**Reference values of bioelectrical impedance analysis for detecting breast cancer–related lymphedema**

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**Supplement 1-1). Individual bioimpedance analysis data: healthy woman without breast cancer or related edema**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Patient No. | Age (years) | BMI (kg/m²) | ECF ratio of the dominant arm | SFBIA ratio at 1 kHz of the dominant arm | SFBIA ratio at 5 kHz of the dominant arm | ECF ratio of the non-dominant arm | SFBIA ratio at 1 kHz of the non-dominant arm | SFBIA ratio at 5 kHz of the non-dominant arm |
| 1 | 62 | 25.4 | 1.000 | 1.015 | 1.018 | 1.000 | 0.985 | 0.982 |
| 2 | 56 | 22.9 | 1.008 | 1.023 | 1.023 | 0.992 | 0.977 | 0.977 |
| 3 | 53 | 20.9 | 1.008 | 1.016 | 1.021 | 0.992 | 0.984 | 0.980 |
| 4 | 68 | 25.6 | 1.005 | 1.040 | 1.042 | 0.995 | 0.962 | 0.960 |
| 5 | 35 | 19.3 | 1.000 | 1.020 | 1.020 | 1.000 | 0.980 | 0.980 |
| 6 | 60 | 23.9 | 0.997 | 1.014 | 1.020 | 1.003 | 0.986 | 0.980 |
| 7 | 49 | 28.6 | 0.997 | 0.974 | 0.976 | 1.003 | 1.027 | 1.024 |
| 8 | 21 | 18.6 | 1.003 | 0.993 | 0.993 | 0.997 | 1.007 | 1.007 |
| 9 | 72 | 26.9 | 1.005 | 1.017 | 1.020 | 0.995 | 0.984 | 0.980 |
| 10 | 81 | 21.7 | 1.003 | 0.960 | 0.957 | 0.997 | 1.042 | 1.045 |
| 11 | 68 | 22.1 | 1.000 | 0.967 | 0.963 | 1.000 | 1.034 | 1.039 |
| 12 | 53 | 22.0 | 1.005 | 1.024 | 1.027 | 0.995 | 0.977 | 0.974 |
| 13 | 37 | 20.2 | 1.000 | 1.016 | 1.014 | 1.000 | 0.985 | 0.986 |
| 14 | 55 | 22.2 | 1.003 | 1.040 | 1.042 | 0.997 | 0.961 | 0.960 |
| 15 | 50 | 23.3 | 0.997 | 1.029 | 1.025 | 1.003 | 0.972 | 0.976 |
| 16 | 44 | 20.9 | 1.000 | 1.015 | 1.008 | 1.000 | 0.985 | 0.992 |
| 17 | 58 | 20.3 | 1.005 | 0.990 | 0.983 | 0.995 | 1.011 | 1.017 |
| 18 | 54 | 17.8 | 1.005 | 1.019 | 1.023 | 0.995 | 0.981 | 0.978 |
| 19 | 53 | 23.3 | 1.005 | 0.987 | 0.994 | 0.995 | 1.013 | 1.006 |
| 20 | 68 | 26.0 | 1.000 | 0.988 | 0.989 | 1.000 | 1.012 | 1.011 |
| 21 | 52 | 24.8 | 0.997 | 1.026 | 1.031 | 1.003 | 0.974 | 0.970 |
| 22 | 70 | 21.0 | 0.997 | 1.047 | 1.046 | 1.003 | 0.955 | 0.956 |
| 23 | 49 | 19.8 | 0.997 | 0.982 | 0.984 | 1.003 | 1.019 | 1.016 |
| 24 | 51 | 17.8 | 1.005 | 0.993 | 0.997 | 0.995 | 1.007 | 1.003 |
| 25 | 55 | 23.0 | 1.003 | 0.970 | 0.976 | 0.997 | 1.031 | 1.024 |
| 26 | 37 | 19.3 | 1.003 | 1.005 | 1.001 | 0.997 | 0.995 | 0.999 |
| 27 | 52 | 21.6 | 1.003 | 1.018 | 1.016 | 0.997 | 0.982 | 0.984 |
| 28 | 39 | 20.7 | 1.000 | 1.012 | 1.012 | 1.000 | 0.989 | 0.988 |
| 29 | 56 | 23.4 | 1.008 | 1.018 | 1.019 | 0.992 | 0.983 | 0.981 |
| 30 | 58 | 22.6 | 0.997 | 0.986 | 0.986 | 1.003 | 1.015 | 1.014 |
| 31 | 51 | 25.2 | 1.005 | 1.006 | 1.007 | 0.995 | 0.994 | 0.993 |
| 32 | 49 | 25.0 | 0.995 | 0.985 | 0.984 | 1.005 | 1.016 | 1.017 |
| 33 | 53 | 26.5 | 1.008 | 1.006 | 1.002 | 0.992 | 0.994 | 0.998 |
| 34 | 54 | 25.6 | 0.997 | 1.073 | 1.081 | 1.003 | 0.932 | 0.925 |
| 35 | 55 | 22.8 | 0.995 | 1.042 | 1.044 | 1.005 | 0.960 | 0.957 |
| 36 | 38 | 19.5 | 1.000 | 1.012 | 1.010 | 1.000 | 0.988 | 0.990 |
| 37 | 55 | 26.0 | 0.989 | 1.014 | 1.006 | 1.011 | 0.987 | 0.994 |
| 38 | 52 | 20.2 | 1.003 | 1.029 | 1.035 | 0.997 | 0.971 | 0.966 |
| 39 | 34 | 27.0 | 0.997 | 1.029 | 1.022 | 1.003 | 0.972 | 0.978 |
| 40 | 49 | 20.3 | 1.003 | 1.004 | 1.002 | 0.997 | 0.996 | 0.998 |
| 41 | 54 | 21.8 | 1.005 | 1.007 | 1.009 | 0.995 | 0.993 | 0.991 |
| 42 | 51 | 36.6 | 1.000 | 0.997 | 1.002 | 1.000 | 1.003 | 0.998 |
| 43 | 57 | 24.5 | 1.000 | 0.950 | 0.954 | 1.000 | 1.052 | 1.049 |
| 44 | 50 | 22.5 | 1.000 | 0.995 | 0.991 | 1.000 | 1.005 | 1.009 |
| 45 | 49 | 22.0 | 1.003 | 1.034 | 1.038 | 0.997 | 0.967 | 0.963 |
| 46 | 47 | 19.3 | 0.995 | 0.997 | 0.998 | 1.005 | 1.003 | 1.002 |
| 47 | 51 | 20.7 | 1.003 | 1.018 | 1.015 | 0.997 | 0.982 | 0.985 |
| 48 | 48 | 26.2 | 1.000 | 1.021 | 1.018 | 1.000 | 0.980 | 0.982 |
| 49 | 34 | 20.9 | 0.989 | 1.064 | 1.064 | 1.011 | 0.940 | 0.940 |
| 50 | 45 | 20.7 | 1.003 | 1.026 | 1.027 | 0.997 | 0.974 | 0.974 |
| 51 | 45 | 25.7 | 1.003 | 1.019 | 1.018 | 0.997 | 0.981 | 0.983 |
| 52 | 30 | 20.3 | 1.005 | 0.972 | 0.967 | 0.995 | 1.029 | 1.034 |
| 53 | 50 | 21.6 | 1.003 | 1.011 | 1.021 | 0.997 | 0.989 | 0.980 |
| 54 | 51 | 23.0 | 1.005 | 1.005 | 1.008 | 0.995 | 0.995 | 0.992 |
| 55 | 55 | 24.7 | 1.003 | 0.984 | 0.983 | 0.997 | 1.016 | 1.018 |
| 56 | 37 | 24.4 | 0.997 | 1.019 | 1.018 | 1.003 | 0.981 | 0.983 |
| 57 | 48 | 25.9 | 1.008 | 0.977 | 0.979 | 0.992 | 1.024 | 1.021 |
| 58 | 70 | 20.5 | 0.995 | 0.926 | 0.928 | 1.005 | 1.080 | 1.077 |
| 59 | 50 | 22.5 | 1.005 | 1.038 | 1.060 | 0.995 | 0.963 | 0.943 |
| 60 | 38 | 19.1 | 1.005 | 1.059 | 1.070 | 0.995 | 0.944 | 0.934 |
| 61 | 41 | 22.2 | 1.008 | 0.995 | 1.005 | 0.992 | 1.005 | 0.995 |
| 62 | 44 | 17.4 | 1.005 | 0.955 | 0.953 | 0.995 | 1.047 | 1.049 |
| 63 | 52 | 25.4 | 1.005 | 0.980 | 0.984 | 0.995 | 1.020 | 1.016 |
| 64 | 49 | 22.4 | 0.997 | 0.965 | 0.964 | 1.003 | 1.036 | 1.038 |
| 65 | 57 | 23.2 | 1.008 | 1.055 | 1.052 | 0.992 | 0.948 | 0.950 |
| 66 | 45 | 21.6 | 0.989 | 1.006 | 1.004 | 1.011 | 0.994 | 0.996 |
| 67 | 36 | 26.9 | 1.003 | 1.040 | 1.041 | 0.997 | 0.962 | 0.960 |
| 68 | 61 | 23.9 | 1.000 | 0.980 | 0.981 | 1.000 | 1.020 | 1.020 |
| 69 | 56 | 24.1 | 0.997 | 1.010 | 1.013 | 1.003 | 0.990 | 0.987 |
| 70 | 61 | 21.7 | 0.995 | 1.044 | 1.036 | 1.005 | 0.958 | 0.965 |
| 71 | 42 | 19.8 | 1.016 | 0.987 | 0.989 | 0.984 | 1.013 | 1.012 |
| 72 | 41 | 25.3 | 1.000 | 1.017 | 1.021 | 1.000 | 0.983 | 0.979 |
| 73 | 51 | 22.2 | 0.997 | 0.998 | 1.006 | 1.003 | 1.002 | 0.994 |
| 74 | 32 | 18.2 | 1.008 | 0.997 | 0.986 | 0.992 | 1.003 | 1.014 |
| 75 | 48 | 29.2 | 1.003 | 0.971 | 0.971 | 0.997 | 1.029 | 1.030 |
| 76 | 53 | 22.8 | 1.003 | 1.015 | 1.012 | 0.997 | 0.985 | 0.989 |
| 77 | 53 | 22.0 | 1.003 | 0.930 | 0.933 | 0.997 | 1.075 | 1.072 |
| 78 | 32 | 19.2 | 0.997 | 1.002 | 1.002 | 1.003 | 0.998 | 0.998 |
| 79 | 55 | 20.8 | 0.997 | 1.031 | 1.026 | 1.003 | 0.970 | 0.975 |
| 80 | 32 | 22.5 | 1.000 | 0.990 | 0.988 | 1.000 | 1.010 | 1.012 |
| 81 | 27 | 19.2 | 1.003 | 1.005 | 1.006 | 0.997 | 0.995 | 0.994 |
| 82 | 49 | 23.0 | 1.008 | 1.063 | 1.063 | 0.992 | 0.941 | 0.940 |
| 83 | 30 | 19.7 | 1.003 | 1.046 | 1.047 | 0.997 | 0.956 | 0.955 |
| 84 | 47 | 23.2 | 1.008 | 0.957 | 0.953 | 0.992 | 1.045 | 1.049 |
| 85 | 58 | 20.7 | 1.003 | 1.011 | 0.993 | 0.997 | 0.989 | 1.007 |
| 86 | 57 | 22.4 | 1.000 | 1.022 | 1.022 | 1.000 | 0.979 | 0.979 |
| 87 | 40 | 21.5 | 1.008 | 1.078 | 1.085 | 0.992 | 0.928 | 0.922 |
