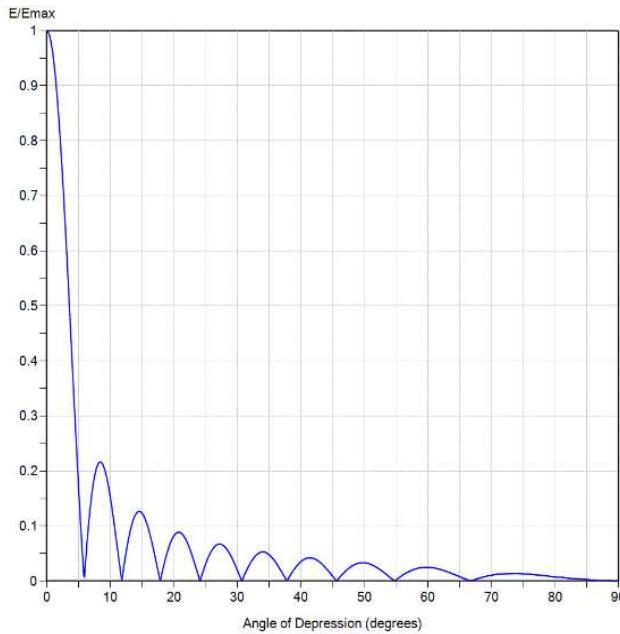
| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.020 | 2.4 | 0.902 | 10.6 | 0.074 | 30.5 | 0.005 | 51.0 | 0.053 | 71.5 | 0.026 |
| -9.5 | 0.030 | 2.6 | 0.886 | 10.8 | 0.090 | 31.0 | 0.009 | 51.5 | 0.050 | 72.0 | 0.025 |
| -9.0 | 0.085 | 2.8 | 0.869 | 11.0 | 0.105 | 31.5 | 0.022 | 52.0 | 0.048 | 72.5 | 0.024 |
| -8.5 | 0.145 | 3.0 | 0.851 | 11.5 | 0.139 | 32.0 | 0.034 | 52.5 | 0.045 | 73.0 | 0.023 |
| -8.0 | 0.208 | 3.2 | 0.831 | 12.0 | 0.166 | 32.5 | 0.044 | 53.0 | 0.042 | 73.5 | 0.022 |
| -7.5 | 0.274 | 3.4 | 0.811 | 12.5 | 0.187 | 33.0 | 0.054 | 53.5 | 0.038 | 74.0 | 0.021 |
| -7.0 | 0.342 | 3.6 | 0.789 | 13.0 | 0.202 | 33.5 | 0.062 | 54.0 | 0.034 | 74.5 | 0.020 |
| -6.5 | 0.412 | 3.8 | 0.767 | 13.5 | 0.211 | 34.0 | 0.069 | 54.5 | 0.030 | 75.0 | 0.019 |
| -6.0 | 0.481 | 4.0 | 0.744 | 14.0 | 0.215 | 34.5 | 0.075 | 55.0 | 0.026 | 75.5 | 0.018 |
| -5.5 | 0.550 | 4.2 | 0.721 | 14.5 | 0.213 | 35.0 | 0.079 | 55.5 | 0.022 | 76.0 | 0.016 |
| -5.0 | 0.617 | 4.4 | 0.696 | 15.0 | 0.206 | 35.5 | 0.081 | 56.0 | 0.018 | 76.5 | 0.015 |
| -4.5 | 0.681 | 4.6 | 0.671 | 15.5 | 0.195 | 36.0 | 0.082 | 56.5 | 0.014 | 77.0 | 0.014 |
| -4.0 | 0.742 | 4.8 | 0.646 | 16.0 | 0.180 | 36.5 | 0.082 | 57.0 | 0.010 | 77.5 | 0.013 |
| -3.5 | 0.798 | 5.0 | 0.620 | 16.5 | 0.161 | 37.0 | 0.080 | 57.5 | 0.006 | 78.0 | 0.013 |
| -3.0 | 0.848 | 5.2 | 0.593 | 17.0 | 0.140 | 37.5 | 0.077 | 58.0 | 0.002 | 78.5 | 0.011 |
| -2.8 | 0.867 | 5.4 | 0.566 | 17.5 | 0.117 | 38.0 | 0.072 | 58.5 | 0.002 | 79.0 | 0.010 |
| -2.6 | 0.884 | 5.6 | 0.539 | 18.0 | 0.093 | 38.5 | 0.067 | 59.0 | 0.005 | 79.5 | 0.009 |
| -2.4 | 0.900 | 5.8 | 0.511 | 18.5 | 0.068 | 39.0 | 0.061 | 59.5 | 0.009 | 80.0 | 0.008 |
| -2.2 | 0.915 | 6.0 | 0.484 | 19.0 | 0.043 | 39.5 | 0.054 | 60.0 | 0.012 | 80.5 | 0.008 |
| -2.0 | 0.929 | 6.2 | 0.456 | 19.5 | 0.018 | 40.0 | 0.047 | 60.5 | 0.015 | 81.0 | 0.008 |
