Supplementary Information For

Hybrid H_2 Storage in ZIF-8 and THF-driven Hydrates: A molecular simulation study at the microsecond scale

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Total number of figures: 30

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Contents of Supporting Information

S1. Simulation details

S1.1. Simulation Models

The systems were uniformly composed of ZIF-8, H_2, H_2O, and THF molecules. The system sizes are listed in Table S1. These molecules were all randomly inserted into the simulation box. THF hydrate belongs to the SII-type hydrate, mainly composed of 5^{12} and $5^{12}6^4$ cages. THF hydrate nanoparticles with a diameter of 3 nm contain 481 H_2O and 33 THF molecules. The detailed force field parameters for H_2O, H_2, and THF molecules in the system are provided in Table S2.

S1.2. Simulation Methods

The geometry of the H_2O molecules is maintained by applying the SETTLE algorithm[1]. The ZIF-8 framework was treated as a rigid structure. The Lorentz-Berthelot mixing rules are used for describing the unlike interactions. The equations of motion were integrated according to the leapfrog algorithm with a 2.0 fs timestep. The initial configurations were energy minimized by using the steepest descent algorithm. A pre-equilibrium simulation was performed for 2 ns, and the temperature was set to 250 K by controlling the v-rescale[2] algorithm, and the pressure was 500 bar by the Berendsen[3] algorithm. The isothermal-isobaric *NPT* ensemble balance was carried out at a constant temperature (T = 250 K) using Nosé-Hoover[4] temperature coupling, and at a constant pressure (P = 500 bar) using Parinello-Rahman[5] pressure coupling. To monitor the growth of binary H_2-THF hydrates, the cage analysis algorithm proposed by Jacobson *et al.*[6] is used to identify the seven cage types (5^{12}, $5^{12}6^2$, $5^{12}6^3$, $5^{12}6^4$, $4^15^{10}6^2$, $4^15^{10}6^3$, and $4^15^{10}6^4$). To quantify the distribution of H_2 molecules, we devised a geometric and distance-based classification method. Specifically: (1) ZIF-8 Phase: H_2 molecules were assigned to this phase if their atomic coordinates fell within the spatial envelope of the ZIF-8 framework. (2) Nanobubble or water: We classify gas molecules to identify the number of water and other guest molecules within a certain cutoff. This method is used to determine whether each guest molecule belongs to the water phase or the nanobubbles. (3) THF Hydrate: H_2 molecules were considered part of the hydrate phase if they were located within the center of a formed water cage.

Table S1. System sizes of the five different systems.

	Systems: 250 K/500 bar				
System	N_{THF}	N_{H_2}	N_{H_2O}	Time	Nucleation observed
H_{MOF1}	583	6000	15676	3.0 μs	Yes
H_{MOF2}	583	6000	15676	3.0 μs	no
H_{MOF3}	583	6000	15676	3.0 μs	Yes
H_{MOF4}	583	6000	15676	3.0 μs	Yes
H_{MOF5}	583	6000	15676	3.0 μs	Yes

Table S2. Force field parameters for TIP4P/ice [7], Alavi *et al.* H_2 [8], and OPLS-AA force field THF [9]. σ and ε are the Lennard-Jones parameters, in units of nm and kJ/mol, respectively; q is the partial charge in units of elementary charge (e); m is the atomic mass in units of g/mol.

atom	ε / [kJ/mol]	σ / [nm]	q / [e]	m / [g/mol]
H_2O				
O (MW)	0	0	-1.1794	0
O	0.8822	0.31668	0	16
H	0	0	0.5897	1.008
H_2				
Hh	0	0	0.4932	1.008
Hm	0.2852	0.3083	-0.9864	0
THF				
C(CT)	0.276144	0.35	-0.12	12.011
C(CT1)	0.276144	0.35	0.14	12.011
O(OS)	0.58576	0.29	-0.4	15.9994
H (HL)	0.12552	0.25	0.03	1.008
H (HC)	0.12552	0.25	0.06	1.008

S2. Calculation of properties

S2.1. Average diffusion coefficient (K_{DC})

The centre of mass mean square displacements (MSD) and diffusion coefficients K_{DC} are calculated using the option *gmx_mpi msd* in the post-processing of GROMACS 2022 [1]. An index file containing atom numbers of H_2 is used and the MSD is averaged over these atoms. An index file containing atom numbers is used and the MSD is averaged over these atoms. For water molecules consisting of more than one atom, r_i can be taken as the O atom.

$$K_{DC} = \frac{\lim_{t\to\infty}\langle \|r_i(t) - r_i(0)\|^2 \rangle_{i\in A}}{6\Delta t} \quad (1)$$

In this study, each centre of mass MSD is calculated within 1 ns for H_2 molecules. Therefore, each diffusion coefficient is the average value within intervals of 1 ns.

S2.2. Gas mole fraction

We use VMD software [10] to determine the state of guest molecules (H_2 and THF molecules) or water molecules. At each frame, we check each gas molecule to find the number of water molecules and other guest molecules surrounding it (within a certain cutoff). This method is used to determine whether each guest molecule belongs to the water phase or the nanobubbles. The guest mole fraction in the aqueous phase is defined as the number of guest molecules in the aqueous phase divided by the number of water and guest molecules in the aqueous phase, as follows.

$$guest\ mole\ fraction\ = \frac{N_{guest}}{N_{gas} + N_{water}} \quad (2)$$

where N_{guest} is the number of guest molecules (H_2 and THF molecules) in the aqueous phase. N_{water} is the number of water molecules.

S2.3. Residence time correlation function

The principle of correlation functions is well established and documented in GROMACS 2022 [1]. The residence time correlation function is one such function. The definition of the residence correlation function $C_f(t)$ for residence $f(t)$ is:

$$C_f(t) = \langle f(\xi) f(\xi + t) \rangle_\xi \quad (3)$$

$\langle\ \rangle$ indicates averaging over ξ, that is over time origins. The residence time τ is calculated by the numeric integration of the residence correlation function:

$$\tau = \int_0^\infty C_f(t)dt \tag{4}$$

In practical MD simulation, correlation functions are calculated based on data points with discrete time intervals Δt, so the residence correlation function $C_f(t)$ is:

$$C_f(j\Delta t) = \frac{1}{N-j}\sum_{i=0}^{N-1-j} f(i\Delta t)f((i+j)\Delta t) \tag{5}$$

where N is the number of available time frames for the calculation. In this study, each residence time τ_{Res} is calculated within 1 ns for H_2, THF, and H_2O molecules near hydrophobic metal-organic framework ZIF-8. The GROMACS command *gmx_mpi hbond -ac -contact* can perform the calculation of the residence correlation function.

S2.4. Lifetime of H_2/THF molecules in ZIF-8

To assess the stability of H_2/THF in ZIF-8, we define the lifetime of H_2/THF molecules in ZIF-8. This metric gauges whether H_2/THF molecules in ZIF-8 will maintain its state in ZIF-8 or transition into another state for subsequent simulations. The lifetime of H_2/THF molecules in ZIF-8 is defined as the time during which the H_2/THF molecule retains its state in ZIF-8 in subsequent simulations divided by the total subsequent time.

$$Lifetime\ of\ H2/THF\ = \frac{t_{inZIF-8}}{t_{total}} \tag{6}$$

Where $t_{inZIF-8}$ is the time during of the H_2/THF molecule retains its state in ZIF-8. t_{total} is the time during the subsequent simulations.

S2.4. Lifetime of H_2 molecules in water

To assess the stability of H_2 in water, we define the lifetime of H_2 molecules in water. This metric gauges whether H_2 molecules in water will maintain its state in water or transition into another state for subsequent simulations. Lifetime of H_2 is defined as the time during which the H_2 molecule retains its state in water in subsequent simulations divided by the total subsequent time.

$$Lifetime\ of\ H_2 = \frac{t_{inwater}}{t_{total}} \tag{7}$$

Where $t_{inwater}$ is the time during of the H_2 molecule retains its state in water. t_{total} is the time during the subsequent simulations.

S2.5. H_2 storage capacity

During the period of 0 - 2.0 μs, H_2 storage has two states, *i.e.*, stored in hydrate and stored in hydrophobic metal-organic framework ZIF-8. H_2 storage capacity (wt%) is defined as the mass of H_2 molecules stored in hydrate or in ZIF-8 divided by the total mass of hydrate or ZIF-8.

$$C_{Hydrate} = \frac{M_{H2\ in\ hydarte}}{M_{Hydarte}} \times 100\% \quad (8)$$

Where $M_{H2\ in\ hydarte}$ is the mass of H_2 molecules in the hydrate. $M_{Hydarte}$ is the mass of the hydrate (H_2O, and H_2).

$$C_{ZIF-8} = \frac{M_{H2\ in\ ZIF-8}}{M_{ZIF-8}} \times 100\% \quad (9)$$

Where $M_{H2\ in\ ZIF-8}$ is the mass of H_2 molecules in hydrophobic metal-organic framework ZIF-8. M_{ZIF-8} is the mass of ZIF-8 (ZIF-8 and H_2).

$$C_{total} = C_{Hydrate} + C_{ZIF-8} \quad (10)$$

Where C_{total} is the total H_2 storage capacity. The H_2 storage capacity via the hybrid H_2 physisorption-hydrate formation method averaged over the last 0.05 μs of the simulation.

S3. Supporting Figures

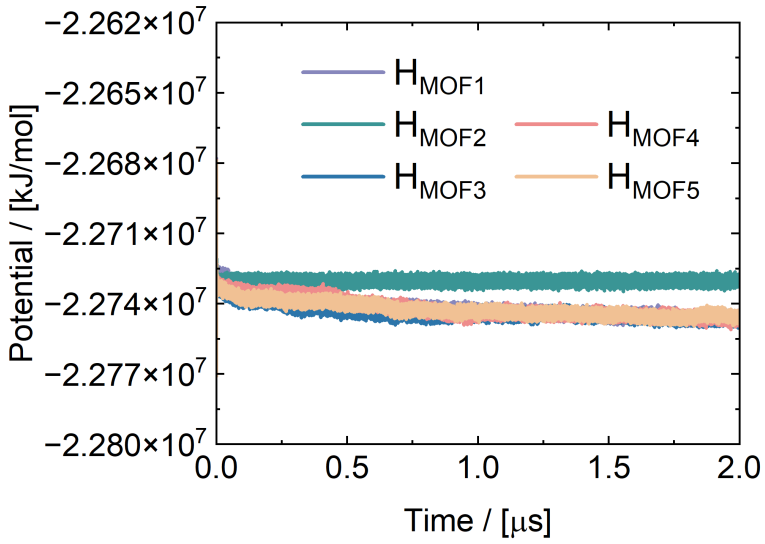

Fig. S1. Potential energy evolution of the five systems, *i.e.*, H_{MOF1}, H_{MOF2}, H_{MOF3}, H_{MOF4}, and H_{MOF5}.

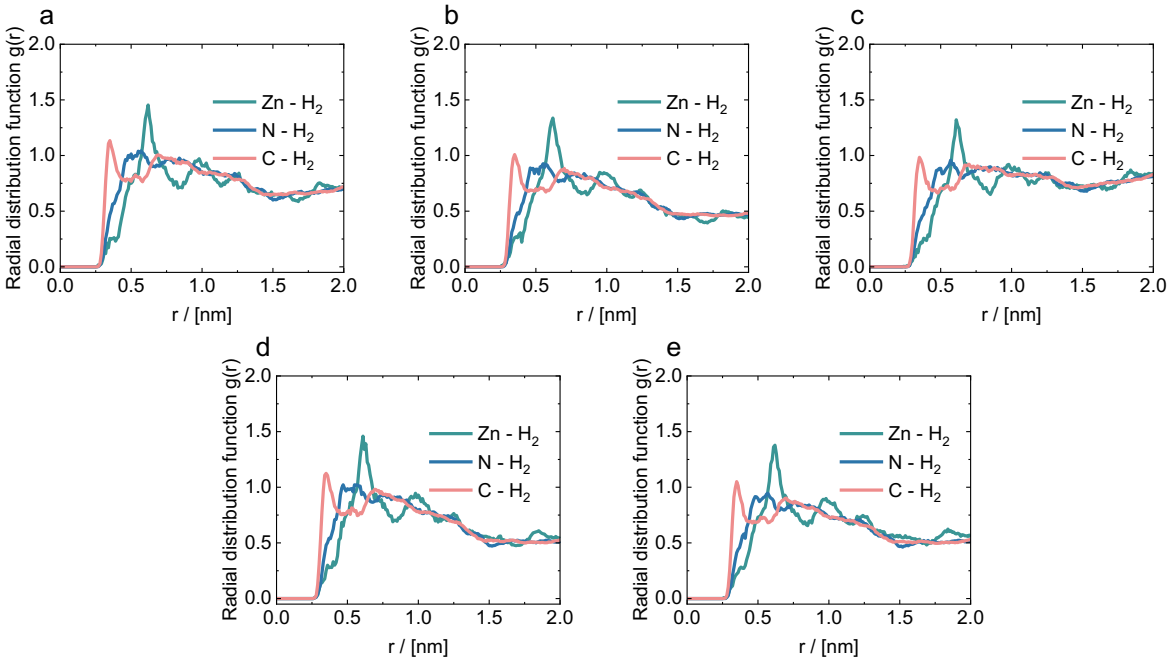

Fig. S2. Radial distribution functions g(r) of the atoms in ZIF-8 (*e.g.*, Zn, N, and C) with H_2 molecules for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

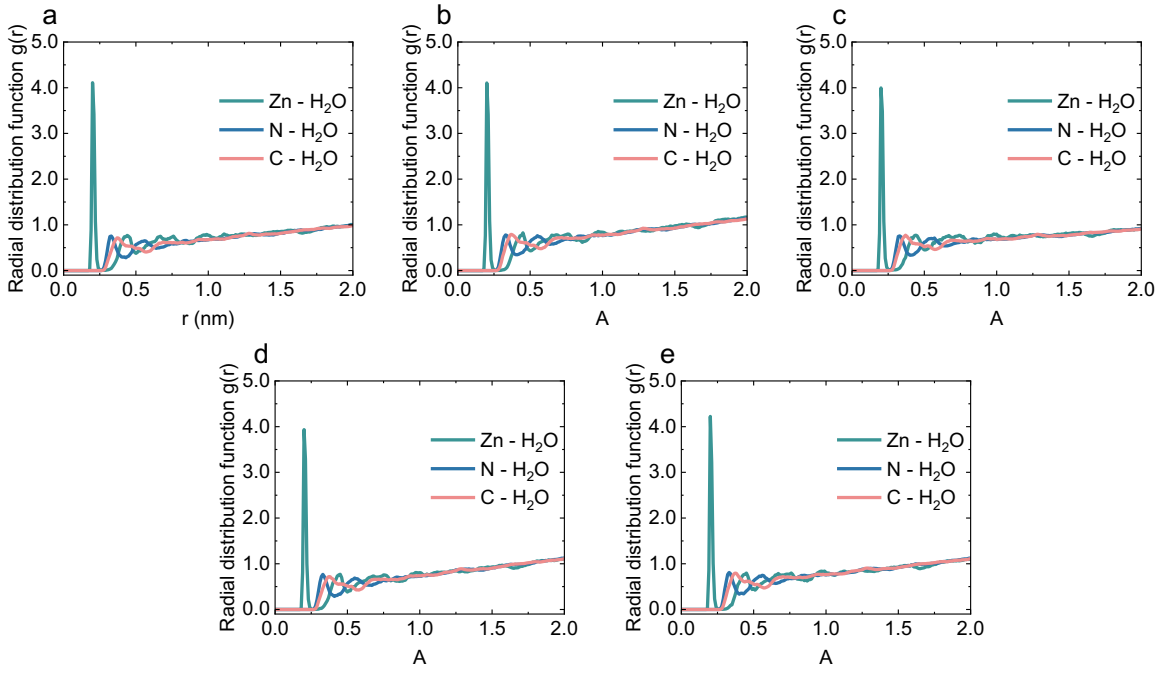

Fig. S3. Radial distribution functions g(r) of the atoms in ZIF-8 (*e.g.*, Zn, N, and C) with H_2O molecules for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

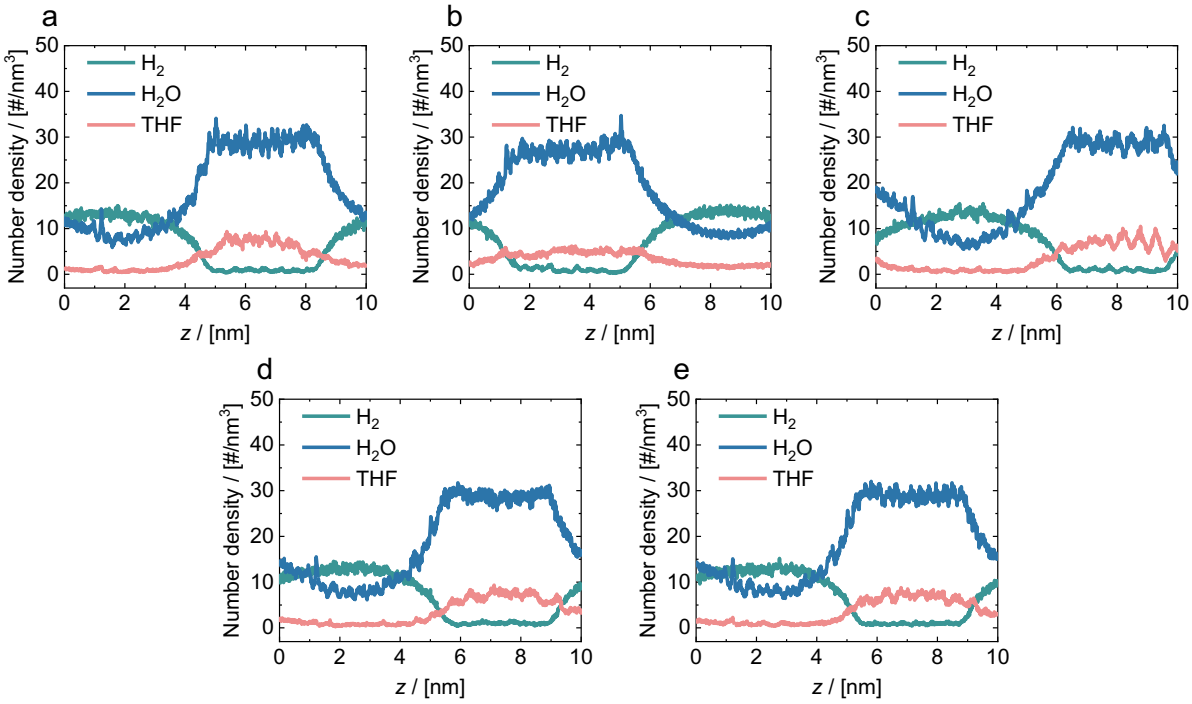

Fig. S4. Number density distribution of H_2, H_2O, and THF molecules in the z direction for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

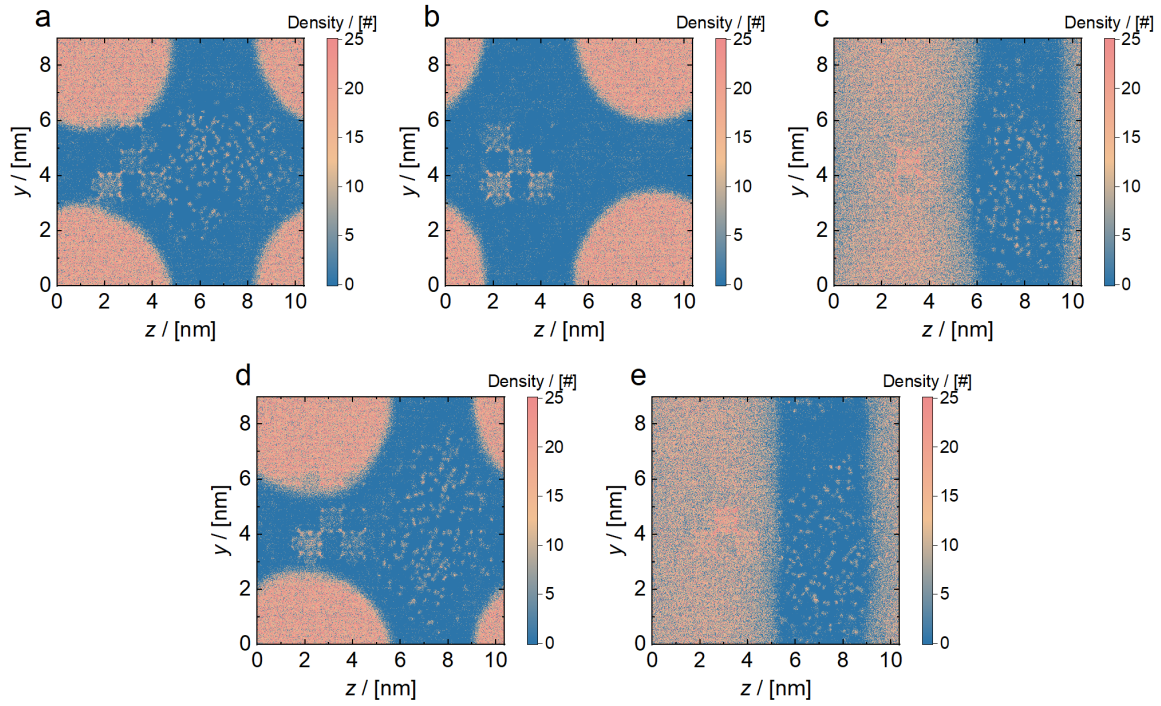

Fig. S5. Number density distribution of H_2 molecules in the z-y plane for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

