

| Reference | Sample | Country | Location1 | Location2 |
|----------------------|---------------|----------|----------------|-----------------------|
| MOSTMEG | G_MATOS#1 | Portugal | Iberian Massif | Matos |
| MOSTMEG | G_ZEB#1 | Portugal | Iberian Massif | Zebreira |
| MOSTMEG | G_ZEB#4 | Portugal | Iberian Massif | Zebreira |
| MOSTMEG | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira |
| Antunes et al., 2009 | NP | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| Antunes et al., 2009 | CARD1 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| Antunes et al., 2009 | PB | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| Antunes et al., 2009 | GPVI | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| Antunes et al., 2009 | REPA1 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| Antunes et al., 2009 | REPA2 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| MOSTMEG | G_IDN#5 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| Antunes et al., 2009 | CTV | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| Antunes et al., 2009 | IDN1 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| MOSTMEG | G_IDN#2 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| MOSTMEG | G_MDCH#1 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| MOSTMEG | G_BATÃO#1 | Portugal | Iberian Massif | Batão |
| MOSTMEG | G_STEX#2 | Portugal | Iberian Massif | Salvaterra do Extremc |
| MOSTMEG | G_SEG#1 | Portugal | Iberian Massif | Segura |
| MOSTMEG | G_SEG#2 | Portugal | Iberian Massif | Segura |
| MOSTMEG | G_SEG#4 | Portugal | Iberian Massif | Segura |
| MOSTMEG | G_MONS#2 | Portugal | Iberian Massif | Penamacor-Monsanto |
| MOSTMEG | G_MED#1 | Portugal | Iberian Massif | Penamacor-Monsanto |
| MOSTMEG | G_SEIXO#1 | Portugal | Iberian Massif | Orca |
| MOSTMEG | G_STC#1 | Portugal | Iberian Massif | Orca |
| Antunes et al., 2008 | GCL7 | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | GEB2 | Portugal | Iberian Massif | Castelo Branco |
| MOSTMEG | G_CB#5 | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | GIN | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | INFX2 | Portugal | Iberian Massif | Castelo Branco |

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|---------------------------|------------|----------|----------------|---------------------|
| Antunes et al., 2008 | PC | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | BCAL | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | ER | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | NAC | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | LARDO | Portugal | Iberian Massif | Castelo Branco |
| Antunes et al., 2008 | LC1 | Portugal | Iberian Massif | Castelo Branco |
| MOSTMEG | G_CB#3 | Portugal | Iberian Massif | Castelo Branco |
| MOSTMEG | G_FUN#2 | Portugal | Iberian Massif | Fundão |
| MOSTMEG | G_FUN#4 | Portugal | Iberian Massif | Fundão |
| MOSTMEG | G_LP#1 | Portugal | Iberian Massif | Fundão |
| MOSTMEG | G_CAP#1 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | 1 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | 4 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | 11 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | 15 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | 18 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | 19 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | Q1 | Portugal | Iberian Massif | Capinha |
| Gonçalves et al., 2020 | Q2 | Portugal | Iberian Massif | Capinha |
| MOSTMEG | G_ARG#1 | Portugal | Iberian Massif | Argemela |
| MOSTMEG | G_ARG#2 | Portugal | Iberian Massif | Argemela |
| Michaud & Pichavant, 2020 | A2 | Portugal | Iberian Massif | Argemela |
| Michaud & Pichavant, 2020 | A47 | Portugal | Iberian Massif | Argemela |
| MOSTMEG | SCB2#11 | Portugal | Iberian Massif | Panasqueira |
| MOSTMEG | SCB2#15 | Portugal | Iberian Massif | Panasqueira |
| MOSTMEG | Gf_SEG#3 | Portugal | Iberian Massif | Segura |
| MOSTMEG | Gf_SEG#5 | Portugal | Iberian Massif | Segura |
| MOSTMEG | Gf_MONS#1A | Portugal | Iberian Massif | Penamacor-Monsanto |
| MOSTMEG | Gf_STC#2 | Portugal | Iberian Massif | Orca |
| MOSTMEG | Gf_IDN#2 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| MOSTMEG | Gf_IDN#4 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |

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|---------|-----------|----------|----------------|---------------------|
| MOSTMEG | Gf_MDCH#1 | Portugal | Iberian Massif | Oledo-Idanha-a-Nova |
| MOSTMEG | Gf_ARG#1 | Portugal | Iberian Massif | Argemela |
| MOSTMEG | Gf_ARG#2 | Portugal | Iberian Massif | Argemela |
| MOSTMEG | CQ-4 Peg | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-4 Apl | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-5 Peg | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-5 Apl | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-6 Peg | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-6 Apl | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-9 Peg | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-9 Apl | Portugal | Iberian Massif | Segura |
| MOSTMEG | CQ-3 Lep | Portugal | Iberian Massif | Segura |
| MOSTMEG | P11_G | Portugal | Iberian Massif | Panasqueira |

DL (ppm)

References

- Antunes, I.M.; Neiva, A.M.; Silva, M.M.; Corfu, F. The genesis of I- and S-type granitoid rocks of the Early Ordovician Oledo pluton, Central Iberian Zone (central Portugal). *Lithos* 2008, 81, 1-14.
- Antunes, I.M.; Neiva, A.M.; Silva, M.M.; Corfu, F. Geochemistry of S-type granitic rocks from the reversely zoned Castelo Branco pluton (central Portugal). *Lithos* 2008, 81, 15-28.
- Gonçalves, A.; Sant'Ovaia, H.; Noronha, F. Geochemical Signature and Magnetic Fabric of Capinha Massif (Fundão, Central Portugal): Genesis, Emplacement and Reinterpretation. *Lithos* 2008, 81, 29-42.
- Michaud, J.A.S.; Pichavant, M. Magmatic fractionation and the magmatic-hydrothermal transition in rare metal granites: Evidence from Argemela (Central Portugal). *Lithos* 2008, 81, 43-56.