| 88 | 28 | 18.4 | 1.005 | 1.019 | 1.020 | 0.995 | 0.981 | 0.981 |
| 89 | 54 | 21.5 | 1.003 | 0.992 | 0.993 | 0.997 | 1.008 | 1.007 |
| 90 | 58 | 24.2 | 1.005 | 1.016 | 1.019 | 0.995 | 0.984 | 0.981 |
| 91 | 66 | 20.6 | 1.003 | 1.013 | 1.012 | 0.997 | 0.987 | 0.988 |
| 92 | 53 | 25.2 | 1.005 | 1.006 | 1.006 | 0.995 | 0.994 | 0.994 |
| 93 | 56 | 25.2 | 1.003 | 0.990 | 0.989 | 0.997 | 1.010 | 1.011 |
| 94 | 47 | 21.4 | 1.003 | 1.021 | 1.021 | 0.997 | 0.979 | 0.980 |
| 95 | 45 | 17.4 | 1.008 | 1.049 | 1.051 | 0.992 | 0.953 | 0.952 |
| 96 | 39 | 21.5 | 1.003 | 0.973 | 0.974 | 0.997 | 1.028 | 1.027 |
| 97 | 54 | 22.7 | 0.997 | 0.997 | 1.005 | 1.003 | 1.003 | 0.995 |
| 98 | 35 | 21.8 | 1.003 | 0.996 | 1.000 | 0.997 | 1.004 | 1.000 |
| 99 | 62 | 22.6 | 1.003 | 1.033 | 1.038 | 0.997 | 0.968 | 0.964 |
| 100 | 52 | 24.5 | 1.005 | 1.019 | 1.015 | 0.995 | 0.981 | 0.985 |
| 101 | 29 | 18.0 | 1.008 | 1.012 | 1.007 | 0.992 | 0.989 | 0.994 |
| 102 | 60 | 18.6 | 1.003 | 1.062 | 1.067 | 0.997 | 0.941 | 0.937 |
| 103 | 58 | 26.8 | 0.995 | 1.060 | 1.059 | 1.005 | 0.943 | 0.944 |
| 104 | 40 | 22.4 | 0.992 | 1.012 | 1.028 | 1.008 | 0.988 | 0.972 |
| 105 | 49 | 24.0 | 1.008 | 1.058 | 1.059 | 0.992 | 0.945 | 0.944 |
| 106 | 45 | 18.4 | 0.997 | 0.973 | 0.976 | 1.003 | 1.027 | 1.025 |
| 107 | 45 | 20.8 | 0.997 | 0.980 | 0.983 | 1.003 | 1.020 | 1.017 |
| 108 | 38 | 23.4 | 1.000 | 1.013 | 1.016 | 1.000 | 0.987 | 0.984 |
| 109 | 60 | 18.9 | 1.000 | 1.008 | 1.007 | 1.000 | 0.992 | 0.993 |
| 110 | 46 | 26.2 | 0.997 | 0.990 | 0.982 | 1.003 | 1.010 | 1.018 |
| 111 | 47 | 20.9 | 0.997 | 1.007 | 1.009 | 1.003 | 0.993 | 0.991 |
| 112 | 40 | 25.3 | 0.997 | 0.993 | 0.983 | 1.003 | 1.007 | 1.017 |
| 113 | 49 | 20.6 | 1.008 | 1.026 | 1.035 | 0.992 | 0.975 | 0.966 |
| 114 | 51 | 24.1 | 0.997 | 0.997 | 0.994 | 1.003 | 1.003 | 1.006 |
| 115 | 42 | 20.1 | 0.995 | 1.011 | 1.009 | 1.005 | 0.989 | 0.991 |
| 116 | 58 | 24.0 | 0.997 | 1.029 | 1.027 | 1.003 | 0.972 | 0.974 |
| 117 | 69 | 33.1 | 1.008 | 0.967 | 0.967 | 0.992 | 1.034 | 1.034 |
| 118 | 64 | 21.5 | 0.997 | 1.034 | 1.043 | 1.003 | 0.968 | 0.959 |
| 119 | 48 | 23.2 | 1.003 | 0.986 | 0.989 | 0.997 | 1.015 | 1.011 |
| 120 | 58 | 31.3 | 1.005 | 0.998 | 1.004 | 0.995 | 1.002 | 0.996 |
| 121 | 72 | 25.4 | 1.013 | 0.913 | 0.902 | 0.987 | 1.095 | 1.108 |
| 122 | 56 | 20.8 | 1.005 | 0.972 | 0.976 | 0.995 | 1.028 | 1.024 |
| 123 | 39 | 24.8 | 1.000 | 1.049 | 1.052 | 1.000 | 0.953 | 0.951 |
| 124 | 38 | 18.4 | 1.003 | 0.982 | 0.980 | 0.997 | 1.018 | 1.020 |
| 125 | 38 | 31.9 | 1.011 | 1.001 | 0.989 | 0.989 | 0.999 | 1.011 |
| 126 | 57 | 22.1 | 1.000 | 1.030 | 1.034 | 1.000 | 0.971 | 0.968 |
| 127 | 50 | 24.0 | 0.997 | 1.015 | 1.017 | 1.003 | 0.985 | 0.983 |
| 128 | 55 | 22.3 | 0.995 | 1.012 | 1.012 | 1.005 | 0.988 | 0.988 |
| 129 | 47 | 17.7 | 0.997 | 1.025 | 1.028 | 1.003 | 0.976 | 0.972 |
| 130 | 54 | 20.8 | 1.000 | 1.021 | 1.022 | 1.000 | 0.979 | 0.979 |
| 131 | 65 | 24.6 | 1.005 | 1.074 | 1.069 | 0.995 | 0.931 | 0.935 |
| 132 | 55 | 21.3 | 0.987 | 1.044 | 1.051 | 1.013 | 0.958 | 0.952 |
| 133 | 39 | 29.4 | 0.997 | 1.003 | 0.997 | 1.003 | 0.997 | 1.003 |
| 134 | 46 | 20.5 | 1.000 | 1.036 | 1.031 | 1.000 | 0.965 | 0.970 |
| 135 | 56 | 27.7 | 1.005 | 1.013 | 1.015 | 0.995 | 0.987 | 0.985 |
| 136 | 54 | 22.2 | 1.013 | 1.049 | 1.049 | 0.987 | 0.953 | 0.953 |
| 137 | 42 | 20.6 | 0.995 | 1.027 | 1.032 | 1.005 | 0.974 | 0.969 |
| 138 | 59 | 24.7 | 0.990 | 1.002 | 1.004 | 1.011 | 0.998 | 0.996 |
| 139 | 30 | 23.0 | 1.000 | 1.006 | 1.008 | 1.000 | 0.994 | 0.992 |
| 140 | 45 | 20.8 | 0.997 | 1.041 | 1.040 | 1.003 | 0.961 | 0.962 |
| 141 | 71 | 22.7 | 1.005 | 1.002 | 1.001 | 0.995 | 0.998 | 0.999 |
| 142 | 62 | 24.2 | 1.011 | 0.947 | 0.944 | 0.990 | 1.056 | 1.059 |
| 143 | 45 | 22.2 | 0.997 | 1.043 | 1.042 | 1.003 | 0.959 | 0.960 |
| 144 | 44 | 21.2 | 1.003 | 1.024 | 1.024 | 0.997 | 0.976 | 0.977 |
| 145 | 50 | 20.4 | 1.003 | 0.979 | 0.974 | 0.997 | 1.021 | 1.027 |
| 146 | 39 | 21.6 | 0.997 | 1.044 | 1.046 | 1.003 | 0.957 | 0.956 |
| 147 | 27 | 26.9 | 1.000 | 0.989 | 0.982 | 1.000 | 1.011 | 1.019 |
| 148 | 35 | 23.2 | 0.997 | 1.041 | 1.046 | 1.003 | 0.960 | 0.956 |
| 149 | 54 | 26.6 | 0.997 | 1.061 | 1.062 | 1.003 | 0.943 | 0.942 |
| 150 | 58 | 22.8 | 1.019 | 1.097 | 1.107 | 0.982 | 0.912 | 0.904 |
| 151 | 73 | 26.8 | 0.995 | 1.006 | 1.007 | 1.005 | 0.994 | 0.993 |
| 152 | 66 | 28.1 | 1.003 | 1.016 | 1.017 | 0.997 | 0.984 | 0.983 |
| 153 | 50 | 20.3 | 0.995 | 1.002 | 1.002 | 1.005 | 0.998 | 0.998 |
| 154 | 46 | 21.0 | 1.003 | 0.977 | 0.974 | 0.997 | 1.024 | 1.026 |
| 155 | 54 | 23.1 | 1.005 | 1.047 | 1.061 | 0.995 | 0.955 | 0.942 |
| 156 | 37 | 19.4 | 1.003 | 1.010 | 1.009 | 0.997 | 0.990 | 0.991 |
| 157 | 54 | 21.1 | 1.000 | 0.991 | 0.986 | 1.000 | 1.009 | 1.014 |
| 158 | 66 | 21.5 | 0.992 | 0.954 | 0.952 | 1.008 | 1.049 | 1.050 |
| 159 | 50 | 21.2 | 1.000 | 1.021 | 1.024 | 1.000 | 0.980 | 0.977 |
| 160 | 47 | 18.0 | 1.008 | 1.060 | 1.058 | 0.992 | 0.943 | 0.945 |
| 161 | 55 | 27.3 | 1.000 | 1.002 | 1.007 | 1.000 | 0.998 | 0.993 |
| 162 | 63 | 21.9 | 1.003 | 1.042 | 1.050 | 0.997 | 0.959 | 0.952 |
| 163 | 55 | 24.7 | 1.008 | 0.978 | 0.980 | 0.992 | 1.023 | 1.020 |
| 164 | 57 | 22.7 | 1.000 | 0.959 | 0.962 | 1.000 | 1.043 | 1.039 |
| 165 | 46 | 25.2 | 1.008 | 1.035 | 1.039 | 0.992 | 0.966 | 0.962 |
| 166 | 57 | 19.4 | 1.013 | 1.050 | 1.052 | 0.987 | 0.952 | 0.950 |
| 167 | 27 | 19.0 | 0.997 | 1.015 | 1.017 | 1.003 | 0.986 | 0.984 |
| 168 | 50 | 20.6 | 1.000 | 1.013 | 1.013 | 1.000 | 0.987 | 0.987 |
| 169 | 46 | 21.3 | 0.997 | 1.040 | 1.046 | 1.003 | 0.962 | 0.956 |
| 170 | 42 | 23.1 | 1.005 | 0.998 | 1.001 | 0.995 | 1.002 | 0.999 |
| 171 | 46 | 21.7 | 1.005 | 1.051 | 1.056 | 0.995 | 0.951 | 0.947 |
| 172 | 52 | 21.2 | 1.005 | 1.031 | 1.039 | 0.995 | 0.970 | 0.962 |
| 173 | 68 | 25.3 | 1.000 | 1.087 | 1.086 | 1.000 | 0.920 | 0.920 |
| 174 | 51 | 24.1 | 0.992 | 1.057 | 1.059 | 1.008 | 0.946 | 0.945 |
| 175 | 48 | 18.7 | 1.003 | 1.050 | 1.049 | 0.997 | 0.953 | 0.953 |
| 176 | 47 | 22.7 | 1.013 | 0.999 | 1.005 | 0.987 | 1.001 | 0.995 |
| 177 | 60 | 18.8 | 1.003 | 1.001 | 1.002 | 0.997 | 0.999 | 0.998 |
| 178 | 54 | 19.7 | 1.000 | 1.028 | 1.027 | 1.000 | 0.973 | 0.974 |
| 179 | 49 | 20.9 | 1.003 | 1.018 | 1.020 | 0.997 | 0.982 | 0.980 |
| 180 | 57 | 20.3 | 0.995 | 1.060 | 1.063 | 1.005 | 0.944 | 0.941 |
| 181 | 51 | 22.6 | 1.000 | 1.035 | 1.043 | 1.000 | 0.967 | 0.959 |
| 182 | 25 | 21.8 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 | 0.999 |