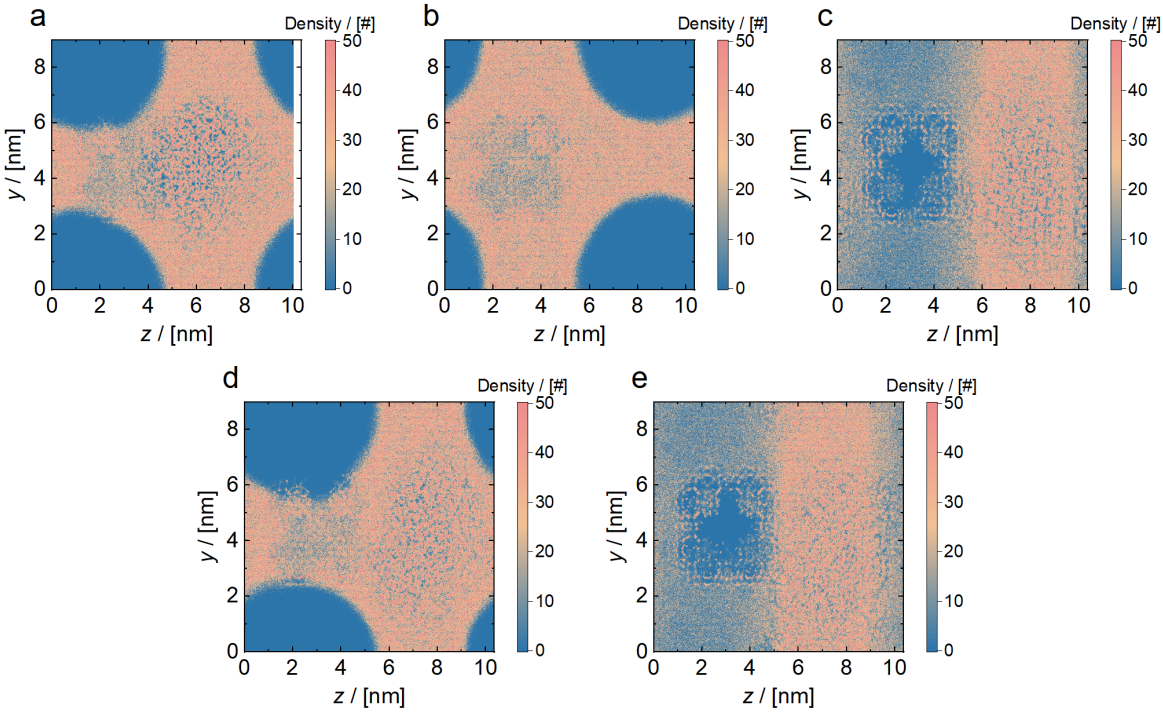

Fig. S6. Number density distribution of H_2O molecules in the z-y plane for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

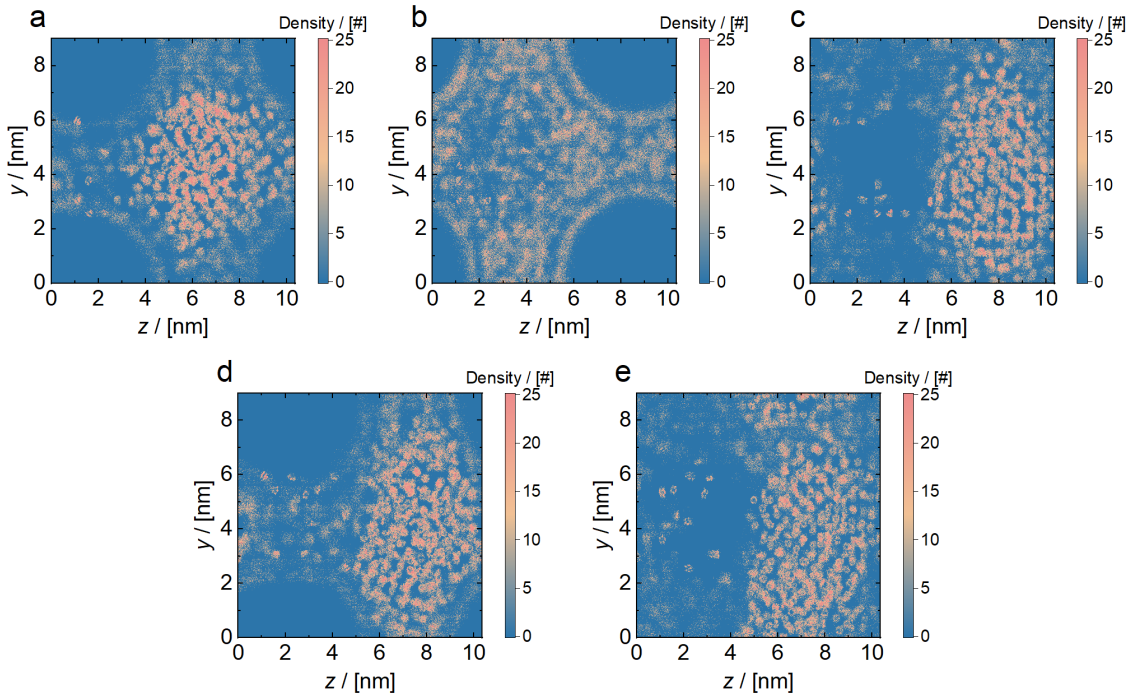

Fig. S7. Number density distribution of THF molecules in the z-y plane for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

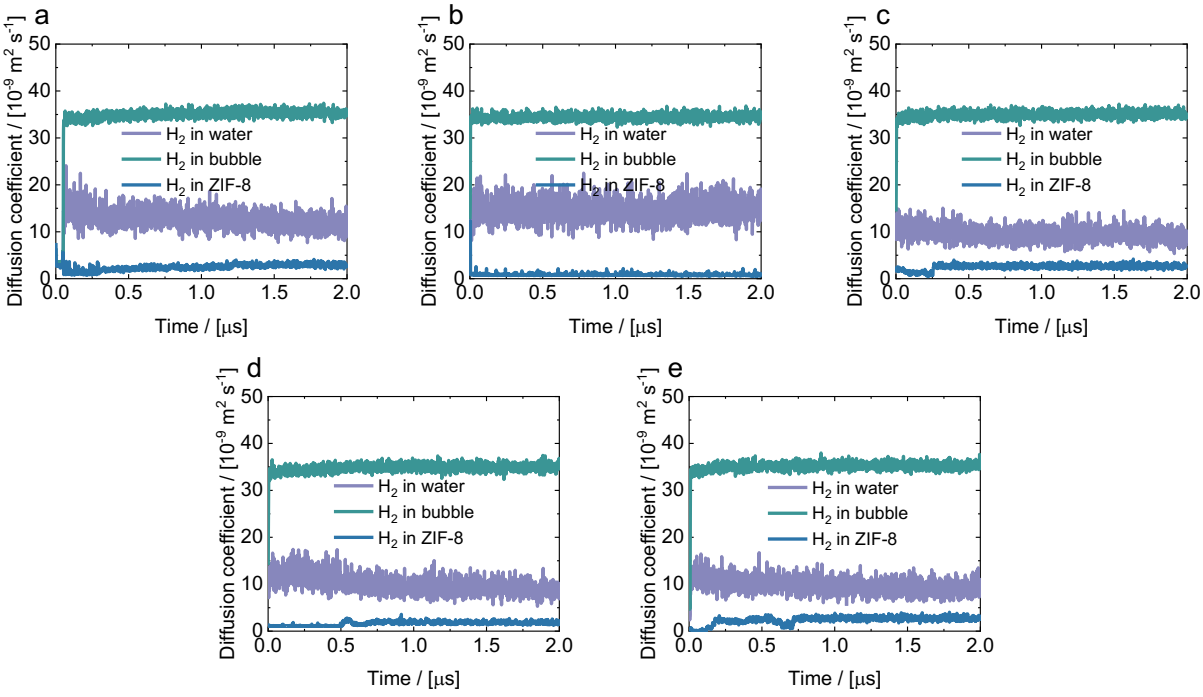

Fig. S8. Time evolution of the average diffusion coefficient for H_2 in water, bubble, and ZIF-8 for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

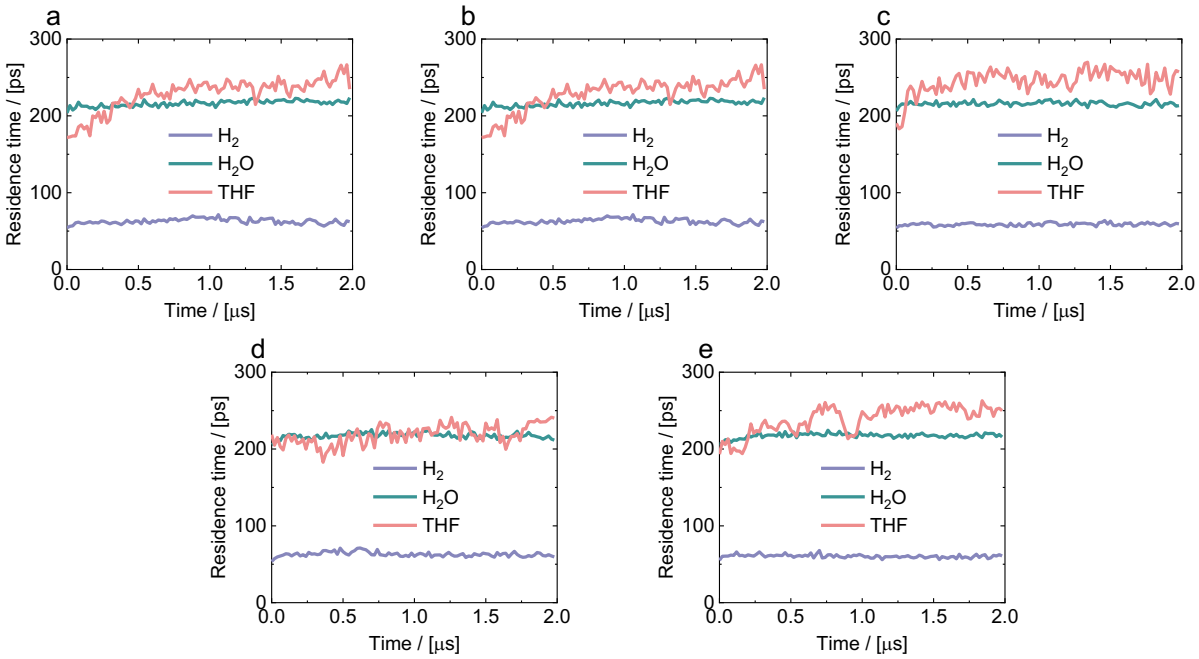

Fig. S9. Time evolution of the average residence time for H_2, H_2O, and THF molecules near the ZIF-8 for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

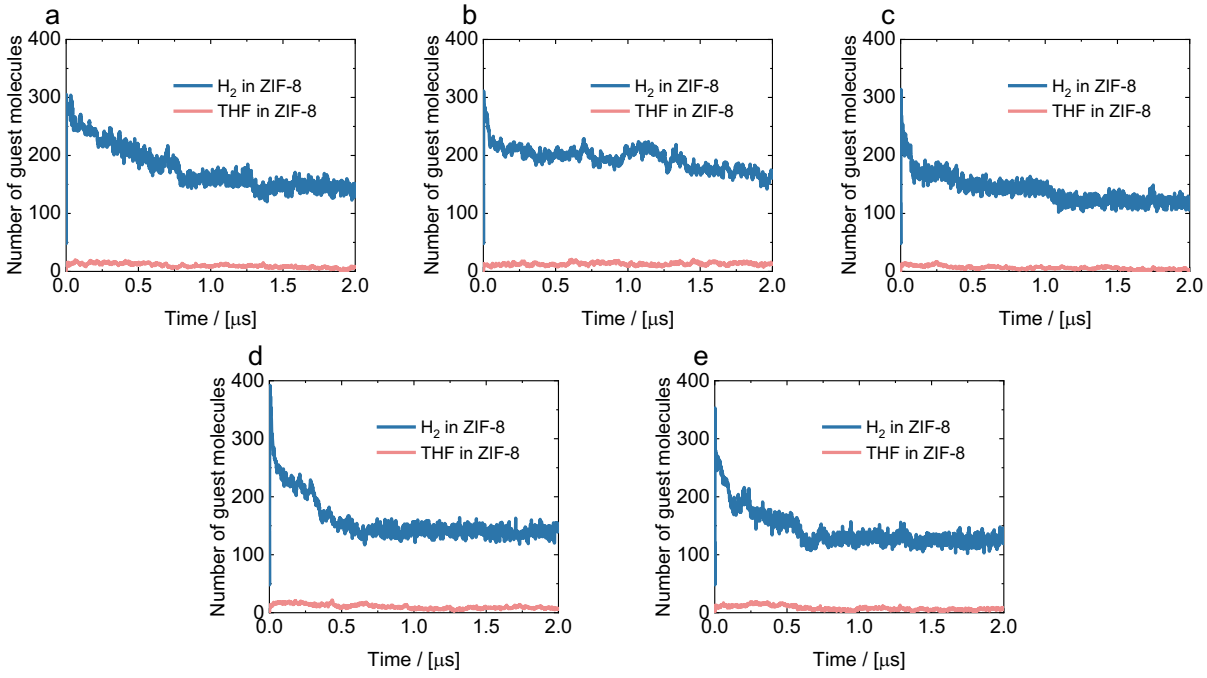

Fig. S10. Time evolution of the number of H_2 and THF molecules in the ZIF-8 for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

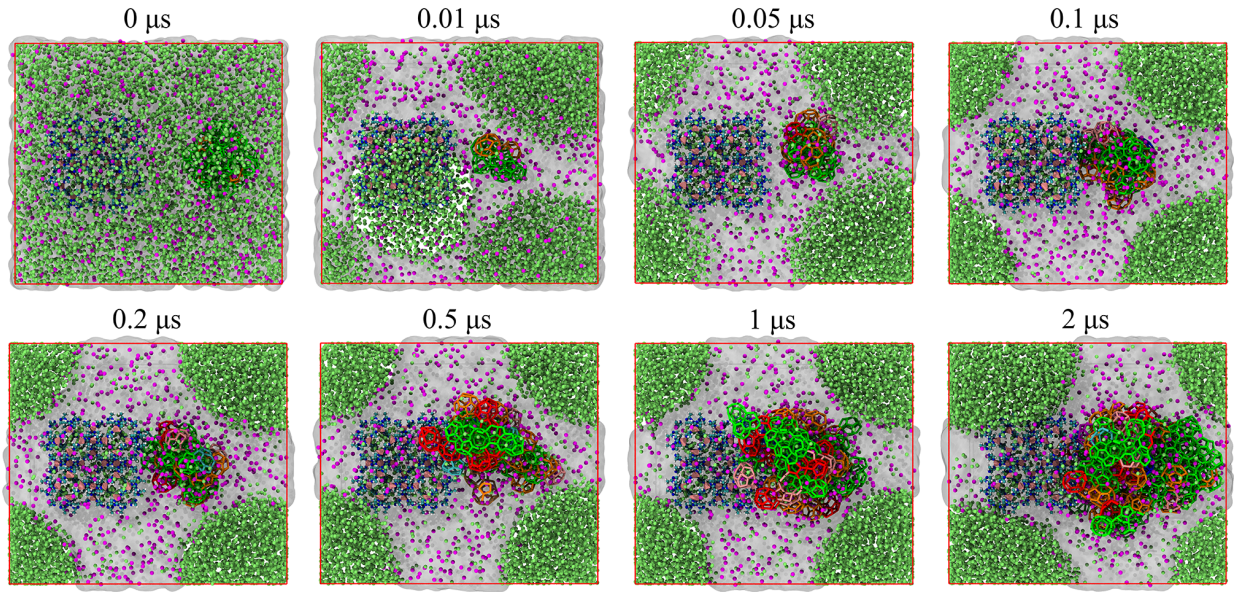

Fig. S11. Simulation snapshots showing the growth process of binary H_2-THF hydrates for the H_{MOF1} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Magenta balls, lime balls, and transparent white represent THF, H_2, and H_2O molecules, respectively. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

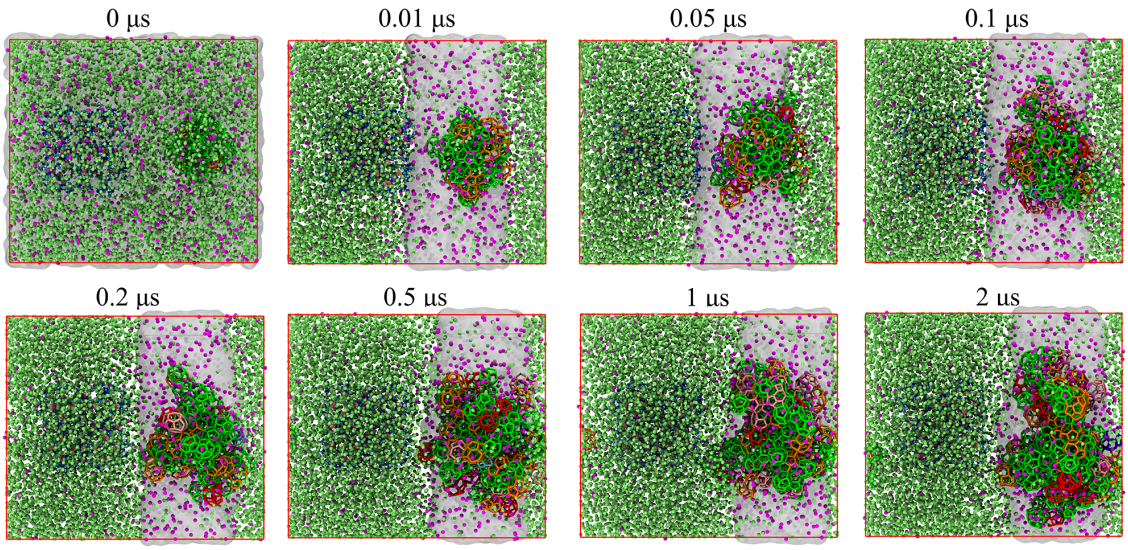

Fig. S12. Simulation snapshots showing the growth process of binary H_2-THF hydrates for the H_{MOF3} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Magenta balls, lime balls, and transparent white represent THF, H_2, and H_2O molecules, respectively. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

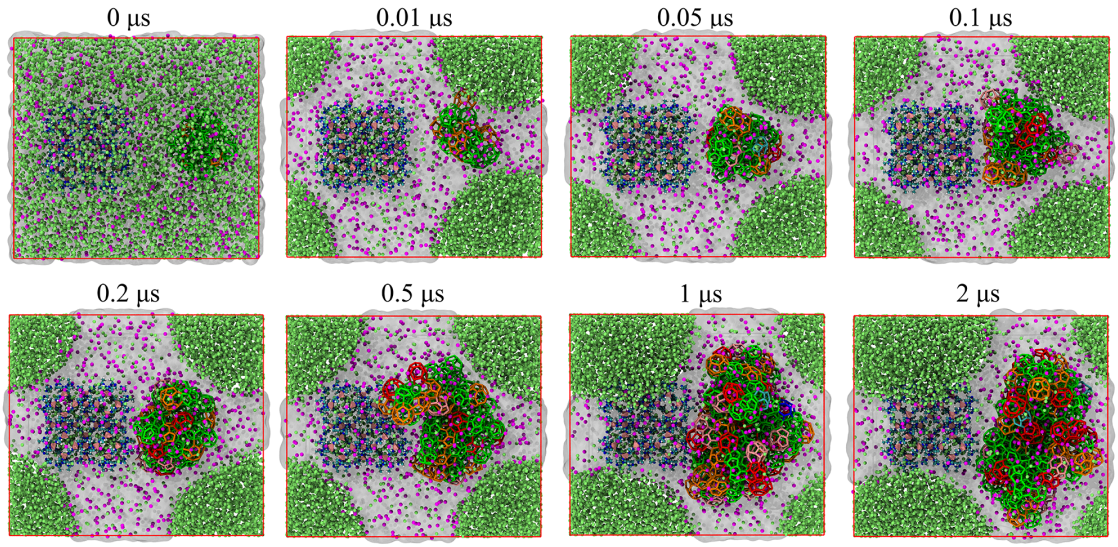

Fig. S13. Simulation snapshots showing the growth process of binary H_2-THF hydrates for the H_{MOF4} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Magenta balls, lime balls, and transparent white represent THF, H_2, and H_2O molecules, respectively. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

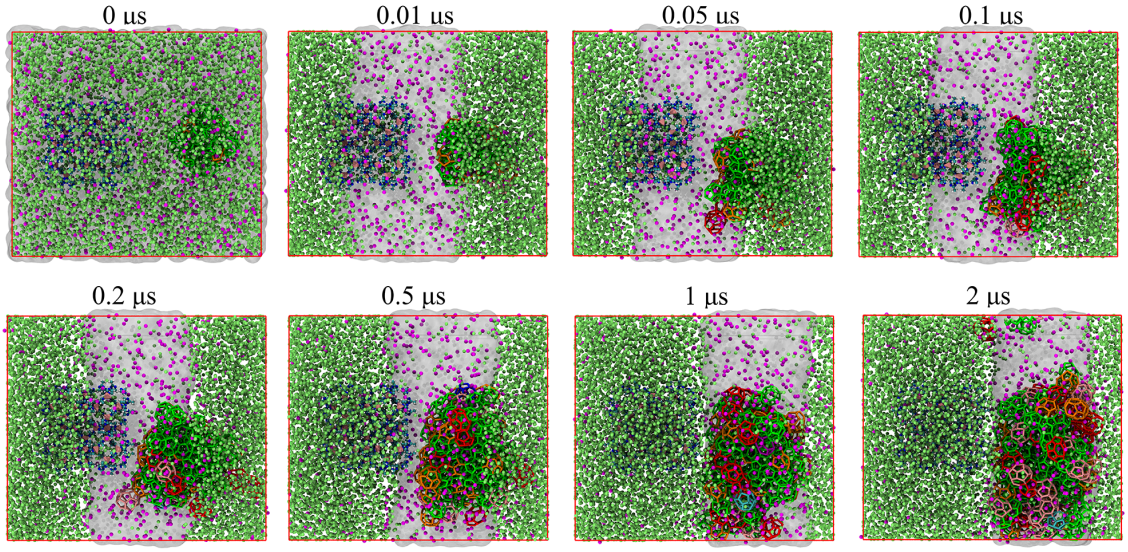

Fig. S14. Simulation snapshots showing the growth process of binary H_2-THF hydrates for the H_{MOF5} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Magenta balls, lime balls, and transparent white represent THF, H_2, and H_2O molecules, respectively. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