| Facies | Event | La | Ce | Pr | Nd | Sm |
|-----------------------|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Bt granodiorite | Cambrian-Ordovician | 37.30 | 73.50 | 8.79 | 34.30 | 6.01 |
| Two mica granodiorite | Cambrian-Ordovician | 16.40 | 37.80 | 4.50 | 17.60 | 4.00 |
| Ms granite | Cambrian-Ordovician | 1.68 | 3.97 | 0.48 | 1.77 | 0.66 |
| Granitic Porphyry | Cambrian-Ordovician | 39.20 | 72.90 | 7.84 | 27.20 | 4.53 |
| OIN-G1 | Cambrian-Ordovician | 18.93 | 43.85 | 4.82 | 20.35 | 4.23 |
| OIN-G1 | Cambrian-Ordovician | 26.30 | 56.70 | 6.85 | 27.00 | 5.50 |
| OIN-G2 | Cambrian-Ordovician | 11.15 | 25.65 | 3.33 | 13.79 | 3.22 |
| OIN-G2 | Cambrian-Ordovician | 11.90 | 26.82 | 3.27 | 13.39 | 3.11 |
| OIN-G3 | Cambrian-Ordovician | 6.90 | 13.80 | 1.84 | 6.80 | 1.75 |
| OIN-G3 | Cambrian-Ordovician | 7.10 | 14.35 | 1.91 | 7.20 | 1.65 |
| OIN-G3 | Cambrian-Ordovician | 1.72 | 3.36 | 0.40 | 1.55 | 0.47 |
| OIN-G4 | Cambrian-Ordovician | 2.59 | 6.57 | 0.78 | 3.15 | 0.97 |
| OIN-G4 | Cambrian-Ordovician | 2.24 | 5.96 | 0.62 | 2.61 | 0.82 |
| OIN-G4 | Cambrian-Ordovician | 4.95 | 11.10 | 1.39 | 5.52 | 1.73 |
| OIN-G4 | Cambrian-Ordovician | 7.73 | 15.90 | 1.91 | 7.55 | 2.01 |
| Tonalite | Cambrian-Ordovician | 28.00 | 53.50 | 6.23 | 23.80 | 4.83 |
| Ms granite | Late Carboniferous-Early Permian | 2.29 | 5.21 | 0.67 | 2.42 | 1.01 |
| SEG-G1 | Late Carboniferous-Early Permian | 1.08 | 2.62 | 0.34 | 1.29 | 0.70 |
| SEG-G2 | Late Carboniferous-Early Permian | 4.20 | 9.08 | 1.13 | 4.33 | 1.19 |
| SEG-G3 | Late Carboniferous-Early Permian | 19.90 | 41.50 | 4.94 | 18.70 | 4.33 |
| PM-G3 | Late Carboniferous-Early Permian | 15.80 | 34.70 | 4.22 | 17.00 | 3.51 |
| PM-G6 | Late Carboniferous-Early Permian | 3.54 | 7.88 | 0.97 | 3.49 | 1.10 |
| Orca-G2 | Late Carboniferous-Early Permian | 17.90 | 39.00 | 4.68 | 17.30 | 3.82 |
| Orca-G2 | Late Carboniferous-Early Permian | 26.60 | 54.80 | 6.54 | 24.80 | 4.67 |
| CB-G1 | Late Carboniferous-Early Permian | 13.43 | 37.83 | 4.15 | 16.41 | 3.77 |
| CB-G1 | Late Carboniferous-Early Permian | 7.54 | 24.50 | 2.39 | 9.42 | 2.76 |
| CB-G1 | Late Carboniferous-Early Permian | 10.40 | 23.00 | 2.84 | 10.80 | 2.78 |
| CB-G2 | Late Carboniferous-Early Permian | 37.96 | 90.16 | 9.40 | 36.36 | 6.59 |
| CB-G2 | Late Carboniferous-Early Permian | 37.40 | 83.72 | 9.16 | 37.06 | 6.85 |

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|--|----------------------------------|-------|-------|------|-------|------|
| CB-G3 | Late Carboniferous-Early Permian | 25.59 | 58.79 | 6.82 | 28.82 | 5.95 |
| CB-G3 | Late Carboniferous-Early Permian | 24.31 | 57.19 | 6.82 | 27.03 | 5.44 |
| CB-G4 | Late Carboniferous-Early Permian | 19.18 | 45.29 | 5.40 | 22.52 | 4.55 |
| CB-G4 | Late Carboniferous-Early Permian | 12.55 | 32.65 | 3.63 | 15.11 | 3.46 |
| CB-G5 | Late Carboniferous-Early Permian | 9.90 | 23.60 | 2.90 | 11.40 | 2.80 |
| CB-G5 | Late Carboniferous-Early Permian | 7.70 | 17.70 | 2.31 | 8.60 | 2.10 |
| CB-G5 | Late Carboniferous-Early Permian | 7.70 | 17.30 | 2.15 | 8.07 | 1.90 |
| FUN-G2 | Cambrian-Ordovician | 23.90 | 51.40 | 6.35 | 25.00 | 5.43 |
| FUN-G3 | Cambrian-Ordovician | 7.93 | 16.20 | 2.07 | 8.27 | 1.86 |
| Albite-Ms Granite | Late Carboniferous-Early Permian | 12.90 | 27.50 | 3.21 | 12.40 | 2.89 |
| Two mica granite | Late Carboniferous-Early Permian | 15.10 | 31.50 | 3.70 | 13.60 | 3.27 |
| Two mica granite | Late Carboniferous-Early Permian | 15.80 | 32.60 | 3.71 | 14.10 | 3.20 |
| Two mica granite | Late Carboniferous-Early Permian | 15.30 | 32.40 | 3.78 | 14.30 | 3.40 |
| Two mica granite | Late Carboniferous-Early Permian | 14.10 | 29.80 | 3.47 | 13.80 | 3.00 |
| Two mica granite | Late Carboniferous-Early Permian | 13.70 | 29.10 | 3.26 | 12.90 | 2.90 |
| Two mica granite | Late Carboniferous-Early Permian | 14.20 | 30.50 | 3.54 | 13.30 | 3.00 |
| Two mica granite | Late Carboniferous-Early Permian | 14.10 | 30.30 | 3.58 | 12.70 | 2.90 |
| Two mica granite | Late Carboniferous-Early Permian | 14.90 | 32.00 | 3.64 | 14.40 | 3.00 |
| Two mica granite | Late Carboniferous-Early Permian | 14.30 | 30.20 | 3.51 | 13.50 | 3.00 |
| Li-Sn-RMG | Late Carboniferous-Early Permian | 1.06 | 1.30 | 0.15 | 0.63 | 0.11 |
| Li-Sn-RMG | Late Carboniferous-Early Permian | 0.22 | 0.37 | 0.05 | 0.20 | 0.05 |
| Li-Sn-RMG | Late Carboniferous-Early Permian | 0.15 | 0.25 | 0.03 | 0.11 | 0.04 |
| Li-Sn-RMG | Late Carboniferous-Early Permian | 0.16 | 0.25 | 0.03 | 0.16 | 0.04 |
| PAN-G1 - Two mica granite | Late Carboniferous-Early Permian | 15.20 | 33.80 | 4.04 | 15.80 | 3.28 |
| PAN-G2 - Ms granite | Late Carboniferous-Early Permian | 0.45 | 0.91 | 0.09 | 0.13 | 0.04 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.07 | 0.17 | 0.02 | 0.12 | 0.08 |
| Lepidolite-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.19 | 0.36 | 0.04 | 0.13 | 0.10 |
| Ms-Tour pegmatite dyke | Late Carboniferous-Early Permian | 8.11 | 16.10 | 2.02 | 7.68 | 1.59 |
| Pegmatite dyke | Late Carboniferous-Early Permian | 14.80 | 31.90 | 3.88 | 15.10 | 3.22 |
| Aplite dyke | ? | 1.45 | 1.84 | 0.31 | 1.02 | 0.27 |
| Microgranite dyke | ? | 16.40 | 33.70 | 4.13 | 15.60 | 3.27 |

