## **Appendix**

In order to express the diversity of load profile, the system is connected with three different typical loads, e.g., residential load, industrial load, and commercial load. Expectation of load profile at each time is listed in Table A1. Expectation of RES is listed in Table A2. The forecasting errors of demand load, the error between actual RES output and its expectation value is assumed to follow the normal distribution  $N(0,0.03^2)$  and  $N(0,0.1^2)$ , respectively.

Table A1 Expectation of demand load

| Time interval         1         2         3         4         5         6         7         8 $P(\text{residential})$ 0.170236         0.168423         0.207593         0.184721         0.151753         0.153095         0.178605         0.1872 $P(\text{industrial})$ 0.041523         0.023708         0.030862         0.005203         0.036022         0.028284         0.025702         0.0336 $P(\text{commercial})$ 0.0096         0.019587         0.02978         0.038142         0.038159         0.039467         0.049705         0.0492           Time interval         9         10         11         12         13         14         15         16 $P(\text{residential})$ 0.186704         0.157857         0.155334         0.162476         0.181865         0.172656         0.179402         0.2025 $P(\text{industrial})$ 0.016934         0.010299         0.03017         0.018555         0.002928         0.027313         0.023611         0.0279 $P(\text{commercial})$ 0.049242         0.047686         0.049533         0.049329         0.067128         0.088392         0.106426         0.114 |
|---|
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   |
| P(commercial)         0.0096         0.019587         0.02978         0.038142         0.038159         0.039467         0.049705         0.0492           Time interval         9         10         11         12         13         14         15         16           P(residential)         0.186704         0.157857         0.155334         0.162476         0.181865         0.172656         0.179402         0.2025           P(industrial)         0.016934         0.010299         0.03017         0.018555         0.002928         0.027313         0.023611         0.0279   |
| Time interval         9         10         11         12         13         14         15         16           P(residential)         0.186704         0.157857         0.155334         0.162476         0.181865         0.172656         0.179402         0.2025           P(industrial)         0.016934         0.010299         0.03017         0.018555         0.002928         0.027313         0.023611         0.0279  |
| P(residential)         0.186704         0.157857         0.155334         0.162476         0.181865         0.172656         0.179402         0.2025           P(industrial)         0.016934         0.010299         0.03017         0.018555         0.002928         0.027313         0.023611         0.0279   |
| P(industrial) 0.016934 0.010299 0.03017 0.018555 0.002928 0.027313 0.023611 0.0279  |
|   |
| P(commercial) 0.049242 0.047686 0.049533 0.049329 0.067128 0.088392 0.106426 0.114  |
| 12 (  |
| Time interval 17 18 19 20 21 22 23 24   |
| P(residential)   0.268647   0.244151   0.243471   0.237235   0.296181   0.292386   0.292787   0.3199  |
| P(industrial)   0.046245   0.009225   0.027818   0.032892   0.041931   0.043838   0.010161   0.0134   |
| P(commercial) 0.127634 0.137204 0.145916 0.147355 0.157839 0.168456 0.174323 0.1844   |
| Time interval 25 26 27 28 29 30 31 32   |
| P(residential) 0.179253 0.192893 0.189442 0.194688 0.161847 0.161887 0.199237 0.1663  |
| P(industrial) 0.380455 0.369026 0.369845 0.397353 0.911364 0.918467 0.939976 0.9161   |
| P(commercial) 0.189566 0.187394 0.182109 0.18624 0.197907 0.192685 0.196949 0.1957  |
| Time interval 33 34 35 36 37 38 39 40   |
| P(residential) 0.201609 0.22233 0.192406 0.201131 0.220578 0.187718 0.208585 0.182  |
| P(industrial) 0.961526 0.977116 0.960201 1 0.881614 0.887629 0.914003 0.8867  |
| P(commercial) 0.241416 0.29755 0.345161 0.394233 0.490337 0.582412 0.671146 0.7988  |
| Time interval 41 42 43 44 45 46 47 48   |
| P(residential) 0.22588 0.18239 0.183886 0.18868 0.197724 0.201914 0.20377 0.1880  |
| P(industrial) 0.872006 0.885927 0.893611 0.903742 0.584127 0.603889 0.592105 0.5851   |
| P(commercial) 0.825637   0.840081   0.830031   0.908368   0.936211   0.910031   0.908082   0.9283   |
| Time interval 49 50 51 52 53 54 55 56   |