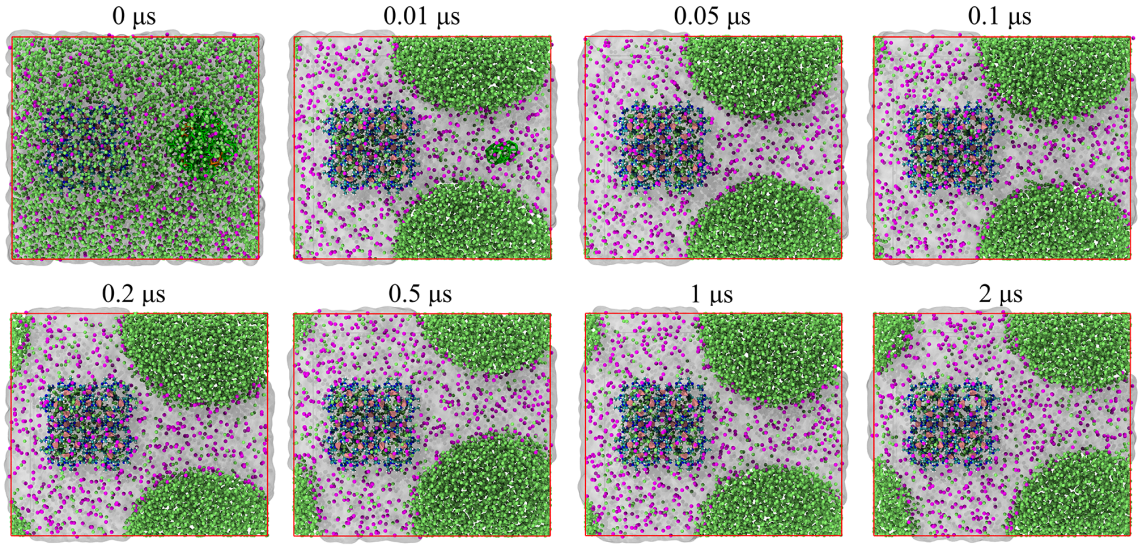

Fig. S15. Simulation snapshots showing the growth process of binary H_2-THF hydrates for the H_{MOF2} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Magenta balls, lime balls, and transparent white represent THF, H_2, and H_2O molecules, respectively. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

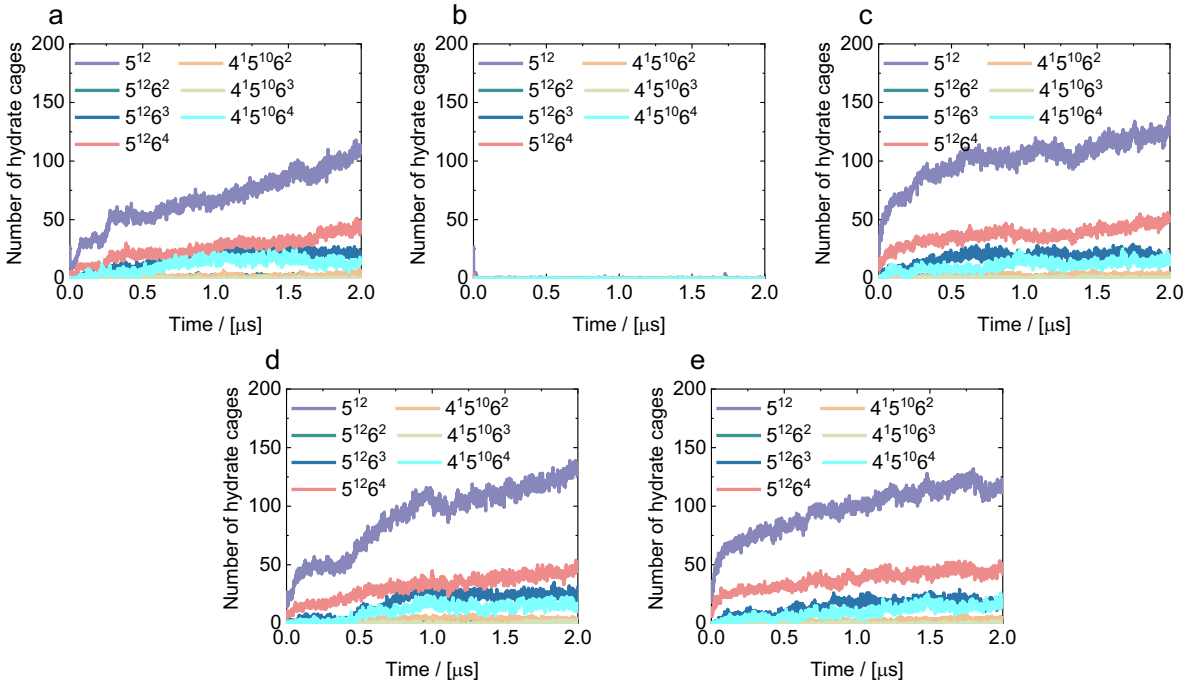

Fig. S16. Time evolution of the number of hydrate cages for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

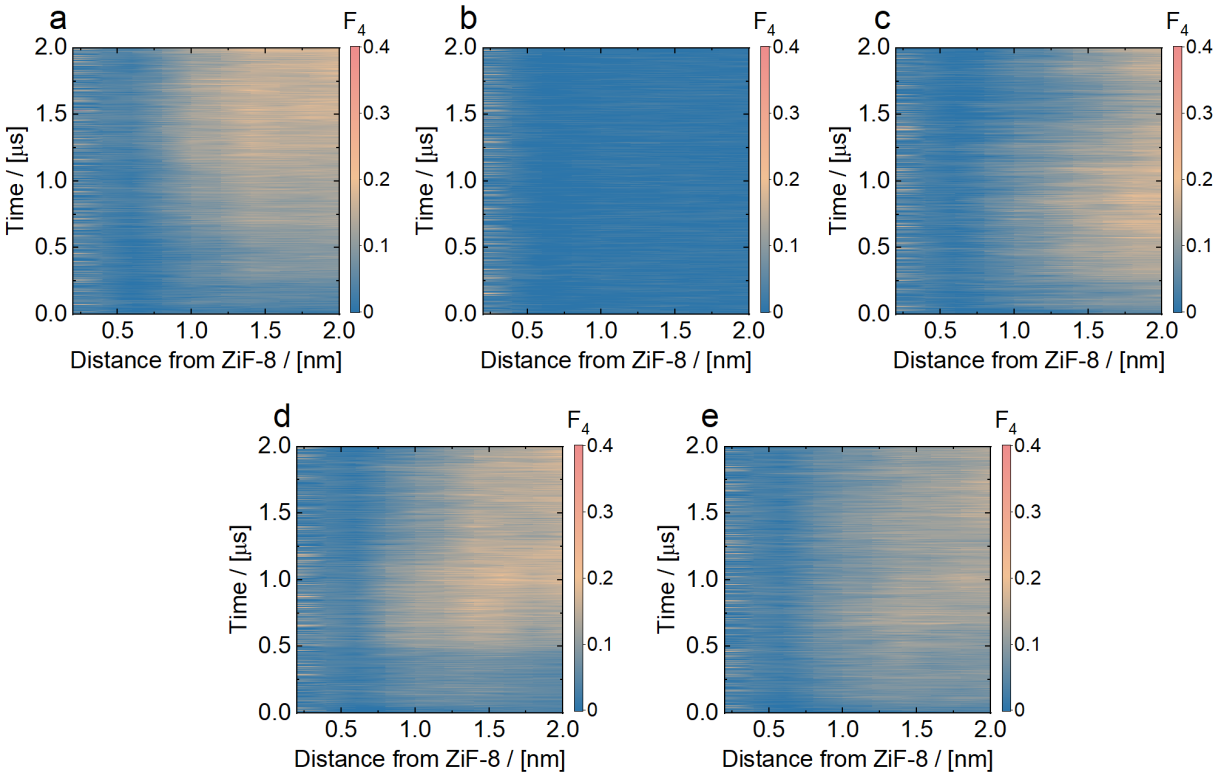

Fig. S17. Time evolution of F_4 order parameters of the different distances from ZIF-8 for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

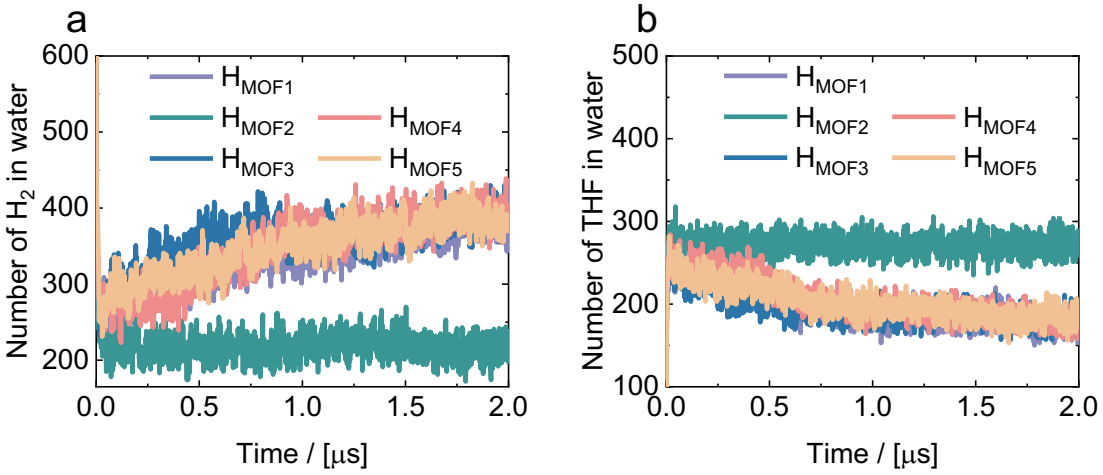

Fig. S18. Time evolution of the number of (a) H_2 and (b) THF in water for the five systems, *i.e.*, H_{MOF1}, H_{MOF2}, H_{MOF3}, H_{MOF4}, and H_{MOF5}.

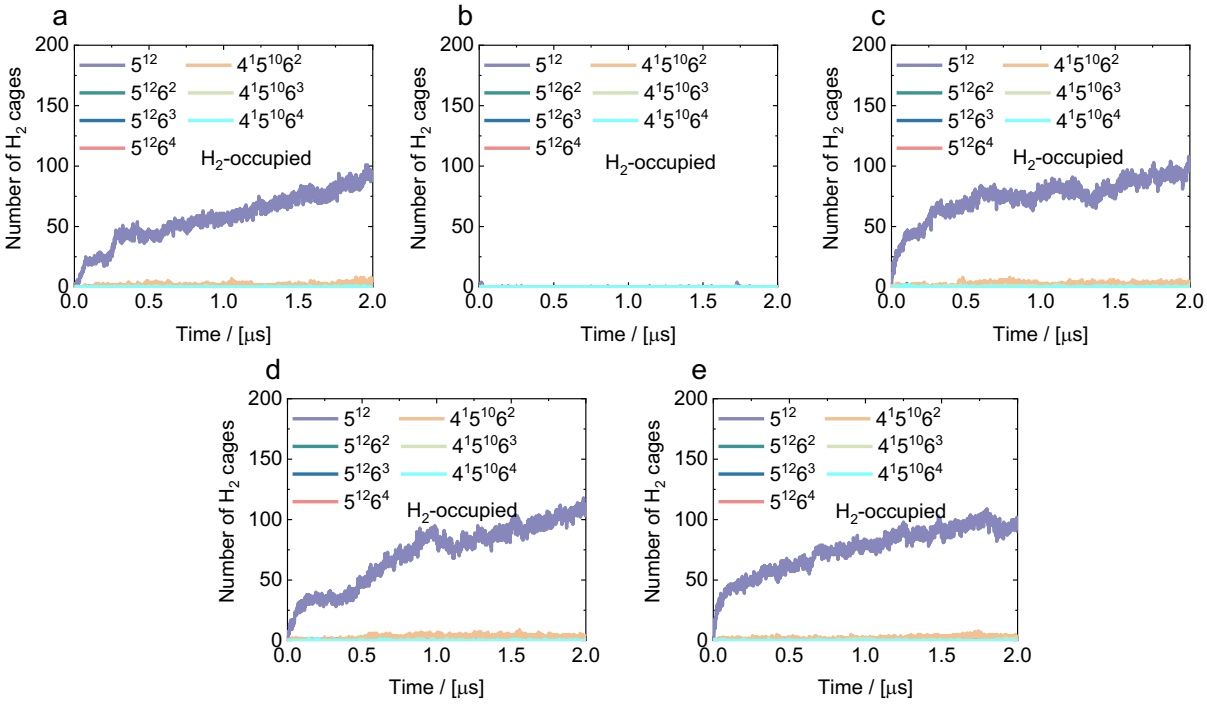

Fig. S19. Time evolution of the number of H_2-occupied hydrate cages for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

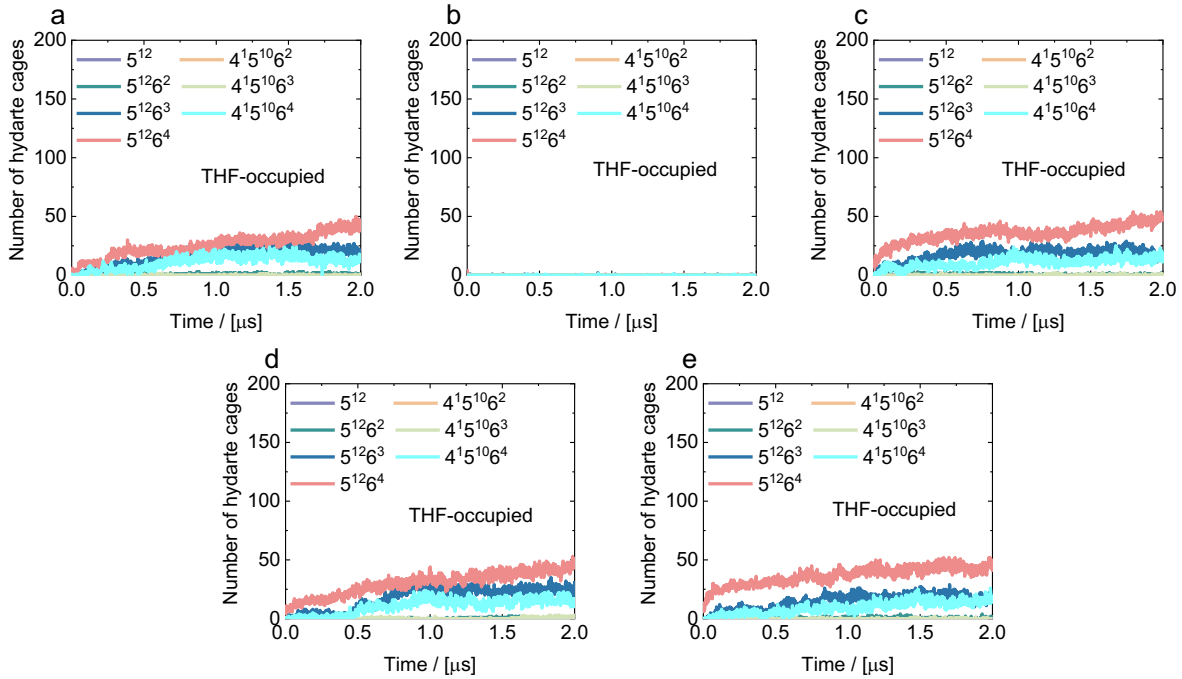

Fig. S20. Time evolution of the number of THF-occupied hydrate cages for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

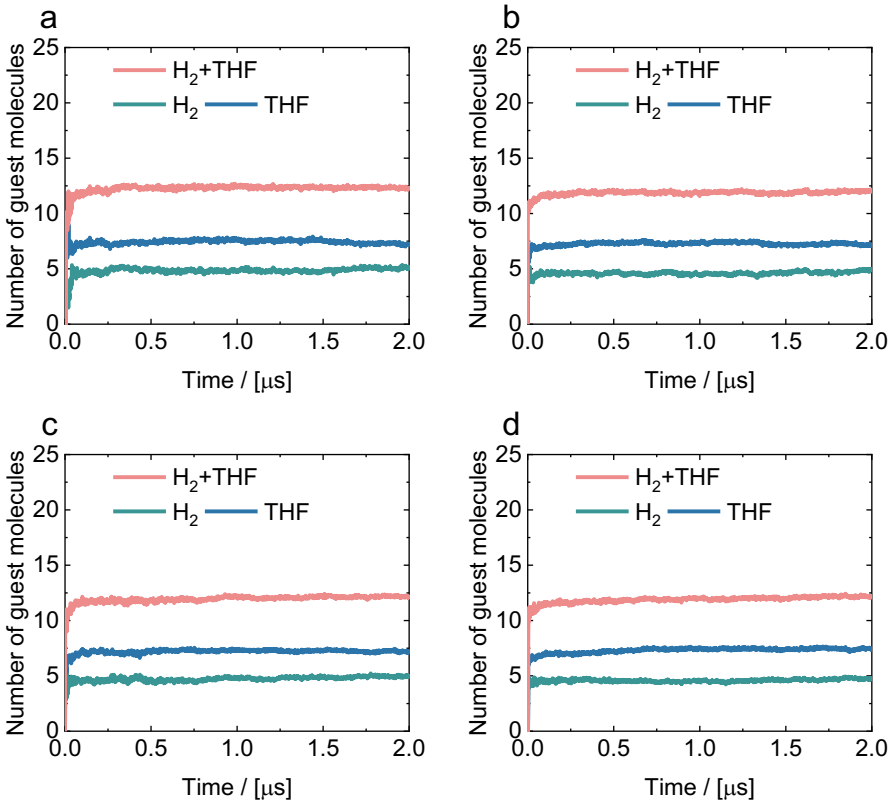

Fig. S21. Time evolution of the number of H_2 and THF molecules absorbed to each face of the hydrate cage occupied by H_2 (H_2-occupied) for the four systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF3}, (c) H_{MOF4}, and (d) H_{MOF5}.

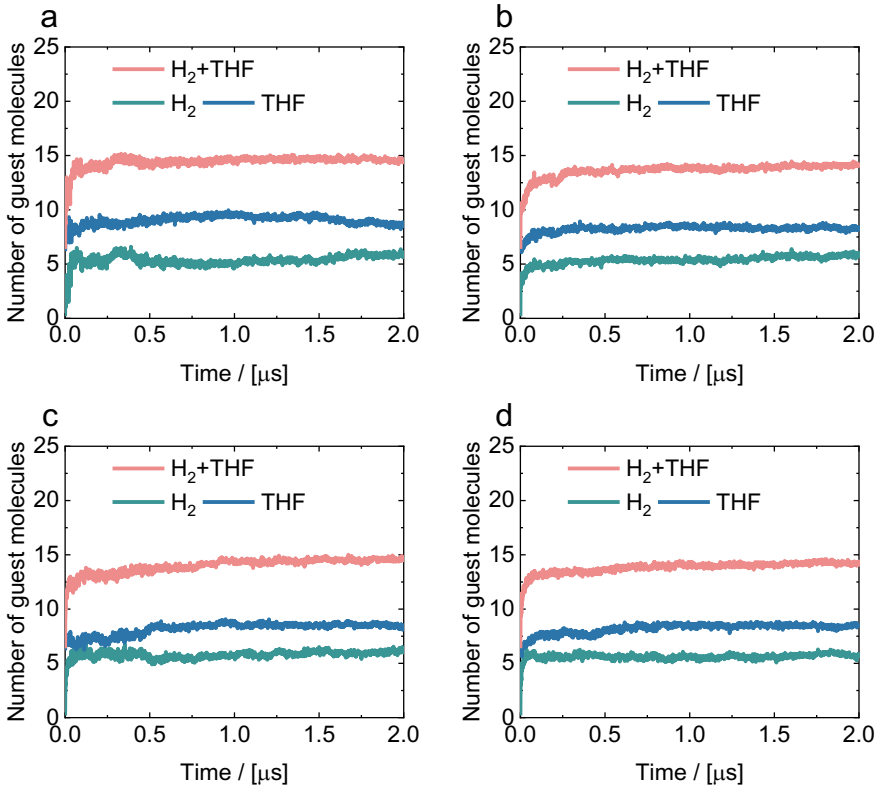

Fig. S22. Time evolution of the number of H_2 and THF molecules absorbed to each face of the hydrate cage occupied by THF (THF-occupied) for the four systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF3}, (c) H_{MOF4}, and (d) H_{MOF5}.