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| Aplite dyke | ? | 0.82 | 1.63 | 0.22 | 0.67 | 0.19 |
| Li-phosphate-bearing pegmatite dyke | Late Carboniferous-Early Permian | 0.25 | 0.46 | 0.04 | 0.13 | 0.07 |
| Li-phosphate-bearing aplite dyke | Late Carboniferous-Early Permian | 0.48 | 0.82 | 0.08 | 0.30 | 0.07 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.10 | 0.11 | 0.03 | 0.18 | 0.05 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.07 | 0.07 | 0.02 | 0.09 | 0.03 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.09 | 0.12 | 0.01 | 0.06 | 0.04 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.12 | 0.18 | 0.02 | 0.08 | 0.05 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.10 | 0.18 | 0.04 | 0.23 | 0.09 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.38 | 0.74 | 0.19 | 0.90 | 0.32 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.05 | 0.05 | 0.01 | 0.08 | 0.02 |
| Li-phosphate-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.05 | 0.05 | 0.01 | 0.09 | 0.03 |
| Lepidolite-bearing aplite-pegmatite dyke | Late Carboniferous-Early Permian | 0.14 | 0.24 | 0.02 | 0.07 | 0.03 |
| Greisen | Late Carboniferous-Early Permian | 0.64 | 1.09 | 0.10 | 0.25 | 0.07 |
| | | 0.050 | 0.050 | 0.010 | 0.050 | 0.010 |

Lithos **2009**, 111, 168-185.

108, 103, 445-465.

Relation with W-Sn Mineralizations. *Minerals* **2020**, 10, 557.

Geochim. Cosmochim. Acta **2020**, 289, 130-157.

| Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Eu/Eu* | LREE | HREE |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|-------------|-------------|
| 1.32 | 3.66 | 0.50 | 2.78 | 0.54 | 1.48 | 0.21 | 1.35 | 0.21 | 0.86 | 164.88 | 7.07 |
| 0.56 | 3.05 | 0.51 | 2.76 | 0.55 | 1.63 | 0.24 | 1.66 | 0.26 | 0.49 | 83.91 | 7.61 |
| 0.07 | 0.62 | 0.16 | 0.90 | 0.17 | 0.49 | 0.09 | 0.68 | 0.10 | 0.32 | 9.25 | 2.59 |
| 0.59 | 2.93 | 0.46 | 2.34 | 0.40 | 1.09 | 0.17 | 1.14 | 0.18 | 0.49 | 155.19 | 5.78 |
| 1.15 | 4.13 | 0.66 | 3.60 | 0.70 | 1.81 | 0.25 | 1.72 | 0.25 | 0.84 | 97.46 | 8.99 |
| 0.99 | 5.37 | 0.78 | 4.08 | 0.81 | 2.21 | 0.34 | 2.30 | 0.27 | 0.56 | 128.71 | 10.79 |
| 0.56 | 2.65 | 0.39 | 1.87 | 0.32 | 0.78 | 0.09 | 0.60 | 0.08 | 0.58 | 60.35 | 4.13 |
| 0.66 | 2.53 | 0.35 | 1.69 | 0.30 | 0.78 | 0.11 | 0.65 | 0.10 | 0.72 | 61.68 | 3.98 |
| 0.44 | 1.84 | 0.38 | 2.23 | 0.49 | 1.61 | 0.21 | 1.75 | 0.24 | 0.75 | 33.37 | 6.91 |
| 0.50 | 2.04 | 0.39 | 2.21 | 0.50 | 1.60 | 0.21 | 1.80 | 0.24 | 0.83 | 34.75 | 6.95 |
| 0.16 | 0.47 | 0.13 | 0.81 | 0.15 | 0.47 | 0.07 | 0.56 | 0.08 | 1.04 | 8.13 | 2.28 |
| 0.17 | 1.17 | 0.22 | 1.28 | 0.19 | 0.43 | 0.06 | 0.32 | 0.04 | 0.49 | 15.40 | 2.54 |
| 0.23 | 1.03 | 0.20 | 1.14 | 0.17 | 0.36 | 0.05 | 0.30 | 0.04 | 0.76 | 13.51 | 2.26 |
| 0.18 | 1.78 | 0.31 | 1.72 | 0.27 | 0.65 | 0.09 | 0.50 | 0.07 | 0.31 | 26.65 | 3.61 |
| 0.31 | 2.11 | 0.42 | 2.53 | 0.42 | 1.05 | 0.14 | 0.85 | 0.12 | 0.45 | 37.52 | 5.53 |
| 1.08 | 3.74 | 0.56 | 3.32 | 0.64 | 1.90 | 0.29 | 1.87 | 0.29 | 0.77 | 121.18 | 8.88 |
| 0.02 | 1.14 | 0.24 | 1.23 | 0.18 | 0.35 | 0.05 | 0.34 | 0.05 | 0.05 | 12.76 | 2.44 |
| 0.02 | 0.69 | 0.17 | 1.00 | 0.13 | 0.32 | 0.06 | 0.41 | 0.06 | 0.08 | 6.74 | 2.14 |
| 0.08 | 1.05 | 0.22 | 1.30 | 0.19 | 0.56 | 0.08 | 0.50 | 0.07 | 0.22 | 21.06 | 2.92 |
| 0.41 | 3.34 | 0.54 | 2.69 | 0.42 | 1.07 | 0.15 | 0.88 | 0.13 | 0.33 | 93.12 | 5.88 |
| 0.44 | 2.43 | 0.38 | 2.04 | 0.35 | 0.86 | 0.13 | 0.85 | 0.14 | 0.46 | 78.10 | 4.75 |
| 0.11 | 1.05 | 0.22 | 1.24 | 0.16 | 0.41 | 0.05 | 0.36 | 0.04 | 0.30 | 18.14 | 2.48 |
| 0.31 | 2.80 | 0.42 | 2.18 | 0.34 | 0.88 | 0.13 | 0.85 | 0.13 | 0.29 | 85.81 | 4.92 |
| 0.64 | 2.85 | 0.38 | 1.99 | 0.34 | 0.91 | 0.13 | 0.82 | 0.12 | 0.53 | 120.90 | 4.68 |
| 0.41 | 2.71 | 0.35 | 1.44 | 0.23 | 0.46 | 0.06 | 0.40 | 0.04 | 0.39 | 78.71 | 2.98 |
| 0.30 | 2.30 | 0.30 | 1.24 | 0.17 | 0.30 | 0.03 | 0.20 | 0.03 | 0.36 | 49.21 | 2.27 |
| 0.28 | 1.99 | 0.28 | 1.33 | 0.18 | 0.41 | 0.05 | 0.32 | 0.05 | 0.36 | 52.09 | 2.62 |
| 1.20 | 5.03 | 0.68 | 3.50 | 0.61 | 1.49 | 0.20 | 1.24 | 0.18 | 0.64 | 186.70 | 7.90 |
| 1.20 | 4.99 | 0.70 | 3.38 | 0.56 | 1.37 | 0.18 | 1.10 | 0.16 | 0.63 | 180.38 | 7.45 |

