```
function range = range(aircraft,LtoD,v)
\ensuremath{\$} RANGE Computes the range when flying at a constant altitude.
   Inputs are:
   aircraft :a struct aircraft data in SI
   LtoD :a numeric array of Mx1 lift to drag ratio
             :a numeric array of Mx1 cruise speed in m/s
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  Output is:
  range
          :a numeric array of Mx1 range in m
   arguments
       aircraft {mustBeA(aircraft, "struct")}
       LtoD (:,1) {mustBeNumeric, mustBeReal}
       v (:,1) {mustBeNumeric, mustBeReal}
   end
   TSFC = aircraft.TSFC;
   Wwet = aircraft.W;
   Wdry = aircraft.W-aircraft.W fuel;
   range = (v./TSFC).*LtoD.*log(Wwet./Wdry);
end
```