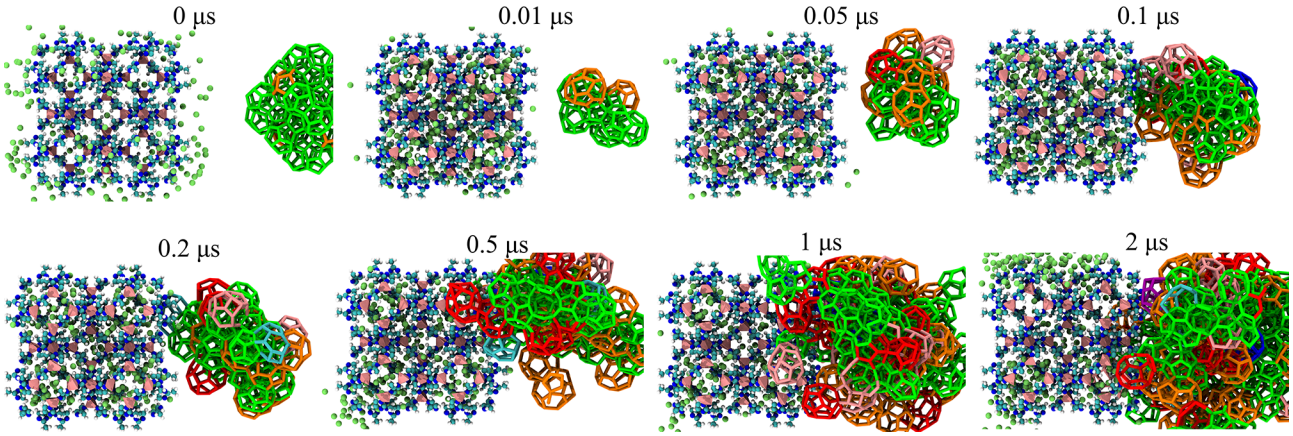

Fig. S23. Simulation snapshots showing the physisorption and hydrate growth processes for the H_{MOF1} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Lime balls represent H_2 molecules. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

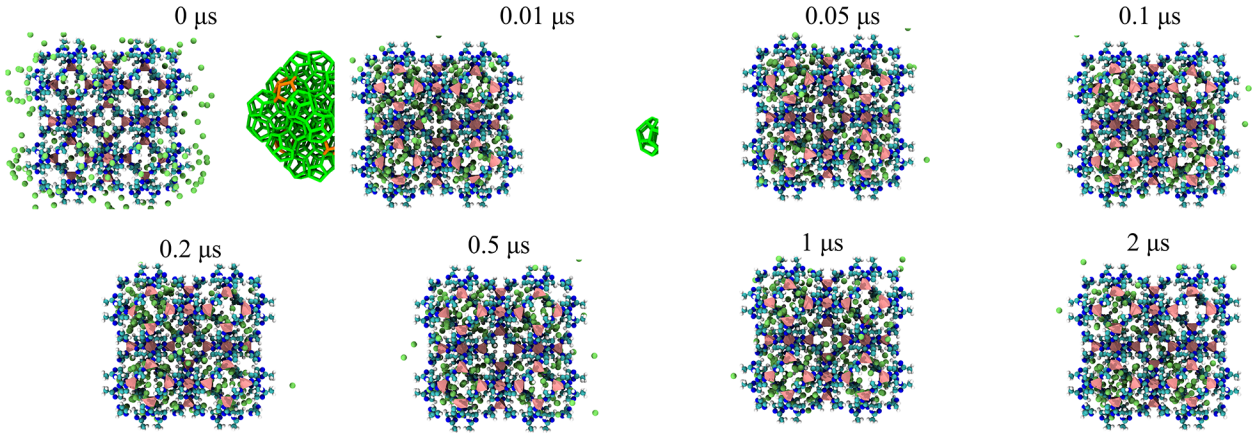

Fig. S24. Simulation snapshots showing the physisorption and hydrate growth processes for the H_{MOF2} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Lime balls represent H_2 molecules. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

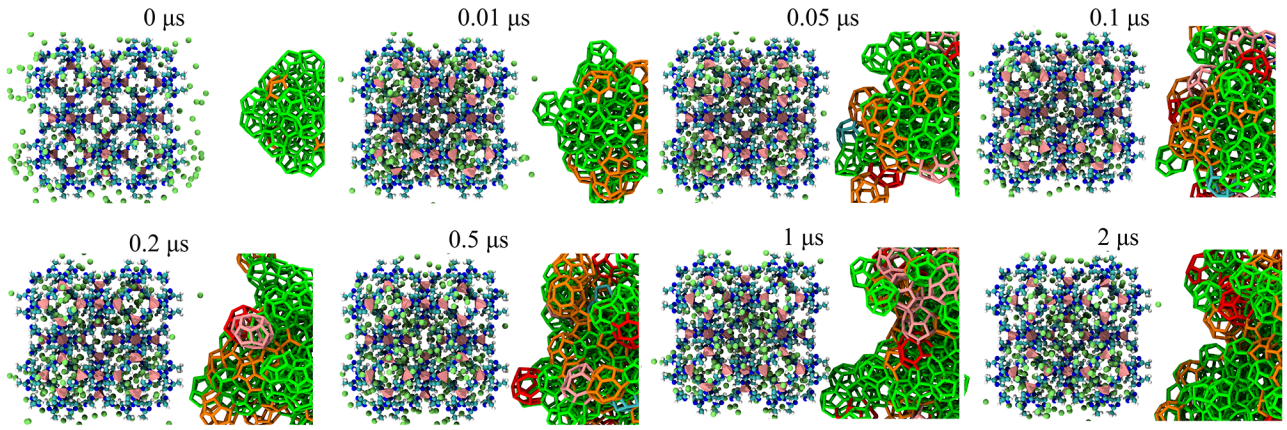

Fig. S25. Simulation snapshots showing the physisorption and hydrate growth processes for the H_{MOF3} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Lime balls represent H_2 molecules. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

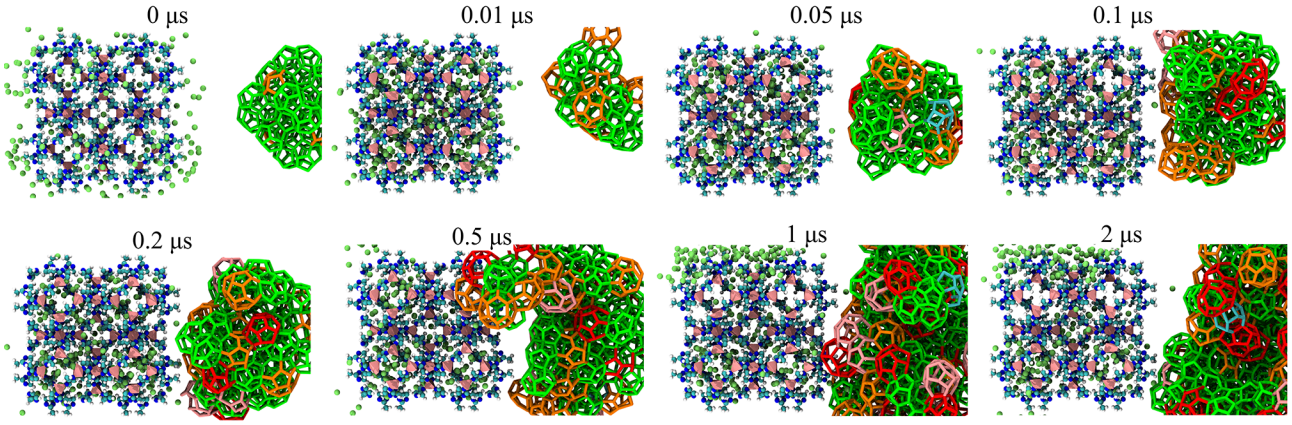

Fig. S26. Simulation snapshots showing the physisorption and hydrate growth processes for the H_{MOF4} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Lime balls represent H_2 molecules. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

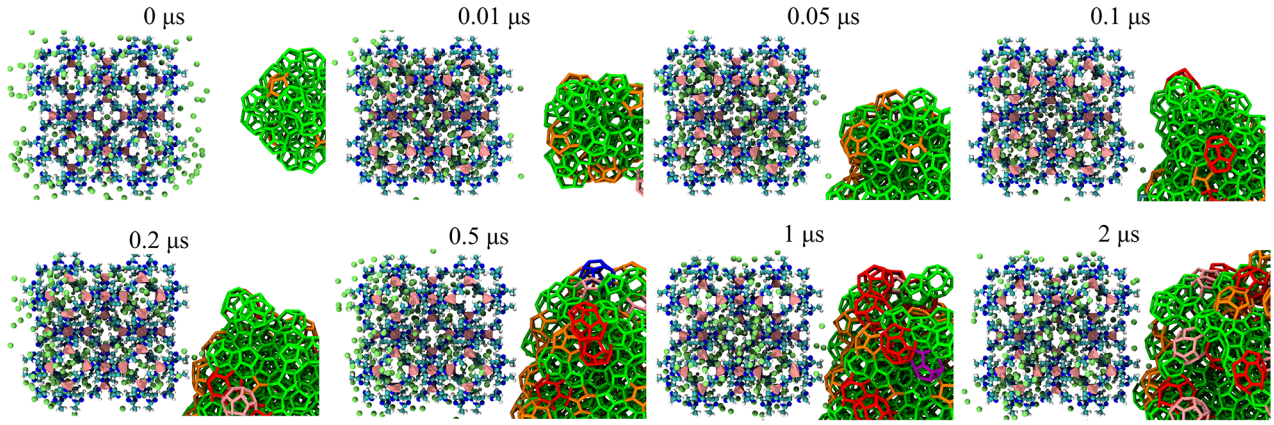

Fig. S27. Simulation snapshots showing the physisorption and hydrate growth processes for the H_{MOF5} system at 0, 0.01, 0.05, 0.1, 0.2, 0.5, 1, and 2 μs, respectively. The hydrophobic metal-organic framework ZIF-8 is displayed as pink (Zn atom), cyan (C atom), blue (N atom), and white (H atom). Lime balls represent H_2 molecules. Bonds of different colours represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

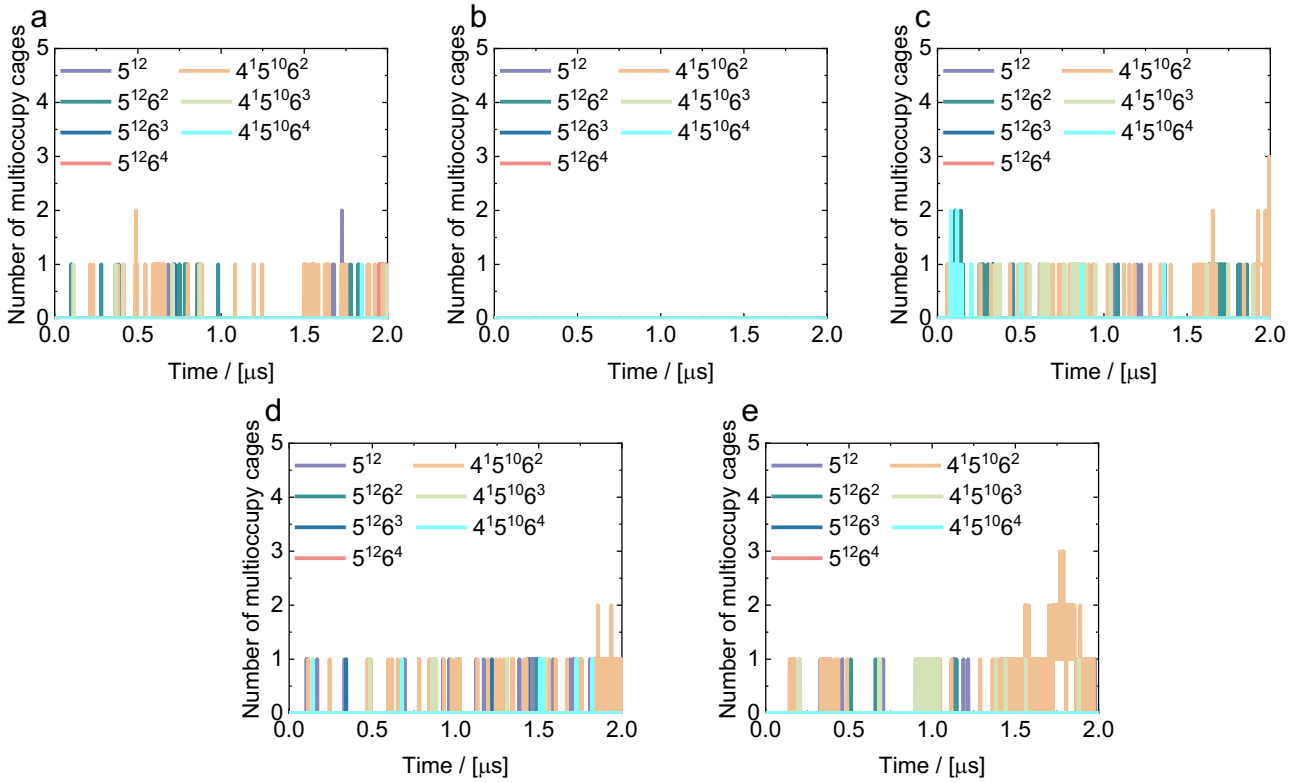

Fig. S28. Time evolution of the number of multi-occupied hydrate cages for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

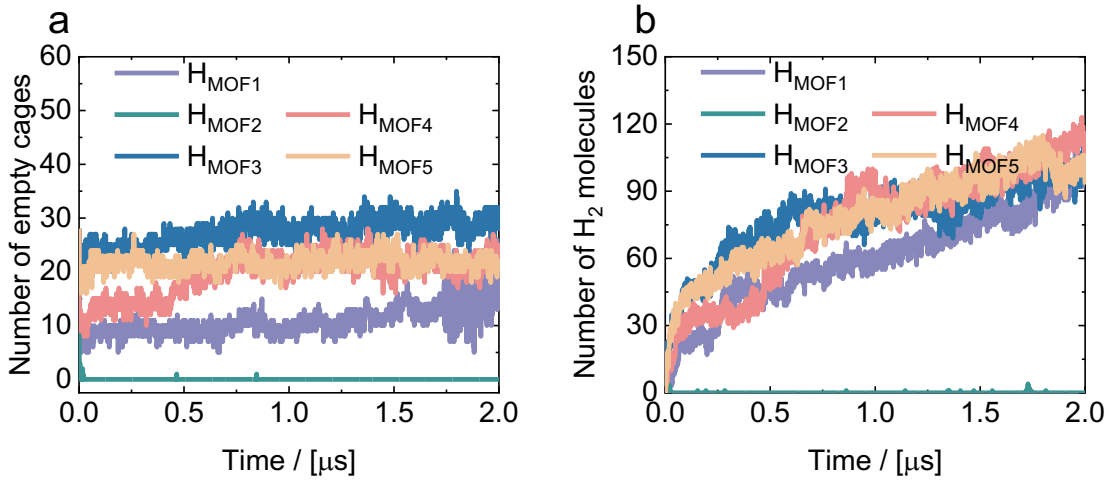

Fig. S29. Time evolution of the number of (a) empty hydrate cages and (b) H_2 in hydrate cages for the five systems, *i.e.*, H_{MOF1}, H_{MOF2}, H_{MOF3}, H_{MOF4}, and H_{MOF5}.

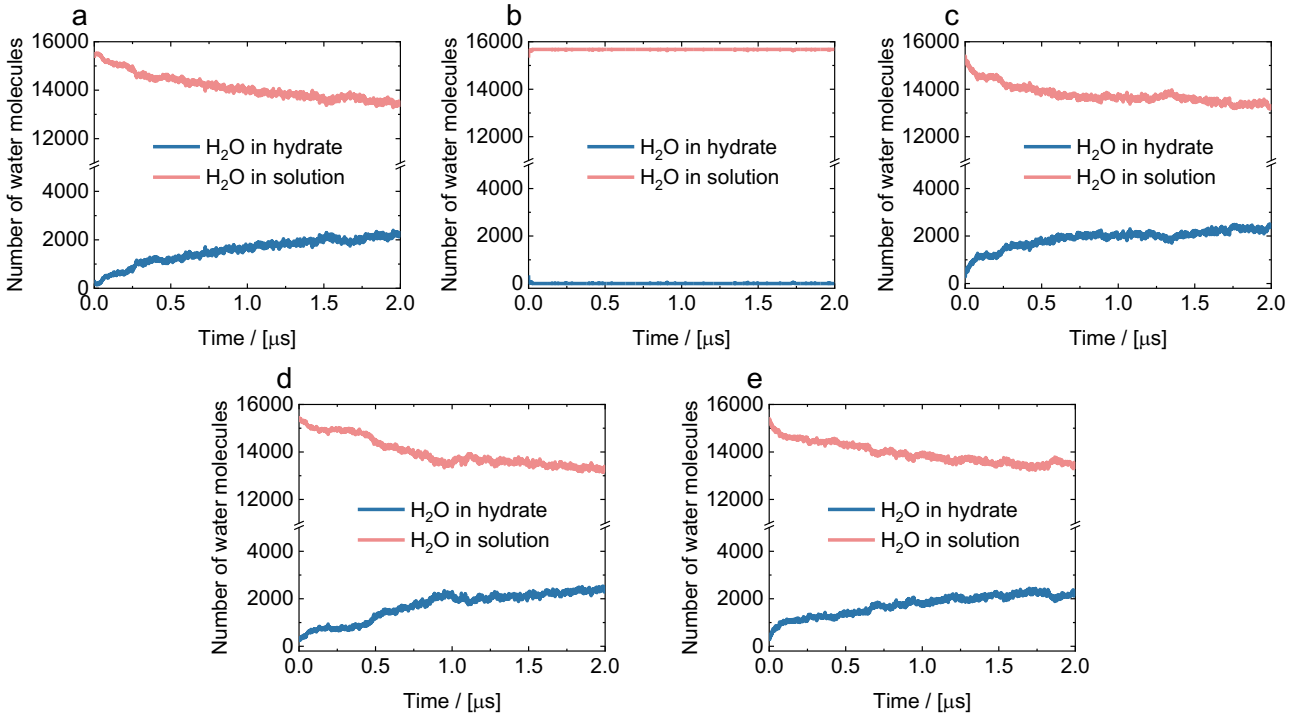

Fig. S30. Time evolution of the number of H_2O molecules in hydrate and solution for the five systems, *i.e.*, (a) H_{MOF1}, (b) H_{MOF2}, (c) H_{MOF3}, (d) H_{MOF4}, and (e) H_{MOF5}.

S4. Supporting Videos

Video S1. Growth processes of binary H_2-THF hydrates and adsorption processes of H_2 in ZIF-8 for the H_{MOF1} system. THF and H_2 molecules are displayed as red and lime balls, respectively. Different colored bonds represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

Video S2. Growth processes of binary H_2-THF hydrates and adsorption processes of H_2 in ZIF-8 for the H_{MOF2} system. THF and H_2 molecules are displayed as red and lime balls, respectively. Different colored bonds represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

Video S3. Growth processes of binary H_2-THF hydrates and adsorption processes of H_2 in ZIF-8 for the H_{MOF3} system. THF and H_2 molecules are displayed as red and lime balls, respectively. Different colored bonds represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

Video S4. Growth processes of binary H_2-THF hydrates and adsorption processes of H_2 in ZIF-8 for the H_{MOF4} system. THF and H_2 molecules are displayed as red and lime balls, respectively. Different colored bonds represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

Video S5. Growth processes of binary H_2-THF hydrates and adsorption processes of H_2 in ZIF-8 for the H_{MOF5} system. THF and H_2 molecules are displayed as red and lime balls, respectively. Different colored bonds represent seven types of hydrate cages, *i.e.*, green for 5^{12}, blue for $5^{12}6^2$, red for $5^{12}6^3$, orange for $5^{12}6^4$, cyan for $4^15^{10}6^2$, purple for $4^15^{10}6^3$, and pink for $4^15^{10}6^4$.

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14ZIF	C2	146	0.311	3.180	2.729
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14ZIF	N	149	0.306	3.246	2.608
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14ZIF	H2	151	0.379	3.202	2.810
14ZIF	H3	152	0.240	3.293	2.359
14ZIF	H3	153	0.072	3.288	2.414
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15ZIF	C3	158	3.234	0.167	2.405
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15ZIF	H2	162	3.019	0.196	2.810
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15ZIF	H3	164	3.327	0.110	2.414
15ZIF	H3	165	3.252	0.255	2.342
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16ZIF	C3	169	3.234	3.231	0.993
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16ZIF	N	171	3.092	3.246	0.790
16ZIF	H2	172	3.202	3.015	0.589
16ZIF	H2	173	3.019	3.202	0.588
16ZIF	H3	174	3.158	3.293	1.040
16ZIF	H3	175	3.327	3.288	0.984
16ZIF	H3	176	3.252	3.144	1.056
17ZIF	C1	177	1.059	1.708	1.057
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17ZIF	C2	179	1.068	1.519	1.161
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17ZIF	N	181	1.159	1.640	1.001
17ZIF	N	182	1.002	1.640	1.156
17ZIF	H2	183	1.233	1.438	1.046
17ZIF	H2	184	1.046	1.437	1.229
17ZIF	H3	185	0.954	1.889	1.090
17ZIF	H3	186	0.960	1.834	0.921
17ZIF	H3	187	1.104	1.906	0.996
18ZIF	C1	188	0.640	-0.009	1.057
18ZIF	C2	189	0.535	0.180	1.067
18ZIF	C2	190	0.631	0.180	1.161
18ZIF	C3	191	0.682	-0.144	1.013
18ZIF	N	192	0.540	0.059	1.001
18ZIF	N	193	0.697	0.060	1.156
18ZIF	H2	194	0.467	0.261	1.046
18ZIF	H2	195	0.653	0.262	1.229
18ZIF	H3	196	0.745	-0.190	1.090
18ZIF	H3	197	0.739	-0.135	0.921
18ZIF	H3	198	0.595	-0.206	0.996
19ZIF	C1	199	1.059	-0.009	0.642
19ZIF	C2	200	1.164	0.180	0.632

19ZIF	C2	201	1.068	0.180	0.538
19ZIF	C3	202	1.017	-0.144	0.686
19ZIF	N	203	1.159	0.059	0.698
19ZIF	N	204	1.002	0.060	0.543
19ZIF	H2	205	1.233	0.261	0.653
19ZIF	H2	206	1.046	0.262	0.470
19ZIF	H3	207	0.954	-0.190	0.609
19ZIF	H3	208	0.960	-0.135	0.778
19ZIF	H3	209	1.104	-0.206	0.703
20ZIF	C1	210	0.640	1.708	0.642
20ZIF	C2	211	0.535	1.520	0.632
20ZIF	C2	212	0.631	1.519	0.538
20ZIF	C3	213	0.682	1.843	0.686
20ZIF	N	214	0.540	1.640	0.698
20ZIF	N	215	0.697	1.640	0.543
20ZIF	H2	216	0.467	1.438	0.653
20ZIF	H2	217	0.653	1.437	0.470
20ZIF	H3	218	0.745	1.889	0.609
20ZIF	H3	219	0.739	1.834	0.778
20ZIF	H3	220	0.595	1.906	0.703
21ZIF	C1	221	1.057	1.059	1.708
21ZIF	C2	222	1.067	1.164	1.520
21ZIF	C2	223	1.161	1.068	1.519
21ZIF	C3	224	1.013	1.017	1.843
21ZIF	N	225	1.001	1.159	1.640
21ZIF	N	226	1.156	1.002	1.640
21ZIF	H2	227	1.046	1.233	1.438
21ZIF	H2	228	1.229	1.046	1.437
21ZIF	H3	229	1.090	0.954	1.889
21ZIF	H3	230	0.921	0.960	1.834
21ZIF	H3	231	0.996	1.104	1.906
22ZIF	C1	232	1.057	0.640	-0.009
22ZIF	C2	233	1.067	0.535	0.180
22ZIF	C2	234	1.161	0.631	0.180

