# Supplementary Material for Lombao et al. “Unravelling technological behaviors through core reduction intensity. The case of the early Protoaurignacian assemblage from Fumane Cave”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Cube | Cylinder | Ellipsoid | Experimental Data | Prism |
| Cylinder | 0.27 | - | - | - | - |
| Ellipsoid | <0.01 | 0.55 | - | - | - |
| Experimental Data | 1 | 1 | 0.12 |  | - |
| Prism | 1 | 0.13 | <0.01 | 0.58 |  |
| Sphere | <0.01 | 0.91 | 1 | 0.23 | <0.01 |

Supplementary Table S1. Dunn test post-hoc comparing the medians of Estimated Volume for each geometric formula and the real original volume.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Cube | Cylinder | Ellipsoid | Experimental Data | Prism |
| Cylinder | 0.47 | - | - | - | - |
| Ellipsoid | <0.01 | 0.02 | - | - | - |
| Experimental Data | 0.13 | 1 | 0.11 |  | - |
| Prism | 1 | 0.02 | <0.01 | <0.01 |  |
| Sphere | <0.01 | 0.07 | 1 | 0.28 | <0.01 |

Supplementary Table S2. Dunn test post-hoc comparing the medians of Percentage of Extracted Volume for each geometric formula and the real original volume.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Block** | **Flake** | **Nodule** | **Slab** | **Undetermined** | **Total** |
| Maiolica | 9  (9.89%) | 19  (20.88%) | 32  (35.16%) | 3  (3.30%) | 28  (30.77%) | 91  (73.39%) |
| Other | 1  (50%) |  |  |  | 1  (50%) | 2  (1.61%) |
| S\_Rossa |  |  | 1  (16.67%) |  | 5  (83.33%) | 6  (4.84%) |
| S\_Variegata | 4  (44.44%) | 1  (11.11%) | 2  (22.22%) | 1  (11.11%) | 1  (11.11%) | 9  (7.26%) |
| S\_Variegata 3 | 2  (12.5%) | 1  (6.25%) | 10  (62.5%) | 1  (6.25%) | 2  (12.5%) | 16  (12.9%) |
| **Total** | **16**  (12.9%) | **21**  **(16.94%)** | **45**  (16.94%) | **5**  **(4.03%)** | **37**  **(29.84%)** | **124**  **(100%)** |

Supplementary Table S3. Contingency table of raw material varieties and blank types for Cores from leves A1 and A2 of Fumane Cave.

|  |  |  |  |
| --- | --- | --- | --- |
| Raw Material | Total Cores | Total Products | Ratio Products/Cores |
| Maiolica | 91 | 4676 | 51.38 |
| Other | 2 | 517 | 258.5 |
| Scaglia Rossa | 6 | 397 | 66.16 |
| Scaglia Variegata | 9 | 621 | 69 |
| Scaglia Variegata Type 3 | 16 | 468 | 29.25 |

Supplementary Table S4. Number of total cores, total products, and ratio of total products/total cores for each raw material.