| 183 | 62 | 25.2 | 1.005 | 0.987 | 0.990 | 0.995 | 1.013 | 1.010 |
| 184 | 45 | 21.6 | 1.008 | 1.037 | 1.028 | 0.992 | 0.964 | 0.972 |
| 185 | 77 | 25.6 | 1.003 | 0.981 | 0.982 | 0.997 | 1.019 | 1.019 |
| 186 | 55 | 24.1 | 1.000 | 1.102 | 1.108 | 1.000 | 0.908 | 0.903 |
| 187 | 37 | 19.5 | 1.000 | 1.007 | 1.009 | 1.000 | 0.993 | 0.991 |
| 188 | 40 | 22.8 | 0.992 | 1.033 | 1.031 | 1.008 | 0.968 | 0.970 |
| 189 | 43 | 22.9 | 1.003 | 0.988 | 0.980 | 0.997 | 1.012 | 1.021 |
| 190 | 48 | 22.2 | 1.000 | 0.988 | 0.994 | 1.000 | 1.012 | 1.006 |
| 191 | 50 | 21.7 | 1.000 | 1.008 | 1.002 | 1.000 | 0.992 | 0.998 |
| 192 | 58 | 21.5 | 1.003 | 0.962 | 0.964 | 0.997 | 1.039 | 1.038 |
| 193 | 50 | 24.2 | 1.003 | 0.983 | 0.981 | 0.997 | 1.017 | 1.019 |
| 194 | 51 | 20.9 | 0.992 | 0.977 | 0.969 | 1.008 | 1.024 | 1.032 |
| 195 | 52 | 21.8 | 1.005 | 0.982 | 0.982 | 0.995 | 1.018 | 1.018 |
| 196 | 55 | 14.9 | 1.011 | 0.991 | 0.990 | 0.989 | 1.009 | 1.010 |
| 197 | 40 | 20.1 | 1.005 | 0.998 | 0.994 | 0.995 | 1.002 | 1.006 |
| 198 | 45 | 19.9 | 1.003 | 1.019 | 1.018 | 0.997 | 0.981 | 0.982 |
| 199 | 42 | 22.8 | 0.995 | 1.022 | 1.022 | 1.005 | 0.979 | 0.978 |
| 200 | 71 | 21.7 | 1.005 | 1.023 | 1.023 | 0.995 | 0.978 | 0.977 |
| 201 | 58 | 19.7 | 1.008 | 0.999 | 0.992 | 0.992 | 1.001 | 1.008 |
| 202 | 47 | 19.0 | 1.011 | 1.011 | 1.013 | 0.989 | 0.989 | 0.987 |
| 203 | 42 | 26.2 | 1.003 | 1.004 | 0.998 | 0.997 | 0.996 | 1.002 |
| 204 | 54 | 22.6 | 1.000 | 1.000 | 0.995 | 1.000 | 1.000 | 1.005 |
| 205 | 60 | 26.7 | 0.992 | 1.024 | 1.024 | 1.008 | 0.976 | 0.977 |
| 206 | 42 | 22.0 | 1.000 | 0.994 | 0.994 | 1.000 | 1.006 | 1.006 |
| 207 | 34 | 19.2 | 1.003 | 1.012 | 1.013 | 0.997 | 0.988 | 0.987 |
| 208 | 44 | 21.7 | 0.995 | 1.020 | 1.022 | 1.005 | 0.980 | 0.979 |
| 209 | 38 | 24.5 | 1.011 | 1.021 | 1.026 | 0.989 | 0.979 | 0.974 |
| 210 | 56 | 21.2 | 1.008 | 0.971 | 0.976 | 0.992 | 1.030 | 1.024 |
| 211 | 53 | 21.2 | 0.997 | 1.010 | 1.004 | 1.003 | 0.990 | 0.996 |
| 212 | 43 | 21.3 | 0.997 | 0.986 | 0.992 | 1.003 | 1.014 | 1.008 |
| 213 | 70 | 19.9 | 1.003 | 0.986 | 0.986 | 0.997 | 1.015 | 1.015 |
| 214 | 61 | 21.7 | 1.000 | 0.973 | 0.977 | 1.000 | 1.028 | 1.024 |
| 215 | 52 | 20.6 | 1.005 | 1.084 | 1.089 | 0.995 | 0.923 | 0.919 |
| 216 | 49 | 22.3 | 1.008 | 1.025 | 1.034 | 0.992 | 0.976 | 0.967 |
| 217 | 60 | 21.4 | 0.992 | 0.954 | 0.946 | 1.008 | 1.048 | 1.058 |
| 218 | 52 | 22.4 | 1.008 | 0.967 | 0.967 | 0.992 | 1.034 | 1.034 |
| 219 | 72 | 18.9 | 1.005 | 1.010 | 1.009 | 0.995 | 0.991 | 0.991 |
| 220 | 71 | 23.6 | 0.997 | 1.033 | 1.037 | 1.003 | 0.968 | 0.964 |
| 221 | 62 | 29.5 | 1.000 | 1.009 | 1.023 | 1.000 | 0.991 | 0.977 |
| 222 | 48 | 26.0 | 1.000 | 0.986 | 0.986 | 1.000 | 1.015 | 1.015 |
| 223 | 64 | 23.7 | 0.995 | 0.997 | 0.992 | 1.005 | 1.003 | 1.008 |
| 224 | 63 | 22.0 | 0.992 | 1.012 | 1.002 | 1.008 | 0.988 | 0.998 |
| 225 | 65 | 22.7 | 1.008 | 1.027 | 1.036 | 0.992 | 0.974 | 0.966 |
| 226 | 39 | 21.3 | 1.003 | 1.016 | 1.016 | 0.997 | 0.985 | 0.985 |
| 227 | 60 | 23.5 | 1.000 | 0.974 | 0.974 | 1.000 | 1.027 | 1.027 |
| 228 | 47 | 20.6 | 1.003 | 1.004 | 1.008 | 0.997 | 0.996 | 0.992 |
| 229 | 61 | 22.2 | 1.008 | 0.966 | 0.968 | 0.992 | 1.035 | 1.033 |
| 230 | 58 | 25.5 | 1.005 | 1.021 | 1.021 | 0.995 | 0.980 | 0.979 |
| 231 | 58 | 24.0 | 1.005 | 1.000 | 1.002 | 0.995 | 1.000 | 0.998 |
| 232 | 74 | 24.1 | 1.003 | 1.017 | 1.031 | 0.997 | 0.983 | 0.970 |
| 233 | 58 | 22.0 | 0.997 | 0.980 | 0.983 | 1.003 | 1.020 | 1.017 |
| 234 | 56 | 18.6 | 1.000 | 1.017 | 1.020 | 1.000 | 0.983 | 0.981 |
| 235 | 58 | 24.5 | 0.992 | 1.008 | 1.011 | 1.008 | 0.992 | 0.989 |
| 236 | 64 | 24.6 | 1.000 | 1.028 | 1.028 | 1.000 | 0.973 | 0.973 |
| 237 | 63 | 22.4 | 1.013 | 1.028 | 1.023 | 0.987 | 0.973 | 0.977 |
| 238 | 49 | 19.4 | 1.005 | 1.007 | 1.008 | 0.995 | 0.993 | 0.992 |
| 239 | 41 | 22.3 | 0.995 | 1.007 | 1.011 | 1.005 | 0.993 | 0.989 |
| 240 | 64 | 23.6 | 1.003 | 1.031 | 1.029 | 0.997 | 0.970 | 0.972 |
| 241 | 70 | 24.4 | 1.003 | 0.963 | 0.968 | 0.997 | 1.038 | 1.033 |
| 242 | 52 | 22.7 | 0.997 | 0.929 | 0.931 | 1.003 | 1.076 | 1.075 |
| 243 | 57 | 24.2 | 0.995 | 1.009 | 1.014 | 1.005 | 0.991 | 0.986 |
| 244 | 51 | 25.2 | 1.005 | 0.968 | 0.965 | 0.995 | 1.033 | 1.036 |
| 245 | 59 | 23.9 | 1.005 | 1.012 | 1.007 | 0.995 | 0.988 | 0.993 |
| 246 | 51 | 25.4 | 1.000 | 1.027 | 1.021 | 1.000 | 0.974 | 0.979 |
| 247 | 48 | 26.7 | 1.005 | 0.994 | 0.998 | 0.995 | 1.006 | 1.002 |
| 248 | 59 | 22.0 | 0.995 | 0.997 | 1.004 | 1.005 | 1.003 | 0.997 |
| 249 | 48 | 22.9 | 0.992 | 1.003 | 0.990 | 1.008 | 0.997 | 1.010 |
| 250 | 31 | 19.7 | 1.008 | 1.024 | 1.023 | 0.992 | 0.977 | 0.977 |
| 251 | 44 | 20.7 | 0.992 | 1.015 | 1.014 | 1.008 | 0.986 | 0.986 |
| 252 | 50 | 21.8 | 0.992 | 1.028 | 1.029 | 1.008 | 0.973 | 0.972 |
| 253 | 54 | 21.7 | 1.000 | 1.008 | 1.009 | 1.000 | 0.992 | 0.991 |
| 254 | 62 | 22.0 | 0.997 | 0.970 | 0.964 | 1.003 | 1.031 | 1.037 |
| 255 | 44 | 25.7 | 1.000 | 1.051 | 1.057 | 1.000 | 0.952 | 0.946 |
| 256 | 41 | 20.5 | 1.000 | 0.987 | 0.988 | 1.000 | 1.013 | 1.012 |
| 257 | 48 | 20.4 | 1.008 | 1.060 | 1.068 | 0.992 | 0.943 | 0.936 |
| 258 | 48 | 24.4 | 1.003 | 1.023 | 1.021 | 0.997 | 0.978 | 0.979 |
| 259 | 47 | 21.8 | 1.003 | 1.046 | 1.056 | 0.997 | 0.956 | 0.947 |
| 260 | 50 | 20.4 | 0.992 | 1.012 | 1.014 | 1.008 | 0.988 | 0.987 |
| 261 | 48 | 21.9 | 0.989 | 0.980 | 0.981 | 1.011 | 1.021 | 1.019 |
| 262 | 55 | 26.1 | 1.003 | 0.964 | 0.973 | 0.997 | 1.037 | 1.028 |
| 263 | 49 | 21.7 | 1.000 | 0.995 | 0.986 | 1.000 | 1.005 | 1.015 |
| 264 | 25 | 19.7 | 1.005 | 1.034 | 1.033 | 0.995 | 0.967 | 0.968 |
| 265 | 62 | 21.3 | 0.997 | 1.002 | 0.997 | 1.003 | 0.998 | 1.003 |
| 266 | 32 | 32.9 | 1.008 | 0.990 | 1.002 | 0.992 | 1.010 | 0.998 |
| 267 | 53 | 25.9 | 1.005 | 1.001 | 1.003 | 0.995 | 0.999 | 0.997 |
| 268 | 40 | 28.4 | 0.997 | 1.004 | 1.005 | 1.003 | 0.996 | 0.995 |
| 269 | 60 | 28.3 | 1.005 | 0.949 | 0.949 | 0.995 | 1.054 | 1.053 |
| 270 | 29 | 29.9 | 1.000 | 0.968 | 0.969 | 1.000 | 1.033 | 1.032 |
| 271 | 47 | 18.2 | 1.000 | 1.021 | 1.019 | 1.000 | 0.979 | 0.982 |
| 272 | 44 | 20.3 | 1.008 | 1.021 | 1.026 | 0.992 | 0.979 | 0.975 |
| 273 | 49 | 19.4 | 1.000 | 0.987 | 0.989 | 1.000 | 1.013 | 1.011 |
| 274 | 61 | 28.3 | 0.992 | 1.052 | 1.053 | 1.008 | 0.951 | 0.950 |
| 275 | 53 | 24.0 | 0.995 | 0.990 | 0.977 | 1.005 | 1.010 | 1.024 |
| 276 | 50 | 22.4 | 1.000 | 1.015 | 1.018 | 1.000 | 0.985 | 0.983 |
