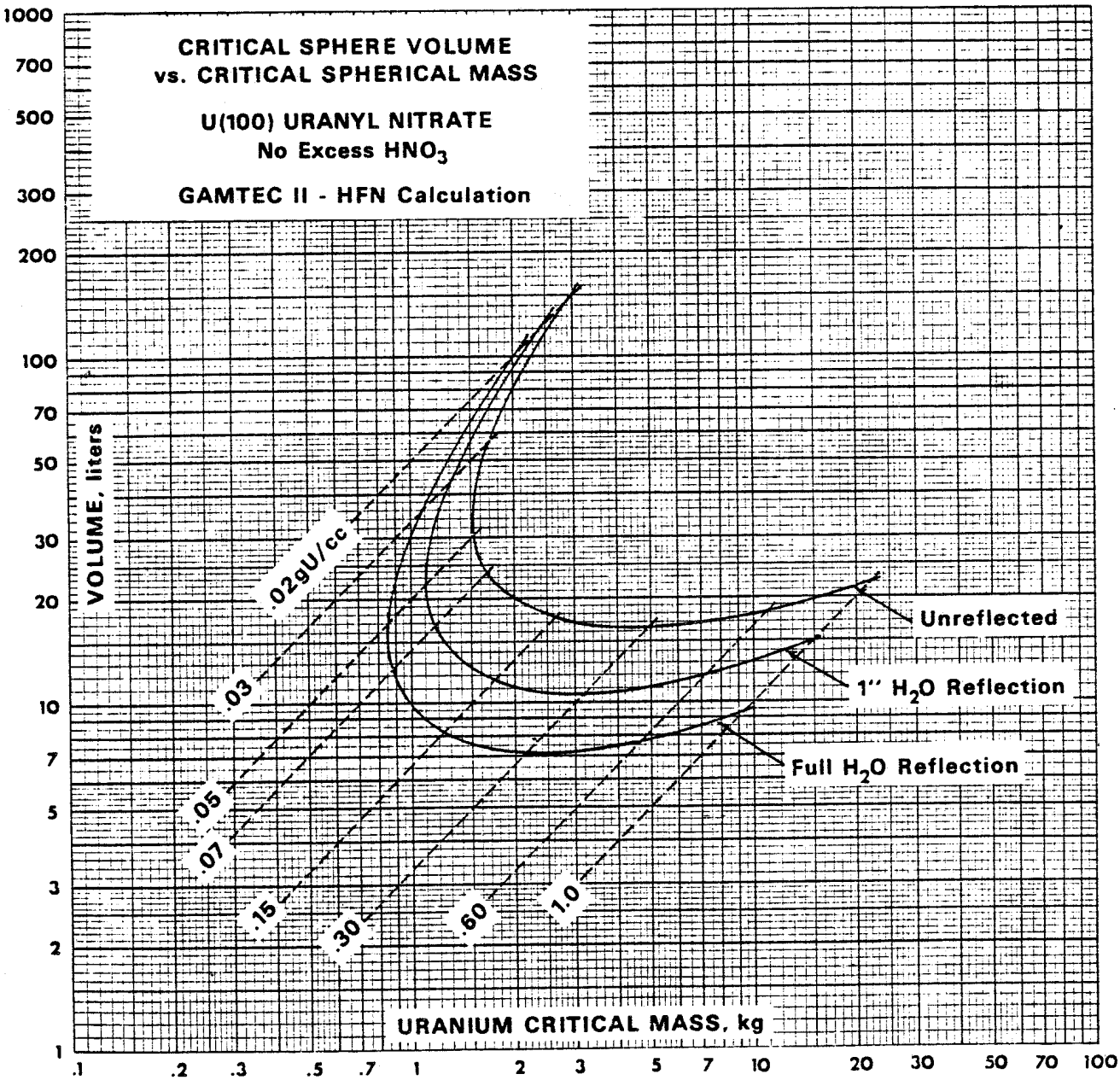
CRITICAL SPHERE VOLUME
vs. CRITICAL SPHERICAL MASS
U(100) URANYL NITRATE
No Excess HNO_3
GAMTEC II - HFN Calculation
VOLUME, liters
1000
700
500
300
200
100
70
50
30
20
10
7
5
3
2
1
.02gU/cc
.03
.05
.07
.15
.30
.60
1.0
Unreflected
1" H_2O Reflection
Full H_2O Reflection
URANIUM CRITICAL MASS, kg
.1
.2
.3
.5
.7
1
2
3
5
7
10
20
30
50
70
100