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| 0.98 | 4.86 | 0.69 | 3.18 | 0.54 | 1.42 | 0.18 | 1.08 | 0.14 | 0.56 | 131.81 | 7.23 |
| 0.73 | 3.88 | 0.55 | 2.67 | 0.47 | 1.09 | 0.14 | 0.96 | 0.11 | 0.48 | 125.40 | 5.99 |
| 0.71 | 3.35 | 0.48 | 2.30 | 0.37 | 0.88 | 0.13 | 0.69 | 0.11 | 0.55 | 101.00 | 4.96 |
| 0.38 | 2.56 | 0.38 | 1.64 | 0.28 | 0.63 | 0.08 | 0.49 | 0.07 | 0.39 | 70.34 | 3.57 |
| 0.32 | 2.46 | 0.40 | 1.96 | 0.33 | 0.91 | 0.13 | 0.90 | 0.15 | 0.37 | 53.38 | 4.78 |
| 0.22 | 1.77 | 0.26 | 1.37 | 0.25 | 0.65 | 0.11 | 0.70 | 0.11 | 0.35 | 40.40 | 3.45 |
| 0.22 | 1.49 | 0.24 | 1.25 | 0.21 | 0.60 | 0.08 | 0.53 | 0.08 | 0.39 | 38.83 | 2.99 |
| 1.01 | 3.73 | 0.57 | 3.02 | 0.51 | 1.35 | 0.19 | 1.18 | 0.18 | 0.68 | 116.82 | 7.00 |
| 0.36 | 1.77 | 0.32 | 2.05 | 0.37 | 1.16 | 0.20 | 1.47 | 0.23 | 0.60 | 38.46 | 5.80 |
| 0.30 | 2.38 | 0.40 | 2.14 | 0.34 | 0.93 | 0.13 | 0.76 | 0.11 | 0.34 | 61.58 | 4.81 |
| 0.50 | 2.56 | 0.44 | 2.42 | 0.41 | 1.12 | 0.16 | 1.03 | 0.15 | 0.52 | 70.23 | 5.73 |
| 0.48 | 2.90 | 0.40 | 2.50 | 0.40 | 1.10 | 0.16 | 1.00 | 0.13 | 0.48 | 72.79 | 5.69 |
| 0.56 | 3.30 | 0.50 | 2.80 | 0.50 | 1.20 | 0.16 | 1.00 | 0.14 | 0.51 | 73.04 | 6.30 |
| 0.53 | 2.80 | 0.40 | 2.30 | 0.40 | 1.10 | 0.16 | 0.90 | 0.13 | 0.56 | 67.50 | 5.39 |
| 0.54 | 2.90 | 0.50 | 2.30 | 0.40 | 1.10 | 0.18 | 1.10 | 0.14 | 0.57 | 65.30 | 5.72 |
| 0.49 | 3.30 | 0.50 | 2.50 | 0.40 | 1.20 | 0.16 | 0.90 | 0.14 | 0.47 | 68.33 | 5.80 |
| 0.46 | 2.60 | 0.40 | 2.30 | 0.40 | 1.00 | 0.14 | 0.90 | 0.11 | 0.51 | 66.64 | 5.25 |
| 0.44 | 2.70 | 0.40 | 2.40 | 0.40 | 1.00 | 0.16 | 0.90 | 0.14 | 0.47 | 71.08 | 5.40 |
| 0.51 | 2.90 | 0.40 | 2.20 | 0.40 | 1.00 | 0.14 | 0.90 | 0.12 | 0.53 | 67.92 | 5.16 |
| 0.07 | 0.11 | 0.02 | 0.07 | 0.01 | 0.03 | 0.01 | 0.03 | 0.01 | 1.80 | 3.43 | 0.17 |
| 0.02 | 0.04 | 0.01 | 0.04 | 0.01 | 0.02 | 0.01 | 0.02 | 0.00 | 1.43 | 0.95 | 0.10 |
| 0.01 | 0.06 | 0.01 | 0.07 | 0.01 | 0.04 | 0.01 | 0.05 | 0.01 | 0.62 | 0.65 | 0.20 |
| 0.01 | 0.06 | 0.01 | 0.06 | 0.01 | 0.03 | 0.01 | 0.03 | 0.00 | 0.62 | 0.71 | 0.14 |
| 0.24 | 2.31 | 0.36 | 2.10 | 0.37 | 1.08 | 0.16 | 1.14 | 0.17 | 0.27 | 74.67 | 5.38 |
| 0.01 | 0.04 | 0.01 | 0.09 | 0.02 | 0.08 | 0.02 | 0.19 | 0.04 | | 1.66 | 0.44 |
| 0.02 | 0.12 | 0.02 | 0.13 | 0.02 | 0.05 | 0.01 | 0.07 | 0.01 | 0.53 | 0.60 | 0.31 |
| 0.01 | 0.09 | 0.03 | 0.20 | 0.03 | 0.07 | 0.01 | 0.07 | 0.01 | 0.29 | 0.92 | 0.42 |
| 0.24 | 1.13 | 0.20 | 1.07 | 0.19 | 0.45 | 0.07 | 0.44 | 0.07 | 0.55 | 36.87 | 2.48 |
| 0.23 | 2.62 | 0.40 | 2.36 | 0.42 | 1.21 | 0.18 | 1.19 | 0.18 | 0.25 | 71.75 | 5.94 |
| 0.05 | 0.24 | 0.07 | 0.43 | 0.07 | 0.23 | 0.04 | 0.34 | 0.05 | 0.59 | 5.18 | 1.23 |
| 0.74 | 2.73 | 0.43 | 2.78 | 0.53 | 1.52 | 0.22 | 1.50 | 0.23 | 0.76 | 76.57 | 7.21 |

