|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Functions** | **2-D** | | | | | | | | **3-D** | | | | | | | |
| **Average** | | | | **STD** | | | | **Average** | | | | **STD** | | | |
| **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** |
| **Separable Functions** | | | | | | | | | | | | | | | | |
| **f1** | **0** | **0** | 1.28E-06 | **0** | **0** | **0** | 2.99E-06 | **0** | **0** | **0** | 2.04E-04 | **0** | **0** | **0** | 2.84E-04 | **0** |
| **f2** | **0** | **0** | 7.73E-04 | 6.97E-01 | **0** | **0** | 1.32E-03 | 2.48E+00 | **0** | **0** | 9.53E-01 | 5.53E+00 | **0** | **0** | 2.47E+00 | 1.47E+01 |
| **f3** | 6.63E-02 | **0** | 1.17E-03 | **0** | 2.48E-01 | **0** | 2.25E-03 | **0** | 7.09E-01 | 4.85E-01 | **1.15E-01** | 2.65E-01 | 5.74E-01 | 5.23E-01 | **2.40E-01** | 4.40E-01 |
| **f4** | 1.08E+00 | 1.99E-01 | 7.53E-02 | **2.87E-14** | 6.36E-01 | 5.39E-01 | 2.57E-01 | **7.26E-14** | 2.57E+00 | 1.07E+00 | **4.83E-01** | 1.21E+00 | 1.14E+00 | **4.39E-01** | 7.58E-01 | 9.86E-01 |
| **f5** | **6.51E-16** | **6.51E-16** | **6.51E-16** | **6.51E-16** | **3.73E-15** | **3.73E-15** | **3.73E-15** | **3.73E-15** | **-2.96E-16** | **-2.96E-16** | **-2.96E-16** | **-2.96E-16** | **8.98E-16** | **8.98E-16** | **8.98E-16** | **8.98E-16** |
| **Low or Moderate Condition Functions** | | | | | | | | | | | | | | | | |
| **f6** | 1.18E-16 | **0** | 3.25E-02 | 4.13E-11 | 4.43E-16 | **0** | 1.07E-01 | 1.09E-10 | 2.96E-15 | **0** | 4.52E-01 | 2.99E-03 | 4.75E-15 | **0** | 6.23E-01 | 1.12E-02 |
| **f7** | **0** | **0** | 2.08E-02 | 1.66E-15 | **0** | **0** | 7.06E-02 | 3.86E-15 | **7.99E-16** | 5.20E-04 | 9.94E-03 | 2.05E-13 | **1.89E-15** | 1.95E-03 | 2.69E-02 | 2.51E-13 |
| **f8** | **0** | **0** | 1.93E-02 | 5.50E-06 | **0** | **0** | 2.46E-02 | 1.26E-05 | **0** | **0** | 3.55E-01 | 4.17E-01 | **0** | **0** | 3.52E-01 | 1.10E+00 |
| **f9** | **0** | **0** | 1.55E-02 | 5.35E-07 | **0** | **0** | 1.55E-02 | 1.12E-06 | **0** | **0** | 3.22E-01 | 9.26E-02 | **0** | **0** | 2.92E-01 | 2.38E-01 |
| **High Condition Functions** | | | | | | | | | | | | | | | | |
| **f10** | **0** | **0** | 3.32E+00 | 6.91E+00 | **0** | **0** | 3.57E+00 | 1.81E+01 | **0** | **0** | 1.08E+02 | 5.41E+00 | **0** | **0** | 1.78E+02 | 4.78E+00 |
| **f11** | **0** | **0** | 2.87E+00 | 4.49E+00 | **0** | **0** | 3.64E+00 | 5.65E+00 | **0** | **0** | 8.11E+00 | 1.15E+01 | **0** | **0** | 9.50E+00 | 1.14E+01 |