| -1.8 | 0.942 | 6.4 | 0.428 | 20.0 | 0.005 | 40.5 | 0.039 | 61.0 | 0.017 | 81.5 | 0.007 |
| -1.6 | 0.954 | 6.6 | 0.400 | 20.5 | 0.028 | 41.0 | 0.031 | 61.5 | 0.020 | 82.0 | 0.006 |
| -1.4 | 0.964 | 6.8 | 0.372 | 21.0 | 0.048 | 41.5 | 0.022 | 62.0 | 0.022 | 82.5 | 0.005 |
| -1.2 | 0.973 | 7.0 | 0.344 | 21.5 | 0.067 | 42.0 | 0.014 | 62.5 | 0.024 | 83.0 | 0.005 |
| -1.0 | 0.981 | 7.2 | 0.317 | 22.0 | 0.083 | 42.5 | 0.006 | 63.0 | 0.026 | 83.5 | 0.004 |
| -0.8 | 0.987 | 7.4 | 0.289 | 22.5 | 0.097 | 43.0 | 0.002 | 63.5 | 0.027 | 84.0 | 0.004 |
| -0.6 | 0.992 | 7.6 | 0.262 | 23.0 | 0.107 | 43.5 | 0.010 | 64.0 | 0.028 | 84.5 | 0.003 |
| -0.4 | 0.996 | 7.8 | 0.236 | 23.5 | 0.115 | 44.0 | 0.017 | 64.5 | 0.030 | 85.0 | 0.003 |
| -0.2 | 0.998 | 8.0 | 0.209 | 24.0 | 0.120 | 44.5 | 0.024 | 65.0 | 0.030 | 85.5 | 0.002 |
| 0.0 | 0.999 | 8.2 | 0.184 | 24.5 | 0.123 | 45.0 | 0.030 | 65.5 | 0.031 | 86.0 | 0.002 |
| 0.2 | 0.998 | 8.4 | 0.158 | 25.0 | 0.122 | 45.5 | 0.036 | 66.0 | 0.031 | 86.5 | 0.001 |
| 0.4 | 0.996 | 8.6 | 0.134 | 25.5 | 0.119 | 46.0 | 0.041 | 66.5 | 0.031 | 87.0 | 0.001 |
| 0.6 | 0.992 | 8.8 | 0.109 | 26.0 | 0.114 | 46.5 | 0.045 | 67.0 | 0.031 | 87.5 | 0.001 |
| 0.8 | 0.987 | 9.0 | 0.086 | 26.5 | 0.107 | 47.0 | 0.049 | 67.5 | 0.031 | 88.0 | 0.001 |
| 1.0 | 0.981 | 9.2 | 0.063 | 27.0 | 0.097 | 47.5 | 0.051 | 68.0 | 0.031 | 88.5 | 0.000 |
| 1.2 | 0.974 | 9.4 | 0.041 | 27.5 | 0.086 | 48.0 | 0.054 | 68.5 | 0.031 | 89.0 | 0.000 |
| 1.4 | 0.965 | 9.6 | 0.020 | 28.0 | 0.074 | 48.5 | 0.055 | 69.0 | 0.030 | 89.5 | 0.000 |
| 1.6 | 0.955 | 9.8 | 0.001 | 28.5 | 0.061 | 49.0 | 0.056 | 69.5 | 0.030 | 90.0 | 0.000 |
| 1.8 | 0.944 | 10.0 | 0.020 | 29.0 | 0.047 | 49.5 | 0.056 | 70.0 | 0.029 | | |
| 2.0 | 0.931 | 10.2 | 0.039 | 29.5 | 0.033 | 50.0 | 0.055 | 70.5 | 0.028 | | |
| 2.2 | 0.917 | 10.4 | 0.057 | 30.0 | 0.019 | 50.5 | 0.054 | 71.0 | 0.027 | | |