| 277 | 49 | 28.5 | 1.000 | 1.048 | 1.040 | 1.000 | 0.954 | 0.962 |
| 278 | 53 | 23.8 | 1.000 | 1.030 | 1.024 | 1.000 | 0.971 | 0.977 |
| 279 | 42 | 19.7 | 1.008 | 1.018 | 1.007 | 0.992 | 0.982 | 0.993 |
| 280 | 48 | 22.8 | 1.014 | 0.974 | 0.973 | 0.987 | 1.026 | 1.028 |
| 281 | 34 | 21.3 | 1.003 | 1.010 | 1.012 | 0.997 | 0.990 | 0.989 |
| 282 | 54 | 25.4 | 1.000 | 1.006 | 1.011 | 1.000 | 0.994 | 0.989 |
| 283 | 30 | 22.3 | 0.997 | 1.027 | 1.030 | 1.003 | 0.973 | 0.970 |
| 284 | 41 | 20.0 | 1.003 | 1.028 | 1.029 | 0.997 | 0.973 | 0.972 |
| 285 | 54 | 28.7 | 1.003 | 0.996 | 0.999 | 0.997 | 1.004 | 1.001 |
| 286 | 63 | 29.1 | 1.005 | 0.972 | 0.975 | 0.995 | 1.029 | 1.025 |
| 287 | 43 | 19.6 | 1.000 | 1.057 | 1.062 | 1.000 | 0.946 | 0.941 |
| 288 | 43 | 23.9 | 1.005 | 0.991 | 1.002 | 0.995 | 1.009 | 0.998 |
| 289 | 72 | 27.4 | 1.003 | 1.008 | 1.008 | 0.997 | 0.992 | 0.992 |
| 290 | 25 | 19.7 | 1.011 | 1.018 | 1.023 | 0.990 | 0.982 | 0.978 |
| 291 | 49 | 19.4 | 1.000 | 1.047 | 1.048 | 1.000 | 0.955 | 0.954 |
| 292 | 42 | 29.8 | 1.000 | 1.014 | 1.010 | 1.000 | 0.986 | 0.990 |
| 293 | 66 | 23.3 | 1.005 | 0.973 | 0.960 | 0.995 | 1.028 | 1.042 |
| 294 | 65 | 20.6 | 0.997 | 1.009 | 1.020 | 1.003 | 0.991 | 0.980 |
| 295 | 45 | 19.0 | 1.003 | 1.015 | 1.019 | 0.997 | 0.985 | 0.981 |
| 296 | 23 | 19.9 | 1.008 | 1.024 | 1.026 | 0.992 | 0.977 | 0.975 |
| 297 | 60 | 30.6 | 1.003 | 1.011 | 0.990 | 0.997 | 0.990 | 1.010 |
| 298 | 54 | 21.5 | 1.005 | 0.955 | 0.952 | 0.995 | 1.047 | 1.050 |
| 299 | 42 | 27.3 | 1.003 | 1.013 | 1.007 | 0.997 | 0.987 | 0.993 |
| 300 | 54 | 21.6 | 1.008 | 1.051 | 1.055 | 0.992 | 0.952 | 0.948 |
| 301 | 57 | 20.6 | 0.990 | 1.022 | 1.021 | 1.011 | 0.979 | 0.979 |
| 302 | 44 | 21.3 | 1.000 | 1.035 | 1.032 | 1.000 | 0.966 | 0.969 |
| 303 | 24 | 18.2 | 1.008 | 1.003 | 1.003 | 0.992 | 0.997 | 0.997 |
| 304 | 65 | 23.3 | 1.003 | 1.013 | 1.024 | 0.997 | 0.987 | 0.977 |
| 305 | 48 | 20.6 | 1.000 | 1.010 | 1.009 | 1.000 | 0.990 | 0.991 |
| 306 | 48 | 21.8 | 0.997 | 1.010 | 1.016 | 1.003 | 0.990 | 0.985 |
| 307 | 54 | 21.0 | 1.003 | 0.998 | 0.999 | 0.997 | 1.002 | 1.001 |
| 308 | 46 | 22.4 | 1.011 | 0.998 | 1.007 | 0.989 | 1.002 | 0.993 |
| 309 | 45 | 19.0 | 0.997 | 1.009 | 1.015 | 1.003 | 0.991 | 0.985 |
| 310 | 69 | 20.9 | 1.016 | 1.040 | 1.034 | 0.984 | 0.962 | 0.967 |
| 311 | 56 | 24.3 | 1.000 | 0.998 | 0.990 | 1.000 | 1.002 | 1.010 |
| 312 | 51 | 24.2 | 1.008 | 1.030 | 1.032 | 0.992 | 0.971 | 0.969 |
| 313 | 35 | 19.1 | 1.000 | 0.995 | 0.997 | 1.000 | 1.005 | 1.003 |
| 314 | 38 | 20.6 | 0.995 | 0.988 | 0.988 | 1.005 | 1.012 | 1.012 |
| 315 | 52 | 20.1 | 0.997 | 1.031 | 1.030 | 1.003 | 0.970 | 0.971 |
| 316 | 62 | 19.0 | 1.005 | 0.979 | 0.980 | 0.995 | 1.021 | 1.021 |
| 317 | 74 | 22.4 | 1.003 | 1.033 | 1.034 | 0.997 | 0.968 | 0.967 |
| 318 | 54 | 20.7 | 0.997 | 1.045 | 1.043 | 1.003 | 0.957 | 0.959 |
| 319 | 57 | 22.6 | 1.000 | 1.013 | 1.019 | 1.000 | 0.987 | 0.982 |
| 320 | 57 | 25.0 | 1.003 | 0.986 | 0.990 | 0.997 | 1.014 | 1.010 |
| 321 | 80 | 22.9 | 0.997 | 0.989 | 0.991 | 1.003 | 1.011 | 1.009 |
| 322 | 58 | 25.0 | 1.005 | 1.021 | 1.024 | 0.995 | 0.979 | 0.976 |
| 323 | 53 | 30.9 | 1.000 | 1.007 | 1.011 | 1.000 | 0.993 | 0.989 |
| 324 | 66 | 21.8 | 1.003 | 1.037 | 1.039 | 0.997 | 0.964 | 0.962 |
| 325 | 50 | 24.0 | 1.005 | 0.971 | 0.973 | 0.995 | 1.030 | 1.028 |
| 326 | 72 | 24.5 | 1.003 | 1.004 | 1.003 | 0.997 | 0.996 | 0.997 |
| 327 | 54 | 20.6 | 1.000 | 1.070 | 1.070 | 1.000 | 0.934 | 0.934 |
| 328 | 61 | 24.9 | 1.003 | 0.949 | 0.960 | 0.997 | 1.054 | 1.041 |
| 329 | 58 | 21.3 | 1.003 | 1.008 | 1.009 | 0.997 | 0.992 | 0.991 |
| 330 | 44 | 19.0 | 0.997 | 1.039 | 1.039 | 1.003 | 0.962 | 0.962 |
| 331 | 61 | 24.9 | 0.997 | 1.013 | 1.012 | 1.003 | 0.987 | 0.989 |
| 332 | 44 | 25.3 | 1.000 | 1.019 | 1.022 | 1.000 | 0.981 | 0.978 |
| 333 | 54 | 26.0 | 0.995 | 0.978 | 0.978 | 1.005 | 1.023 | 1.022 |
| 334 | 54 | 20.6 | 1.011 | 1.020 | 1.037 | 0.989 | 0.980 | 0.965 |
| 335 | 52 | 20.6 | 1.003 | 1.026 | 1.029 | 0.997 | 0.974 | 0.971 |
| 336 | 61 | 25.6 | 0.995 | 1.013 | 1.014 | 1.005 | 0.988 | 0.986 |
| 337 | 44 | 20.5 | 0.997 | 1.045 | 1.043 | 1.003 | 0.957 | 0.959 |
| 338 | 44 | 20.8 | 1.008 | 1.011 | 1.008 | 0.992 | 0.990 | 0.992 |
| 339 | 57 | 24.8 | 1.003 | 1.024 | 1.032 | 0.997 | 0.976 | 0.969 |
| 340 | 44 | 22.2 | 0.995 | 1.049 | 1.059 | 1.005 | 0.953 | 0.945 |
| 341 | 47 | 26.1 | 1.003 | 0.962 | 0.959 | 0.997 | 1.039 | 1.042 |
| 342 | 58 | 20.8 | 1.003 | 1.000 | 1.002 | 0.997 | 1.000 | 0.998 |
| 343 | 46 | 19.3 | 1.003 | 1.047 | 1.051 | 0.997 | 0.955 | 0.951 |
| 344 | 50 | 27.4 | 1.000 | 0.993 | 0.990 | 1.000 | 1.008 | 1.010 |
| 345 | 32 | 19.2 | 0.997 | 1.011 | 1.014 | 1.003 | 0.989 | 0.986 |
| 346 | 52 | 18.4 | 1.008 | 1.067 | 1.064 | 0.992 | 0.937 | 0.940 |
| 347 | 54 | 21.5 | 1.003 | 1.046 | 1.050 | 0.997 | 0.956 | 0.952 |
| 348 | 68 | 24.5 | 0.997 | 0.968 | 0.967 | 1.003 | 1.033 | 1.034 |
| 349 | 44 | 21.4 | 1.003 | 1.004 | 1.003 | 0.997 | 0.996 | 0.997 |
| 350 | 27 | 17.9 | 0.997 | 1.008 | 1.010 | 1.003 | 0.992 | 0.990 |
| 351 | 57 | 21.7 | 1.005 | 1.049 | 1.060 | 0.995 | 0.954 | 0.944 |
| 352 | 45 | 20.2 | 1.005 | 1.010 | 1.003 | 0.995 | 0.991 | 0.997 |
| 353 | 50 | 23.8 | 1.005 | 1.006 | 1.009 | 0.995 | 0.994 | 0.991 |
| 354 | 32 | 18.8 | 0.997 | 0.984 | 0.984 | 1.003 | 1.017 | 1.016 |
| 355 | 65 | 26.6 | 1.003 | 0.994 | 0.998 | 0.997 | 1.006 | 1.002 |
| 356 | 71 | 30.0 | 1.005 | 1.037 | 1.035 | 0.995 | 0.964 | 0.967 |
| 357 | 69 | 22.8 | 1.000 | 1.060 | 1.069 | 1.000 | 0.943 | 0.936 |
| 358 | 57 | 19.6 | 1.036 | 1.054 | 1.056 | 0.965 | 0.949 | 0.947 |
| 359 | 47 | 18.6 | 0.981 | 0.955 | 0.955 | 1.019 | 1.048 | 1.048 |
| 360 | 52 | 23.4 | 1.013 | 0.961 | 0.966 | 0.987 | 1.040 | 1.036 |
| 361 | 38 | 26.0 | 1.003 | 1.014 | 1.012 | 0.997 | 0.987 | 0.988 |
| 362 | 44 | 26.1 | 0.992 | 1.011 | 1.013 | 1.008 | 0.989 | 0.987 |
| 363 | 45 | 21.5 | 1.000 | 1.044 | 1.040 | 1.000 | 0.958 | 0.961 |
| 364 | 38 | 25.9 | 0.995 | 1.066 | 1.071 | 1.005 | 0.938 | 0.934 |
| 365 | 29 | 26.9 | 0.997 | 1.031 | 1.027 | 1.003 | 0.970 | 0.974 |
| 366 | 69 | 27.5 | 1.005 | 1.033 | 1.041 | 0.995 | 0.968 | 0.961 |
| 367 | 31 | 18.3 | 1.005 | 0.990 | 0.988 | 0.995 | 1.010 | 1.012 |
| 368 | 45 | 30.8 | 1.000 | 1.052 | 1.054 | 1.000 | 0.951 | 0.949 |
| 369 | 60 | 19.7 | 1.005 | 0.974 | 0.965 | 0.995 | 1.027 | 1.037 |
| 370 | 51 | 22.8 | 0.997 | 0.994 | 1.001 | 1.003 | 1.006 | 0.999 |
| 371 | 50 | 22.2 | 0.995 | 0.991 | 0.990 | 1.005 | 1.009 | 1.010 |