| **f12** | **2.56E-03** | 2.46E-01 | 7.96E-01 | 7.09E-01 | **9.58E-03** | 9.13E-01 | 1.24E+00 | 2.08E+00 | **3.52E-02** | 4.06E+00 | 1.37E+01 | 9.94E+00 | **1.32E-01** | 1.49E+01 | 1.75E+01 | 1.64E+01 |
| **f13** | 1.31E-12 | **2.96E-16** | 3.69E-01 | 3.38E-02 | 2.41E-12 | **8.98E-16** | 3.71E-01 | 4.69E-02 | 3.95E-12 | **2.65E-14** | 2.36E+00 | 1.00E+00 | 5.56E-12 | **4.98E-14** | 2.50E+00 | 1.76E+00 |
| **f14** | 8.85E-14 | **-7.40E-18** | 5.98E-03 | 5.39E-06 | 8.92E-14 | **2.77E-17** | 1.93E-02 | 9.51E-06 | 3.27E-13 | **-7.40E-18** | 1.58E-03 | 5.18E-05 | 2.76E-13 | **2.77E-17** | 1.65E-03 | 4.85E-05 |
| **Multi-Modal Functions** | | | | | | | | | | | | | | | | |
| **f15** | 2.32E-01 | 1.99E-01 | 7.99E-01 | **1.33E-01** | 4.00E-01 | 3.98E-01 | 4.71E-01 | **3.38E-01** | **7.74E-01** | 7.96E-01 | 2.48E+00 | 1.67E+00 | **5.83E-01** | 7.45E-01 | 1.25E+00 | 2.26E+00 |
| **f16** | **0** | **0** | 2.22E-02 | 2.28E-02 | **0** | **0** | 3.34E-02 | 7.90E-02 | **3.36E-02** | 3.41E-02 | 2.68E-01 | 6.28E-02 | 1.17E-01 | 8.79E-02 | 2.06E-01 | **8.57E-02** |
| **f17** | 3.82E-13 | **-6.48E-18** | 1.32E-02 | 1.98E-06 | 1.45E-13 | **2.42E-17** | 1.17E-02 | 7.17E-06 | **2.85E-06** | 1.13E-05 | 3.41E-02 | 6.52E-03 | **7.32E-06** | 2.89E-05 | 2.93E-02 | 2.27E-02 |
| **f18** | 2.09E-01 | **2.23E-08** | 2.49E-01 | 6.99E-02 | 7.81E-01 | **8.33E-08** | 2.62E-01 | 2.55E-01 | 7.85E-02 | **7.08E-02** | 3.35E-01 | 2.37E-01 | **1.55E-01** | 2.49E-01 | 3.74E-01 | 3.70E-01 |
| **f19** | 1.63E-03 | 5.24E-03 | 4.69E-03 | **1.05E-03** | 4.34E-03 | 7.40E-03 | 6.42E-03 | **3.92E-03** | 9.82E-02 | **1.30E-02** | 1.08E-01 | 5.46E-02 | 7.93E-02 | **2.62E-02** | 4.57E-02 | 4.61E-02 |
| **Multi-Modal with Weak Global Structure Functions** | | | | | | | | | | | | | | | | |
| **f20** | 2.07E-01 | 1.97E-01 | **4.23E-02** | 7.90E-02 | 3.49E-01 | 2.79E-01 | **1.24E-01** | 2.01E-01 | 5.44E-01 | 2.11E-01 | **1.82E-01** | 2.31E-01 | 2.92E-01 | **2.44E-01** | 2.84E-01 | 2.70E-01 |
| **f21** | 4.61E-02 | 6.20E-02 | 1.59E-04 | **0** | 1.73E-01 | 2.32E-01 | 5.73E-04 | **0** | 3.16E-01 | 2.37E-01 | **1.44E-03** | 2.49E-01 | 4.64E-01 | 4.11E-01 | **5.01E-03** | 5.12E-01 |
| **f22** | 7.18E-02 | 9.22E-02 | **1.26E-02** | 2.19E-01 | 1.92E-01 | 2.35E-01 | **2.39E-02** | 6.57E-01 | 2.97E-01 | **4.61E-02** | 1.46E-01 | 9.22E-02 | 5.23E-01 | **1.73E-01** | 2.29E-01 | 2.35E-01 |
| **f23** | **6.17E-02** | 3.41E-01 | 4.69E-01 | 2.96E-01 | **1.48E-01** | 3.16E-01 | 2.78E-01 | 2.23E-01 | **4.49E-01** | 8.78E-01 | 8.69E-01 | 7.11E-01 | 5.84E-01 | 5.13E-01 | 3.79E-01 | **3.25E-01** |