Elevação 8 Nível



| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.209 | 2.4 | 0.831 | 10.6 | 0.216 | 30.5 | 0.005 | 51.0 | 0.012 | 71.5 | 0.020 |
| -9.5 | 0.194 | 2.6 | 0.804 | 10.8 | 0.214 | 31.0 | 0.009 | 51.5 | 0.016 | 72.0 | 0.019 |
| -9.0 | 0.167 | 2.8 | 0.775 | 11.0 | 0.211 | 31.5 | 0.021 | 52.0 | 0.021 | 72.5 | 0.019 |
| -8.5 | 0.130 | 3.0 | 0.745 | 11.5 | 0.198 | 32.0 | 0.033 | 52.5 | 0.025 | 73.0 | 0.018 |
| -8.0 | 0.082 | 3.2 | 0.713 | 12.0 | 0.178 | 32.5 | 0.043 | 53.0 | 0.028 | 73.5 | 0.018 |
| -7.5 | 0.023 | 3.4 | 0.680 | 12.5 | 0.151 | 33.0 | 0.051 | 53.5 | 0.031 | 74.0 | 0.018 |
| -7.0 | 0.046 | 3.6 | 0.646 | 13.0 | 0.121 | 33.5 | 0.058 | 54.0 | 0.033 | 74.5 | 0.017 |
| -6.5 | 0.123 | 3.8 | 0.611 | 13.5 | 0.087 | 34.0 | 0.062 | 54.5 | 0.034 | 75.0 | 0.016 |
| -6.0 | 0.207 | 4.0 | 0.575 | 14.0 | 0.053 | 34.5 | 0.064 | 55.0 | 0.035 | 75.5 | 0.015 |
| -5.5 | 0.296 | 4.2 | 0.539 | 14.5 | 0.019 | 35.0 | 0.064 | 55.5 | 0.035 | 76.0 | 0.015 |
| -5.0 | 0.388 | 4.4 | 0.502 | 15.0 | 0.014 | 35.5 | 0.062 | 56.0 | 0.035 | 76.5 | 0.014 |
| -4.5 | 0.481 | 4.6 | 0.465 | 15.5 | 0.044 | 36.0 | 0.059 | 56.5 | 0.034 | 77.0 | 0.013 |
| -4.0 | 0.573 | 4.8 | 0.428 | 16.0 | 0.070 | 36.5 | 0.053 | 57.0 | 0.033 | 77.5 | 0.012 |
| -3.5 | 0.661 | 5.0 | 0.390 | 16.5 | 0.092 | 37.0 | 0.047 | 57.5 | 0.032 | 78.0 | 0.012 |
| -3.0 | 0.742 | 5.2 | 0.353 | 17.0 | 0.108 | 37.5 | 0.039 | 58.0 | 0.030 | 78.5 | 0.011 |
| -2.8 | 0.773 | 5.4 | 0.316 | 17.5 | 0.119 | 38.0 | 0.030 | 58.5 | 0.027 | 79.0 | 0.009 |
| -2.6 | 0.802 | 5.6 | 0.280 | 18.0 | 0.125 | 38.5 | 0.021 | 59.0 | 0.025 | 79.5 | 0.009 |
| -2.4 | 0.829 | 5.8 | 0.244 | 18.5 | 0.125 | 39.0 | 0.012 | 59.5 | 0.022 | 80.0 | 0.008 |
| -2.2 | 0.855 | 6.0 | 0.208 | 19.0 | 0.120 | 39.5 | 0.002 | 60.0 | 0.019 | 80.5 | 0.008 |
| -2.0 | 0.879 | 6.2 | 0.174 | 19.5 | 0.111 | 40.0 | 0.007 | 60.5 | 0.016 | 81.0 | 0.007 |