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 0.01 | 0.20 | 0.04 | 0.26 | 0.06 | 0.24 | 0.04 | 0.38 | 0.08 | 0.08 | 3.74 | 1.10 |
| 0.01 | 0.05 | 0.01 | 0.04 | 0.01 | 0.03 | 0.01 | 0.03 | 0.01 | 0.62 | 1.01 | 0.13 |
| 0.02 | 0.08 | 0.01 | 0.07 | 0.01 | 0.03 | 0.01 | 0.03 | 0.01 | 0.77 | 1.85 | 0.16 |
| 0.03 | 0.09 | 0.02 | 0.09 | 0.02 | 0.06 | 0.01 | 0.06 | 0.01 | 1.14 | 0.59 | 0.27 |
| 0.01 | 0.08 | 0.02 | 0.10 | 0.02 | 0.06 | 0.01 | 0.08 | 0.01 | 0.85 | 0.38 | 0.29 |
| 0.01 | 0.08 | 0.02 | 0.11 | 0.03 | 0.07 | 0.01 | 0.14 | 0.02 | 0.64 | 0.41 | 0.40 |
| 0.01 | 0.08 | 0.02 | 0.11 | 0.02 | 0.06 | 0.01 | 0.10 | 0.01 | 0.41 | 0.54 | 0.33 |
| 0.04 | 0.19 | 0.04 | 0.23 | 0.05 | 0.15 | 0.02 | 0.17 | 0.03 | 0.87 | 0.86 | 0.68 |
| 0.15 | 0.40 | 0.08 | 0.47 | 0.08 | 0.21 | 0.03 | 0.26 | 0.04 | 1.26 | 3.09 | 1.18 |
| 0.01 | 0.05 | 0.01 | 0.06 | 0.01 | 0.04 | 0.01 | 0.05 | 0.01 | 1.01 | 0.29 | 0.18 |
| 0.01 | 0.07 | 0.01 | 0.09 | 0.02 | 0.05 | 0.01 | 0.07 | 0.01 | 0.91 | 0.32 | 0.27 |
| 0.00 | 0.03 | 0.01 | 0.04 | 0.01 | 0.01 | 0.00 | 0.04 | 0.00 | 0.27 | 0.53 | 0.11 |
| 0.03 | 0.05 | 0.01 | 0.09 | 0.02 | 0.07 | 0.02 | 0.17 | 0.03 | 1.55 | 2.23 | 0.41 |
| 0.005 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.005 | 0.010 | 0.002 | | | |