| **f24** | **1.27E+00** | 1.87E+00 | 1.88E+00 | 1.41E+00 | 8.58E-01 | 6.65E-01 | **5.95E-01** | 9.00E-01 | **2.67E+00** | 2.92E+00 | 4.23E+00 | 3.53E+00 | 1.22E+00 | 1.28E+00 | 9.42E-01 | **3.32E-01** |
| **Results** | | | | | | | | | | | | | | | | |
| **Fraction** | 12/24 | 15/24 | 3/24 | 7/24 | 11/24 | 15/24 | 4/24 | 7/24 | 14/24 | 13/24 | 5/24 | 2/24 | 12/24 | 14/24 | 3/24 | 5/24 |
| **Percentage** | 50.00% | 62.50% | 12.50% | 29.17% | 45.83% | 62.50% | 16.67% | 29.17% | 58.33% | 54.17% | 20.83% | 8.33% | 50.00% | 58.33% | 12.50% | 20.83% |

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| **Functions** | **5-D** | | | | | | | | **10-D** | | | | | | | |
| **Average** | | | | **STD** | | | | **Average** | | | | **STD** | | | |
| **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** |
| **Separable Functions** | | | | | | | | | | | | | | | | |
| **f1** | **0** | **0** | 1.61E-02 | 6.89E-14 | **0** | **0** | 3.78E-02 | 1.53E-13 | **2.66E-15** | 1.17E-12 | 3.18E-01 | 2.97E-07 | **4.91E-15** | 3.95E-12 | 1.19E-01 | 5.86E-07 |
| **f2** | **0** | **0** | 5.28E+01 | 8.99E+01 | **0** | **0** | 9.19E+01 | 2.64E+02 | **1.96E-01** | 4.34E+01 | 1.63E+03 | 1.26E+03 | **3.68E-01** | 8.64E+01 | 1.51E+03 | 1.28E+03 |
| **f3** | 3.32E+00 | 4.75E+00 | **2.01E+00** | 2.71E+00 | 1.61E+00 | 2.90E+00 | **9.68E-01** | 1.66E+00 | **1.23E+01** | 3.19E+01 | 1.43E+01 | 1.42E+01 | 4.79E+00 | 1.44E+01 | **3.73E+00** | 6.23E+00 |
| **f4** | 6.34E+00 | 7.83E+00 | **3.05E+00** | 3.88E+00 | 2.76E+00 | 4.62E+00 | **1.18E+00** | 1.61E+00 | 1.83E+01 | 4.77E+01 | 2.38E+01 | **1.72E+01** | **6.72E+00** | 2.39E+01 | 6.91E+00 | 8.15E+00 |
| **f5** | **-7.40E-15** | **-7.40E-15** | **-7.40E-15** | **-7.40E-15** | **2.91E-14** | **2.91E-14** | **2.91E-14** | **2.91E-14** | **-7.40E-15** | **-7.40E-15** | 3.03E-01 | 1.53E+00 | **2.95E-14** | **2.95E-14** | 2.53E-01 | 3.93E+00 |
| **Low or Moderate Condition Functions** | | | | | | | | | | | | | | | | |
| **f6** | **3.53E-14** | 4.04E-12 | 2.28E+00 | 1.67E+00 | **3.72E-14** | 6.84E-12 | 1.13E+00 | 4.04E+00 | **3.26E-09** | 5.60E-02 | 2.71E+01 | 1.65E+01 | **7.84E-09** | 1.52E-01 | 8.75E+00 | 1.30E+01 |
| **f7** | **5.00E-15** | 1.14E-02 | 5.32E-01 | 4.04E-01 | **9.71E-15** | 4.25E-02 | 3.62E-01 | 5.88E-01 | **2.34E-01** | 3.00E+00 | 7.17E+00 | 2.81E+00 | **2.56E-01** | 3.20E+00 | 3.68E+00 | 2.42E+00 |