| P(residential) 0.215963 0.212673 0.205945 0.212891 0.184189 0.184847 0.211484 0.1951  |
| P(industrial) 0.853063 0.84174 0.859954 0.845331 0.932449 0.934837 0.919402 0.9052  |
| P(commercial) 0.927645 0.906604 0.912822 0.933953 0.942619 0.932536 0.929032 0.932  |
| Time interval 57 58 59 60 61 62 63 64   |
| P(residential) 0.206909 0.18131 0.19747 0.246837 0.296205 0.315952 0.459117 0.6022  |
| P(industrial) 0.806161 0.804782 0.794923 0.789149 0.769328 0.742209 0.736045 0.7675   |
| P(commercial) 0.925399 0.938027 0.947104 0.928812 0.913704 0.91901 0.94277 0.9258   |
| Time interval 65 66 67 68 69 70 71 72   |
| P(residential) 0.745448 0.888614 0.987349 0.967669 0.98528 0.982416 0.89894 0.9158  |
| P(industrial) 0.625737 0.61558 0.650909 0.637098 0.309265 0.29393 0.308639 0.3096   |
| P(commercial) 0.93479 0.90961 0.921333 0.921343 0.943368 0.910068 0.931493 0.9434   |
| Time interval 73 74 75 76 77 78 79 80   |
| P(residential) 0.914023 0.871804 0.79246 0.781299 0.756144 0.794947 0.592036 0.5703   |
| P(industrial) 0.020673 0.040217 0.041204 0.020775 0.025253 0.014905 0.011908 0.0158   |
| P(commercial) 0.946132 0.9251 0.920119 0.942527 0.941346 0.94861 0.906366 0.9141  |
| Time interval 81 82 83 84 85 86 87 88   |
| P(residential) 0.574256 0.569346 0.428671 0.436826 0.4494 0.430487 0.268107 0.2513  |

| P(industrial)         | 0.010593 | 0.022328 | 0.038655 | 0.014078 | 0.035416 | 0.042972 | 0.010661 | 0.041985 |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| P(commercial)         | 0.889774 | 0.847028 | 0.775156 | 0.740371 | 0.667322 | 0.632476 | 0.574253 | 0.528264 |
| Time interval         | 89       | 90       | 91       | 92       | 93       | 94       | 95       | 96       |
| P(residential)        | 0.246352 | 0.24619  | 0.220578 | 0.187718 | 0.208585 | 0.18237  | 0.22588  | 0.19747  |
| <i>P</i> (industrial) | 0.035044 | 0.038249 | 0.045246 | 0.024189 | 0.028069 | 0.018974 | 0.031629 | 0.031936 |
| P(commercial)         | 0.497623 | 0.44957  | 0.386511 | 0.334455 | 0.289552 | 0.239971 | 0.191993 | 0.144537 |

Table A2 Expectation of maximum output of RES

|   | 1.0   | ubic 112 L  | Apecuatio.  | n oi maxi   | mam out   | put of IXL  | ~   |   |
|---|---|---|---|---|---|---|---|---|
| Time interval   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| $\overline{P}^{\text{WPP}}$   | 0.403772  | 0.404608  | 0.394528  | 0.399271  | 0.40277   | 0.395391  | 0.410802  | 0.405815  |
| $\overline{P}^{	ext{PVP}}$  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Time interval   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| $\overline{P}^{\text{WPP}}$   | 0.404581  | 0.437513  | 0.479767  | 0.537139  | 0.590032  | 0.57551   | 0.59581   | 0.581418  |
| $\overline{P}^{	ext{PVP}}$  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Time interval   | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |
| $\overline{P}^{\mathrm{WPP}}$   | 0.580055  | 0.570492  | 0.553407  | 0.56507   | 0.562214  | 0.556351  | 0.545796  | 0.541448  |
| $\overline{P}^{	ext{PVP}}$  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Time interval   | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  |
| $\overline{P}^{	ext{WPP}}$  | 0.555709  | 0.524411  | 0.451511  | 0.36294   | 0.27333   | 0.20159   | 0.223693  | 0.247722  |
| $\overline{P}^{	ext{PVP}}$  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Time interval   | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| $\overline{P}^{\text{WPP}}$   | 0.269248  | 0.29255   | 0.323239  | 0.345026  | 0.370117  | 0.387143  | 0.417243  | 0.443458  |
| $\overline{P}^{	ext{PVP}}$  | 0   | 0   | 0.023018  | 0.046398  | 0.070104  | 0.091643  | 0.138189  | 0.186841  |
| Time interval   | 41  | 42  | 43  | 44  | 45  | 46  | 47  | 48  |
| $\overline{P}^{\text{WPP}}$   | 0.466103  | 0.477779  | 0.499161  | 0.495789  | 0.499189  | 0.509582  | 0.502421  | 0.497809  |
| $\overline{P}^{	ext{PVP}}$  | 0.232254  | 0.273058  | 0.304453  | 0.339271  | 0.35815   | 0.381372  | 0.410406  | 0.429402  |
|   |   |   |   |   |   |   |   |   |
| Time interval   | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  |
| $\overline{P}^{	ext{WPP}}$  |   | 50<br>0.510316  |   |   |   |   |   |   |
| $\frac{\overline{P}^{\text{WPP}}}{\overline{P}^{\text{PVP}}}$   |   | 0.510316  |   | 0.516486  | 0.521234  | 0.540116  | 0.554402  | 0.568147  |
| $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval   | 0.506029  | 0.510316  | 0.527718  | 0.516486  | 0.521234  | 0.540116  | 0.554402  | 0.568147  |