22ZIF	C3	235	1.013	0.682	-0.144
22ZIF	N	236	1.001	0.540	0.059
22ZIF	N	237	1.156	0.697	0.060
22ZIF	H2	238	1.046	0.467	0.261
22ZIF	H2	239	1.229	0.653	0.262
22ZIF	H3	240	1.090	0.745	-0.190
22ZIF	H3	241	0.921	0.739	-0.135
22ZIF	H3	242	0.996	0.595	-0.206
23ZIF	C1	243	0.642	1.059	-0.009
23ZIF	C2	244	0.632	1.164	0.180
23ZIF	C2	245	0.538	1.068	0.180
23ZIF	C3	246	0.686	1.017	-0.144
23ZIF	N	247	0.698	1.159	0.059
23ZIF	N	248	0.543	1.002	0.060
23ZIF	H2	249	0.653	1.233	0.261
23ZIF	H2	250	0.470	1.046	0.262
23ZIF	H3	251	0.609	0.954	-0.190
23ZIF	H3	252	0.778	0.960	-0.135
23ZIF	H3	253	0.703	1.104	-0.206
24ZIF	C1	254	0.642	0.640	1.708
24ZIF	C2	255	0.632	0.535	1.520
24ZIF	C2	256	0.538	0.631	1.519
24ZIF	C3	257	0.686	0.682	1.843
24ZIF	N	258	0.698	0.540	1.640
24ZIF	N	259	0.543	0.697	1.640
24ZIF	H2	260	0.653	0.467	1.438
24ZIF	H2	261	0.470	0.653	1.437
24ZIF	H3	262	0.609	0.745	1.889
24ZIF	H3	263	0.778	0.739	1.834
24ZIF	H3	264	0.703	0.595	1.906
25ZIF	C1	265	0.858	0.207	1.909
25ZIF	C2	266	0.670	0.217	2.013
25ZIF	C2	267	0.670	0.311	1.917
25ZIF	C3	268	0.993	0.164	1.866

25ZIF	N	269	0.790	0.151	2.009
25ZIF	N	270	0.790	0.306	1.852
25ZIF	H2	271	0.589	0.196	2.082
25ZIF	H2	272	0.588	0.379	1.895
25ZIF	H3	273	1.040	0.240	1.804
25ZIF	H3	274	0.984	0.072	1.809
25ZIF	H3	275	1.056	0.146	1.954
26ZIF	C1	276	1.708	1.057	2.758
26ZIF	C2	277	1.520	1.067	2.863
26ZIF	C2	278	1.519	1.161	2.767
26ZIF	C3	279	1.843	1.013	2.716
26ZIF	N	280	1.640	1.001	2.858
26ZIF	N	281	1.640	1.156	2.701
26ZIF	H2	282	1.438	1.046	2.932
26ZIF	H2	283	1.437	1.229	2.745
26ZIF	H3	284	1.889	1.090	2.653
26ZIF	H3	285	1.834	0.921	2.659
26ZIF	H3	286	1.906	0.996	2.803
27ZIF	C1	287	2.540	0.207	1.489
27ZIF	C2	288	2.728	0.217	1.385
27ZIF	C2	289	2.729	0.311	1.481
27ZIF	C3	290	2.405	0.164	1.532
27ZIF	N	291	2.608	0.151	1.390
27ZIF	N	292	2.608	0.306	1.547
27ZIF	H2	293	2.809	0.196	1.316
27ZIF	H2	294	2.810	0.379	1.503
27ZIF	H3	295	2.359	0.240	1.594
27ZIF	H3	296	2.414	0.072	1.589
27ZIF	H3	297	2.342	0.146	1.445
28ZIF	C1	298	2.540	3.191	1.909
28ZIF	C2	299	2.728	3.181	2.013
28ZIF	C2	300	2.729	3.087	1.917
28ZIF	C3	301	2.405	3.234	1.866
28ZIF	N	302	2.608	3.247	2.009

28ZIF	N	303	2.608	3.092	1.852
28ZIF	H2	304	2.809	3.202	2.082
28ZIF	H2	305	2.810	3.019	1.895
28ZIF	H3	306	2.359	3.158	1.804
28ZIF	H3	307	2.414	3.327	1.809
28ZIF	H3	308	2.342	3.252	1.954
29ZIF	C1	309	0.858	3.191	1.489
29ZIF	C2	310	0.670	3.181	1.385
29ZIF	C2	311	0.670	3.087	1.481
29ZIF	C3	312	0.993	3.234	1.532
29ZIF	N	313	0.790	3.247	1.390
29ZIF	N	314	0.790	3.092	1.547
29ZIF	H2	315	0.589	3.202	1.316
29ZIF	H2	316	0.588	3.019	1.503
29ZIF	H3	317	1.040	3.158	1.594
29ZIF	H3	318	0.984	3.327	1.589
29ZIF	H3	319	1.056	3.252	1.445
30ZIF	C1	320	-0.009	1.057	2.339
30ZIF	C2	321	0.180	1.067	2.234
30ZIF	C2	322	0.180	1.161	2.330
30ZIF	C3	323	-0.144	1.013	2.382
30ZIF	N	324	0.059	1.001	2.239
30ZIF	N	325	0.060	1.156	2.396
30ZIF	H2	326	0.261	1.046	2.166
30ZIF	H2	327	0.262	1.229	2.352
30ZIF	H3	328	-0.190	1.090	2.444
30ZIF	H3	329	-0.135	0.921	2.438
30ZIF	H3	330	-0.206	0.996	2.294
31ZIF	C1	331	-0.009	0.642	2.758
31ZIF	C2	332	0.180	0.632	2.863
31ZIF	C2	333	0.180	0.538	2.767
31ZIF	C3	334	-0.144	0.686	2.716
31ZIF	N	335	0.059	0.698	2.858
31ZIF	N	336	0.060	0.543	2.701

31ZIF	H2	337	0.261	0.653	2.932
31ZIF	H2	338	0.262	0.470	2.745
31ZIF	H3	339	-0.190	0.609	2.653
31ZIF	H3	340	-0.135	0.778	2.659
31ZIF	H3	341	-0.206	0.703	2.803
32ZIF	C1	342	1.708	0.642	2.339
32ZIF	C2	343	1.520	0.632	2.234
32ZIF	C2	344	1.519	0.538	2.330
32ZIF	C3	345	1.843	0.686	2.382
32ZIF	N	346	1.640	0.698	2.239
32ZIF	N	347	1.640	0.543	2.396
32ZIF	H2	348	1.438	0.653	2.166
32ZIF	H2	349	1.437	0.470	2.352
32ZIF	H3	350	1.889	0.609	2.444
32ZIF	H3	351	1.834	0.778	2.438
32ZIF	H3	352	1.906	0.703	2.294
33ZIF	C1	353	0.210	0.858	1.907
33ZIF	C2	354	0.314	0.670	1.916
33ZIF	C2	355	0.218	0.670	2.010
33ZIF	C3	356	0.167	0.993	1.863
33ZIF	N	357	0.310	0.790	1.850
33ZIF	N	358	0.152	0.790	2.006
33ZIF	H2	359	0.383	0.589	1.895
33ZIF	H2	360	0.196	0.588	2.078
33ZIF	H3	361	0.105	1.040	1.939
33ZIF	H3	362	0.110	0.984	1.771
33ZIF	H3	363	0.255	1.056	1.845
34ZIF	C1	364	0.207	0.210	2.557
34ZIF	C2	365	0.217	0.314	2.369
34ZIF	C2	366	0.311	0.218	2.369
34ZIF	C3	367	0.164	0.167	2.693
34ZIF	N	368	0.151	0.310	2.490
34ZIF	N	369	0.306	0.152	2.489
34ZIF	H2	370	0.196	0.383	2.288

34ZIF	H2	371	0.379	0.196	2.287
34ZIF	H3	372	0.240	0.105	2.739
34ZIF	H3	373	0.072	0.110	2.684
34ZIF	H3	374	0.146	0.255	2.755
35ZIF	C1	375	3.188	2.540	1.907
35ZIF	C2	376	3.084	2.728	1.916
35ZIF	C2	377	3.180	2.729	2.010
35ZIF	C3	378	3.231	2.405	1.863
35ZIF	N	379	3.089	2.608	1.850
35ZIF	N	380	3.246	2.608	2.006
35ZIF	H2	381	3.015	2.809	1.895
35ZIF	H2	382	3.202	2.810	2.078
35ZIF	H3	383	3.293	2.359	1.939
35ZIF	H3	384	3.288	2.414	1.771
35ZIF	H3	385	3.144	2.342	1.845
36ZIF	C1	386	0.210	2.540	1.492
36ZIF	C2	387	0.314	2.728	1.482
36ZIF	C2	388	0.218	2.729	1.388
36ZIF	C3	389	0.167	2.405	1.535
36ZIF	N	390	0.310	2.608	1.548
36ZIF	N	391	0.152	2.608	1.393
36ZIF	H2	392	0.383	2.809	1.503
36ZIF	H2	393	0.196	2.810	1.320
36ZIF	H3	394	0.105	2.359	1.459
36ZIF	H3	395	0.110	2.414	1.628
36ZIF	H3	396	0.255	2.342	1.553
37ZIF	C1	397	3.188	0.858	1.492
37ZIF	C2	398	3.084	0.670	1.482
37ZIF	C2	399	3.180	0.670	1.388
37ZIF	C3	400	3.231	0.993	1.535
37ZIF	N	401	3.089	0.790	1.548
37ZIF	N	402	3.246	0.790	1.393
37ZIF	H2	403	3.015	0.589	1.503
37ZIF	H2	404	3.202	0.588	1.320

37ZIF	H3	405	3.293	1.040	1.459
37ZIF	H3	406	3.288	0.984	1.628
37ZIF	H3	407	3.144	1.056	1.553
38ZIF	C1	408	0.207	3.188	0.841
38ZIF	C2	409	0.217	3.084	1.029
38ZIF	C2	410	0.311	3.180	1.030
38ZIF	C3	411	0.164	3.231	0.706
38ZIF	N	412	0.151	3.089	0.909
38ZIF	N	413	0.306	3.246	0.909
38ZIF	H2	414	0.196	3.015	1.110
38ZIF	H2	415	0.379	3.202	1.111
38ZIF	H3	416	0.240	3.293	0.660
38ZIF	H3	417	0.072	3.288	0.715
38ZIF	H3	418	0.146	3.144	0.643
39ZIF	C1	419	3.191	0.210	0.841
39ZIF	C2	420	3.181	0.314	1.029
39ZIF	C2	421	3.087	0.218	1.030
39ZIF	C3	422	3.234	0.167	0.706
39ZIF	N	423	3.247	0.310	0.909
39ZIF	N	424	3.092	0.152	0.909
39ZIF	H2	425	3.202	0.383	1.110
39ZIF	H2	426	3.019	0.196	1.111
39ZIF	H3	427	3.158	0.105	0.660
39ZIF	H3	428	3.327	0.110	0.715
39ZIF	H3	429	3.252	0.255	0.643
40ZIF	C1	430	3.191	3.188	2.557
40ZIF	C2	431	3.181	3.084	2.369
40ZIF	C2	432	3.087	3.180	2.369
40ZIF	C3	433	3.234	3.231	2.693
40ZIF	N	434	3.247	3.089	2.490
40ZIF	N	435	3.092	3.246	2.489
40ZIF	H2	436	3.202	3.015	2.288
40ZIF	H2	437	3.019	3.202	2.287
40ZIF	H3	438	3.158	3.293	2.739

40ZIF	H3	439	3.327	3.288	2.684
40ZIF	H3	440	3.252	3.144	2.755
41ZIF	C1	441	1.059	1.708	2.756
41ZIF	C2	442	1.164	1.520	2.766
41ZIF	C2	443	1.068	1.519	2.860
41ZIF	C3	444	1.017	1.843	2.713
41ZIF	N	445	1.159	1.640	2.700
41ZIF	N	446	1.002	1.640	2.855
41ZIF	H2	447	1.233	1.438	2.745
41ZIF	H2	448	1.046	1.437	2.928
41ZIF	H3	449	0.954	1.889	2.789
41ZIF	H3	450	0.960	1.834	2.620
41ZIF	H3	451	1.104	1.906	2.695
42ZIF	C1	452	0.640	-0.009	2.756
42ZIF	C2	453	0.535	0.180	2.766
42ZIF	C2	454	0.631	0.180	2.860
42ZIF	C3	455	0.682	-0.144	2.713
42ZIF	N	456	0.540	0.059	2.700
42ZIF	N	457	0.697	0.060	2.855
42ZIF	H2	458	0.467	0.261	2.745
42ZIF	H2	459	0.653	0.262	2.928
42ZIF	H3	460	0.745	-0.190	2.789
42ZIF	H3	461	0.739	-0.135	2.620
42ZIF	H3	462	0.595	-0.206	2.695
43ZIF	C1	463	1.059	-0.009	2.341
43ZIF	C2	464	1.164	0.180	2.332
43ZIF	C2	465	1.068	0.180	2.237
43ZIF	C3	466	1.017	-0.144	2.385
43ZIF	N	467	1.159	0.059	2.397
43ZIF	N	468	1.002	0.060	2.242
43ZIF	H2	469	1.233	0.261	2.352
43ZIF	H2	470	1.046	0.262	2.170
43ZIF	H3	471	0.954	-0.190	2.308
43ZIF	H3	472	0.960	-0.135	2.477

43ZIF	H3	473	1.104	-0.206	2.402
44ZIF	C1	474	0.640	1.708	2.341
44ZIF	C2	475	0.535	1.520	2.332
44ZIF	C2	476	0.631	1.519	2.237
44ZIF	C3	477	0.682	1.843	2.385
44ZIF	N	478	0.540	1.640	2.397
44ZIF	N	479	0.697	1.640	2.242
44ZIF	H2	480	0.467	1.438	2.352
44ZIF	H2	481	0.653	1.437	2.170
44ZIF	H3	482	0.745	1.889	2.308
44ZIF	H3	483	0.739	1.834	2.477
44ZIF	H3	484	0.595	1.906	2.402
45ZIF	C1	485	1.057	1.059	3.407
45ZIF	C2	486	1.067	1.164	3.219
45ZIF	C2	487	1.161	1.068	3.218
45ZIF	C3	488	1.013	1.017	3.542
45ZIF	N	489	1.001	1.159	3.339
45ZIF	N	490	1.156	1.002	3.339
45ZIF	H2	491	1.046	1.233	3.138
45ZIF	H2	492	1.229	1.046	3.136
45ZIF	H3	493	1.090	0.954	3.588
45ZIF	H3	494	0.921	0.960	3.533
45ZIF	H3	495	0.996	1.104	3.605
46ZIF	C1	496	1.057	0.640	1.690
46ZIF	C2	497	1.067	0.535	1.879
46ZIF	C2	498	1.161	0.631	1.879
46ZIF	C3	499	1.013	0.682	1.555
46ZIF	N	500	1.001	0.540	1.758
46ZIF	N	501	1.156	0.697	1.759
46ZIF	H2	502	1.046	0.467	1.960
46ZIF	H2	503	1.229	0.653	1.961
46ZIF	H3	504	1.090	0.745	1.509
46ZIF	H3	505	0.921	0.739	1.564
46ZIF	H3	506	0.996	0.595	1.493

47ZIF	C1	507	0.642	1.059	1.690
47ZIF	C2	508	0.632	1.164	1.879
47ZIF	C2	509	0.538	1.068	1.879
47ZIF	C3	510	0.686	1.017	1.555
47ZIF	N	511	0.698	1.159	1.758
47ZIF	N	512	0.543	1.002	1.759
47ZIF	H2	513	0.653	1.233	1.960
47ZIF	H2	514	0.470	1.046	1.961
47ZIF	H3	515	0.609	0.954	1.509
47ZIF	H3	516	0.778	0.960	1.564
47ZIF	H3	517	0.703	1.104	1.493
48ZIF	C1	518	0.642	0.640	3.407
48ZIF	C2	519	0.632	0.535	3.219
48ZIF	C2	520	0.538	0.631	3.218
48ZIF	C3	521	0.686	0.682	3.542
48ZIF	N	522	0.698	0.540	3.339
48ZIF	N	523	0.543	0.697	3.339
48ZIF	H2	524	0.653	0.467	3.138
48ZIF	H2	525	0.470	0.653	3.136
48ZIF	H3	526	0.609	0.745	3.588
48ZIF	H3	527	0.778	0.739	3.533
48ZIF	H3	528	0.703	0.595	3.605
49ZIF	C1	529	0.858	1.907	0.210
49ZIF	C2	530	0.670	1.916	0.314
49ZIF	C2	531	0.670	2.010	0.218
49ZIF	C3	532	0.993	1.863	0.167
49ZIF	N	533	0.790	1.850	0.310
49ZIF	N	534	0.790	2.006	0.152
49ZIF	H2	535	0.589	1.895	0.383
49ZIF	H2	536	0.588	2.078	0.196
49ZIF	H3	537	1.040	1.939	0.105
49ZIF	H3	538	0.984	1.771	0.110
49ZIF	H3	539	1.056	1.845	0.255
50ZIF	C1	540	1.708	2.756	1.059

50ZIF	C2	541	1.520	2.766	1.164
50ZIF	C2	542	1.519	2.860	1.068
50ZIF	C3	543	1.843	2.713	1.017
50ZIF	N	544	1.640	2.700	1.159
50ZIF	N	545	1.640	2.855	1.002
50ZIF	H2	546	1.438	2.745	1.233
50ZIF	H2	547	1.437	2.928	1.046
50ZIF	H3	548	1.889	2.789	0.954
50ZIF	H3	549	1.834	2.620	0.960
50ZIF	H3	550	1.906	2.695	1.104
51ZIF	C1	551	2.540	1.907	3.188
51ZIF	C2	552	2.728	1.916	3.084
51ZIF	C2	553	2.729	2.010	3.180
51ZIF	C3	554	2.405	1.863	3.231
51ZIF	N	555	2.608	1.850	3.089
51ZIF	N	556	2.608	2.006	3.246
51ZIF	H2	557	2.809	1.895	3.015
51ZIF	H2	558	2.810	2.078	3.202
51ZIF	H3	559	2.359	1.939	3.293
51ZIF	H3	560	2.414	1.771	3.288
51ZIF	H3	561	2.342	1.845	3.144
52ZIF	C1	562	2.540	1.492	0.210
52ZIF	C2	563	2.728	1.482	0.314
52ZIF	C2	564	2.729	1.388	0.218
52ZIF	C3	565	2.405	1.535	0.167
52ZIF	N	566	2.608	1.548	0.310
52ZIF	N	567	2.608	1.393	0.152
52ZIF	H2	568	2.809	1.503	0.383
52ZIF	H2	569	2.810	1.320	0.196
52ZIF	H3	570	2.359	1.459	0.105
52ZIF	H3	571	2.414	1.628	0.110
52ZIF	H3	572	2.342	1.553	0.255
53ZIF	C1	573	0.858	1.492	3.188
53ZIF	C2	574	0.670	1.482	3.084

53ZIF	C2	575	0.670	1.388	3.180
53ZIF	C3	576	0.993	1.535	3.231
53ZIF	N	577	0.790	1.548	3.089
53ZIF	N	578	0.790	1.393	3.246
53ZIF	H2	579	0.589	1.503	3.015
53ZIF	H2	580	0.588	1.320	3.202
53ZIF	H3	581	1.040	1.459	3.293
53ZIF	H3	582	0.984	1.628	3.288
53ZIF	H3	583	1.056	1.553	3.144
54ZIF	C1	584	-0.009	2.756	0.640
54ZIF	C2	585	0.180	2.766	0.535
54ZIF	C2	586	0.180	2.860	0.631
54ZIF	C3	587	-0.144	2.713	0.682
54ZIF	N	588	0.059	2.700	0.540
54ZIF	N	589	0.060	2.855	0.697
54ZIF	H2	590	0.261	2.745	0.467
54ZIF	H2	591	0.262	2.928	0.653
54ZIF	H3	592	-0.190	2.789	0.745
54ZIF	H3	593	-0.135	2.620	0.739
54ZIF	H3	594	-0.206	2.695	0.595
55ZIF	C1	595	-0.009	2.341	1.059
55ZIF	C2	596	0.180	2.332	1.164
55ZIF	C2	597	0.180	2.237	1.068
55ZIF	C3	598	-0.144	2.385	1.017
55ZIF	N	599	0.059	2.397	1.159
55ZIF	N	600	0.060	2.242	1.002
55ZIF	H2	601	0.261	2.352	1.233
55ZIF	H2	602	0.262	2.170	1.046
55ZIF	H3	603	-0.190	2.308	0.954
55ZIF	H3	604	-0.135	2.477	0.960
55ZIF	H3	605	-0.206	2.402	1.104
56ZIF	C1	606	1.708	2.341	0.640
56ZIF	C2	607	1.520	2.332	0.535
56ZIF	C2	608	1.519	2.237	0.631

56ZIF	C3	609	1.843	2.385	0.682
56ZIF	N	610	1.640	2.397	0.540
56ZIF	N	611	1.640	2.242	0.697
56ZIF	H2	612	1.438	2.352	0.467
56ZIF	H2	613	1.437	2.170	0.653
56ZIF	H3	614	1.889	2.308	0.745
56ZIF	H3	615	1.834	2.477	0.739
56ZIF	H3	616	1.906	2.402	0.595
57ZIF	C1	617	0.210	2.557	0.207
57ZIF	C2	618	0.314	2.369	0.217
57ZIF	C2	619	0.218	2.369	0.311
57ZIF	C3	620	0.167	2.693	0.164
57ZIF	N	621	0.310	2.490	0.151
57ZIF	N	622	0.152	2.489	0.306
57ZIF	H2	623	0.383	2.288	0.196
57ZIF	H2	624	0.196	2.287	0.379
57ZIF	H3	625	0.105	2.739	0.240
57ZIF	H3	626	0.110	2.684	0.072
57ZIF	H3	627	0.255	2.755	0.146
58ZIF	C1	628	0.207	1.909	0.858
58ZIF	C2	629	0.217	2.013	0.670
58ZIF	C2	630	0.311	1.917	0.670
58ZIF	C3	631	0.164	1.866	0.993
58ZIF	N	632	0.151	2.009	0.790
58ZIF	N	633	0.306	1.852	0.790
58ZIF	H2	634	0.196	2.082	0.589
58ZIF	H2	635	0.379	1.895	0.588
58ZIF	H3	636	0.240	1.804	1.040
58ZIF	H3	637	0.072	1.809	0.984
58ZIF	H3	638	0.146	1.954	1.056
59ZIF	C1	639	3.188	0.841	0.207
59ZIF	C2	640	3.084	1.029	0.217
59ZIF	C2	641	3.180	1.030	0.311
59ZIF	C3	642	3.231	0.706	0.164