| **f8** | **1.55E-02** | 5.24E-01 | 4.23E+00 | 9.61E-01 | **5.81E-02** | 1.34E+00 | 4.19E+00 | 5.18E-01 | **9.69E-01** | 7.03E+00 | 7.75E+01 | 7.62E+00 | **1.51E+00** | 1.67E+01 | 5.01E+01 | 2.90E+00 |
| **f9** | **0** | 4.72E-01 | 5.29E+00 | 1.50E+00 | **0** | 1.21E+00 | 5.79E+00 | 1.34E+00 | **7.03E-01** | 3.68E+00 | 7.55E+01 | 1.03E+01 | **1.32E+00** | 2.17E+00 | 3.17E+01 | 1.01E+01 |
| **High Condition Functions** | | | | | | | | | | | | | | | | |
| **f10** | **0** | **0** | 6.41E+02 | 3.16E+02 | **0** | **0** | 4.86E+02 | 4.61E+02 | **1.01E-01** | 1.82E+01 | 1.20E+04 | 5.89E+03 | **1.46E-01** | 2.00E+01 | 7.44E+03 | 2.98E+03 |
| **f11** | 4.74E-16 | **0** | 1.23E+01 | 2.53E+01 | 1.77E-15 | **0** | 8.13E+00 | 1.85E+01 | **1.36E-03** | 3.07E+00 | 6.29E+01 | 7.39E+01 | **3.63E-03** | 6.84E+00 | 1.98E+01 | 2.49E+01 |
| **f12** | 1.64E-01 | **9.29E-02** | 3.04E+03 | 1.51E+01 | 4.08E-01 | **1.74E-01** | 2.75E+03 | 1.65E+01 | **5.00E-01** | 8.54E+00 | 3.24E+05 | 1.76E+05 | **9.55E-01** | 1.44E+01 | 1.81E+05 | 6.59E+05 |
| **f13** | 1.45E-09 | **3.45E-13** | 1.31E+01 | 1.06E+01 | 2.51E-09 | **2.48E-13** | 6.15E+00 | 1.38E+01 | 2.91E-01 | **5.40E-02** | 1.29E+02 | 2.04E+01 | 4.61E-01 | **1.72E-01** | 2.74E+01 | 2.62E+01 |
| **f14** | 7.75E-13 | **8.53E-15** | 1.90E-02 | 2.84E-04 | 1.49E-12 | **2.82E-14** | 1.88E-02 | 1.71E-04 | **6.06E-07** | 2.68E-05 | 3.15E-01 | 2.03E-03 | **6.24E-07** | 4.11E-05 | 1.34E-01 | 6.65E-04 |
| **Multi-Modal Functions** | | | | | | | | | | | | | | | | |
| **f15** | **2.32E+00** | 3.53E+00 | 9.20E+00 | 6.20E+00 | **1.39E+00** | 1.62E+00 | 3.42E+00 | 3.26E+00 | **8.69E+00** | 3.57E+01 | 4.82E+01 | 2.70E+01 | **3.40E+00** | 1.60E+01 | 8.61E+00 | 1.29E+01 |
| **f16** | **2.38E-01** | 1.18E+00 | 1.67E+00 | 3.74E-01 | **3.51E-01** | 1.92E+00 | 7.81E-01 | 6.14E-01 | **2.27E+00** | 1.20E+01 | 9.64E+00 | 4.07E+00 | **2.22E+00** | 3.90E+00 | 2.23E+00 | 2.85E+00 |
| **f17** | **1.17E-03** | 7.57E-03 | 2.51E-01 | 2.26E-02 | **3.16E-03** | 2.29E-02 | 1.40E-01 | 3.44E-02 | 4.93E-01 | **4.30E-01** | 9.89E-01 | 5.54E-01 | 1.19E+00 | 4.24E-01 | **3.13E-01** | 6.75E-01 |
| **f18** | 9.08E-02 | **7.49E-02** | 8.96E-01 | 1.35E-01 | 1.78E-01 | **1.49E-01** | 4.10E-01 | 1.73E-01 | **2.72E-01** | 2.80E+00 | 4.91E+00 | 1.69E+00 | **3.71E-01** | 4.11E+00 | 2.52E+00 | 1.21E+00 |
| **f19** | **3.83E-01** | 7.93E-01 | 8.27E-01 | 5.50E-01 | 2.63E-01 | 3.90E-01 | 2.62E-01 | **2.14E-01** | **2.08E+00** | 3.02E+00 | 3.22E+00 | 2.75E+00 | 9.22E-01 | 6.55E-01 | 4.86E-01 | **4.63E-01** |