| 372 | 49 | 23.4 | 0.995 | 1.022 | 1.017 | 1.005 | 0.979 | 0.983 |
| 373 | 42 | 19.6 | 1.013 | 1.059 | 1.065 | 0.987 | 0.945 | 0.939 |
| 374 | 41 | 19.4 | 1.003 | 0.989 | 0.992 | 0.997 | 1.011 | 1.008 |
| 375 | 41 | 25.1 | 1.003 | 1.062 | 1.060 | 0.997 | 0.942 | 0.943 |
| 376 | 57 | 23.1 | 0.997 | 0.998 | 1.000 | 1.003 | 1.002 | 1.000 |
| 377 | 41 | 20.0 | 1.000 | 1.007 | 1.011 | 1.000 | 0.993 | 0.989 |
| 378 | 40 | 22.0 | 1.005 | 1.012 | 1.015 | 0.995 | 0.988 | 0.985 |
| 379 | 53 | 23.2 | 0.997 | 0.952 | 0.954 | 1.003 | 1.051 | 1.048 |
| 380 | 19 | 19.1 | 1.000 | 1.017 | 1.021 | 1.000 | 0.984 | 0.980 |
| 381 | 47 | 26.0 | 0.992 | 1.012 | 1.001 | 1.008 | 0.989 | 0.999 |
| 382 | 48 | 24.6 | 1.000 | 1.038 | 1.045 | 1.000 | 0.963 | 0.957 |
| 383 | 51 | 21.9 | 1.000 | 1.055 | 1.057 | 1.000 | 0.948 | 0.947 |
| 384 | 38 | 17.0 | 1.003 | 1.027 | 1.027 | 0.997 | 0.974 | 0.974 |
| 385 | 44 | 24.8 | 0.995 | 1.007 | 0.995 | 1.005 | 0.993 | 1.005 |
| 386 | 70 | 24.9 | 1.003 | 0.952 | 0.968 | 0.997 | 1.051 | 1.033 |
| 387 | 48 | 19.2 | 1.000 | 1.008 | 1.011 | 1.000 | 0.992 | 0.989 |
| 388 | 42 | 23.2 | 1.000 | 0.977 | 0.973 | 1.000 | 1.024 | 1.028 |
| 389 | 64 | 27.2 | 1.000 | 1.015 | 1.011 | 1.000 | 0.985 | 0.990 |
| 390 | 48 | 21.4 | 1.016 | 1.009 | 1.029 | 0.984 | 0.991 | 0.972 |
| 391 | 62 | 26.5 | 0.997 | 0.994 | 1.001 | 1.003 | 1.006 | 0.999 |
| 392 | 40 | 23.0 | 1.003 | 1.013 | 1.011 | 0.997 | 0.987 | 0.989 |
| 393 | 41 | 25.8 | 1.011 | 0.990 | 0.992 | 0.989 | 1.010 | 1.008 |
| 394 | 47 | 24.3 | 0.995 | 1.007 | 1.010 | 1.005 | 0.993 | 0.990 |
| 395 | 45 | 19.4 | 1.008 | 1.023 | 1.022 | 0.992 | 0.977 | 0.978 |
| 396 | 47 | 23.5 | 0.997 | 1.023 | 1.025 | 1.003 | 0.977 | 0.976 |
| 397 | 58 | 20.3 | 1.003 | 1.053 | 1.067 | 0.997 | 0.950 | 0.937 |
| 398 | 55 | 23.6 | 1.003 | 1.048 | 1.064 | 0.997 | 0.954 | 0.940 |
| 399 | 63 | 26.3 | 1.005 | 0.951 | 0.957 | 0.995 | 1.052 | 1.044 |
| 400 | 67 | 22.2 | 0.997 | 1.016 | 1.019 | 1.003 | 0.985 | 0.981 |
| 401 | 65 | 20.6 | 1.000 | 0.985 | 0.986 | 1.000 | 1.015 | 1.014 |
| 402 | 77 | 22.3 | 1.005 | 0.959 | 0.963 | 0.995 | 1.043 | 1.039 |
| 403 | 65 | 24.5 | 1.005 | 1.017 | 1.021 | 0.995 | 0.984 | 0.980 |
| 404 | 59 | 23.1 | 1.008 | 1.042 | 1.052 | 0.992 | 0.960 | 0.951 |
| 405 | 59 | 23.8 | 0.997 | 1.039 | 0.982 | 1.003 | 0.963 | 1.018 |
| 406 | 71 | 20.0 | 0.997 | 1.008 | 1.012 | 1.003 | 0.992 | 0.988 |
| 407 | 50 | 21.1 | 0.997 | 1.045 | 1.048 | 1.003 | 0.957 | 0.954 |
| 408 | 72 | 25.2 | 1.005 | 1.039 | 1.056 | 0.995 | 0.963 | 0.947 |
| 409 | 65 | 28.0 | 1.010 | 1.008 | 1.011 | 0.990 | 0.992 | 0.989 |
| 410 | 51 | 21.1 | 1.005 | 1.038 | 1.040 | 0.995 | 0.963 | 0.961 |
| 411 | 50 | 20.7 | 1.003 | 1.008 | 1.008 | 0.997 | 0.992 | 0.992 |
| 412 | 51 | 22.3 | 0.989 | 0.989 | 0.990 | 1.011 | 1.011 | 1.010 |
| 413 | 46 | 19.9 | 1.003 | 1.031 | 1.031 | 0.997 | 0.970 | 0.970 |
| 414 | 69 | 25.4 | 1.005 | 1.000 | 1.006 | 0.995 | 1.000 | 0.994 |
| 415 | 54 | 23.9 | 0.995 | 0.934 | 0.938 | 1.005 | 1.071 | 1.066 |
| 416 | 61 | 24.1 | 0.989 | 1.028 | 1.039 | 1.011 | 0.972 | 0.962 |
| 417 | 39 | 21.6 | 1.003 | 1.052 | 1.052 | 0.997 | 0.950 | 0.950 |
| 418 | 69 | 24.6 | 1.003 | 0.985 | 0.990 | 0.997 | 1.015 | 1.011 |
| 419 | 54 | 21.9 | 0.997 | 1.000 | 1.001 | 1.003 | 1.000 | 0.999 |
| 420 | 56 | 25.0 | 0.995 | 1.023 | 1.020 | 1.005 | 0.978 | 0.980 |
| 421 | 51 | 20.4 | 1.003 | 1.085 | 1.085 | 0.997 | 0.922 | 0.921 |
| 422 | 53 | 22.2 | 0.995 | 1.019 | 1.024 | 1.005 | 0.982 | 0.977 |
| 423 | 57 | 21.9 | 1.005 | 0.995 | 0.999 | 0.995 | 1.005 | 1.001 |
| 424 | 52 | 26.6 | 1.000 | 1.025 | 1.027 | 1.000 | 0.975 | 0.974 |
| 425 | 48 | 22.5 | 0.995 | 1.012 | 1.008 | 1.005 | 0.988 | 0.992 |
| 426 | 49 | 21.7 | 1.013 | 1.013 | 1.012 | 0.987 | 0.987 | 0.988 |
| 427 | 57 | 18.9 | 0.997 | 1.002 | 1.006 | 1.003 | 0.998 | 0.994 |
| 428 | 45 | 21.3 | 1.003 | 1.021 | 1.024 | 0.997 | 0.979 | 0.977 |
| 429 | 47 | 22.9 | 0.992 | 1.084 | 1.079 | 1.008 | 0.923 | 0.926 |
| 430 | 55 | 18.0 | 1.000 | 1.014 | 1.019 | 1.000 | 0.986 | 0.982 |
| 431 | 64 | 25.0 | 0.989 | 0.989 | 0.974 | 1.011 | 1.011 | 1.026 |
| 432 | 49 | 24.8 | 1.011 | 1.032 | 1.030 | 0.990 | 0.969 | 0.971 |
| 433 | 37 | 20.9 | 1.000 | 0.992 | 0.994 | 1.000 | 1.008 | 1.006 |
| 434 | 55 | 22.0 | 0.997 | 1.041 | 1.045 | 1.003 | 0.961 | 0.957 |
| 435 | 48 | 23.3 | 1.005 | 0.947 | 0.949 | 0.995 | 1.056 | 1.053 |
| 436 | 50 | 29.3 | 1.003 | 1.031 | 1.021 | 0.997 | 0.970 | 0.979 |
| 437 | 37 | 23.6 | 1.003 | 1.012 | 1.016 | 0.997 | 0.988 | 0.984 |
| 438 | 50 | 21.0 | 1.000 | 1.082 | 1.093 | 1.000 | 0.924 | 0.915 |
| 439 | 42 | 21.8 | 1.000 | 1.048 | 1.047 | 1.000 | 0.954 | 0.955 |
| 440 | 60 | 23.4 | 1.003 | 0.978 | 0.981 | 0.997 | 1.023 | 1.019 |
| 441 | 46 | 19.6 | 1.003 | 1.039 | 1.039 | 0.997 | 0.963 | 0.962 |
| 442 | 51 | 28.6 | 1.003 | 1.014 | 1.017 | 0.997 | 0.986 | 0.983 |
| 443 | 46 | 18.7 | 0.997 | 1.023 | 1.026 | 1.003 | 0.977 | 0.974 |
| 444 | 44 | 20.3 | 0.997 | 1.025 | 1.029 | 1.003 | 0.975 | 0.972 |
| 445 | 48 | 24.4 | 1.005 | 0.992 | 0.992 | 0.995 | 1.008 | 1.008 |
| 446 | 44 | 22.1 | 1.003 | 1.014 | 1.007 | 0.997 | 0.987 | 0.993 |
| 447 | 41 | 20.6 | 1.000 | 1.004 | 1.008 | 1.000 | 0.996 | 0.992 |
| 448 | 63 | 22.4 | 1.000 | 1.022 | 1.026 | 1.000 | 0.978 | 0.975 |
| 449 | 54 | 22.2 | 1.011 | 1.033 | 1.032 | 0.989 | 0.968 | 0.969 |
| 450 | 31 | 20.2 | 0.997 | 1.013 | 1.017 | 1.003 | 0.987 | 0.983 |
| 451 | 53 | 22.9 | 1.003 | 0.977 | 0.981 | 0.997 | 1.024 | 1.020 |
| 452 | 43 | 23.4 | 1.003 | 1.021 | 1.028 | 0.997 | 0.980 | 0.973 |
| 453 | 37 | 19.4 | 1.013 | 0.992 | 0.998 | 0.987 | 1.008 | 1.002 |
| 454 | 64 | 25.7 | 0.997 | 1.005 | 0.996 | 1.003 | 0.995 | 1.004 |
| 455 | 57 | 23.9 | 1.000 | 0.983 | 0.991 | 1.000 | 1.017 | 1.010 |
| 456 | 48 | 25.5 | 1.000 | 1.065 | 1.072 | 1.000 | 0.939 | 0.932 |
| 457 | 42 | 20.3 | 1.005 | 1.050 | 1.055 | 0.995 | 0.952 | 0.948 |
| 458 | 49 | 20.7 | 1.008 | 1.026 | 1.027 | 0.992 | 0.975 | 0.974 |
| 459 | 44 | 19.5 | 1.011 | 0.995 | 0.996 | 0.989 | 1.005 | 1.004 |
| 460 | 51 | 24.1 | 1.011 | 1.003 | 1.002 | 0.990 | 0.997 | 0.998 |
| 461 | 44 | 21.6 | 1.000 | 1.029 | 1.037 | 1.000 | 0.972 | 0.964 |
| 462 | 40 | 22.4 | 1.005 | 1.036 | 1.033 | 0.995 | 0.965 | 0.969 |
| 463 | 41 | 26.9 | 0.995 | 1.030 | 1.032 | 1.005 | 0.971 | 0.969 |
| 464 | 38 | 17.9 | 1.005 | 0.989 | 0.987 | 0.995 | 1.011 | 1.014 |
| 465 | 44 | 22.0 | 1.003 | 1.024 | 1.026 | 0.997 | 0.976 | 0.974 |