| REE _{total} | (La/Yb) _{cn} | (Dy/Yb) _{cn} | Irber (1999) | | | | | | | |
|----------------------|-----------------------|-----------------------|--------------|------|-------------------|---------|---------|---------|---------|---------|
| | | | t1 | t3 | TE _{1,3} | T1 | T3 | T4 | T | t1 |
| 171.95 | 18.77 | 1.35 | 0.98 | 0.93 | 0.95 | 0.02019 | 0.07239 | 0.06412 | 0.16161 | 0.98054 |
| 91.52 | 6.71 | 1.09 | 1.06 | 1.01 | 1.04 | 0.06412 | 0.04806 | 0.03907 | 0.15877 | 1.05926 |
| 11.84 | 1.68 | 0.87 | 1.10 | 1.29 | 1.20 | 0.10546 | 0.32356 | 0.09116 | 0.29444 | 1.10459 |
| 160.97 | 23.36 | 1.34 | 1.01 | 1.06 | 1.03 | 0.01025 | 0.06829 | 0.00835 | 0.12035 | 1.01023 |
| 106.45 | 7.48 | 1.37 | 1.02 | 1.00 | 1.01 | 0.06846 | 0.03127 | 0.05242 | 0.15924 | 1.02207 |
| 139.50 | 7.77 | 1.16 | 1.02 | 0.95 | 0.98 | 0.02198 | 0.06161 | 0.15496 | 0.19940 | 1.02048 |
| 64.48 | 12.62 | 2.04 | 1.03 | 1.03 | 1.03 | 0.02858 | 0.04800 | 0.10224 | 0.17263 | 1.02843 |
| 65.66 | 12.44 | 1.70 | 1.02 | 0.98 | 1.00 | 0.03043 | 0.03915 | 0.05058 | 0.14152 | 1.02369 |
| 40.28 | 2.68 | 0.83 | 1.02 | 1.07 | 1.04 | 0.05175 | 0.10594 | 0.12641 | 0.21760 | 1.01507 |
| 41.70 | 2.68 | 0.80 | 1.01 | 1.02 | 1.01 | 0.04465 | 0.07722 | 0.13970 | 0.20880 | 1.01036 |
| 10.41 | 2.09 | 0.95 | 0.98 | 1.35 | 1.15 | 0.02128 | 0.36754 | 0.06406 | 0.27474 | 0.97971 |
| 17.94 | 5.50 | 2.62 | 1.09 | 1.24 | 1.17 | 0.10657 | 0.24521 | 0.05414 | 0.26010 | 1.09359 |
| 15.77 | 5.07 | 2.49 | 1.10 | 1.26 | 1.18 | 0.15348 | 0.26227 | 0.02015 | 0.26954 | 1.09699 |
| 30.26 | 6.73 | 2.25 | 1.04 | 1.17 | 1.10 | 0.03707 | 0.16515 | 0.06485 | 0.21097 | 1.03687 |
| 43.05 | 6.18 | 1.95 | 1.00 | 1.21 | 1.10 | 0.00517 | 0.21149 | 0.01147 | 0.19499 | 0.99536 |
| 130.06 | 10.17 | 1.16 | 0.98 | 0.97 | 0.98 | 0.02469 | 0.02661 | 0.01843 | 0.10781 | 0.97585 |
| 15.20 | 4.58 | 2.37 | 1.10 | 1.33 | 1.21 | 0.09747 | 0.33511 | 0.02958 | 0.27754 | 1.09511 |
| 8.88 | 1.79 | 1.60 | 1.10 | 1.52 | 1.30 | 0.10340 | 0.52311 | 0.11709 | 0.35204 | 1.10335 |
| 23.98 | 5.71 | 1.70 | 1.04 | 1.32 | 1.17 | 0.03705 | 0.32439 | 0.02028 | 0.25223 | 1.03643 |
| 99.00 | 15.36 | 2.00 | 1.02 | 1.13 | 1.07 | 0.02416 | 0.12950 | 0.04447 | 0.18172 | 1.02416 |
| 82.84 | 12.63 | 1.57 | 1.02 | 1.06 | 1.04 | 0.02265 | 0.05747 | 0.03673 | 0.13955 | 1.01882 |
| 20.61 | 6.68 | 2.25 | 1.09 | 1.41 | 1.24 | 0.08585 | 0.40954 | 0.20670 | 0.34208 | 1.08533 |
| 90.73 | 14.31 | 1.68 | 1.06 | 1.08 | 1.07 | 0.05935 | 0.08477 | 0.04442 | 0.17726 | 1.05934 |
| 125.58 | 22.04 | 1.59 | 1.02 | 0.98 | 1.00 | 0.01719 | 0.02388 | 0.02369 | 0.10389 | 1.01705 |
| 81.69 | 22.81 | 2.36 | 1.16 | 0.99 | 1.08 | 0.19576 | 0.05658 | 0.18701 | 0.27060 | 1.16460 |
| 51.48 | 25.61 | 4.06 | 1.25 | 1.08 | 1.16 | 0.32460 | 0.08636 | 0.19682 | 0.31827 | 1.25285 |
| 54.71 | 22.08 | 2.72 | 1.05 | 1.13 | 1.09 | 0.05228 | 0.12794 | 0.05791 | 0.19922 | 1.05226 |
| 194.60 | 20.80 | 1.85 | 1.08 | 0.97 | 1.03 | 0.11293 | 0.02613 | 0.04559 | 0.17543 | 1.08124 |
| 187.83 | 23.10 | 2.01 | 1.03 | 1.02 | 1.02 | 0.05961 | 0.02978 | 0.05587 | 0.15560 | 1.02637 |

| | | | | | | | | | | |
|--------|-------|------|------|------|------|---------|---------|---------|---------|---------|
| 139.04 | 16.10 | 1.93 | 1.02 | 1.01 | 1.01 | 0.04790 | 0.04708 | 0.03574 | 0.14760 | 1.01740 |
| 131.39 | 17.20 | 1.82 | 1.06 | 0.99 | 1.03 | 0.06991 | 0.03376 | 0.11632 | 0.19148 | 1.06308 |
| 105.96 | 18.88 | 2.18 | 1.04 | 1.04 | 1.04 | 0.05452 | 0.05105 | 0.07669 | 0.17429 | 1.03829 |
| 73.91 | 17.40 | 2.19 | 1.09 | 1.03 | 1.06 | 0.12528 | 0.08477 | 0.06545 | 0.21428 | 1.09086 |
| 58.16 | 7.47 | 1.43 | 1.07 | 1.09 | 1.08 | 0.07727 | 0.10116 | 0.08060 | 0.20778 | 1.07452 |
| 43.85 | 7.47 | 1.28 | 1.08 | 0.99 | 1.04 | 0.08634 | 0.01926 | 0.04374 | 0.15777 | 1.08424 |
| 41.81 | 9.87 | 1.54 | 1.07 | 1.08 | 1.08 | 0.06763 | 0.08713 | 0.05303 | 0.18610 | 1.06755 |
| 123.82 | 13.76 | 1.68 | 1.02 | 1.05 | 1.04 | 0.01983 | 0.05326 | 0.03973 | 0.13713 | 1.01983 |
| 44.26 | 3.66 | 0.91 | 0.99 | 1.11 | 1.05 | 0.02184 | 0.10835 | 0.03981 | 0.16832 | 0.98669 |
| 66.38 | 11.53 | 1.84 | 1.03 | 1.14 | 1.08 | 0.02893 | 0.13844 | 0.01525 | 0.17446 | 1.02504 |
| 75.96 | 9.96 | 1.54 | 1.04 | 1.11 | 1.08 | 0.03950 | 0.11591 | 0.00797 | 0.16502 | 1.03950 |
| 78.48 | 10.73 | 1.64 | 1.02 | 1.03 | 1.02 | 0.02219 | 0.07914 | 0.05785 | 0.16288 | 1.01668 |
| 79.34 | 10.39 | 1.83 | 1.03 | 1.02 | 1.03 | 0.03388 | 0.01890 | 0.03766 | 0.12278 | 1.03236 |
| 72.89 | 10.64 | 1.67 | 1.01 | 1.00 | 1.00 | 0.01928 | 0.02408 | 0.02982 | 0.11044 | 1.00589 |
| 71.02 | 8.46 | 1.37 | 1.01 | 1.10 | 1.06 | 0.03344 | 0.13849 | 0.12808 | 0.22361 | 1.01095 |
| 74.13 | 10.72 | 1.82 | 1.04 | 1.08 | 1.06 | 0.04530 | 0.07916 | 0.08261 | 0.18577 | 1.04330 |
| 71.89 | 10.64 | 1.67 | 1.07 | 1.04 | 1.06 | 0.07401 | 0.04215 | 0.08410 | 0.18269 | 1.07394 |
| 76.48 | 11.25 | 1.75 | 1.02 | 1.04 | 1.03 | 0.03301 | 0.05972 | 0.05960 | 0.15934 | 1.01667 |
| 73.08 | 10.79 | 1.60 | 1.02 | 0.96 | 0.99 | 0.02625 | 0.03726 | 0.04038 | 0.13158 | 1.02247 |
| 3.59 | 24.00 | 1.53 | 0.75 | 1.25 | 0.96 | 0.25699 | 0.32149 | 0.70831 | 0.46310 | 0.74563 |
| 1.06 | 7.47 | 1.31 | 0.89 | 1.11 | 0.99 | 0.12005 | 0.31391 | 0.71679 | 0.43794 | 0.89472 |
| 0.85 | 2.04 | 0.92 | 0.93 | 1.19 | 1.05 | 0.08050 | 0.23122 | 0.27621 | 0.31303 | 0.93029 |
| 0.85 | 3.62 | 1.31 | 0.75 | 1.11 | 0.91 | 0.25317 | 0.10848 | | | 0.74686 |
| 80.05 | 9.06 | 1.21 | 1.04 | 1.04 | 1.04 | 0.04354 | 0.04225 | 0.04096 | 0.14535 | 1.04046 |
| 2.10 | 1.61 | 0.31 | 1.63 | 1.17 | 1.38 | 0.66338 | 0.18005 | 0.11855 | 0.40041 | 1.63265 |
| 0.91 | 0.68 | 1.22 | 0.88 | 1.15 | 1.01 | 0.14998 | 0.16793 | 0.08830 | 0.26019 | 0.87787 |
| 1.34 | 1.84 | 1.87 | 1.05 | 1.65 | 1.32 | 0.05699 | 0.65439 | 0.14913 | 0.37871 | 1.05356 |
| 39.35 | 12.52 | 1.59 | 1.00 | 1.10 | 1.05 | 0.02469 | 0.11380 | 0.04336 | 0.17409 | 0.99707 |
| 77.70 | 8.45 | 1.30 | 1.03 | 1.02 | 1.03 | 0.02710 | 0.03050 | 0.00619 | 0.10311 | 1.02688 |
| 6.41 | 2.90 | 0.83 | 0.86 | 1.48 | 1.13 | 0.22697 | 0.49209 | 0.14241 | 0.37892 | 0.85691 |
| 83.78 | 7.43 | 1.21 | 1.02 | 1.01 | 1.01 | 0.02166 | 0.03206 | 0.03266 | 0.11999 | 1.01773 |