|   | 0.506029<br>0.470317<br>57  | 0.510316<br>0.49681   | 0.527718<br>0.523761<br>59  | 0.516486<br>0.588205<br>60  | 0.521234<br>0.632964<br>61  | 0.540116<br>0.708568<br>62  | 0.554402<br>0.721872<br>63  | 0.568147<br>0.681313<br>64  |
| $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval   | 0.506029<br>0.470317<br>57  | 0.510316<br>0.49681<br>58<br>0.593114   | 0.527718<br>0.523761<br>59  | 0.516486<br>0.588205<br>60<br>0.717574  | 0.521234<br>0.632964<br>61  | 0.540116<br>0.708568<br>62<br>0.910099  | 0.554402<br>0.721872<br>63  | 0.568147<br>0.681313<br>64<br>0.977228  |
| $ \overline{P}^{\text{WPP}} $ $ \overline{P}^{\text{PVP}} $ Time interval $ \overline{P}^{\text{WPP}} $ $ \overline{P}^{\text{PVP}} $ Time interval   | 0.506029<br>0.470317<br>57<br>0.574503  | 0.510316<br>0.49681<br>58<br>0.593114   | 0.527718<br>0.523761<br>59<br>0.626339  | 0.516486<br>0.588205<br>60<br>0.717574  | 0.521234<br>0.632964<br>61<br>0.818106  | 0.540116<br>0.708568<br>62<br>0.910099  | 0.554402<br>0.721872<br>63<br>0.995482  | 0.568147<br>0.681313<br>64<br>0.977228  |
|   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65  | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413  | 0.527718<br>0.523761<br>59<br>0.626339<br>0.569647  | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68   | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69   | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70   | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338  | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72  |
| $ \overline{P}^{\text{WPP}} $ $ \overline{P}^{\text{PVP}} $ Time interval $ \overline{P}^{\text{WPP}} $ $ \overline{P}^{\text{PVP}} $ Time interval   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441  | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66  | 0.527718<br>0.523761<br>59<br>0.626339<br>0.569647<br>67<br>1                               | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404   | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315   | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222   | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725   | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592  |
| $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441  | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928  | 0.527718<br>0.523761<br>59<br>0.626339<br>0.569647<br>67<br>1                               | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404   | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315   | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222   | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725   | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592  |
|   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73  | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525  | 0.527718<br>0.523761<br>59<br>0.626339<br>0.569647<br>67<br>1<br>0.391728<br>75             | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76   | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77   | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78   | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79   | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592<br>0.161955<br>80  |
| $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73<br>0.578259                                    | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525<br>74  | 0.527718<br>0.523761<br>59<br>0.626339<br>0.569647<br>67<br>1<br>0.391728<br>75<br>0.561195 | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76   | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77   | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78   | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79   | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592<br>0.161955<br>80  |
| $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73<br>0.578259                                    | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525<br>74<br>0.568517                                    | 0.527718<br>0.523761<br>59<br>0.626339<br>0.569647<br>67<br>1<br>0.391728<br>75<br>0.561195 | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76<br>0.536484                                   | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77<br>0.534075                                   | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78<br>0.509432                                   | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79<br>0.495324                                   | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592<br>0.161955<br>80<br>0.47893                                   |