| 466 | 53 | 20.7 | 1.003 | 1.044 | 1.043 | 0.997 | 0.958 | 0.959 |
| 467 | 52 | 22.8 | 1.008 | 1.037 | 1.037 | 0.992 | 0.964 | 0.964 |
| 468 | 37 | 19.5 | 1.000 | 1.032 | 1.038 | 1.000 | 0.969 | 0.964 |
| 469 | 72 | 25.1 | 1.003 | 1.026 | 1.040 | 0.997 | 0.974 | 0.962 |
| 470 | 27 | 18.4 | 1.005 | 1.008 | 1.002 | 0.995 | 0.992 | 0.998 |
| 471 | 56 | 18.2 | 1.008 | 0.968 | 0.970 | 0.992 | 1.033 | 1.031 |
| 472 | 48 | 19.3 | 1.000 | 1.004 | 1.007 | 1.000 | 0.996 | 0.993 |
| 473 | 54 | 23.9 | 0.997 | 0.980 | 0.983 | 1.003 | 1.021 | 1.018 |
| 474 | 47 | 19.7 | 0.997 | 1.012 | 1.016 | 1.003 | 0.989 | 0.984 |
| 475 | 55 | 28.0 | 1.000 | 1.019 | 1.028 | 1.000 | 0.981 | 0.973 |
| 476 | 79 | 21.1 | 1.008 | 1.020 | 1.022 | 0.992 | 0.980 | 0.978 |
| 477 | 58 | 23.8 | 1.011 | 1.049 | 1.049 | 0.990 | 0.954 | 0.953 |
| 478 | 56 | 23.6 | 1.005 | 1.010 | 1.011 | 0.995 | 0.991 | 0.989 |
| 479 | 52 | 22.5 | 1.003 | 0.991 | 0.996 | 0.997 | 1.009 | 1.004 |
| 480 | 68 | 20.8 | 0.995 | 1.045 | 1.044 | 1.005 | 0.957 | 0.958 |
| 481 | 53 | 20.3 | 1.003 | 1.023 | 1.021 | 0.997 | 0.978 | 0.979 |
| 482 | 57 | 24.8 | 1.008 | 1.016 | 1.028 | 0.992 | 0.984 | 0.972 |
| 483 | 49 | 21.7 | 1.008 | 1.023 | 1.033 | 0.992 | 0.978 | 0.968 |
| 484 | 79 | 28.8 | 1.008 | 0.958 | 0.962 | 0.992 | 1.044 | 1.040 |
| 485 | 45 | 20.0 | 1.000 | 1.033 | 1.036 | 1.000 | 0.968 | 0.966 |
| 486 | 53 | 24.5 | 1.000 | 1.031 | 1.031 | 1.000 | 0.970 | 0.970 |
| 487 | 55 | 22.0 | 1.000 | 0.991 | 1.000 | 1.000 | 1.009 | 1.000 |
| 488 | 74 | 22.9 | 0.997 | 1.014 | 1.015 | 1.003 | 0.986 | 0.986 |
| 489 | 48 | 22.7 | 1.013 | 0.987 | 0.986 | 0.987 | 1.013 | 1.015 |
| 490 | 52 | 22.0 | 1.000 | 1.032 | 1.034 | 1.000 | 0.969 | 0.967 |
| 491 | 52 | 22.2 | 1.011 | 0.996 | 1.001 | 0.989 | 1.004 | 0.999 |
| 492 | 39 | 23.2 | 1.003 | 1.015 | 1.019 | 0.997 | 0.985 | 0.981 |
| 493 | 57 | 21.9 | 1.000 | 1.069 | 1.066 | 1.000 | 0.936 | 0.938 |
| 494 | 45 | 20.3 | 1.011 | 1.074 | 1.076 | 0.989 | 0.931 | 0.929 |
| 495 | 63 | 24.9 | 1.018 | 1.056 | 1.056 | 0.982 | 0.947 | 0.947 |
| 496 | 57 | 27.2 | 1.003 | 1.055 | 1.064 | 0.997 | 0.948 | 0.940 |
| 497 | 45 | 22.4 | 1.003 | 1.015 | 1.009 | 0.997 | 0.985 | 0.991 |
| 498 | 48 | 20.9 | 0.997 | 1.044 | 1.050 | 1.003 | 0.958 | 0.952 |
| 499 | 50 | 23.2 | 1.005 | 0.970 | 0.958 | 0.995 | 1.031 | 1.044 |
| 500 | 59 | 21.6 | 0.995 | 0.977 | 0.974 | 1.005 | 1.023 | 1.027 |
| 501 | 26 | 22.2 | 0.995 | 0.991 | 0.993 | 1.005 | 1.009 | 1.007 |
| 502 | 49 | 19.6 | 1.003 | 0.996 | 1.004 | 0.997 | 1.004 | 0.996 |
| 503 | 44 | 24.8 | 1.003 | 1.009 | 1.011 | 0.997 | 0.991 | 0.989 |
| 504 | 51 | 23.5 | 1.011 | 1.055 | 1.054 | 0.989 | 0.948 | 0.949 |
| 505 | 52 | 20.4 | 1.005 | 1.051 | 1.056 | 0.995 | 0.951 | 0.947 |
| 506 | 52 | 23.2 | 1.000 | 1.003 | 1.005 | 1.000 | 0.997 | 0.995 |
| 507 | 54 | 27.5 | 1.005 | 0.988 | 0.987 | 0.995 | 1.013 | 1.013 |
| 508 | 67 | 21.1 | 1.000 | 0.969 | 0.968 | 1.000 | 1.032 | 1.033 |
| 509 | 51 | 24.5 | 1.000 | 0.992 | 1.011 | 1.000 | 1.008 | 0.989 |
| 510 | 49 | 27.7 | 1.005 | 1.005 | 1.013 | 0.995 | 0.995 | 0.988 |
| 511 | 37 | 24.1 | 1.000 | 1.000 | 0.993 | 1.000 | 1.000 | 1.007 |
| 512 | 61 | 17.7 | 1.003 | 1.013 | 1.014 | 0.997 | 0.987 | 0.986 |
| 513 | 46 | 17.7 | 1.003 | 1.037 | 1.037 | 0.997 | 0.964 | 0.965 |
| 514 | 52 | 18.7 | 0.997 | 1.006 | 1.005 | 1.003 | 0.994 | 0.995 |
| 515 | 49 | 20.8 | 1.003 | 1.024 | 1.028 | 0.997 | 0.976 | 0.973 |
| 516 | 39 | 21.1 | 0.995 | 1.010 | 1.011 | 1.005 | 0.990 | 0.989 |
| 517 | 54 | 25.4 | 1.003 | 0.969 | 0.970 | 0.997 | 1.032 | 1.031 |
| 518 | 45 | 18.4 | 1.003 | 0.997 | 1.000 | 0.997 | 1.003 | 1.000 |
| 519 | 49 | 23.8 | 1.008 | 1.022 | 1.029 | 0.992 | 0.979 | 0.972 |
| 520 | 68 | 27.4 | 1.005 | 0.924 | 0.927 | 0.995 | 1.083 | 1.079 |
| 521 | 41 | 20.4 | 1.000 | 0.999 | 1.001 | 1.000 | 1.001 | 0.999 |
| 522 | 42 | 18.5 | 1.008 | 0.973 | 0.962 | 0.992 | 1.028 | 1.039 |
| 523 | 44 | 26.0 | 0.997 | 0.995 | 0.998 | 1.003 | 1.005 | 1.002 |
| 524 | 68 | 25.9 | 1.005 | 1.009 | 1.032 | 0.995 | 0.991 | 0.969 |
| 525 | 44 | 18.5 | 1.005 | 1.004 | 1.002 | 0.995 | 0.996 | 0.998 |
| 526 | 38 | 19.2 | 1.000 | 1.045 | 1.045 | 1.000 | 0.957 | 0.957 |
| 527 | 66 | 32.4 | 0.995 | 1.010 | 1.013 | 1.005 | 0.990 | 0.987 |
| 528 | 46 | 25.0 | 0.997 | 1.035 | 1.036 | 1.003 | 0.967 | 0.965 |
| 529 | 32 | 17.8 | 1.003 | 1.021 | 1.021 | 0.997 | 0.979 | 0.980 |
| 530 | 52 | 22.7 | 0.997 | 1.018 | 1.015 | 1.003 | 0.982 | 0.986 |
| 531 | 58 | 32.1 | 1.005 | 0.953 | 0.956 | 0.995 | 1.050 | 1.046 |
| 532 | 52 | 30.8 | 1.000 | 1.041 | 1.037 | 1.000 | 0.961 | 0.965 |
| 533 | 53 | 24.7 | 0.992 | 0.993 | 0.994 | 1.008 | 1.007 | 1.006 |
| 534 | 52 | 24.6 | 1.013 | 1.024 | 1.028 | 0.987 | 0.977 | 0.973 |
| 535 | 24 | 20.8 | 1.000 | 1.015 | 1.024 | 1.000 | 0.985 | 0.976 |
| 536 | 54 | 28.4 | 0.995 | 0.938 | 0.941 | 1.005 | 1.066 | 1.062 |
| 537 | 53 | 27.9 | 1.008 | 1.041 | 1.045 | 0.992 | 0.961 | 0.957 |
| 538 | 36 | 24.7 | 1.008 | 1.032 | 1.044 | 0.992 | 0.969 | 0.957 |
| 539 | 45 | 24.1 | 1.003 | 1.016 | 1.020 | 0.997 | 0.984 | 0.980 |
| 540 | 41 | 19.9 | 1.008 | 0.984 | 0.984 | 0.992 | 1.017 | 1.017 |
| 541 | 47 | 20.7 | 0.997 | 1.056 | 1.056 | 1.003 | 0.947 | 0.947 |
| 542 | 32 | 23.2 | 1.003 | 1.014 | 1.017 | 0.997 | 0.986 | 0.983 |
| 543 | 37 | 21.7 | 1.000 | 1.015 | 1.014 | 1.000 | 0.985 | 0.987 |
| 544 | 56 | 23.7 | 0.995 | 1.012 | 1.013 | 1.005 | 0.988 | 0.987 |
| 545 | 62 | 27.0 | 0.990 | 0.995 | 0.993 | 1.011 | 1.005 | 1.007 |
| 546 | 63 | 23.3 | 0.997 | 0.998 | 1.003 | 1.003 | 1.002 | 0.997 |
| 547 | 58 | 22.1 | 1.003 | 0.999 | 1.015 | 0.997 | 1.001 | 0.985 |
| 548 | 58 | 23.3 | 1.000 | 1.051 | 1.050 | 1.000 | 0.951 | 0.952 |
| 549 | 48 | 26.5 | 1.003 | 1.003 | 0.996 | 0.997 | 0.997 | 1.004 |
| 550 | 18 | 24.2 | 0.995 | 1.001 | 1.001 | 1.005 | 0.999 | 0.999 |
| 551 | 50 | 21.7 | 1.008 | 1.031 | 1.032 | 0.992 | 0.970 | 0.969 |
| 552 | 55 | 23.9 | 1.011 | 1.010 | 1.025 | 0.989 | 0.990 | 0.975 |
| 553 | 62 | 21.0 | 1.008 | 1.037 | 1.031 | 0.992 | 0.964 | 0.970 |
| 554 | 44 | 20.6 | 1.011 | 0.987 | 0.984 | 0.989 | 1.013 | 1.016 |
| 555 | 54 | 20.8 | 0.997 | 1.044 | 1.046 | 1.003 | 0.958 | 0.956 |
| 556 | 66 | 19.1 | 1.005 | 1.000 | 1.003 | 0.995 | 1.000 | 0.997 |
| 557 | 62 | 24.3 | 1.000 | 1.047 | 1.050 | 1.000 | 0.955 | 0.952 |
| 558 | 49 | 23.0 | 0.995 | 1.037 | 1.036 | 1.005 | 0.964 | 0.966 |
| 559 | 60 | 24.7 | 1.005 | 1.026 | 1.029 | 0.995 | 0.975 | 0.972 |
| 560 | 57 | 20.9 | 1.000 | 1.019 | 1.021 | 1.000 | 0.982 | 0.980 |