| -1.8 | 0.901 | 6.4 | 0.140 | 20.0 | 0.097 | 40.5 | 0.015 | 61.0 | 0.013 | 81.5 | 0.006 |
| -1.6 | 0.921 | 6.6 | 0.108 | 20.5 | 0.081 | 41.0 | 0.023 | 61.5 | 0.010 | 82.0 | 0.005 |
| -1.4 | 0.939 | 6.8 | 0.076 | 21.0 | 0.062 | 41.5 | 0.030 | 62.0 | 0.007 | 82.5 | 0.005 |
| -1.2 | 0.954 | 7.0 | 0.046 | 21.5 | 0.042 | 42.0 | 0.036 | 62.5 | 0.004 | 83.0 | 0.005 |
| -1.0 | 0.968 | 7.2 | 0.018 | 22.0 | 0.021 | 42.5 | 0.041 | 63.0 | 0.001 | 83.5 | 0.004 |
| -0.8 | 0.979 | 7.4 | 0.010 | 22.5 | 0.000 | 43.0 | 0.045 | 63.5 | 0.001 | 84.0 | 0.004 |
| -0.6 | 0.988 | 7.6 | 0.035 | 23.0 | 0.020 | 43.5 | 0.047 | 64.0 | 0.004 | 84.5 | 0.003 |
| -0.4 | 0.994 | 7.8 | 0.060 | 23.5 | 0.038 | 44.0 | 0.048 | 64.5 | 0.006 | 85.0 | 0.003 |
| -0.2 | 0.998 | 8.0 | 0.082 | 24.0 | 0.054 | 44.5 | 0.048 | 65.0 | 0.009 | 85.5 | 0.002 |
| 0.0 | 0.999 | 8.2 | 0.103 | 24.5 | 0.067 | 45.0 | 0.047 | 65.5 | 0.011 | 86.0 | 0.002 |
| 0.2 | 0.998 | 8.4 | 0.122 | 25.0 | 0.077 | 45.5 | 0.045 | 66.0 | 0.012 | 86.5 | 0.001 |
| 0.4 | 0.994 | 8.6 | 0.139 | 25.5 | 0.083 | 46.0 | 0.042 | 66.5 | 0.014 | 87.0 | 0.001 |
| 0.6 | 0.988 | 8.8 | 0.155 | 26.0 | 0.086 | 46.5 | 0.038 | 67.0 | 0.015 | 87.5 | 0.001 |
| 0.8 | 0.979 | 9.0 | 0.169 | 26.5 | 0.086 | 47.0 | 0.033 | 67.5 | 0.017 | 88.0 | 0.001 |
| 1.0 | 0.968 | 9.2 | 0.181 | 27.0 | 0.083 | 47.5 | 0.028 | 68.0 | 0.017 | 88.5 | 0.000 |
| 1.2 | 0.955 | 9.4 | 0.191 | 27.5 | 0.077 | 48.0 | 0.023 | 68.5 | 0.018 | 89.0 | 0.000 |
| 1.4 | 0.939 | 9.6 | 0.199 | 28.0 | 0.069 | 48.5 | 0.017 | 69.0 | 0.019 | 89.5 | 0.000 |
| 1.6 | 0.922 | 9.8 | 0.206 | 28.5 | 0.058 | 49.0 | 0.011 | 69.5 | 0.020 | 90.0 | 0.000 |
| 1.8 | 0.902 | 10.0 | 0.211 | 29.0 | 0.046 | 49.5 | 0.005 | 70.0 | 0.020 | | |
| 2.0 | 0.880 | 10.2 | 0.214 | 29.5 | 0.033 | 50.0 | 0.001 | 70.5 | 0.020 | | |
| 2.2 | 0.857 | 10.4 | 0.216 | 30.0 | 0.019 | 50.5 | 0.006 | 71.0 | 0.020 | | |

