

Sheet1

| Ts        | alpha       | mu | beta | phi         | chip thick  | Fc                 |
|-----------|-------------|----|------|-------------|-------------|--------------------|
| 400000000 | 0.174532925 |    | 0.3  | 0.291456794 | 0.726936229 | 0.0001 90561.80692 |
| 400000000 | 0.174532925 |    | 0.32 | 0.309702945 | 0.717813154 | 0.0001 92454.86363 |
| 400000000 | 0.174532925 |    | 0.34 | 0.327738507 | 0.708795373 | 0.0001 94400.09673 |
| 400000000 | 0.174532925 |    | 0.36 | 0.345555581 | 0.699886836 | 0.0001 96397.57447 |
| 400000000 | 0.174532925 |    | 0.38 | 0.36314701  | 0.691091121 | 0.0001 98447.2822  |
| 400000000 | 0.174532925 |    | 0.4  | 0.380506377 | 0.682411437 | 0.0001 100549.1197 |
| 400000000 | 0.174532925 |    | 0.42 | 0.397627992 | 0.67385063  | 0.0001 102702.8982 |
| 400000000 | 0.174532925 |    | 0.44 | 0.414506875 | 0.665411189 | 0.0001 104908.3384 |
| 400000000 | 0.174532925 |    | 0.46 | 0.431138741 | 0.657095256 | 0.0001 107165.0673 |
| 400000000 | 0.174532925 |    | 0.48 | 0.447519975 | 0.648904638 | 0.0001 109472.6164 |
| 400000000 | 0.174532925 |    | 0.5  | 0.463647609 | 0.640840821 | 0.0001 111830.4195 |
| 400000000 | 0.174532925 |    | 0.52 | 0.479519292 | 0.63290498  | 0.0001 114237.8108 |
| 400000000 | 0.174532925 |    | 0.54 | 0.495133263 | 0.625097994 | 0.0001 116694.0229 |
| 400000000 | 0.174532925 |    | 0.56 | 0.510488322 | 0.617420465 | 0.0001 119198.1852 |
| 400000000 | 0.174532925 |    | 0.58 | 0.525583794 | 0.609872729 | 0.0001 121749.3227 |
| 400000000 | 0.174532925 |    | 0.6  | 0.5404195   | 0.602454876 | 0.0001 124346.3547 |
| 400000000 | 0.174532925 |    | 0.62 | 0.554995727 | 0.595166762 | 0.0001 126988.0934 |
| 400000000 | 0.174532925 |    | 0.64 | 0.569313191 | 0.58800803  | 0.0001 129673.2434 |
| 400000000 | 0.174532925 |    | 0.66 | 0.583373007 | 0.580978123 | 0.0001 132400.4008 |
| 400000000 | 0.174532925 |    | 0.68 | 0.597176658 | 0.574076297 | 0.0001 135168.0527 |
| 400000000 | 0.174532925 |    | 0.7  | 0.610725964 | 0.567301644 | 0.0001 137974.5771 |
| 400000000 | 0.174532925 |    | 0.72 | 0.624023053 | 0.5606531   | 0.0001 140818.2423 |
| 400000000 | 0.174532925 |    | 0.74 | 0.637070329 | 0.554129461 | 0.0001 143697.2077 |
| 400000000 | 0.174532925 |    | 0.76 | 0.649870449 | 0.547729401 | 0.0001 146609.5233 |
| 400000000 | 0.174532925 |    | 0.78 | 0.662426294 | 0.541451479 | 0.0001 149553.1307 |
| 400000000 | 0.174532925 |    | 0.8  | 0.674740942 | 0.535294155 | 0.0001 152525.8635 |
| 400000000 | 0.174532925 |    | 0.82 | 0.68681765  | 0.529255801 | 0.0001 155525.4479 |
| 400000000 | 0.174532925 |    | 0.84 | 0.698659825 | 0.523334714 | 0.0001 158549.5042 |
| 400000000 | 0.174532925 |    | 0.86 | 0.710271007 | 0.517529122 | 0.0001 161595.5478 |
| 400000000 | 0.174532925 |    | 0.88 | 0.721654851 | 0.511837201 | 0.0001 164660.9901 |
| 400000000 | 0.174532925 |    | 0.9  | 0.732815102 | 0.506257075 | 0.0001 167743.1408 |
| 400000000 | 0.174532925 |    | 0.92 | 0.743755584 | 0.500786834 | 0.0001 170839.2088 |
| 400000000 | 0.174532925 |    | 0.94 | 0.754480184 | 0.495424534 | 0.0001 173946.3046 |
| 400000000 | 0.174532925 |    | 0.96 | 0.764992833 | 0.49016821  | 0.0001 177061.4422 |
| 400000000 | 0.174532925 |    | 0.98 | 0.775297497 | 0.485015878 | 0.0001 180181.541  |
| 400000000 | 0.174532925 |    | 1    | 0.785398163 | 0.479965544 | 0.0001 183303.4283 |

### Variation of $F_c$ with $\mu$