|   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73<br>0.578259<br>0.109067<br>81                  | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525<br>74<br>0.568517<br>0.063645                        | 0.527718 0.523761 59 0.626339 0.569647 67 1 0.391728 75 0.561195 0.016784 83                | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76<br>0.536484<br>0                              | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77<br>0.534075<br>0                              | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78<br>0.509432<br>0                              | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79<br>0.495324<br>0                              | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592<br>0.161955<br>80<br>0.47893<br>0                              |
| $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ Time interval $\overline{P}^{\text{WPP}}$ $\overline{P}^{\text{PVP}}$ | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73<br>0.578259<br>0.109067<br>81                  | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525<br>74<br>0.568517<br>0.063645<br>82                  | 0.527718 0.523761 59 0.626339 0.569647 67 1 0.391728 75 0.561195 0.016784 83                | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76<br>0.536484<br>0                              | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77<br>0.534075<br>0                              | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78<br>0.509432<br>0                              | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79<br>0.495324<br>0                              | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592<br>0.161955<br>80<br>0.47893<br>0                              |
|   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73<br>0.578259<br>0.109067<br>81<br>0.464023      | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525<br>74<br>0.568517<br>0.063645<br>82<br>0.434948      | 0.527718 0.523761 59 0.626339 0.569647 67 1 0.391728 75 0.561195 0.016784 83 0.408266       | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76<br>0.536484<br>0<br>84<br>0.404775            | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77<br>0.534075<br>0<br>85<br>0.394436            | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78<br>0.509432<br>0<br>86<br>0.394455            | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79<br>0.495324<br>0<br>87<br>0.379053            | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592<br>0.161955<br>80<br>0.47893<br>0<br>88<br>0.380269            |
|   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73<br>0.578259<br>0.109067<br>81<br>0.464023<br>0 | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525<br>74<br>0.568517<br>0.063645<br>82<br>0.434948<br>0 | 0.527718 0.523761 59 0.626339 0.569647 67 1 0.391728 75 0.561195 0.016784 83 0.408266 0 91  | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76<br>0.536484<br>0<br>84<br>0.404775<br>0<br>92 | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77<br>0.534075<br>0<br>85<br>0.394436<br>0<br>93 | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78<br>0.509432<br>0<br>86<br>0.394455<br>0<br>94 | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79<br>0.495324<br>0<br>87<br>0.379053<br>0<br>95 | 0.568147 0.681313 64 0.977228 0.474644 72 0.590592 0.161955 80 0.47893 0 88 0.380269 0 96   |
|   | 0.506029<br>0.470317<br>57<br>0.574503<br>0.652765<br>65<br>0.994441<br>0.432946<br>73<br>0.578259<br>0.109067<br>81<br>0.464023<br>0 | 0.510316<br>0.49681<br>58<br>0.593114<br>0.62413<br>66<br>0.983928<br>0.411525<br>74<br>0.568517<br>0.063645<br>82<br>0.434948<br>0 | 0.527718 0.523761 59 0.626339 0.569647 67 1 0.391728 75 0.561195 0.016784 83 0.408266 0 91  | 0.516486<br>0.588205<br>60<br>0.717574<br>0.57103<br>68<br>0.898404<br>0.350448<br>76<br>0.536484<br>0<br>84<br>0.404775<br>0<br>92 | 0.521234<br>0.632964<br>61<br>0.818106<br>0.54184<br>69<br>0.826315<br>0.298382<br>77<br>0.534075<br>0<br>85<br>0.394436<br>0<br>93 | 0.540116<br>0.708568<br>62<br>0.910099<br>0.51488<br>70<br>0.726222<br>0.250713<br>78<br>0.509432<br>0<br>86<br>0.394455<br>0<br>94 | 0.554402<br>0.721872<br>63<br>0.995482<br>0.487338<br>71<br>0.62725<br>0.200696<br>79<br>0.495324<br>0<br>87<br>0.379053<br>0<br>95 | 0.568147<br>0.681313<br>64<br>0.977228<br>0.474644<br>72<br>0.590592<br>0.161955<br>80<br>0.47893<br>0<br>88<br>0.380269<br>0<br>96 |