| **Multi-Modal with Weak Global Structure Functions** | | | | | | | | | | | | | | | | |
| **f20** | 1.14E+00 | **5.42E-01** | 6.74E-01 | 5.47E-01 | 3.46E-01 | **2.32E-01** | 2.44E-01 | 3.19E-01 | 1.57E+00 | 1.28E+00 | 1.60E+00 | **1.08E+00** | 3.34E-01 | 2.85E-01 | 3.10E-01 | **2.58E-01** |
| **f21** | 6.36E-01 | 7.27E-01 | **4.65E-01** | 1.13E+00 | 7.08E-01 | 7.54E-01 | **5.98E-01** | 7.89E-01 | **1.54E+00** | 4.74E+00 | 3.52E+00 | 2.43E+00 | **1.84E+00** | 5.25E+00 | 2.61E+00 | 1.87E+00 |
| **f22** | 9.59E-01 | **7.50E-01** | 8.15E-01 | 9.57E-01 | 8.75E-01 | 1.86E+00 | **7.48E-01** | 1.37E+00 | 8.57E+00 | 6.86E+00 | 4.70E+00 | **3.25E+00** | 1.28E+01 | 6.94E+00 | **3.77E+00** | 5.20E+00 |
| **f23** | **8.27E-01** | 1.46E+00 | 1.16E+00 | 8.43E-01 | 5.77E-01 | 4.08E-01 | **2.45E-01** | 3.98E-01 | 1.94E+00 | 1.94E+00 | 1.79E+00 | **1.59E+00** | 3.73E-01 | 5.30E-01 | 3.97E-01 | **2.16E-01** |
| **f24** | **8.10E+00** | 1.10E+01 | 1.22E+01 | 1.01E+01 | **2.56E+00** | 3.00E+00 | 3.44E+00 | 3.20E+00 | **3.72E+01** | 4.87E+01 | 5.73E+01 | 4.98E+01 | 1.37E+01 | 8.14E+00 | 8.38E+00 | **5.00E+00** |
| **Results** | | | | | | | | | | | | | | | | |
| **Fraction** | 14/24 | 11/24 | 4/24 | 1/24 | 12/24 | 10/24 | 6/24 | 1/24 | 18/24 | 3/24 | 0/24 | 4/24 | 16/24 | 2/24 | 3/24 | 4/24 |
| **Percentage** | 58.33% | 45.83% | 16.67% | 4.17% | 50.00% | 41.67% | 25.00% | 4.17% | 75.00% | 12.50% | 0.00% | 16.67% | 66.67% | 8.33% | 12.50% | 16.67% |

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| **Functions** | **20-D** | | | | | | | | **Overall** | | | | | | | |
| **Average** | | | | **STD** | | | | **Average** | | | | **STD** | | | |
| **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** | **BIPOP** | **DEAE** | **GA** | **PSO** |
| **Separable Functions** | | | | | | | | | | | | | | | | |
| **f1** | **2.59E-14** | 1.69E+00 | 5.04E+00 | 3.88E-01 | **2.97E-14** | 2.53E+00 | 1.45E+00 | 8.60E-01 | **5.71E-15** | 3.37E-01 | 1.08E+00 | 7.76E-02 | **1.68E-14** | 1.32E+00 | 2.09E+00 | 4.15E-01 |
| **f2** | **2.74E+03** | 3.45E+03 | 5.26E+04 | 2.00E+04 | 3.04E+03 | **2.59E+03** | 3.75E+04 | 3.84E+04 | **5.49E+02** | 6.99E+02 | 1.08E+04 | 4.28E+03 | **1.75E+03** | 1.80E+03 | 2.68E+04 | 1.89E+04 |
| **f3** | **3.17E+01** | 1.64E+02 | 1.13E+02 | 6.18E+01 | **7.19E+00** | 3.91E+01 | 1.40E+01 | 1.60E+01 | **9.61E+00** | 4.03E+01 | 2.59E+01 | 1.58E+01 | **1.25E+01** | 6.58E+01 | 4.44E+01 | 2.48E+01 |
