```
reduce_factorization_bound  THM

⊢  ∀a,b:ℤ, f:({a..b⁻}→ℕ), j:{a..b⁻}.
   0<f(j) ⇒ (∀i:{a..b⁻}. reduce_factorization(f; j)(i)≤f(i))
  by Compute
       ⌈reduce_factorization(f; j)(i)⌉ *⇒ if i=₂j→ f(i)-1 else f(i) fi
     THEN
     SplitOnConclITE
END
```