| | | | | | | | | | | |
|------|-------|------|------|------|------|---------|---------|---------|---------|---------|
| 4.83 | 1.47 | 0.45 | 1.11 | 1.03 | 1.07 | 0.15259 | 0.05003 | 0.04624 | 0.20366 | 1.11478 |
| 1.14 | 5.66 | 0.87 | 1.04 | 0.99 | 1.01 | 0.07302 | 0.21335 | 0.18015 | 0.27884 | 1.03823 |
| 2.01 | 10.87 | 1.53 | 0.93 | 1.03 | 0.98 | 0.07440 | 0.15674 | 0.11766 | 0.24111 | 0.93132 |
| 0.86 | 1.11 | 0.98 | 0.60 | 0.96 | 0.76 | 0.41350 | 0.04776 | 0.01250 | 0.28100 | 0.60407 |
| 0.67 | 0.60 | 0.87 | 0.59 | 1.05 | 0.79 | 0.42138 | 0.05173 | 0.14415 | 0.32074 | 0.58880 |
| 0.81 | 0.46 | 0.54 | 0.75 | 1.08 | 0.90 | 0.25393 | 0.09641 | 0.30090 | 0.32945 | 0.74615 |
| 0.87 | 0.78 | 0.71 | 0.85 | 1.18 | 1.00 | 0.14820 | 0.17846 | 0.27348 | 0.31627 | 0.85230 |
| 1.54 | 0.40 | 0.90 | 0.78 | 1.00 | 0.89 | 0.24075 | 0.03768 | 0.04018 | 0.23044 | 0.78372 |
| 4.27 | 0.98 | 1.16 | 0.89 | 1.18 | 1.02 | 0.22619 | 0.18191 | 0.12223 | 0.29730 | 0.88746 |
| 0.46 | 0.77 | 0.85 | 0.56 | 0.89 | 0.71 | 0.45241 | 0.10993 | 0.09768 | 0.33167 | 0.55757 |
| 0.59 | 0.50 | 0.83 | 0.55 | 1.04 | 0.75 | 0.46221 | 0.04943 | 0.07482 | 0.31264 | 0.54588 |
| 0.64 | 2.39 | 0.64 | 1.02 | 1.53 | 1.25 | 0.01888 | 0.53489 | 1.76152 | 0.62119 | 1.01819 |
| 2.64 | 2.56 | 0.35 | 1.14 | 1.05 | 1.09 | 0.14017 | 0.09573 | 0.12009 | 0.24358 | 1.13889 |

Monecke (2002)

| t3 | t4 | T | T'1,3 | TE'1,4 | T'3,4 |
|---------|---------|---------|---------|---------|---------|
| 0.92762 | 0.93669 | 0.68858 | 0.69068 | 0.69232 | 0.68270 |
| 1.01323 | 0.96490 | 0.71150 | 0.71981 | 0.71137 | 0.70323 |
| 1.29289 | 1.08329 | 0.76166 | 0.77419 | 0.73958 | 0.77074 |
| 1.06005 | 0.99167 | 0.71437 | 0.71942 | 0.70744 | 0.71619 |
| 1.00277 | 0.96982 | 0.70648 | 0.71148 | 0.70567 | 0.70224 |
| 0.94613 | 1.13892 | 0.71944 | 0.70118 | 0.73474 | 0.72198 |
| 1.02579 | 0.92549 | 0.70471 | 0.71663 | 0.69891 | 0.69844 |
| 0.97647 | 0.95252 | 0.70151 | 0.70713 | 0.70289 | 0.69444 |
| 1.07236 | 0.97023 | 0.71387 | 0.72240 | 0.70450 | 0.71460 |
| 1.01679 | 0.98707 | 0.70878 | 0.71189 | 0.70665 | 0.70779 |
| 1.35183 | 1.00540 | 0.74576 | 0.76347 | 0.70447 | 0.76766 |
| 1.24494 | 1.05112 | 0.75163 | 0.76461 | 0.73224 | 0.75764 |
| 1.26219 | 1.01538 | 0.74995 | 0.76798 | 0.72670 | 0.75458 |
| 1.16508 | 0.93516 | 0.72309 | 0.74195 | 0.70215 | 0.72461 |
| 1.21121 | 0.98883 | 0.72977 | 0.74273 | 0.70431 | 0.74163 |
| 0.97485 | 0.98698 | 0.69972 | 0.69834 | 0.70051 | 0.70033 |
| 1.32670 | 1.02059 | 0.75745 | 0.77811 | 0.72727 | 0.76604 |
| 1.52275 | 1.10618 | 0.78870 | 0.81026 | 0.74322 | 0.81070 |
| 1.32438 | 1.01223 | 0.74978 | 0.76825 | 0.71566 | 0.76430 |
| 1.12558 | 0.95574 | 0.71943 | 0.73310 | 0.70354 | 0.72134 |
| 1.05602 | 0.96328 | 0.71158 | 0.72021 | 0.70393 | 0.71051 |
| 1.40951 | 1.14717 | 0.77910 | 0.78975 | 0.74708 | 0.79948 |
| 1.08477 | 0.96624 | 0.71999 | 0.73214 | 0.71161 | 0.71607 |
| 0.97714 | 0.99204 | 0.70548 | 0.70608 | 0.70871 | 0.70164 |
| 0.99465 | 1.13622 | 0.74111 | 0.73472 | 0.75842 | 0.72987 |
| 1.07891 | 0.81231 | 0.72389 | 0.76350 | 0.71853 | 0.68761 |
| 1.12783 | 0.94210 | 0.72136 | 0.73826 | 0.70611 | 0.71936 |
| 0.97418 | 0.95667 | 0.70853 | 0.71684 | 0.71378 | 0.69478 |
| 1.01781 | 0.94554 | 0.70589 | 0.71487 | 0.70212 | 0.70060 |