| 561 | 56 | 24.5 | 1.003 | 0.987 | 0.988 | 0.997 | 1.013 | 1.012 |
| 562 | 53 | 22.6 | 0.995 | 1.008 | 1.011 | 1.005 | 0.992 | 0.989 |
| 563 | 40 | 23.0 | 1.013 | 0.997 | 1.005 | 0.987 | 1.003 | 0.995 |
| 564 | 58 | 25.2 | 0.997 | 1.033 | 1.029 | 1.003 | 0.968 | 0.972 |
| 565 | 59 | 25.6 | 0.995 | 0.997 | 0.987 | 1.005 | 1.003 | 1.013 |
| 566 | 63 | 24.9 | 0.995 | 0.965 | 0.965 | 1.005 | 1.037 | 1.036 |
| 567 | 50 | 22.3 | 1.003 | 1.028 | 1.034 | 0.997 | 0.973 | 0.967 |
| 568 | 53 | 23.2 | 0.992 | 1.005 | 1.009 | 1.008 | 0.995 | 0.991 |
| 569 | 62 | 26.9 | 1.003 | 0.975 | 0.980 | 0.997 | 1.025 | 1.020 |
| 570 | 48 | 27.0 | 1.008 | 1.068 | 1.066 | 0.992 | 0.937 | 0.938 |
| 571 | 38 | 26.7 | 1.013 | 0.973 | 0.974 | 0.987 | 1.028 | 1.027 |
| 572 | 36 | 18.1 | 0.997 | 1.040 | 1.041 | 1.003 | 0.962 | 0.961 |
| 573 | 37 | 26.3 | 1.008 | 0.969 | 0.974 | 0.992 | 1.032 | 1.027 |
| 574 | 38 | 16.1 | 0.997 | 0.952 | 0.950 | 1.003 | 1.050 | 1.052 |
| 575 | 34 | 20.8 | 1.008 | 1.056 | 1.057 | 0.992 | 0.947 | 0.946 |
| 576 | 54 | 21.5 | 0.997 | 0.985 | 0.988 | 1.003 | 1.015 | 1.012 |
| 577 | 47 | 21.5 | 0.995 | 1.067 | 1.068 | 1.005 | 0.938 | 0.936 |
| 578 | 33 | 22.3 | 1.003 | 0.978 | 0.980 | 0.997 | 1.022 | 1.021 |
| 579 | 51 | 22.9 | 1.003 | 1.044 | 1.043 | 0.997 | 0.958 | 0.959 |
| 580 | 51 | 27.2 | 1.013 | 0.977 | 0.982 | 0.987 | 1.024 | 1.018 |
| 581 | 32 | 19.0 | 1.000 | 0.989 | 0.989 | 1.000 | 1.011 | 1.011 |
| 582 | 59 | 21.2 | 0.997 | 0.995 | 0.996 | 1.003 | 1.005 | 1.004 |
| 583 | 54 | 26.4 | 1.005 | 1.019 | 1.025 | 0.995 | 0.981 | 0.976 |
| 584 | 38 | 18.7 | 0.995 | 0.994 | 0.988 | 1.005 | 1.006 | 1.012 |
| 585 | 48 | 20.8 | 1.003 | 0.996 | 0.993 | 0.997 | 1.004 | 1.007 |
| 586 | 45 | 22.2 | 1.005 | 1.003 | 1.006 | 0.995 | 0.997 | 0.994 |
| 587 | 42 | 16.8 | 1.005 | 0.992 | 0.992 | 0.995 | 1.009 | 1.008 |
| 588 | 52 | 24.1 | 1.000 | 0.993 | 0.993 | 1.000 | 1.007 | 1.007 |
| 589 | 55 | 26.5 | 1.000 | 1.005 | 0.999 | 1.000 | 0.995 | 1.001 |
| 590 | 74 | 24.7 | 1.000 | 1.005 | 1.000 | 1.000 | 0.995 | 1.000 |
| 591 | 41 | 31.9 | 1.005 | 1.017 | 1.015 | 0.995 | 0.983 | 0.985 |
| 592 | 78 | 23.1 | 1.000 | 0.987 | 0.999 | 1.000 | 1.013 | 1.001 |
| 593 | 55 | 19.7 | 1.000 | 1.017 | 1.019 | 1.000 | 0.984 | 0.981 |
| 594 | 51 | 20.1 | 1.005 | 1.017 | 1.007 | 0.995 | 0.983 | 0.993 |
| 595 | 45 | 20.1 | 1.003 | 1.029 | 1.026 | 0.997 | 0.972 | 0.975 |
| 596 | 31 | 25.7 | 1.003 | 1.051 | 1.058 | 0.997 | 0.952 | 0.945 |
| 597 | 46 | 20.7 | 1.000 | 1.022 | 1.025 | 1.000 | 0.979 | 0.976 |
| 598 | 58 | 26.4 | 1.008 | 0.986 | 0.987 | 0.992 | 1.014 | 1.013 |
| 599 | 26 | 19.8 | 1.003 | 1.005 | 1.003 | 0.997 | 0.995 | 0.997 |
| 600 | 48 | 24.0 | 0.990 | 1.043 | 1.043 | 1.010 | 0.959 | 0.958 |
| 601 | 50 | 22.1 | 1.000 | 1.048 | 1.049 | 1.000 | 0.955 | 0.954 |
| 602 | 53 | 24.1 | 1.008 | 1.001 | 1.014 | 0.992 | 0.999 | 0.986 |
| 603 | 52 | 23.9 | 1.000 | 1.074 | 1.065 | 1.000 | 0.931 | 0.939 |
| 604 | 49 | 18.6 | 0.989 | 1.025 | 1.030 | 1.011 | 0.976 | 0.971 |
| 605 | 37 | 22.1 | 1.005 | 1.029 | 1.025 | 0.995 | 0.972 | 0.976 |
| 606 | 36 | 22.3 | 1.008 | 0.985 | 0.987 | 0.992 | 1.016 | 1.013 |
| 607 | 56 | 29.4 | 0.997 | 0.988 | 0.982 | 1.003 | 1.013 | 1.018 |
| 608 | 59 | 23.8 | 1.003 | 1.024 | 1.028 | 0.997 | 0.977 | 0.972 |
| 609 | 79 | 23.5 | 1.000 | 1.038 | 1.032 | 1.000 | 0.964 | 0.969 |
| 610 | 48 | 27.5 | 0.992 | 1.056 | 1.055 | 1.008 | 0.947 | 0.948 |
| 611 | 69 | 28.5 | 1.003 | 1.025 | 1.028 | 0.997 | 0.976 | 0.973 |
| 612 | 51 | 21.7 | 1.005 | 0.992 | 0.993 | 0.995 | 1.009 | 1.007 |
| 613 | 29 | 21.6 | 1.000 | 1.005 | 1.004 | 1.000 | 0.995 | 0.996 |
| 614 | 59 | 26.6 | 1.005 | 0.961 | 0.976 | 0.995 | 1.040 | 1.025 |
| 615 | 36 | 28.5 | 1.003 | 1.030 | 1.017 | 0.997 | 0.971 | 0.984 |
| 616 | 63 | 26.1 | 0.997 | 1.016 | 1.008 | 1.003 | 0.984 | 0.992 |
| 617 | 45 | 23.4 | 0.997 | 1.053 | 1.048 | 1.003 | 0.949 | 0.954 |
| 618 | 57 | 25.2 | 0.997 | 1.008 | 1.013 | 1.003 | 0.992 | 0.987 |
| 619 | 40 | 20.1 | 1.003 | 0.993 | 0.991 | 0.997 | 1.007 | 1.009 |
| 620 | 52 | 25.8 | 1.000 | 1.057 | 1.063 | 1.000 | 0.946 | 0.941 |
| 621 | 69 | 20.7 | 0.990 | 0.986 | 0.982 | 1.010 | 1.014 | 1.018 |
| 622 | 43 | 22.3 | 0.997 | 1.018 | 1.021 | 1.003 | 0.982 | 0.979 |
| 623 | 61 | 20.6 | 1.003 | 1.031 | 1.031 | 0.997 | 0.970 | 0.970 |
| 624 | 58 | 22.7 | 1.005 | 1.020 | 1.020 | 0.995 | 0.981 | 0.981 |
| 625 | 46 | 18.7 | 1.013 | 0.997 | 1.001 | 0.987 | 1.003 | 0.999 |
| 626 | 48 | 23.8 | 1.008 | 1.013 | 1.016 | 0.992 | 0.987 | 0.984 |
| 627 | 36 | 16.8 | 1.000 | 0.974 | 0.975 | 1.000 | 1.027 | 1.026 |
| 628 | 35 | 22.1 | 1.003 | 0.980 | 0.980 | 0.997 | 1.021 | 1.021 |
| 629 | 30 | 19.2 | 0.997 | 0.974 | 0.976 | 1.003 | 1.026 | 1.024 |
| 630 | 62 | 24.9 | 1.000 | 1.026 | 1.023 | 1.000 | 0.975 | 0.977 |
| 631 | 42 | 21.7 | 0.997 | 1.037 | 1.032 | 1.003 | 0.964 | 0.969 |
| 632 | 35 | 19.8 | 1.008 | 0.985 | 0.988 | 0.992 | 1.015 | 1.013 |
| 633 | 43 | 18.8 | 1.000 | 1.049 | 1.051 | 1.000 | 0.953 | 0.952 |
| 634 | 29 | 19.4 | 1.003 | 1.010 | 1.012 | 0.997 | 0.990 | 0.988 |
| 635 | 46 | 20.1 | 1.000 | 1.015 | 1.018 | 1.000 | 0.985 | 0.982 |
| 636 | 42 | 20.7 | 0.995 | 1.007 | 1.007 | 1.005 | 0.993 | 0.993 |
| 637 | 37 | 19.1 | 1.005 | 0.994 | 1.005 | 0.995 | 1.006 | 0.995 |
| 638 | 54 | 24.0 | 0.995 | 0.969 | 0.972 | 1.005 | 1.032 | 1.029 |
| 639 | 34 | 18.1 | 1.000 | 1.016 | 1.011 | 1.000 | 0.984 | 0.989 |
| 640 | 43 | 19.6 | 1.003 | 1.031 | 1.034 | 0.997 | 0.970 | 0.967 |
| 641 | 47 | 25.0 | 1.003 | 1.037 | 1.043 | 0.997 | 0.964 | 0.959 |
| 642 | 67 | 25.3 | 0.997 | 0.985 | 0.991 | 1.003 | 1.015 | 1.009 |
| 643 | 65 | 24.1 | 1.005 | 1.053 | 1.055 | 0.995 | 0.950 | 0.948 |

**Supplement 1-2). Individual bioimpedance analysis data: patients with breast cancer–related lymphedema**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Patients with breast cancer–related lymphedema, dominant arm involvement** | | | | | |
| Patient No. | Age (years) | BMI (kg/m²) | ECF ratio of dominant arm | SFBIA ratio at 1 kHz of dominant arm | SFBIA ratio at 1 kHz of dominant arm |
| 1 | 51 | 24.4 | 1.020 | 1.274 | 1.050 |
| 2 | 49 | 24.1 | 1.010 | 1.099 | 1.020 |
| 3 | 35 | 19.6 | 1.000 | 1.050 | 1.040 |
| 4 | 41 | 28.9 | 1.010 | 1.198 | 1.440 |
| 5 | 46 | 21.4 | 1.000 | 1.024 | 1.020 |
| 6 | 47 | 21.4 | 1.020 | 1.050 | 1.060 |
| 7 | 58 | 20.4 | 1.010 | 1.050 | 1.100 |
| 8 | 41 | 24.5 | 1.010 | 1.008 | 1.000 |
| 9 | 48 | 23.4 | 1.010 | 1.125 | 1.100 |
