

$$\begin{aligned}
a0 &= 1.0063094352008954; \\
a1 &= 9.62881296190228110^{-8}; \\
a2 &= 0.0005514410719421048\psi^{0.34}; \\
a3 &= -0.004497143206083853\psi^{0.68}; \\
a4 &= 0.014661796511084457\psi; \\
a5 &= -0.021507086025525535\psi^{1.36}; \\
a6 &= 0.01168381738122104\psi^{1.7}; \\
a7 &= -4.66717043383214710^{-7}; \\
a8 &= -0.08754409269479117\psi^{0.34}; \\
a9 &= 0.7133541391128998\psi^{0.68}; \\
a10 &= -2.3250696647238978\psi; \\
a11 &= 3.786714506237929\psi^{1.36}; \\
a12 &= -3.0797308669390273\psi^{1.7}; \\
a13 &= \psi^2; \\
b0 &= \frac{(a1+a2+a3+a4+a5+a6)}{(a7+a8+a9+a10+a11+a12+a13)}; \\
\text{integrand} &= a0 + b0 \\
&= 1.00631 + (9.62881 \times 10^{-8} + 0.000551441\psi^{0.34} - 0.00449714\psi^{0.68} + \\
&\quad 0.0146618\psi - 0.0215071\psi^{1.36} + 0.0116838\psi^{1.7}) / \\
&\quad (-4.66717 \times 10^{-7} - 0.0875441\psi^{0.34} + 0.713354\psi^{0.68} - \\
&\quad 2.32507\psi + 3.78671\psi^{1.36} - 3.07973\psi^{1.7} + \psi^2) \\
&\int_0^{\pi/2} \text{integrand} d\psi
\end{aligned}$$