59ZIF	N	643	3.089	0.909	0.151
59ZIF	N	644	3.246	0.909	0.306
59ZIF	H2	645	3.015	1.110	0.196
59ZIF	H2	646	3.202	1.111	0.379
59ZIF	H3	647	3.293	0.660	0.240
59ZIF	H3	648	3.288	0.715	0.072
59ZIF	H3	649	3.144	0.643	0.146
60ZIF	C1	650	0.210	0.841	3.191
60ZIF	C2	651	0.314	1.029	3.181
60ZIF	C2	652	0.218	1.030	3.087
60ZIF	C3	653	0.167	0.706	3.234
60ZIF	N	654	0.310	0.909	3.247
60ZIF	N	655	0.152	0.909	3.092
60ZIF	H2	656	0.383	1.110	3.202
60ZIF	H2	657	0.196	1.111	3.019
60ZIF	H3	658	0.105	0.660	3.158
60ZIF	H3	659	0.110	0.715	3.327
60ZIF	H3	660	0.255	0.643	3.252
61ZIF	C1	661	3.188	2.557	3.191
61ZIF	C2	662	3.084	2.369	3.181
61ZIF	C2	663	3.180	2.369	3.087
61ZIF	C3	664	3.231	2.693	3.234
61ZIF	N	665	3.089	2.490	3.247
61ZIF	N	666	3.246	2.489	3.092
61ZIF	H2	667	3.015	2.288	3.202
61ZIF	H2	668	3.202	2.287	3.019
61ZIF	H3	669	3.293	2.739	3.158
61ZIF	H3	670	3.288	2.684	3.327
61ZIF	H3	671	3.144	2.755	3.252
62ZIF	C1	672	0.207	1.489	2.540
62ZIF	C2	673	0.217	1.385	2.728
62ZIF	C2	674	0.311	1.481	2.729
62ZIF	C3	675	0.164	1.532	2.405
62ZIF	N	676	0.151	1.390	2.608

62ZIF	N	677	0.306	1.547	2.608
62ZIF	H2	678	0.196	1.316	2.809
62ZIF	H2	679	0.379	1.503	2.810
62ZIF	H3	680	0.240	1.594	2.359
62ZIF	H3	681	0.072	1.589	2.414
62ZIF	H3	682	0.146	1.445	2.342
63ZIF	C1	683	3.191	1.909	2.540
63ZIF	C2	684	3.181	2.013	2.728
63ZIF	C2	685	3.087	1.917	2.729
63ZIF	C3	686	3.234	1.866	2.405
63ZIF	N	687	3.247	2.009	2.608
63ZIF	N	688	3.092	1.852	2.608
63ZIF	H2	689	3.202	2.082	2.809
63ZIF	H2	690	3.019	1.895	2.810
63ZIF	H3	691	3.158	1.804	2.359
63ZIF	H3	692	3.327	1.809	2.414
63ZIF	H3	693	3.252	1.954	2.342
64ZIF	C1	694	3.191	1.489	0.858
64ZIF	C2	695	3.181	1.385	0.670
64ZIF	C2	696	3.087	1.481	0.670
64ZIF	C3	697	3.234	1.532	0.993
64ZIF	N	698	3.247	1.390	0.790
64ZIF	N	699	3.092	1.547	0.790
64ZIF	H2	700	3.202	1.316	0.589
64ZIF	H2	701	3.019	1.503	0.588
64ZIF	H3	702	3.158	1.594	1.040
64ZIF	H3	703	3.327	1.589	0.984
64ZIF	H3	704	3.252	1.445	1.056
65ZIF	C1	705	1.059	3.407	1.057
65ZIF	C2	706	1.164	3.219	1.067
65ZIF	C2	707	1.068	3.218	1.161
65ZIF	C3	708	1.017	3.542	1.013
65ZIF	N	709	1.159	3.339	1.001
65ZIF	N	710	1.002	3.339	1.156

65ZIF	H2	711	1.233	3.138	1.046
65ZIF	H2	712	1.046	3.136	1.229
65ZIF	H3	713	0.954	3.588	1.090
65ZIF	H3	714	0.960	3.533	0.921
65ZIF	H3	715	1.104	3.605	0.996
66ZIF	C1	716	0.640	1.690	1.057
66ZIF	C2	717	0.535	1.879	1.067
66ZIF	C2	718	0.631	1.879	1.161
66ZIF	C3	719	0.682	1.555	1.013
66ZIF	N	720	0.540	1.758	1.001
66ZIF	N	721	0.697	1.759	1.156
66ZIF	H2	722	0.467	1.960	1.046
66ZIF	H2	723	0.653	1.961	1.229
66ZIF	H3	724	0.745	1.509	1.090
66ZIF	H3	725	0.739	1.564	0.921
66ZIF	H3	726	0.595	1.493	0.996
67ZIF	C1	727	1.059	1.690	0.642
67ZIF	C2	728	1.164	1.879	0.632
67ZIF	C2	729	1.068	1.879	0.538
67ZIF	C3	730	1.017	1.555	0.686
67ZIF	N	731	1.159	1.758	0.698
67ZIF	N	732	1.002	1.759	0.543
67ZIF	H2	733	1.233	1.960	0.653
67ZIF	H2	734	1.046	1.961	0.470
67ZIF	H3	735	0.954	1.509	0.609
67ZIF	H3	736	0.960	1.564	0.778
67ZIF	H3	737	1.104	1.493	0.703
68ZIF	C1	738	0.640	3.407	0.642
68ZIF	C2	739	0.535	3.219	0.632
68ZIF	C2	740	0.631	3.218	0.538
68ZIF	C3	741	0.682	3.542	0.686
68ZIF	N	742	0.540	3.339	0.698
68ZIF	N	743	0.697	3.339	0.543
68ZIF	H2	744	0.467	3.138	0.653

68ZIF	H2	745	0.653	3.136	0.470
68ZIF	H3	746	0.745	3.588	0.609
68ZIF	H3	747	0.739	3.533	0.778
68ZIF	H3	748	0.595	3.605	0.703
69ZIF	C1	749	1.057	2.758	1.708
69ZIF	C2	750	1.067	2.863	1.520
69ZIF	C2	751	1.161	2.767	1.519
69ZIF	C3	752	1.013	2.716	1.843
69ZIF	N	753	1.001	2.858	1.640
69ZIF	N	754	1.156	2.701	1.640
69ZIF	H2	755	1.046	2.932	1.438
69ZIF	H2	756	1.229	2.745	1.437
69ZIF	H3	757	1.090	2.653	1.889
69ZIF	H3	758	0.921	2.659	1.834
69ZIF	H3	759	0.996	2.803	1.906
70ZIF	C1	760	1.057	2.339	-0.009
70ZIF	C2	761	1.067	2.234	0.180
70ZIF	C2	762	1.161	2.330	0.180
70ZIF	C3	763	1.013	2.382	-0.144
70ZIF	N	764	1.001	2.239	0.059
70ZIF	N	765	1.156	2.396	0.060
70ZIF	H2	766	1.046	2.166	0.261
70ZIF	H2	767	1.229	2.352	0.262
70ZIF	H3	768	1.090	2.444	-0.190
70ZIF	H3	769	0.921	2.438	-0.135
70ZIF	H3	770	0.996	2.294	-0.206
71ZIF	C1	771	0.642	2.758	-0.009
71ZIF	C2	772	0.632	2.863	0.180
71ZIF	C2	773	0.538	2.767	0.180
71ZIF	C3	774	0.686	2.716	-0.144
71ZIF	N	775	0.698	2.858	0.059
71ZIF	N	776	0.543	2.701	0.060
71ZIF	H2	777	0.653	2.932	0.261
71ZIF	H2	778	0.470	2.745	0.262

71ZIF	H3	779	0.609	2.653	-0.190
71ZIF	H3	780	0.778	2.659	-0.135
71ZIF	H3	781	0.703	2.803	-0.206
72ZIF	C1	782	0.642	2.339	1.708
72ZIF	C2	783	0.632	2.234	1.520
72ZIF	C2	784	0.538	2.330	1.519
72ZIF	C3	785	0.686	2.382	1.843
72ZIF	N	786	0.698	2.239	1.640
72ZIF	N	787	0.543	2.396	1.640
72ZIF	H2	788	0.653	2.166	1.438
72ZIF	H2	789	0.470	2.352	1.437
72ZIF	H3	790	0.609	2.444	1.889
72ZIF	H3	791	0.778	2.438	1.834
72ZIF	H3	792	0.703	2.294	1.906
73ZIF	C1	793	0.858	1.907	1.909
73ZIF	C2	794	0.670	1.916	2.013
73ZIF	C2	795	0.670	2.010	1.917
73ZIF	C3	796	0.993	1.863	1.866
73ZIF	N	797	0.790	1.850	2.009
73ZIF	N	798	0.790	2.006	1.852
73ZIF	H2	799	0.589	1.895	2.082
73ZIF	H2	800	0.588	2.078	1.895
73ZIF	H3	801	1.040	1.939	1.804
73ZIF	H3	802	0.984	1.771	1.809
73ZIF	H3	803	1.056	1.845	1.954
74ZIF	C1	804	1.708	2.756	2.758
74ZIF	C2	805	1.520	2.766	2.863
74ZIF	C2	806	1.519	2.860	2.767
74ZIF	C3	807	1.843	2.713	2.716
74ZIF	N	808	1.640	2.700	2.858
74ZIF	N	809	1.640	2.855	2.701
74ZIF	H2	810	1.438	2.745	2.932
74ZIF	H2	811	1.437	2.928	2.745
74ZIF	H3	812	1.889	2.789	2.653

74ZIF	H3	813	1.834	2.620	2.659
74ZIF	H3	814	1.906	2.695	2.803
75ZIF	C1	815	2.540	1.907	1.489
75ZIF	C2	816	2.728	1.916	1.385
75ZIF	C2	817	2.729	2.010	1.481
75ZIF	C3	818	2.405	1.863	1.532
75ZIF	N	819	2.608	1.850	1.390
75ZIF	N	820	2.608	2.006	1.547
75ZIF	H2	821	2.809	1.895	1.316
75ZIF	H2	822	2.810	2.078	1.503
75ZIF	H3	823	2.359	1.939	1.594
75ZIF	H3	824	2.414	1.771	1.589
75ZIF	H3	825	2.342	1.845	1.445
76ZIF	C1	826	2.540	1.492	1.909
76ZIF	C2	827	2.728	1.482	2.013
76ZIF	C2	828	2.729	1.388	1.917
76ZIF	C3	829	2.405	1.535	1.866
76ZIF	N	830	2.608	1.548	2.009
76ZIF	N	831	2.608	1.393	1.852
76ZIF	H2	832	2.809	1.503	2.082
76ZIF	H2	833	2.810	1.320	1.895
76ZIF	H3	834	2.359	1.459	1.804
76ZIF	H3	835	2.414	1.628	1.809
76ZIF	H3	836	2.342	1.553	1.954
77ZIF	C1	837	0.858	1.492	1.489
77ZIF	C2	838	0.670	1.482	1.385
77ZIF	C2	839	0.670	1.388	1.481
77ZIF	C3	840	0.993	1.535	1.532
77ZIF	N	841	0.790	1.548	1.390
77ZIF	N	842	0.790	1.393	1.547
77ZIF	H2	843	0.589	1.503	1.316
77ZIF	H2	844	0.588	1.320	1.503
77ZIF	H3	845	1.040	1.459	1.594
77ZIF	H3	846	0.984	1.628	1.589

77ZIF	H3	847	1.056	1.553	1.445
78ZIF	C1	848	-0.009	2.756	2.339
78ZIF	C2	849	0.180	2.766	2.234
78ZIF	C2	850	0.180	2.860	2.330
78ZIF	C3	851	-0.144	2.713	2.382
78ZIF	N	852	0.059	2.700	2.239
78ZIF	N	853	0.060	2.855	2.396
78ZIF	H2	854	0.261	2.745	2.166
78ZIF	H2	855	0.262	2.928	2.352
78ZIF	H3	856	-0.190	2.789	2.444
78ZIF	H3	857	-0.135	2.620	2.438
78ZIF	H3	858	-0.206	2.695	2.294
79ZIF	C1	859	-0.009	2.341	2.758
79ZIF	C2	860	0.180	2.332	2.863
79ZIF	C2	861	0.180	2.237	2.767
79ZIF	C3	862	-0.144	2.385	2.716
79ZIF	N	863	0.059	2.397	2.858
79ZIF	N	864	0.060	2.242	2.701
79ZIF	H2	865	0.261	2.352	2.932
79ZIF	H2	866	0.262	2.170	2.745
79ZIF	H3	867	-0.190	2.308	2.653
79ZIF	H3	868	-0.135	2.477	2.659
79ZIF	H3	869	-0.206	2.402	2.803
80ZIF	C1	870	1.708	2.341	2.339
80ZIF	C2	871	1.520	2.332	2.234
80ZIF	C2	872	1.519	2.237	2.330
80ZIF	C3	873	1.843	2.385	2.382
80ZIF	N	874	1.640	2.397	2.239
80ZIF	N	875	1.640	2.242	2.396
80ZIF	H2	876	1.438	2.352	2.166
80ZIF	H2	877	1.437	2.170	2.352
80ZIF	H3	878	1.889	2.308	2.444
80ZIF	H3	879	1.834	2.477	2.438
80ZIF	H3	880	1.906	2.402	2.294

81ZIF	C1	881	0.210	2.557	1.907
81ZIF	C2	882	0.314	2.369	1.916
81ZIF	C2	883	0.218	2.369	2.010
81ZIF	C3	884	0.167	2.693	1.863
81ZIF	N	885	0.310	2.490	1.850
81ZIF	N	886	0.152	2.489	2.006
81ZIF	H2	887	0.383	2.288	1.895
81ZIF	H2	888	0.196	2.287	2.078
81ZIF	H3	889	0.105	2.739	1.939
81ZIF	H3	890	0.110	2.684	1.771
81ZIF	H3	891	0.255	2.755	1.845
82ZIF	C1	892	0.207	1.909	2.557
82ZIF	C2	893	0.217	2.013	2.369
82ZIF	C2	894	0.311	1.917	2.369
82ZIF	C3	895	0.164	1.866	2.693
82ZIF	N	896	0.151	2.009	2.490
82ZIF	N	897	0.306	1.852	2.489
82ZIF	H2	898	0.196	2.082	2.288
82ZIF	H2	899	0.379	1.895	2.287
82ZIF	H3	900	0.240	1.804	2.739
82ZIF	H3	901	0.072	1.809	2.684
82ZIF	H3	902	0.146	1.954	2.755
83ZIF	C1	903	3.188	0.841	1.907
83ZIF	C2	904	3.084	1.029	1.916
83ZIF	C2	905	3.180	1.030	2.010
83ZIF	C3	906	3.231	0.706	1.863
83ZIF	N	907	3.089	0.909	1.850
83ZIF	N	908	3.246	0.909	2.006
83ZIF	H2	909	3.015	1.110	1.895
83ZIF	H2	910	3.202	1.111	2.078
83ZIF	H3	911	3.293	0.660	1.939
83ZIF	H3	912	3.288	0.715	1.771
83ZIF	H3	913	3.144	0.643	1.845
84ZIF	C1	914	0.210	0.841	1.492

84ZIF	C2	915	0.314	1.029	1.482
84ZIF	C2	916	0.218	1.030	1.388
84ZIF	C3	917	0.167	0.706	1.535
84ZIF	N	918	0.310	0.909	1.548
84ZIF	N	919	0.152	0.909	1.393
84ZIF	H2	920	0.383	1.110	1.503
84ZIF	H2	921	0.196	1.111	1.320
84ZIF	H3	922	0.105	0.660	1.459
84ZIF	H3	923	0.110	0.715	1.628
84ZIF	H3	924	0.255	0.643	1.553
85ZIF	C1	925	3.188	2.557	1.492
85ZIF	C2	926	3.084	2.369	1.482
85ZIF	C2	927	3.180	2.369	1.388
85ZIF	C3	928	3.231	2.693	1.535
85ZIF	N	929	3.089	2.490	1.548
85ZIF	N	930	3.246	2.489	1.393
85ZIF	H2	931	3.015	2.288	1.503
85ZIF	H2	932	3.202	2.287	1.320
85ZIF	H3	933	3.293	2.739	1.459
85ZIF	H3	934	3.288	2.684	1.628
85ZIF	H3	935	3.144	2.755	1.553
86ZIF	C1	936	0.207	1.489	0.841
86ZIF	C2	937	0.217	1.385	1.029
86ZIF	C2	938	0.311	1.481	1.030
86ZIF	C3	939	0.164	1.532	0.706
86ZIF	N	940	0.151	1.390	0.909
86ZIF	N	941	0.306	1.547	0.909
86ZIF	H2	942	0.196	1.316	1.110
86ZIF	H2	943	0.379	1.503	1.111
86ZIF	H3	944	0.240	1.594	0.660
86ZIF	H3	945	0.072	1.589	0.715
86ZIF	H3	946	0.146	1.445	0.643
87ZIF	C1	947	3.191	1.909	0.841
87ZIF	C2	948	3.181	2.013	1.029

87ZIF	C2	949	3.087	1.917	1.030
87ZIF	C3	950	3.234	1.866	0.706
87ZIF	N	951	3.247	2.009	0.909
87ZIF	N	952	3.092	1.852	0.909
87ZIF	H2	953	3.202	2.082	1.110
87ZIF	H2	954	3.019	1.895	1.111
87ZIF	H3	955	3.158	1.804	0.660
87ZIF	H3	956	3.327	1.809	0.715
87ZIF	H3	957	3.252	1.954	0.643
88ZIF	C1	958	3.191	1.489	2.557
88ZIF	C2	959	3.181	1.385	2.369
88ZIF	C2	960	3.087	1.481	2.369
88ZIF	C3	961	3.234	1.532	2.693
88ZIF	N	962	3.247	1.390	2.490
88ZIF	N	963	3.092	1.547	2.489
88ZIF	H2	964	3.202	1.316	2.288
88ZIF	H2	965	3.019	1.503	2.287
88ZIF	H3	966	3.158	1.594	2.739
88ZIF	H3	967	3.327	1.589	2.684
88ZIF	H3	968	3.252	1.445	2.755
89ZIF	C1	969	1.059	3.407	2.756
89ZIF	C2	970	1.164	3.219	2.766
89ZIF	C2	971	1.068	3.218	2.860
89ZIF	C3	972	1.017	3.542	2.713
89ZIF	N	973	1.159	3.339	2.700
89ZIF	N	974	1.002	3.339	2.855
89ZIF	H2	975	1.233	3.138	2.745
89ZIF	H2	976	1.046	3.136	2.928
89ZIF	H3	977	0.954	3.588	2.789
89ZIF	H3	978	0.960	3.533	2.620
89ZIF	H3	979	1.104	3.605	2.695
90ZIF	C1	980	0.640	1.690	2.756
90ZIF	C2	981	0.535	1.879	2.766
90ZIF	C2	982	0.631	1.879	2.860

90ZIF	C3	983	0.682	1.555	2.713
90ZIF	N	984	0.540	1.758	2.700
90ZIF	N	985	0.697	1.759	2.855
90ZIF	H2	986	0.467	1.960	2.745
90ZIF	H2	987	0.653	1.961	2.928
90ZIF	H3	988	0.745	1.509	2.789
90ZIF	H3	989	0.739	1.564	2.620
90ZIF	H3	990	0.595	1.493	2.695
91ZIF	C1	991	1.059	1.690	2.341
91ZIF	C2	992	1.164	1.879	2.332
91ZIF	C2	993	1.068	1.879	2.237
91ZIF	C3	994	1.017	1.555	2.385
91ZIF	N	995	1.159	1.758	2.397
91ZIF	N	996	1.002	1.759	2.242
91ZIF	H2	997	1.233	1.960	2.352
91ZIF	H2	998	1.046	1.961	2.170
91ZIF	H3	999	0.954	1.509	2.308
91ZIF	H3	1000	0.960	1.564	2.477
91ZIF	H3	1001	1.104	1.493	2.402
92ZIF	C1	1002	0.640	3.407	2.341
92ZIF	C2	1003	0.535	3.219	2.332
92ZIF	C2	1004	0.631	3.218	2.237
92ZIF	C3	1005	0.682	3.542	2.385
92ZIF	N	1006	0.540	3.339	2.397
92ZIF	N	1007	0.697	3.339	2.242
92ZIF	H2	1008	0.467	3.138	2.352
92ZIF	H2	1009	0.653	3.136	2.170
92ZIF	H3	1010	0.745	3.588	2.308
92ZIF	H3	1011	0.739	3.533	2.477
92ZIF	H3	1012	0.595	3.605	2.402
93ZIF	C1	1013	1.057	2.758	3.407
93ZIF	C2	1014	1.067	2.863	3.219
93ZIF	C2	1015	1.161	2.767	3.218
93ZIF	C3	1016	1.013	2.716	3.542

93ZIF	N 1017	1.001	2.858	3.339
93ZIF	N 1018	1.156	2.701	3.339
93ZIF	H2 1019	1.046	2.932	3.138
93ZIF	H2 1020	1.229	2.745	3.136
93ZIF	H3 1021	1.090	2.653	3.588
93ZIF	H3 1022	0.921	2.659	3.533
93ZIF	H3 1023	0.996	2.803	3.605
94ZIF	C1 1024	1.057	2.339	1.690
94ZIF	C2 1025	1.067	2.234	1.879
94ZIF	C2 1026	1.161	2.330	1.879
94ZIF	C3 1027	1.013	2.382	1.555
94ZIF	N 1028	1.001	2.239	1.758
94ZIF	N 1029	1.156	2.396	1.759
94ZIF	H2 1030	1.046	2.166	1.960
94ZIF	H2 1031	1.229	2.352	1.961
94ZIF	H3 1032	1.090	2.444	1.509
94ZIF	H3 1033	0.921	2.438	1.564
94ZIF	H3 1034	0.996	2.294	1.493
95ZIF	C1 1035	0.642	2.758	1.690
95ZIF	C2 1036	0.632	2.863	1.879
95ZIF	C2 1037	0.538	2.767	1.879
95ZIF	C3 1038	0.686	2.716	1.555
95ZIF	N 1039	0.698	2.858	1.758
95ZIF	N 1040	0.543	2.701	1.759
95ZIF	H2 1041	0.653	2.932	1.960
95ZIF	H2 1042	0.470	2.745	1.961
95ZIF	H3 1043	0.609	2.653	1.509
95ZIF	H3 1044	0.778	2.659	1.564
95ZIF	H3 1045	0.703	2.803	1.493
96ZIF	C1 1046	0.642	2.339	3.407
96ZIF	C2 1047	0.632	2.234	3.219
96ZIF	C2 1048	0.538	2.330	3.218
96ZIF	C3 1049	0.686	2.382	3.542
96ZIF	N 1050	0.698	2.239	3.339