| 10 | 67 | 33.8 | 1.060 | 1.477 | 1.010 |
| 11 | 67 | 24.4 | 1.040 | 1.297 | 1.120 |
| 12 | 56 | 30.8 | 1.020 | 1.013 | 1.030 |
| 13 | 40 | 26.0 | 1.000 | 1.026 | 1.390 |
| 14 | 67 | 22.3 | 1.040 | 1.393 | 1.020 |
| 15 | 58 | 24.6 | 1.000 | 0.977 | 1.150 |
| 16 | 50 | 23.8 | 1.000 | 1.024 | 1.070 |
| 17 | 42 | 26.7 | 1.050 | 1.416 | 1.080 |
| 18 | 40 | 21.7 | 1.010 | 1.063 | 1.030 |
| 19 | 64 | 27.7 | 1.000 | 0.984 | 1.200 |
| 20 | 55 | 31.8 | 1.030 | 1.221 | 1.110 |
| 21 | 50 | 23.6 | 1.010 | 1.098 | 1.450 |
| 22 | 48 | 21.7 | 1.000 | 1.034 | 1.180 |
| 23 | 66 | 22.7 | 1.030 | 1.178 | 1.120 |
| 24 | 44 | 26.4 | 1.000 | 1.114 | 1.000 |
| 25 | 48 | 25.0 | 1.010 | 0.946 | 1.100 |
| 26 | 37 | 18.7 | 1.040 | 0.870 | 1.000 |
| 27 | 38 | 23.0 | 1.010 | 1.057 | 1.050 |
| 28 | 55 | 25.4 | 1.020 | 1.141 | 1.280 |
| 29 | 49 | 23.5 | 1.030 | 1.327 | 1.370 |
| 30 | 41 | 23.3 | 1.010 | 0.865 | 1.370 |
| 31 | 46 | 22.8 | 1.020 | 1.780 | 1.780 |
| 32 | 47 | 24.9 | 1.080 | 1.605 | 1.210 |
| 33 | 60 | 23.2 | 1.030 | 1.261 | 1.470 |
| 34 | 48 | 24.7 | 1.040 | 1.339 | 1.200 |
| 35 | 47 | 20.6 | 1.020 | 1.200 | 1.230 |
| **Patients with breast cancer–related lymphedema, non-dominant arm involvement** | | | | | |
| Patient No. | Age (years) | BMI (kg/m²) | ECF ratio of non-dominant arm | SFBIA ratio at 1 kHz of non-dominant arm | SFBIA ratio at 1 kHz of non-dominant arm |
| 36 | 48 | 24.9 | 1.030 | 1.261 | 1.120 |
| 37 | 44 | 21.8 | 1.050 | 0.827 | 1.180 |
| 38 | 52 | 25.5 | 1.000 | 0.956 | 1.250 |
| 39 | 33 | 22.2 | 1.010 | 1.046 | 1.190 |
| 40 | 45 | 22.8 | 1.020 | 1.179 | 1.040 |
| 41 | 59 | 26.1 | 1.030 | 1.194 | 0.960 |
| 42 | 65 | 26.8 | 1.010 | 1.075 | 1.190 |
| 43 | 50 | 22.8 | 1.010 | 1.115 | 1.300 |
| 44 | 56 | 23.2 | 1.050 | 1.374 | 1.030 |
| 45 | 49 | 23.7 | 1.010 | 0.998 | 1.020 |
| 46 | 69 | 26.4 | 1.050 | 1.469 | 1.260 |
| 47 | 46 | 24.9 | 1.070 | 1.448 | 1.200 |
| 48 | 61 | 27.1 | 1.050 | 1.504 | 0.980 |
| 49 | 65 | 25.4 | 1.030 | 1.210 | 0.990 |
| 50 | 44 | 21.9 | 1.080 | 1.140 | 1.130 |
| 51 | 53 | 24.3 | 1.020 | 1.060 | 1.270 |
| 52 | 62 | 23.1 | 1.090 | 1.796 | 1.210 |
| 53 | 31 | 18.6 | 1.050 | 1.391 | 1.040 |
| 54 | 50 | 31.4 | 1.020 | 1.116 | 1.410 |
| 55 | 38 | 25.3 | 1.010 | 0.977 | 0.990 |
| 56 | 48 | 23.0 | 1.020 | 1.082 | 1.300 |
| 57 | 47 | 22.9 | 1.050 | 1.421 | 1.260 |
| 58 | 46 | 23.8 | 1.040 | 1.260 | 1.490 |
| 59 | 49 | 24.6 | 1.010 | 0.982 | 1.030 |
| 60 | 60 | 24.0 | 1.010 | 0.978 | 1.150 |
| 61 | 39 | 23.9 | 1.010 | 0.900 | 1.350 |
| 62 | 41 | 23.6 | 1.020 | 0.998 | 1.470 |
| 63 | 39 | 19.9 | 1.000 | 0.984 | 1.410 |
| 64 | 53 | 24.8 | 1.010 | 0.994 | 1.600 |
| 65 | 43 | 26.5 | 1.010 | 1.091 | 1.010 |
| 66 | 44 | 20.9 | 1.050 | 1.361 | 1.050 |
| 67 | 38 | 26.7 | 1.030 | 1.208 | 1.090 |
| 68 | 54 | 20.6 | 1.030 | 1.122 | 1.070 |
| 69 | 53 | 17.8 | 1.050 | 1.452 | 1.200 |
| 70 | 51 | 23.5 | 1.000 | 1.016 | 1.130 |

**Supplement 2). Detailed data of patients with breast cancer–related lymphedema**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Patient No. | Type of Operation | Reconstruction surgery | No. of dissected lymph nodes | No. of metastasis-affected lymph nodes | Chemotherapy | Radiation therapy |
| 1 | NASSM inj SNB c implant | 1 | 6 | 0 | 1 | 0 |
| 2 | NASSM c SNB | 1 | 4 | 0 | 1 | 0 |
| 3 | MRM ALND | 0 | 33 | 7 | 1 | 1 |
| 4 | BCO c SNB | 0 | 29 | 2 | 1 | 1 |
| 5 | BCO c SNB | 0 | 9 | 0 | 0 | 0 |
| 6 | SSM SNB c expander insertion | 1 | 3 | 0 | 1 | 1 |
| 7 | MRM c ALND | 0 | 19 | 7 | 1 | 1 |
| 8 | BCO c ALND | 0 | 19 | 1 | 1 | 1 |
| 9 | BCO c SNB | 0 | 5 | 2 | 0 | 1 |
| 10 | ALND | 1 | 7 | 1 | 1 | 1 |
| 11 | MRM c SNB | 0 | 6 | 2 | 1 | 1 |
| 12 | BCO c SNB | 0 | 5 | 0 | 1 | 0 |
| 13 | MRM | 0 | 12 | 9 | 1 | 1 |
| 14 | MRM | 0 | 10 | 0 | 1 | 1 |
| 15 | BCO AS -> ALND | 0 | 12 | 2 | 1 | 1 |
| 16 | ALND and IMLN meta -> MRM c ALND | 0 | 17 | 0 | 1 | 1 |
| 17 | NASSM SNB c fDIEP | 1 | 3 | 0 | 0 | 1 |
| 18 | MRM SNB -> ALND c accessory breast excision | 0 | 25 | 21 | 1 | 1 |
| 19 | NASSM | 0 | 7 | 1 | 1 | 1 |
| 20 | BCO c ALND | 0 | 21 | 1 | 1 | 1 |
| 21 | BCO c SNB | 0 | 5 | 2 | 0 | 1 |
| 22 | ALND s/p Rt. NSM SNB | 1 | 4 | 1 | 1 | 1 |
| 23 | MRM c SNB | 0 | 5 | 2 | 1 | 1 |
| 24 | BCO c SNB | 0 | 3 | 0 | 1 | 0 |
| 25 | MRM c SNB | 0 | 12 | 0 | 1 | 1 |
| 26 | MRM c SNB -> ALND | 0 | 15 | 1 | 1 | 1 |
| 27 | BCO c ALND | 0 | 11 | 4 | 1 | 1 |
| 28 | BCO c ALND | 0 | 31 | 20 | 1 | 1 |
| 29 | SSM AS -> ALND c PAP flap | 1 | 14 | 4 | 1 | 1 |
| 30 | NASSM c SNB c implant | 1 | 7 | 0 | 1 | 0 |
| 31 | NASSM c SNB | 1 | 4 | 0 | 1 | 0 |
| 32 | BCO c SNB | 0 | 9 | 0 | 0 | 0 |
| 33 | SSM SNB c expander insertion | 1 | 3 | 0 | 1 | 1 |
| 34 | MRM c ALND | 0 | 17 | 8 | 1 | 1 |
| 35 | BCO c SNB | 0 | 3 | 1 | 0 | 1 |
| 36 | NASSM c SNB c implant | 1 | 7 | 0 | 1 | 0 |
| 37 | NASSM c SNB | 1 | 4 | 0 | 1 | 0 |
| 38 | MRM ALND | 0 | 35 | 5 | 1 | 1 |
| 39 | BCO c SNB | 0 | 26 | 2 | 1 | 1 |
| 40 | BCO c SNB | 0 | 9 | 0 | 0 | 0 |
| 41 | SSM SNB c expander insertion | 1 | 3 | 0 | 1 | 1 |
| 42 | MRM, ALND | 0 | 17 | 9 | 1 | 1 |
| 43 | BCO c SNB | 0 | 3 | 1 | 0 | 1 |
| 44 | MRM | 0 | 13 | 10 | 1 | 1 |
| 45 | MRM | 0 | 10 | 0 | 1 | 1 |
| 46 | BCO c ALND | 0 | 11 | 4 | 1 | 1 |
| 47 | USG BCO c ALND | 0 | 30 | 19 | 1 | 1 |
| 48 | SSM ALND c PAP flap | 1 | 13 | 4 | 1 | 1 |
| 49 | BCO c ALND | 0 | 21 | 1 | 1 | 1 |
| 50 | BCO c SNB | 0 | 5 | 1 | 0 | 1 |
| 51 | ALND s/p NSM SNB | 1 | 6 | 1 | 1 | 1 |
| 52 | MRM c SNB | 0 | 5 | 2 | 1 | 1 |
| 53 | BCO c SNB | 0 | 3 | 0 | 1 | 0 |
| 54 | MRM c SNB | 0 | 12 | 0 | 1 | 1 |
| 55 | MRM c SNB -> ALND | 0 | 12 | 1 | 1 | 1 |
| 56 | USG needle BCO AS -> ALND | 0 | 12 | 2 | 1 | 1 |
| 57 | ALN and IMLN meta -> MRM c ALND | 0 | 17 | 0 | 1 | 1 |
| 58 | NASSM SNB c fDIEP | 1 | 3 | 0 | 0 | 1 |
| 59 | MRM SNB -> ALND | 0 | 28 | 27 | 1 | 1 |
| 60 | NASSM | 0 | 7 | 1 | 1 | 1 |
| 61 | BCO c ALND | 0 | 21 | 1 | 1 | 1 |
| 62 | BCO c SNB | 0 | 5 | 1 | 0 | 1 |
| 63 | MRM c ALND | 0 | 35 | 5 | 1 | 1 |
| 64 | BCO c SNB | 0 | 26 | 2 | 1 | 1 |
| 65 | BCO c SNB | 0 | 9 | 0 | 0 | 0 |
| 66 | SSM c SNB | 1 | 3 | 0 | 1 | 1 |
| 67 | ALND s/p NSM SNB | 1 | 6 | 1 | 1 | 1 |
| 68 | MRM c SNB | 0 | 5 | 2 | 1 | 1 |
| 69 | BCO c SNB | 0 | 3 | 0 | 1 | 0 |
| 70 | MRM c SNB | 0 | 12 | 0 | 1 | 1 |

Underwent reconstruction surgery: indicated as “1”

No reconstruction surgery: indicated as “0”

Underwent chemotherapy or radiotherapy: indicated as “1”

No chemotherapy or radiotherapy: indicated as “0”