Elevação 10 Nível



| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.149 | 2.4 | 0.744 | 10.6 | 0.102 | 30.5 | 0.005 | 51.0 | 0.030 | 71.5 | 0.013 |
| -9.5 | 0.181 | 2.6 | 0.705 | 10.8 | 0.085 | 31.0 | 0.009 | 51.5 | 0.027 | 72.0 | 0.013 |
| -9.0 | 0.204 | 2.8 | 0.663 | 11.0 | 0.067 | 31.5 | 0.021 | 52.0 | 0.024 | 72.5 | 0.013 |
| -8.5 | 0.214 | 3.0 | 0.620 | 11.5 | 0.023 | 32.0 | 0.032 | 52.5 | 0.020 | 73.0 | 0.014 |
| -8.0 | 0.210 | 3.2 | 0.575 | 12.0 | 0.018 | 32.5 | 0.041 | 53.0 | 0.016 | 73.5 | 0.014 |
| -7.5 | 0.189 | 3.4 | 0.529 | 12.5 | 0.055 | 33.0 | 0.048 | 53.5 | 0.011 | 74.0 | 0.014 |
| -7.0 | 0.151 | 3.6 | 0.483 | 13.0 | 0.086 | 33.5 | 0.052 | 54.0 | 0.007 | 74.5 | 0.014 |
| -6.5 | 0.096 | 3.8 | 0.436 | 13.5 | 0.108 | 34.0 | 0.053 | 54.5 | 0.002 | 75.0 | 0.013 |
| -6.0 | 0.024 | 4.0 | 0.390 | 14.0 | 0.122 | 34.5 | 0.051 | 55.0 | 0.003 | 75.5 | 0.013 |
| -5.5 | 0.064 | 4.2 | 0.343 | 14.5 | 0.127 | 35.0 | 0.048 | 55.5 | 0.007 | 76.0 | 0.012 |
| -5.0 | 0.164 | 4.4 | 0.297 | 15.0 | 0.123 | 35.5 | 0.042 | 56.0 | 0.011 | 76.5 | 0.012 |
| -4.5 | 0.273 | 4.6 | 0.252 | 15.5 | 0.111 | 36.0 | 0.034 | 56.5 | 0.014 | 77.0 | 0.011 |
| -4.0 | 0.389 | 4.8 | 0.208 | 16.0 | 0.094 | 36.5 | 0.025 | 57.0 | 0.017 | 77.5 | 0.011 |
| -3.5 | 0.505 | 5.0 | 0.165 | 16.5 | 0.071 | 37.0 | 0.015 | 57.5 | 0.020 | 78.0 | 0.010 |
| -3.0 | 0.618 | 5.2 | 0.123 | 17.0 | 0.045 | 37.5 | 0.005 | 58.0 | 0.022 | 78.5 | 0.010 |
| -2.8 | 0.661 | 5.4 | 0.083 | 17.5 | 0.018 | 38.0 | 0.005 | 58.5 | 0.023 | 79.0 | 0.009 |
| -2.6 | 0.703 | 5.6 | 0.045 | 18.0 | 0.009 | 38.5 | 0.014 | 59.0 | 0.024 | 79.5 | 0.008 |
| -2.4 | 0.743 | 5.8 | 0.010 | 18.5 | 0.034 | 39.0 | 0.023 | 59.5 | 0.025 | 80.0 | 0.007 |
| -2.2 | 0.780 | 6.0 | 0.024 | 19.0 | 0.055 | 39.5 | 0.030 | 60.0 | 0.025 | 80.5 | 0.007 |
| -2.0 | 0.816 | 6.2 | 0.055 | 19.5 | 0.071 | 40.0 | 0.036 | 60.5 | 0.024 | 81.0 | 0.007 |