96ZIF	N 1051	0.543	2.396	3.339
96ZIF	H2 1052	0.653	2.166	3.138
96ZIF	H2 1053	0.470	2.352	3.136
96ZIF	H3 1054	0.609	2.444	3.588
96ZIF	H3 1055	0.778	2.438	3.533
96ZIF	H3 1056	0.703	2.294	3.605
97ZIF	C1 1057	2.557	0.207	0.210
97ZIF	C2 1058	2.369	0.217	0.314
97ZIF	C2 1059	2.369	0.311	0.218
97ZIF	C3 1060	2.693	0.164	0.167
97ZIF	N 1061	2.490	0.151	0.310
97ZIF	N 1062	2.489	0.306	0.152
97ZIF	H2 1063	2.288	0.196	0.383
97ZIF	H2 1064	2.287	0.379	0.196
97ZIF	H3 1065	2.739	0.240	0.105
97ZIF	H3 1066	2.684	0.072	0.110
97ZIF	H3 1067	2.755	0.146	0.255
98ZIF	C1 1068	3.407	1.057	1.059
98ZIF	C2 1069	3.219	1.067	1.164
98ZIF	C2 1070	3.218	1.161	1.068
98ZIF	C3 1071	3.542	1.013	1.017
98ZIF	N 1072	3.339	1.001	1.159
98ZIF	N 1073	3.339	1.156	1.002
98ZIF	H2 1074	3.138	1.046	1.233
98ZIF	H2 1075	3.136	1.229	1.046
98ZIF	H3 1076	3.588	1.090	0.954
98ZIF	H3 1077	3.533	0.921	0.960
98ZIF	H3 1078	3.605	0.996	1.104
99ZIF	C1 1079	0.841	0.207	3.188
99ZIF	C2 1080	1.029	0.217	3.084
99ZIF	C2 1081	1.030	0.311	3.180
99ZIF	C3 1082	0.706	0.164	3.231
99ZIF	N 1083	0.909	0.151	3.089
99ZIF	N 1084	0.909	0.306	3.246

99ZIF	H2 1085	1.110	0.196	3.015
99ZIF	H2 1086	1.111	0.379	3.202
99ZIF	H3 1087	0.660	0.240	3.293
99ZIF	H3 1088	0.715	0.072	3.288
99ZIF	H3 1089	0.643	0.146	3.144
100ZIF	C1 1090	0.841	3.191	0.210
100ZIF	C2 1091	1.029	3.181	0.314
100ZIF	C2 1092	1.030	3.087	0.218
100ZIF	C3 1093	0.706	3.234	0.167
100ZIF	N 1094	0.909	3.247	0.310
100ZIF	N 1095	0.909	3.092	0.152
100ZIF	H2 1096	1.110	3.202	0.383
100ZIF	H2 1097	1.111	3.019	0.196
100ZIF	H3 1098	0.660	3.158	0.105
100ZIF	H3 1099	0.715	3.327	0.110
100ZIF	H3 1100	0.643	3.252	0.255
101ZIF	C1 1101	2.557	3.191	3.188
101ZIF	C2 1102	2.369	3.181	3.084
101ZIF	C2 1103	2.369	3.087	3.180
101ZIF	C3 1104	2.693	3.234	3.231
101ZIF	N 1105	2.490	3.247	3.089
101ZIF	N 1106	2.489	3.092	3.246
101ZIF	H2 1107	2.288	3.202	3.015
101ZIF	H2 1108	2.287	3.019	3.202
101ZIF	H3 1109	2.739	3.158	3.293
101ZIF	H3 1110	2.684	3.327	3.288
101ZIF	H3 1111	2.755	3.252	3.144
102ZIF	C1 1112	1.690	1.057	0.640
102ZIF	C2 1113	1.879	1.067	0.535
102ZIF	C2 1114	1.879	1.161	0.631
102ZIF	C3 1115	1.555	1.013	0.682
102ZIF	N 1116	1.758	1.001	0.540
102ZIF	N 1117	1.759	1.156	0.697
102ZIF	H2 1118	1.960	1.046	0.467

102ZIF	H2 1119	1.961	1.229	0.653
102ZIF	H3 1120	1.509	1.090	0.745
102ZIF	H3 1121	1.564	0.921	0.739
102ZIF	H3 1122	1.493	0.996	0.595
103ZIF	C1 1123	1.690	0.642	1.059
103ZIF	C2 1124	1.879	0.632	1.164
103ZIF	C2 1125	1.879	0.538	1.068
103ZIF	C3 1126	1.555	0.686	1.017
103ZIF	N 1127	1.758	0.698	1.159
103ZIF	N 1128	1.759	0.543	1.002
103ZIF	H2 1129	1.960	0.653	1.233
103ZIF	H2 1130	1.961	0.470	1.046
103ZIF	H3 1131	1.509	0.609	0.954
103ZIF	H3 1132	1.564	0.778	0.960
103ZIF	H3 1133	1.493	0.703	1.104
104ZIF	C1 1134	3.407	0.642	0.640
104ZIF	C2 1135	3.219	0.632	0.535
104ZIF	C2 1136	3.218	0.538	0.631
104ZIF	C3 1137	3.542	0.686	0.682
104ZIF	N 1138	3.339	0.698	0.540
104ZIF	N 1139	3.339	0.543	0.697
104ZIF	H2 1140	3.138	0.653	0.467
104ZIF	H2 1141	3.136	0.470	0.653
104ZIF	H3 1142	3.588	0.609	0.745
104ZIF	H3 1143	3.533	0.778	0.739
104ZIF	H3 1144	3.605	0.703	0.595
105ZIF	C1 1145	1.909	0.858	0.207
105ZIF	C2 1146	2.013	0.670	0.217
105ZIF	C2 1147	1.917	0.670	0.311
105ZIF	C3 1148	1.866	0.993	0.164
105ZIF	N 1149	2.009	0.790	0.151
105ZIF	N 1150	1.852	0.790	0.306
105ZIF	H2 1151	2.082	0.589	0.196
105ZIF	H2 1152	1.895	0.588	0.379

105ZIF	H3 1153	1.804	1.040	0.240
105ZIF	H3 1154	1.809	0.984	0.072
105ZIF	H3 1155	1.954	1.056	0.146
106ZIF	C1 1156	1.907	0.210	0.858
106ZIF	C2 1157	1.916	0.314	0.670
106ZIF	C2 1158	2.010	0.218	0.670
106ZIF	C3 1159	1.863	0.167	0.993
106ZIF	N 1160	1.850	0.310	0.790
106ZIF	N 1161	2.006	0.152	0.790
106ZIF	H2 1162	1.895	0.383	0.589
106ZIF	H2 1163	2.078	0.196	0.588
106ZIF	H3 1164	1.939	0.105	1.040
106ZIF	H3 1165	1.771	0.110	0.984
106ZIF	H3 1166	1.845	0.255	1.056
107ZIF	C1 1167	1.489	2.540	0.207
107ZIF	C2 1168	1.385	2.728	0.217
107ZIF	C2 1169	1.481	2.729	0.311
107ZIF	C3 1170	1.532	2.405	0.164
107ZIF	N 1171	1.390	2.608	0.151
107ZIF	N 1172	1.547	2.608	0.306
107ZIF	H2 1173	1.316	2.809	0.196
107ZIF	H2 1174	1.503	2.810	0.379
107ZIF	H3 1175	1.594	2.359	0.240
107ZIF	H3 1176	1.589	2.414	0.072
107ZIF	H3 1177	1.445	2.342	0.147
108ZIF	C1 1178	1.909	2.540	3.191
108ZIF	C2 1179	2.013	2.728	3.181
108ZIF	C2 1180	1.917	2.729	3.087
108ZIF	C3 1181	1.866	2.405	3.234
108ZIF	N 1182	2.009	2.608	3.247
108ZIF	N 1183	1.852	2.608	3.092
108ZIF	H2 1184	2.082	2.809	3.202
108ZIF	H2 1185	1.895	2.810	3.019
108ZIF	H3 1186	1.804	2.359	3.158

108ZIF	H3 1187	1.809	2.414	3.327
108ZIF	H3 1188	1.954	2.342	3.252
109ZIF	C1 1189	1.489	0.858	3.191
109ZIF	C2 1190	1.385	0.670	3.181
109ZIF	C2 1191	1.481	0.670	3.087
109ZIF	C3 1192	1.532	0.993	3.234
109ZIF	N 1193	1.390	0.790	3.247
109ZIF	N 1194	1.547	0.790	3.092
109ZIF	H2 1195	1.316	0.589	3.202
109ZIF	H2 1196	1.503	0.588	3.019
109ZIF	H3 1197	1.594	1.040	3.158
109ZIF	H3 1198	1.589	0.984	3.327
109ZIF	H3 1199	1.445	1.056	3.252
110ZIF	C1 1200	1.907	3.188	2.540
110ZIF	C2 1201	1.916	3.084	2.728
110ZIF	C2 1202	2.010	3.180	2.729
110ZIF	C3 1203	1.863	3.231	2.405
110ZIF	N 1204	1.850	3.089	2.608
110ZIF	N 1205	2.006	3.246	2.608
110ZIF	H2 1206	1.895	3.015	2.809
110ZIF	H2 1207	2.078	3.202	2.810
110ZIF	H3 1208	1.939	3.293	2.359
110ZIF	H3 1209	1.771	3.288	2.414
110ZIF	H3 1210	1.845	3.144	2.342
111ZIF	C1 1211	1.492	0.210	2.540
111ZIF	C2 1212	1.482	0.314	2.728
111ZIF	C2 1213	1.388	0.218	2.729
111ZIF	C3 1214	1.535	0.167	2.405
111ZIF	N 1215	1.548	0.310	2.608
111ZIF	N 1216	1.393	0.152	2.608
111ZIF	H2 1217	1.503	0.383	2.809
111ZIF	H2 1218	1.320	0.196	2.810
111ZIF	H3 1219	1.459	0.105	2.359
111ZIF	H3 1220	1.628	0.110	2.414

111ZIF	H3	1221	1.553	0.255	2.342
112ZIF	C1	1222	1.492	3.188	0.858
112ZIF	C2	1223	1.482	3.084	0.670
112ZIF	C2	1224	1.388	3.180	0.670
112ZIF	C3	1225	1.535	3.231	0.993
112ZIF	N	1226	1.548	3.089	0.790
112ZIF	N	1227	1.393	3.246	0.790
112ZIF	H2	1228	1.503	3.015	0.589
112ZIF	H2	1229	1.320	3.202	0.588
112ZIF	H3	1230	1.459	3.293	1.040
112ZIF	H3	1231	1.628	3.288	0.984
112ZIF	H3	1232	1.553	3.144	1.056
113ZIF	C1	1233	2.758	1.708	1.057
113ZIF	C2	1234	2.863	1.520	1.067
113ZIF	C2	1235	2.767	1.519	1.161
113ZIF	C3	1236	2.716	1.843	1.013
113ZIF	N	1237	2.858	1.640	1.001
113ZIF	N	1238	2.701	1.640	1.156
113ZIF	H2	1239	2.932	1.438	1.046
113ZIF	H2	1240	2.745	1.437	1.229
113ZIF	H3	1241	2.653	1.889	1.090
113ZIF	H3	1242	2.659	1.834	0.921
113ZIF	H3	1243	2.803	1.906	0.996
114ZIF	C1	1244	2.339	-0.009	1.057
114ZIF	C2	1245	2.234	0.180	1.067
114ZIF	C2	1246	2.330	0.180	1.161
114ZIF	C3	1247	2.382	-0.144	1.013
114ZIF	N	1248	2.239	0.059	1.001
114ZIF	N	1249	2.396	0.060	1.156
114ZIF	H2	1250	2.166	0.261	1.046
114ZIF	H2	1251	2.352	0.262	1.229
114ZIF	H3	1252	2.444	-0.190	1.090
114ZIF	H3	1253	2.438	-0.135	0.921
114ZIF	H3	1254	2.294	-0.206	0.996

115ZIF	C1	1255	2.758	-0.009	0.642
115ZIF	C2	1256	2.863	0.180	0.632
115ZIF	C2	1257	2.767	0.180	0.538
115ZIF	C3	1258	2.716	-0.144	0.686
115ZIF	N	1259	2.858	0.059	0.698
115ZIF	N	1260	2.701	0.060	0.543
115ZIF	H2	1261	2.932	0.261	0.653
115ZIF	H2	1262	2.745	0.262	0.470
115ZIF	H3	1263	2.653	-0.190	0.609
115ZIF	H3	1264	2.659	-0.135	0.778
115ZIF	H3	1265	2.803	-0.206	0.703
116ZIF	C1	1266	2.339	1.708	0.642
116ZIF	C2	1267	2.234	1.520	0.632
116ZIF	C2	1268	2.330	1.519	0.538
116ZIF	C3	1269	2.382	1.843	0.686
116ZIF	N	1270	2.239	1.640	0.698
116ZIF	N	1271	2.396	1.640	0.543
116ZIF	H2	1272	2.166	1.438	0.653
116ZIF	H2	1273	2.352	1.437	0.470
116ZIF	H3	1274	2.444	1.889	0.609
116ZIF	H3	1275	2.438	1.834	0.778
116ZIF	H3	1276	2.294	1.906	0.703
117ZIF	C1	1277	2.756	1.059	1.708
117ZIF	C2	1278	2.766	1.164	1.520
117ZIF	C2	1279	2.860	1.068	1.519
117ZIF	C3	1280	2.713	1.017	1.843
117ZIF	N	1281	2.700	1.159	1.640
117ZIF	N	1282	2.855	1.002	1.640
117ZIF	H2	1283	2.745	1.233	1.438
117ZIF	H2	1284	2.928	1.046	1.437
117ZIF	H3	1285	2.789	0.954	1.889
117ZIF	H3	1286	2.620	0.960	1.834
117ZIF	H3	1287	2.695	1.104	1.906
118ZIF	C1	1288	2.756	0.640	-0.009

118ZIF	C2 1289	2.766	0.535	0.180
118ZIF	C2 1290	2.860	0.631	0.180
118ZIF	C3 1291	2.713	0.682	-0.144
118ZIF	N 1292	2.700	0.540	0.059
118ZIF	N 1293	2.855	0.697	0.060
118ZIF	H2 1294	2.745	0.467	0.261
118ZIF	H2 1295	2.928	0.653	0.262
118ZIF	H3 1296	2.789	0.745	-0.190
118ZIF	H3 1297	2.620	0.739	-0.135
118ZIF	H3 1298	2.695	0.595	-0.206
119ZIF	C1 1299	2.341	1.059	-0.009
119ZIF	C2 1300	2.332	1.164	0.180
119ZIF	C2 1301	2.237	1.068	0.180
119ZIF	C3 1302	2.385	1.017	-0.144
119ZIF	N 1303	2.397	1.159	0.059
119ZIF	N 1304	2.242	1.002	0.060
119ZIF	H2 1305	2.352	1.233	0.261
119ZIF	H2 1306	2.170	1.046	0.262
119ZIF	H3 1307	2.308	0.954	-0.190
119ZIF	H3 1308	2.477	0.960	-0.135
119ZIF	H3 1309	2.402	1.104	-0.206
120ZIF	C1 1310	2.341	0.640	1.708
120ZIF	C2 1311	2.332	0.535	1.520
120ZIF	C2 1312	2.237	0.631	1.519
120ZIF	C3 1313	2.385	0.682	1.843
120ZIF	N 1314	2.397	0.540	1.640
120ZIF	N 1315	2.242	0.697	1.640
120ZIF	H2 1316	2.352	0.467	1.438
120ZIF	H2 1317	2.170	0.653	1.437
120ZIF	H3 1318	2.308	0.745	1.889
120ZIF	H3 1319	2.477	0.739	1.834
120ZIF	H3 1320	2.402	0.595	1.906
121ZIF	C1 1321	2.557	0.207	1.909
121ZIF	C2 1322	2.369	0.217	2.013

121ZIF	C2 1323	2.369	0.311	1.917
121ZIF	C3 1324	2.693	0.164	1.866
121ZIF	N 1325	2.490	0.151	2.009
121ZIF	N 1326	2.489	0.306	1.852
121ZIF	H2 1327	2.288	0.196	2.082
121ZIF	H2 1328	2.287	0.379	1.895
121ZIF	H3 1329	2.739	0.240	1.804
121ZIF	H3 1330	2.684	0.072	1.809
121ZIF	H3 1331	2.755	0.146	1.954
122ZIF	C1 1332	3.407	1.057	2.758
122ZIF	C2 1333	3.219	1.067	2.863
122ZIF	C2 1334	3.218	1.161	2.767
122ZIF	C3 1335	3.542	1.013	2.716
122ZIF	N 1336	3.339	1.001	2.858
122ZIF	N 1337	3.339	1.156	2.701
122ZIF	H2 1338	3.138	1.046	2.932
122ZIF	H2 1339	3.136	1.229	2.745
122ZIF	H3 1340	3.588	1.090	2.653
122ZIF	H3 1341	3.533	0.921	2.659
122ZIF	H3 1342	3.605	0.996	2.803
123ZIF	C1 1343	0.841	0.207	1.489
123ZIF	C2 1344	1.029	0.217	1.385
123ZIF	C2 1345	1.030	0.311	1.481
123ZIF	C3 1346	0.706	0.164	1.532
123ZIF	N 1347	0.909	0.151	1.390
123ZIF	N 1348	0.909	0.306	1.547
123ZIF	H2 1349	1.110	0.196	1.316
123ZIF	H2 1350	1.111	0.379	1.503
123ZIF	H3 1351	0.660	0.240	1.594
123ZIF	H3 1352	0.715	0.072	1.589
123ZIF	H3 1353	0.643	0.146	1.445
124ZIF	C1 1354	0.841	3.191	1.909
124ZIF	C2 1355	1.029	3.181	2.013
124ZIF	C2 1356	1.030	3.087	1.917

124ZIF	C3 1357	0.706	3.234	1.866
124ZIF	N 1358	0.909	3.247	2.009
124ZIF	N 1359	0.909	3.092	1.852
124ZIF	H2 1360	1.110	3.202	2.082
124ZIF	H2 1361	1.111	3.019	1.895
124ZIF	H3 1362	0.660	3.158	1.804
124ZIF	H3 1363	0.715	3.327	1.809
124ZIF	H3 1364	0.643	3.252	1.954
125ZIF	C1 1365	2.557	3.191	1.489
125ZIF	C2 1366	2.369	3.181	1.385
125ZIF	C2 1367	2.369	3.087	1.481
125ZIF	C3 1368	2.693	3.234	1.532
125ZIF	N 1369	2.490	3.247	1.390
125ZIF	N 1370	2.489	3.092	1.547
125ZIF	H2 1371	2.288	3.202	1.316
125ZIF	H2 1372	2.287	3.019	1.503
125ZIF	H3 1373	2.739	3.158	1.594
125ZIF	H3 1374	2.684	3.327	1.589
125ZIF	H3 1375	2.755	3.252	1.445
126ZIF	C1 1376	1.690	1.057	2.339
126ZIF	C2 1377	1.879	1.067	2.234
126ZIF	C2 1378	1.879	1.161	2.330
126ZIF	C3 1379	1.555	1.013	2.382
126ZIF	N 1380	1.758	1.001	2.239
126ZIF	N 1381	1.759	1.156	2.396
126ZIF	H2 1382	1.960	1.046	2.166
126ZIF	H2 1383	1.961	1.229	2.352
126ZIF	H3 1384	1.509	1.090	2.444
126ZIF	H3 1385	1.564	0.921	2.438
126ZIF	H3 1386	1.493	0.996	2.294
127ZIF	C1 1387	1.690	0.642	2.758
127ZIF	C2 1388	1.879	0.632	2.863
127ZIF	C2 1389	1.879	0.538	2.767
127ZIF	C3 1390	1.555	0.686	2.716

127ZIF	N 1391	1.758	0.698	2.858
127ZIF	N 1392	1.759	0.543	2.701
127ZIF	H2 1393	1.960	0.653	2.932
127ZIF	H2 1394	1.961	0.470	2.745
127ZIF	H3 1395	1.509	0.609	2.653
127ZIF	H3 1396	1.564	0.778	2.659
127ZIF	H3 1397	1.493	0.703	2.803
128ZIF	C1 1398	3.407	0.642	2.339
128ZIF	C2 1399	3.219	0.632	2.234
128ZIF	C2 1400	3.218	0.538	2.330
128ZIF	C3 1401	3.542	0.686	2.382
128ZIF	N 1402	3.339	0.698	2.239
128ZIF	N 1403	3.339	0.543	2.396
128ZIF	H2 1404	3.138	0.653	2.166
128ZIF	H2 1405	3.136	0.470	2.352
128ZIF	H3 1406	3.588	0.609	2.444
128ZIF	H3 1407	3.533	0.778	2.438
128ZIF	H3 1408	3.605	0.703	2.294
129ZIF	C1 1409	1.909	0.858	1.907
129ZIF	C2 1410	2.013	0.670	1.916
129ZIF	C2 1411	1.917	0.670	2.010
129ZIF	C3 1412	1.866	0.993	1.863
129ZIF	N 1413	2.009	0.790	1.850
129ZIF	N 1414	1.852	0.790	2.006
129ZIF	H2 1415	2.082	0.589	1.895
129ZIF	H2 1416	1.895	0.588	2.078
129ZIF	H3 1417	1.804	1.040	1.939
129ZIF	H3 1418	1.809	0.984	1.771
129ZIF	H3 1419	1.954	1.056	1.845
130ZIF	C1 1420	1.907	0.210	2.557
130ZIF	C2 1421	1.916	0.314	2.369
130ZIF	C2 1422	2.010	0.218	2.369
130ZIF	C3 1423	1.863	0.167	2.693
130ZIF	N 1424	1.850	0.310	2.490