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 1.01140 | 0.98380 | 0.70859 | 0.71218 | 0.70732 | 0.70626 |
| 0.99260 | 1.05331 | 0.71984 | 0.71688 | 0.72739 | 0.71518 |
| 1.04391 | 0.95769 | 0.71179 | 0.72149 | 0.70640 | 0.70739 |
| 1.03137 | 0.93797 | 0.71417 | 0.72839 | 0.71219 | 0.70167 |
| 1.08701 | 0.92107 | 0.71678 | 0.73511 | 0.70633 | 0.70853 |
| 0.99241 | 1.03242 | 0.71985 | 0.72053 | 0.72744 | 0.71148 |
| 1.08308 | 0.96570 | 0.72069 | 0.73325 | 0.71296 | 0.71568 |
| 1.05221 | 0.96063 | 0.71095 | 0.71973 | 0.70364 | 0.70937 |
| 1.10705 | 1.03501 | 0.72212 | 0.72349 | 0.71093 | 0.73179 |
| 1.13766 | 0.98671 | 0.72450 | 0.73531 | 0.70918 | 0.72876 |
| 1.11410 | 1.00431 | 0.72548 | 0.73376 | 0.71481 | 0.72774 |
| 1.02701 | 1.05234 | 0.71834 | 0.71479 | 0.71921 | 0.72100 |
| 1.01888 | 0.97089 | 0.70971 | 0.71611 | 0.70768 | 0.70530 |
| 1.00251 | 0.99834 | 0.70790 | 0.70859 | 0.70786 | 0.70726 |
| 1.10134 | 1.12808 | 0.73489 | 0.72669 | 0.73127 | 0.74656 |
| 1.07639 | 0.92107 | 0.71189 | 0.72796 | 0.70078 | 0.70666 |
| 1.04035 | 1.06477 | 0.72790 | 0.72703 | 0.73122 | 0.72545 |
| 1.04286 | 1.00898 | 0.71514 | 0.71755 | 0.71163 | 0.71621 |
| 0.96342 | 1.01944 | 0.70773 | 0.70461 | 0.71448 | 0.70407 |
| 1.24787 | | 0.57641 | 0.70596 | 0.43175 | 0.55854 |
| 1.10612 | | 0.57747 | 0.70726 | 0.47295 | 0.52586 |
| 1.19474 | 1.11230 | 0.73454 | 0.72887 | 0.71460 | 0.75945 |
| 1.10612 | | | 0.68062 | | |
| 1.04029 | 0.99161 | 0.71558 | 0.72124 | 0.71275 | 0.71272 |
| 1.17322 | 1.00822 | 0.79730 | 0.83754 | 0.81254 | 0.73848 |
| 1.15128 | 1.00387 | 0.71099 | 0.71224 | 0.68588 | 0.73402 |
| 1.64890 | 0.86158 | 0.77072 | 0.82196 | 0.69194 | 0.79223 |
| 1.10431 | 0.96181 | 0.71452 | 0.72481 | 0.69980 | 0.71870 |
| 1.02450 | 1.00037 | 0.71318 | 0.71613 | 0.71191 | 0.71149 |
| 1.48057 | 1.13313 | 0.76055 | 0.76444 | 0.70534 | 0.80835 |
| 1.00540 | 0.97521 | 0.70691 | 0.71118 | 0.70586 | 0.70367 |

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|---------|---------|---------|---------|---------|---------|
| 1.02974 | 0.95884 | 0.71919 | 0.73221 | 0.72000 | 0.70509 |
| 0.98934 | 0.84082 | 0.69142 | 0.71197 | 0.68539 | 0.67642 |
| 1.03468 | 0.90819 | 0.69212 | 0.70107 | 0.67814 | 0.69693 |
| 0.95968 | 1.01234 | 0.65525 | 0.62525 | 0.63569 | 0.70214 |
| 1.05127 | 1.04039 | 0.66839 | 0.64033 | 0.63820 | 0.72313 |
| 1.08049 | 1.21140 | 0.71158 | 0.67577 | 0.69956 | 0.75695 |
| 1.17616 | 1.19835 | 0.73335 | 0.71212 | 0.71600 | 0.77047 |
| 1.00239 | 0.96031 | 0.67656 | 0.66823 | 0.66031 | 0.70048 |
| 1.17703 | 1.10435 | 0.72673 | 0.71842 | 0.70566 | 0.75521 |
| 0.89174 | 0.91342 | 0.62753 | 0.60194 | 0.60642 | 0.67178 |
| 1.03728 | 1.04480 | 0.66181 | 0.62912 | 0.63061 | 0.72147 |
| 1.52642 | 2.01142 | 0.87140 | 0.79759 | 0.87029 | 0.94046 |
| 1.04936 | 1.09629 | 0.73988 | 0.73964 | 0.74753 | 0.73240 |