| -1.8 | 0.849 | 6.4 | 0.083 | 20.0 | 0.083 | 40.5 | 0.039 | 61.0 | 0.024 | 81.5 | 0.006 |
| -1.6 | 0.879 | 6.6 | 0.109 | 20.5 | 0.088 | 41.0 | 0.042 | 61.5 | 0.022 | 82.0 | 0.005 |
| -1.4 | 0.906 | 6.8 | 0.132 | 21.0 | 0.088 | 41.5 | 0.042 | 62.0 | 0.021 | 82.5 | 0.005 |
| -1.2 | 0.930 | 7.0 | 0.152 | 21.5 | 0.082 | 42.0 | 0.041 | 62.5 | 0.019 | 83.0 | 0.004 |
| -1.0 | 0.951 | 7.2 | 0.170 | 22.0 | 0.072 | 42.5 | 0.038 | 63.0 | 0.017 | 83.5 | 0.004 |
| -0.8 | 0.968 | 7.4 | 0.184 | 22.5 | 0.058 | 43.0 | 0.034 | 63.5 | 0.015 | 84.0 | 0.004 |
| -0.6 | 0.981 | 7.6 | 0.196 | 23.0 | 0.041 | 43.5 | 0.029 | 64.0 | 0.012 | 84.5 | 0.003 |
| -0.4 | 0.991 | 7.8 | 0.205 | 23.5 | 0.022 | 44.0 | 0.022 | 64.5 | 0.010 | 85.0 | 0.003 |
| -0.2 | 0.997 | 8.0 | 0.212 | 24.0 | 0.003 | 44.5 | 0.015 | 65.0 | 0.008 | 85.5 | 0.002 |
| 0.0 | 0.999 | 8.2 | 0.215 | 24.5 | 0.015 | 45.0 | 0.008 | 65.5 | 0.005 | 86.0 | 0.002 |
| 0.2 | 0.997 | 8.4 | 0.216 | 25.0 | 0.032 | 45.5 | 0.001 | 66.0 | 0.003 | 86.5 | 0.001 |
| 0.4 | 0.991 | 8.6 | 0.215 | 25.5 | 0.046 | 46.0 | 0.006 | 66.5 | 0.001 | 87.0 | 0.001 |
| 0.6 | 0.981 | 8.8 | 0.211 | 26.0 | 0.057 | 46.5 | 0.012 | 67.0 | 0.001 | 87.5 | 0.001 |
| 0.8 | 0.968 | 9.0 | 0.206 | 26.5 | 0.064 | 47.0 | 0.018 | 67.5 | 0.003 | 88.0 | 0.001 |
| 1.0 | 0.951 | 9.2 | 0.198 | 27.0 | 0.067 | 47.5 | 0.023 | 68.0 | 0.005 | 88.5 | 0.000 |
| 1.2 | 0.931 | 9.4 | 0.188 | 27.5 | 0.066 | 48.0 | 0.027 | 68.5 | 0.007 | 89.0 | 0.000 |
| 1.4 | 0.907 | 9.6 | 0.177 | 28.0 | 0.062 | 48.5 | 0.030 | 69.0 | 0.008 | 89.5 | 0.000 |
| 1.6 | 0.880 | 9.8 | 0.164 | 28.5 | 0.054 | 49.0 | 0.032 | 69.5 | 0.010 | 90.0 | 0.000 |
| 1.8 | 0.850 | 10.0 | 0.150 | 29.0 | 0.044 | 49.5 | 0.033 | 70.0 | 0.011 | | |
| 2.0 | 0.818 | 10.2 | 0.135 | 29.5 | 0.032 | 50.0 | 0.033 | 70.5 | 0.012 | | |
| 2.2 | 0.782 | 10.4 | 0.119 | 30.0 | 0.019 | 50.5 | 0.032 | 71.0 | 0.012 | | |