| **f4** | **5.43E+01** | 2.60E+02 | 1.54E+02 | 7.63E+01 | 1.63E+01 | 7.15E+01 | 2.80E+01 | **1.61E+01** | **1.65E+01** | 6.34E+01 | 3.62E+01 | 1.97E+01 | **2.14E+01** | 1.05E+02 | 6.08E+01 | 3.01E+01 |
| **f5** | **2.29E-14** | **2.29E-14** | 2.67E+01 | 1.90E+01 | **3.81E-14** | **3.81E-14** | 5.40E+00 | 1.85E+01 | **1.69E-15** | **1.69E-15** | 5.40E+00 | 4.11E+00 | **2.76E-14** | **2.76E-14** | 1.09E+01 | 1.13E+01 |
| **Low or Moderate Condition Functions** | | | | | | | | | | | | | | | | |
| **f6** | **1.93E-02** | 1.30E+02 | 1.73E+02 | 1.51E+02 | **1.32E-02** | 6.44E+01 | 5.58E+01 | 8.30E+01 | **3.87E-03** | 2.59E+01 | 4.06E+01 | 3.38E+01 | **9.72E-03** | 5.93E+01 | 7.17E+01 | 6.98E+01 |
| **f7** | **5.58E+00** | 6.87E+01 | 5.87E+01 | 2.72E+01 | **2.91E+00** | 4.41E+01 | 1.91E+01 | 2.07E+01 | **1.16E+00** | 1.43E+01 | 1.33E+01 | 6.08E+00 | **2.57E+00** | 3.36E+01 | 2.45E+01 | 1.41E+01 |
| **f8** | **1.48E+01** | 1.54E+02 | 1.62E+03 | 8.72E+01 | **2.52E+00** | 1.79E+02 | 6.40E+02 | 8.16E+01 | **3.16E+00** | 3.24E+01 | 3.41E+02 | 1.92E+01 | **5.98E+00** | 1.01E+02 | 7.03E+02 | 5.00E+01 |
| **f9** | **1.76E+01** | 7.52E+01 | 9.27E+02 | 6.51E+01 | **1.43E+01** | 6.25E+01 | 4.20E+02 | 4.80E+01 | **3.65E+00** | 1.59E+01 | 2.02E+02 | 1.54E+01 | **9.46E+00** | 4.08E+01 | 4.10E+02 | 3.34E+01 |
| **High Condition Functions** | | | | | | | | | | | | | | | | |
| **f10** | 3.37E+03 | **3.10E+03** | 1.61E+05 | 6.04E+04 | **2.13E+03** | 2.77E+03 | 7.27E+04 | 3.07E+04 | 6.73E+02 | **6.23E+02** | 3.48E+04 | 1.33E+04 | **1.65E+03** | 1.75E+03 | 7.13E+04 | 2.74E+04 |
| **f11** | 3.27E+02 | **7.30E+01** | 1.72E+02 | 1.83E+02 | 1.18E+02 | 4.76E+01 | **3.39E+01** | 4.13E+01 | 6.53E+01 | **1.52E+01** | 5.17E+01 | 5.97E+01 | 1.41E+02 | **3.60E+01** | 6.66E+01 | 7.05E+01 |
| **f12** | **3.64E+00** | 4.52E+06 | 9.96E+06 | 2.42E+05 | **4.06E+00** | 7.48E+06 | 4.36E+06 | 5.00E+05 | **8.68E-01** | 9.05E+05 | 2.06E+06 | 8.36E+04 | **2.34E+00** | 3.80E+06 | 4.41E+06 | 3.84E+05 |
| **f13** | **5.40E+00** | 1.48E+02 | 4.34E+02 | 1.01E+02 | **4.05E+00** | 1.07E+02 | 6.74E+01 | 8.64E+01 | **1.14E+00** | 2.97E+01 | 1.16E+02 | 2.66E+01 | **2.81E+00** | 7.63E+01 | 1.69E+02 | 5.57E+01 |
| **f14** | **3.89E-04** | 1.05E+00 | 3.75E+00 | 5.05E-01 | **1.12E-04** | 1.13E+00 | 2.06E+00 | 8.83E-01 | **7.80E-05** | 2.10E-01 | 8.18E-01 | 1.02E-01 | **1.64E-04** | 6.57E-01 | 1.74E+00 | 4.43E-01 |
| **Multi-Modal Functions** | | | | | | | | | | | | | | | | |
| **f15** | **4.18E+01** | 2.05E+02 | 1.79E+02 | 1.12E+02 | 2.62E+01 | 4.41E+01 | **2.20E+01** | 2.67E+01 | **1.08E+01** | 4.90E+01 | 4.80E+01 | 2.95E+01 | **1.98E+01** | 8.17E+01 | 6.88E+01 | 4.46E+01 |
| **f16** | **3.23E+00** | 2.56E+01 | 2.09E+01 | 1.47E+01 | **2.24E+00** | 2.76E+00 | 3.59E+00 | 3.66E+00 | **1.15E+00** | 7.77E+00 | 6.51E+00 | 3.85E+00 | **1.95E+00** | 1.03E+01 | 8.25E+00 | 6.01E+00 |
| **f17** | **5.12E-02** | 5.00E+00 | 3.13E+00 | 1.93E+00 | **5.11E-02** | 2.07E+00 | 6.82E-01 | 8.31E-01 | **1.09E-01** | 1.09E+00 | 8.84E-01 | 5.03E-01 | **5.68E-01** | 2.18E+00 | 1.23E+00 | 8.85E-01 |
| **f18** | **6.96E-01** | 1.83E+01 | 1.32E+01 | 7.27E+00 | **1.01E+00** | 7.65E+00 | 2.43E+00 | 2.76E+00 | **2.69E-01** | 4.24E+00 | 3.91E+00 | 1.88E+00 | **6.44E-01** | 8.09E+00 | 5.19E+00 | 3.08E+00 |
| **f19** | **5.03E+00** | 5.37E+00 | 6.00E+00 | 5.39E+00 | **3.04E-01** | 3.35E-01 | 5.83E-01 | 8.67E-01 | **1.52E+00** | 1.84E+00 | 2.03E+00 | 1.75E+00 | **1.96E+00** | 2.12E+00 | 2.33E+00 | 2.13E+00 |
| **Multi-Modal with Weak Global Structure Functions** | | | | | | | | | | | | | | | | |
| **f20** | 1.86E+00 | 1.93E+00 | 1.56E+01 | **1.64E+00** | 2.76E-01 | 3.41E-01 | 2.22E+01 | **2.10E-01** | 1.06E+00 | 8.32E-01 | 3.61E+00 | **7.15E-01** | 6.95E-01 | 7.30E-01 | 1.16E+01 | **6.30E-01** |
| **f21** | **2.86E+00** | 8.19E+00 | 1.51E+01 | 4.67E+00 | **2.88E+00** | 6.88E+00 | 7.14E+00 | 5.13E+00 | **1.08E+00** | 2.79E+00 | 3.81E+00 | 1.69E+00 | **1.88E+00** | 5.04E+00 | 6.71E+00 | 3.01E+00 |
| **f22** | **1.32E+01** | 1.73E+01 | 1.76E+01 | **1.32E+01** | 1.06E+01 | 1.47E+01 | **1.03E+01** | 1.28E+01 | 4.63E+00 | 5.02E+00 | 4.66E+00 | **3.55E+00** | 9.15E+00 | 9.91E+00 | 8.32E+00 | **7.95E+00** |
| **f23** | 3.23E+00 | 3.42E+00 | 3.03E+00 | **2.59E+00** | 4.29E-01 | 4.07E-01 | **3.64E-01** | 5.53E-01 | 1.30E+00 | 1.61E+00 | 1.46E+00 | **1.20E+00** | 1.24E+00 | 1.14E+00 | 9.56E-01 | **8.85E-01** |
| **f24** | **1.31E+02** | 1.72E+02 | 1.80E+02 | 1.50E+02 | **1.14E+01** | 1.45E+01 | 1.34E+01 | 1.33E+01 | **3.61E+01** | 4.72E+01 | 5.12E+01 | 4.30E+01 | **4.99E+01** | 6.49E+01 | 6.81E+01 | 5.68E+01 |
| **Results** | | | | | | | | | | | | | | | | |
| **Fraction** | 20/24 | 3/24 | 0/24 | 3/24 | 17/24 | 2/24 | 4/24 | 2/24 | 19/24 | 3/24 | 0/24 | 3/24 | 20/24 | 2/24 | 0/24 | 3/24 |
| **Percentage** | 83.33% | 12.50% | 0.00% | 12.50% | 70.83% | 8.33% | 16.67% | 8.33% | 79.17% | 12.50% | 0.00% | 12.50% | 83.33% | 8.33% | 0.00% | 12.50% |