130ZIF	N 1425	2.006	0.152	2.489
130ZIF	H2 1426	1.895	0.383	2.288
130ZIF	H2 1427	2.078	0.196	2.287
130ZIF	H3 1428	1.939	0.105	2.739
130ZIF	H3 1429	1.771	0.110	2.684
130ZIF	H3 1430	1.845	0.255	2.755
131ZIF	C1 1431	1.489	2.540	1.907
131ZIF	C2 1432	1.385	2.728	1.916
131ZIF	C2 1433	1.481	2.729	2.010
131ZIF	C3 1434	1.532	2.405	1.863
131ZIF	N 1435	1.390	2.608	1.850
131ZIF	N 1436	1.547	2.608	2.006
131ZIF	H2 1437	1.316	2.809	1.895
131ZIF	H2 1438	1.503	2.810	2.078
131ZIF	H3 1439	1.594	2.359	1.939
131ZIF	H3 1440	1.589	2.414	1.771
131ZIF	H3 1441	1.445	2.342	1.845
132ZIF	C1 1442	1.909	2.540	1.492
132ZIF	C2 1443	2.013	2.728	1.482
132ZIF	C2 1444	1.917	2.729	1.388
132ZIF	C3 1445	1.866	2.405	1.535
132ZIF	N 1446	2.009	2.608	1.548
132ZIF	N 1447	1.852	2.608	1.393
132ZIF	H2 1448	2.082	2.809	1.503
132ZIF	H2 1449	1.895	2.810	1.320
132ZIF	H3 1450	1.804	2.359	1.459
132ZIF	H3 1451	1.809	2.414	1.628
132ZIF	H3 1452	1.954	2.342	1.553
133ZIF	C1 1453	1.489	0.858	1.492
133ZIF	C2 1454	1.385	0.670	1.482
133ZIF	C2 1455	1.481	0.670	1.388
133ZIF	C3 1456	1.532	0.993	1.535
133ZIF	N 1457	1.390	0.790	1.548
133ZIF	N 1458	1.547	0.790	1.393

133ZIF	H2 1459	1.316	0.589	1.503
133ZIF	H2 1460	1.503	0.588	1.320
133ZIF	H3 1461	1.594	1.040	1.459
133ZIF	H3 1462	1.589	0.984	1.628
133ZIF	H3 1463	1.445	1.056	1.553
134ZIF	C1 1464	1.907	3.188	0.841
134ZIF	C2 1465	1.916	3.084	1.029
134ZIF	C2 1466	2.010	3.180	1.030
134ZIF	C3 1467	1.863	3.231	0.706
134ZIF	N 1468	1.850	3.089	0.909
134ZIF	N 1469	2.006	3.246	0.909
134ZIF	H2 1470	1.895	3.015	1.110
134ZIF	H2 1471	2.078	3.202	1.111
134ZIF	H3 1472	1.939	3.293	0.660
134ZIF	H3 1473	1.771	3.288	0.715
134ZIF	H3 1474	1.845	3.144	0.643
135ZIF	C1 1475	1.492	0.210	0.841
135ZIF	C2 1476	1.482	0.314	1.029
135ZIF	C2 1477	1.388	0.218	1.030
135ZIF	C3 1478	1.535	0.167	0.706
135ZIF	N 1479	1.548	0.310	0.909
135ZIF	N 1480	1.393	0.152	0.909
135ZIF	H2 1481	1.503	0.383	1.110
135ZIF	H2 1482	1.320	0.196	1.111
135ZIF	H3 1483	1.459	0.105	0.660
135ZIF	H3 1484	1.628	0.110	0.715
135ZIF	H3 1485	1.553	0.255	0.643
136ZIF	C1 1486	1.492	3.188	2.557
136ZIF	C2 1487	1.482	3.084	2.369
136ZIF	C2 1488	1.388	3.180	2.369
136ZIF	C3 1489	1.535	3.231	2.693
136ZIF	N 1490	1.548	3.089	2.490
136ZIF	N 1491	1.393	3.246	2.489
136ZIF	H2 1492	1.503	3.015	2.288

136ZIF	H2 1493	1.320	3.202	2.287
136ZIF	H3 1494	1.459	3.293	2.739
136ZIF	H3 1495	1.628	3.288	2.684
136ZIF	H3 1496	1.553	3.144	2.755
137ZIF	C1 1497	2.758	1.708	2.756
137ZIF	C2 1498	2.863	1.520	2.766
137ZIF	C2 1499	2.767	1.519	2.860
137ZIF	C3 1500	2.716	1.843	2.713
137ZIF	N 1501	2.858	1.640	2.700
137ZIF	N 1502	2.701	1.640	2.855
137ZIF	H2 1503	2.932	1.438	2.745
137ZIF	H2 1504	2.745	1.437	2.928
137ZIF	H3 1505	2.653	1.889	2.789
137ZIF	H3 1506	2.659	1.834	2.620
137ZIF	H3 1507	2.803	1.906	2.695
138ZIF	C1 1508	2.339	-0.009	2.756
138ZIF	C2 1509	2.234	0.180	2.766
138ZIF	C2 1510	2.330	0.180	2.860
138ZIF	C3 1511	2.382	-0.144	2.713
138ZIF	N 1512	2.239	0.059	2.700
138ZIF	N 1513	2.396	0.059	2.855
138ZIF	H2 1514	2.166	0.261	2.745
138ZIF	H2 1515	2.352	0.262	2.928
138ZIF	H3 1516	2.444	-0.190	2.789
138ZIF	H3 1517	2.438	-0.135	2.620
138ZIF	H3 1518	2.294	-0.206	2.695
139ZIF	C1 1519	2.758	-0.009	2.341
139ZIF	C2 1520	2.863	0.180	2.332
139ZIF	C2 1521	2.767	0.180	2.237
139ZIF	C3 1522	2.716	-0.144	2.385
139ZIF	N 1523	2.858	0.059	2.397
139ZIF	N 1524	2.701	0.060	2.242
139ZIF	H2 1525	2.932	0.261	2.352
139ZIF	H2 1526	2.745	0.262	2.170

139ZIF	H3 1527	2.653	-0.190	2.308
139ZIF	H3 1528	2.659	-0.135	2.477
139ZIF	H3 1529	2.803	-0.206	2.402
140ZIF	C1 1530	2.339	1.708	2.341
140ZIF	C2 1531	2.234	1.520	2.332
140ZIF	C2 1532	2.330	1.519	2.237
140ZIF	C3 1533	2.382	1.843	2.385
140ZIF	N 1534	2.239	1.640	2.397
140ZIF	N 1535	2.396	1.640	2.242
140ZIF	H2 1536	2.166	1.438	2.352
140ZIF	H2 1537	2.352	1.437	2.170
140ZIF	H3 1538	2.444	1.889	2.308
140ZIF	H3 1539	2.438	1.834	2.477
140ZIF	H3 1540	2.294	1.906	2.402
141ZIF	C1 1541	2.756	1.059	3.407
141ZIF	C2 1542	2.766	1.164	3.219
141ZIF	C2 1543	2.860	1.068	3.218
141ZIF	C3 1544	2.713	1.017	3.542
141ZIF	N 1545	2.700	1.159	3.339
141ZIF	N 1546	2.855	1.002	3.339
141ZIF	H2 1547	2.745	1.233	3.138
141ZIF	H2 1548	2.928	1.046	3.136
141ZIF	H3 1549	2.789	0.954	3.588
141ZIF	H3 1550	2.620	0.960	3.533
141ZIF	H3 1551	2.695	1.104	3.605
142ZIF	C1 1552	2.756	0.640	1.690
142ZIF	C2 1553	2.766	0.535	1.879
142ZIF	C2 1554	2.860	0.631	1.879
142ZIF	C3 1555	2.713	0.682	1.555
142ZIF	N 1556	2.700	0.540	1.758
142ZIF	N 1557	2.855	0.697	1.759
142ZIF	H2 1558	2.745	0.467	1.960
142ZIF	H2 1559	2.928	0.653	1.961
142ZIF	H3 1560	2.789	0.745	1.509

142ZIF	H3 1561	2.620	0.739	1.564
142ZIF	H3 1562	2.695	0.595	1.493
143ZIF	C1 1563	2.341	1.059	1.690
143ZIF	C2 1564	2.332	1.164	1.879
143ZIF	C2 1565	2.237	1.068	1.879
143ZIF	C3 1566	2.385	1.017	1.555
143ZIF	N 1567	2.397	1.159	1.758
143ZIF	N 1568	2.242	1.002	1.759
143ZIF	H2 1569	2.352	1.233	1.960
143ZIF	H2 1570	2.170	1.046	1.961
143ZIF	H3 1571	2.308	0.954	1.509
143ZIF	H3 1572	2.477	0.960	1.564
143ZIF	H3 1573	2.402	1.104	1.493
144ZIF	C1 1574	2.341	0.640	3.407
144ZIF	C2 1575	2.332	0.535	3.219
144ZIF	C2 1576	2.237	0.631	3.218
144ZIF	C3 1577	2.385	0.682	3.542
144ZIF	N 1578	2.397	0.540	3.339
144ZIF	N 1579	2.242	0.697	3.339
144ZIF	H2 1580	2.352	0.467	3.138
144ZIF	H2 1581	2.170	0.653	3.136
144ZIF	H3 1582	2.308	0.745	3.588
144ZIF	H3 1583	2.477	0.739	3.533
144ZIF	H3 1584	2.402	0.595	3.605
145ZIF	C1 1585	2.557	1.907	0.210
145ZIF	C2 1586	2.369	1.916	0.314
145ZIF	C2 1587	2.369	2.010	0.218
145ZIF	C3 1588	2.693	1.863	0.167
145ZIF	N 1589	2.490	1.850	0.310
145ZIF	N 1590	2.489	2.006	0.152
145ZIF	H2 1591	2.288	1.895	0.383
145ZIF	H2 1592	2.287	2.078	0.196
145ZIF	H3 1593	2.739	1.939	0.105
145ZIF	H3 1594	2.684	1.771	0.110

145ZIF	H3 1595	2.755	1.845	0.255
146ZIF	C1 1596	3.407	2.756	1.059
146ZIF	C2 1597	3.219	2.766	1.164
146ZIF	C2 1598	3.218	2.860	1.068
146ZIF	C3 1599	3.542	2.713	1.017
146ZIF	N 1600	3.339	2.700	1.159
146ZIF	N 1601	3.339	2.855	1.002
146ZIF	H2 1602	3.138	2.745	1.233
146ZIF	H2 1603	3.136	2.928	1.046
146ZIF	H3 1604	3.588	2.789	0.954
146ZIF	H3 1605	3.533	2.620	0.960
146ZIF	H3 1606	3.605	2.695	1.104
147ZIF	C1 1607	0.841	1.907	3.188
147ZIF	C2 1608	1.029	1.916	3.084
147ZIF	C2 1609	1.030	2.010	3.180
147ZIF	C3 1610	0.706	1.863	3.231
147ZIF	N 1611	0.909	1.850	3.089
147ZIF	N 1612	0.909	2.006	3.246
147ZIF	H2 1613	1.110	1.895	3.015
147ZIF	H2 1614	1.111	2.078	3.202
147ZIF	H3 1615	0.660	1.939	3.293
147ZIF	H3 1616	0.715	1.771	3.288
147ZIF	H3 1617	0.643	1.845	3.144
148ZIF	C1 1618	0.841	1.492	0.210
148ZIF	C2 1619	1.029	1.482	0.314
148ZIF	C2 1620	1.030	1.388	0.218
148ZIF	C3 1621	0.706	1.535	0.167
148ZIF	N 1622	0.909	1.548	0.310
148ZIF	N 1623	0.909	1.393	0.152
148ZIF	H2 1624	1.110	1.503	0.383
148ZIF	H2 1625	1.111	1.320	0.196
148ZIF	H3 1626	0.660	1.459	0.105
148ZIF	H3 1627	0.715	1.628	0.110
148ZIF	H3 1628	0.643	1.553	0.255

149ZIF	C1 1629	2.557	1.492	3.188
149ZIF	C2 1630	2.369	1.482	3.084
149ZIF	C2 1631	2.369	1.388	3.180
149ZIF	C3 1632	2.693	1.535	3.231
149ZIF	N 1633	2.490	1.548	3.089
149ZIF	N 1634	2.489	1.393	3.246
149ZIF	H2 1635	2.288	1.503	3.015
149ZIF	H2 1636	2.287	1.320	3.202
149ZIF	H3 1637	2.739	1.459	3.293
149ZIF	H3 1638	2.684	1.628	3.288
149ZIF	H3 1639	2.755	1.553	3.144
150ZIF	C1 1640	1.690	2.756	0.640
150ZIF	C2 1641	1.879	2.766	0.535
150ZIF	C2 1642	1.879	2.860	0.631
150ZIF	C3 1643	1.555	2.713	0.682
150ZIF	N 1644	1.758	2.700	0.540
150ZIF	N 1645	1.759	2.855	0.697
150ZIF	H2 1646	1.960	2.745	0.467
150ZIF	H2 1647	1.961	2.928	0.653
150ZIF	H3 1648	1.509	2.789	0.745
150ZIF	H3 1649	1.564	2.620	0.739
150ZIF	H3 1650	1.493	2.695	0.595
151ZIF	C1 1651	1.690	2.341	1.059
151ZIF	C2 1652	1.879	2.332	1.164
151ZIF	C2 1653	1.879	2.237	1.068
151ZIF	C3 1654	1.555	2.385	1.017
151ZIF	N 1655	1.758	2.397	1.159
151ZIF	N 1656	1.759	2.242	1.002
151ZIF	H2 1657	1.960	2.352	1.233
151ZIF	H2 1658	1.961	2.170	1.046
151ZIF	H3 1659	1.509	2.308	0.954
151ZIF	H3 1660	1.564	2.477	0.960
151ZIF	H3 1661	1.493	2.402	1.104
152ZIF	C1 1662	3.407	2.341	0.640

152ZIF	C2 1663	3.219	2.332	0.535
152ZIF	C2 1664	3.218	2.237	0.631
152ZIF	C3 1665	3.542	2.385	0.682
152ZIF	N 1666	3.339	2.397	0.540
152ZIF	N 1667	3.339	2.242	0.697
152ZIF	H2 1668	3.138	2.352	0.467
152ZIF	H2 1669	3.136	2.170	0.653
152ZIF	H3 1670	3.588	2.308	0.745
152ZIF	H3 1671	3.533	2.477	0.739
152ZIF	H3 1672	3.605	2.402	0.595
153ZIF	C1 1673	1.909	2.557	0.207
153ZIF	C2 1674	2.013	2.369	0.217
153ZIF	C2 1675	1.917	2.369	0.311
153ZIF	C3 1676	1.866	2.693	0.164
153ZIF	N 1677	2.009	2.490	0.151
153ZIF	N 1678	1.852	2.489	0.306
153ZIF	H2 1679	2.082	2.288	0.196
153ZIF	H2 1680	1.895	2.287	0.379
153ZIF	H3 1681	1.804	2.739	0.240
153ZIF	H3 1682	1.809	2.684	0.072
153ZIF	H3 1683	1.954	2.755	0.146
154ZIF	C1 1684	1.907	1.909	0.858
154ZIF	C2 1685	1.916	2.013	0.670
154ZIF	C2 1686	2.010	1.917	0.670
154ZIF	C3 1687	1.863	1.866	0.993
154ZIF	N 1688	1.850	2.009	0.790
154ZIF	N 1689	2.006	1.852	0.790
154ZIF	H2 1690	1.895	2.082	0.589
154ZIF	H2 1691	2.078	1.895	0.588
154ZIF	H3 1692	1.939	1.804	1.040
154ZIF	H3 1693	1.771	1.809	0.984
154ZIF	H3 1694	1.845	1.954	1.056
155ZIF	C1 1695	1.489	0.841	0.207
155ZIF	C2 1696	1.385	1.029	0.217

155ZIF	C2 1697	1.481	1.030	0.311
155ZIF	C3 1698	1.532	0.706	0.164
155ZIF	N 1699	1.390	0.909	0.151
155ZIF	N 1700	1.547	0.909	0.306
155ZIF	H2 1701	1.316	1.110	0.196
155ZIF	H2 1702	1.503	1.111	0.379
155ZIF	H3 1703	1.594	0.660	0.240
155ZIF	H3 1704	1.589	0.715	0.072
155ZIF	H3 1705	1.445	0.643	0.146
156ZIF	C1 1706	1.909	0.841	3.191
156ZIF	C2 1707	2.013	1.029	3.181
156ZIF	C2 1708	1.917	1.030	3.087
156ZIF	C3 1709	1.866	0.706	3.234
156ZIF	N 1710	2.009	0.909	3.247
156ZIF	N 1711	1.852	0.909	3.092
156ZIF	H2 1712	2.082	1.110	3.202
156ZIF	H2 1713	1.895	1.111	3.019
156ZIF	H3 1714	1.804	0.660	3.158
156ZIF	H3 1715	1.809	0.715	3.327
156ZIF	H3 1716	1.954	0.643	3.252
157ZIF	C1 1717	1.489	2.557	3.191
157ZIF	C2 1718	1.385	2.369	3.181
157ZIF	C2 1719	1.481	2.369	3.087
157ZIF	C3 1720	1.532	2.693	3.234
157ZIF	N 1721	1.390	2.490	3.247
157ZIF	N 1722	1.547	2.489	3.092
157ZIF	H2 1723	1.316	2.288	3.202
157ZIF	H2 1724	1.503	2.287	3.019
157ZIF	H3 1725	1.594	2.739	3.158
157ZIF	H3 1726	1.589	2.684	3.327
157ZIF	H3 1727	1.445	2.755	3.252
158ZIF	C1 1728	1.907	1.489	2.540
158ZIF	C2 1729	1.916	1.385	2.728
158ZIF	C2 1730	2.010	1.481	2.729

158ZIF	C3 1731	1.863	1.532	2.405
158ZIF	N 1732	1.850	1.390	2.608
158ZIF	N 1733	2.006	1.547	2.608
158ZIF	H2 1734	1.895	1.316	2.809
158ZIF	H2 1735	2.078	1.503	2.810
158ZIF	H3 1736	1.939	1.594	2.359
158ZIF	H3 1737	1.771	1.589	2.414
158ZIF	H3 1738	1.846	1.445	2.342
159ZIF	C1 1739	1.492	1.909	2.540
159ZIF	C2 1740	1.482	2.013	2.728
159ZIF	C2 1741	1.388	1.917	2.729
159ZIF	C3 1742	1.535	1.866	2.405
159ZIF	N 1743	1.548	2.009	2.608
159ZIF	N 1744	1.393	1.852	2.608
159ZIF	H2 1745	1.503	2.082	2.809
159ZIF	H2 1746	1.320	1.895	2.810
159ZIF	H3 1747	1.459	1.804	2.359
159ZIF	H3 1748	1.628	1.809	2.414
159ZIF	H3 1749	1.553	1.954	2.342
160ZIF	C1 1750	1.492	1.489	0.858
160ZIF	C2 1751	1.482	1.385	0.670
160ZIF	C2 1752	1.388	1.481	0.670
160ZIF	C3 1753	1.535	1.532	0.993
160ZIF	N 1754	1.548	1.390	0.790
160ZIF	N 1755	1.393	1.547	0.790
160ZIF	H2 1756	1.503	1.316	0.589
160ZIF	H2 1757	1.320	1.503	0.588
160ZIF	H3 1758	1.459	1.594	1.040
160ZIF	H3 1759	1.628	1.589	0.984
160ZIF	H3 1760	1.553	1.445	1.056
161ZIF	C1 1761	2.758	3.407	1.057
161ZIF	C2 1762	2.863	3.219	1.067
161ZIF	C2 1763	2.767	3.218	1.161
161ZIF	C3 1764	2.716	3.542	1.013

161ZIF	N 1765	2.858	3.339	1.001
161ZIF	N 1766	2.701	3.339	1.156
161ZIF	H2 1767	2.932	3.138	1.046
161ZIF	H2 1768	2.745	3.136	1.229
161ZIF	H3 1769	2.653	3.588	1.090
161ZIF	H3 1770	2.659	3.533	0.921
161ZIF	H3 1771	2.803	3.605	0.996
162ZIF	C1 1772	2.339	1.690	1.057
162ZIF	C2 1773	2.234	1.879	1.067
162ZIF	C2 1774	2.330	1.879	1.161
162ZIF	C3 1775	2.382	1.555	1.013
162ZIF	N 1776	2.239	1.758	1.001
162ZIF	N 1777	2.396	1.759	1.156
162ZIF	H2 1778	2.166	1.960	1.046
162ZIF	H2 1779	2.352	1.961	1.229
162ZIF	H3 1780	2.444	1.509	1.090
162ZIF	H3 1781	2.438	1.564	0.921
162ZIF	H3 1782	2.294	1.493	0.996
163ZIF	C1 1783	2.758	1.690	0.642
163ZIF	C2 1784	2.863	1.879	0.632
163ZIF	C2 1785	2.767	1.879	0.538
163ZIF	C3 1786	2.716	1.555	0.686
163ZIF	N 1787	2.858	1.758	0.698
163ZIF	N 1788	2.701	1.759	0.543
163ZIF	H2 1789	2.932	1.960	0.653
163ZIF	H2 1790	2.745	1.961	0.470
163ZIF	H3 1791	2.653	1.509	0.609
163ZIF	H3 1792	2.659	1.564	0.778
163ZIF	H3 1793	2.803	1.493	0.703
164ZIF	C1 1794	2.339	3.407	0.642
164ZIF	C2 1795	2.234	3.219	0.632
164ZIF	C2 1796	2.330	3.218	0.538
164ZIF	C3 1797	2.382	3.542	0.686
164ZIF	N 1798	2.239	3.339	0.698

164ZIF	N 1799	2.396	3.339	0.543
164ZIF	H2 1800	2.166	3.138	0.653
164ZIF	H2 1801	2.352	3.136	0.470
164ZIF	H3 1802	2.444	3.588	0.609
164ZIF	H3 1803	2.438	3.533	0.778
164ZIF	H3 1804	2.294	3.605	0.703
165ZIF	C1 1805	2.756	2.758	1.708
165ZIF	C2 1806	2.766	2.863	1.520
165ZIF	C2 1807	2.860	2.767	1.519
165ZIF	C3 1808	2.713	2.716	1.843
165ZIF	N 1809	2.700	2.858	1.640
165ZIF	N 1810	2.855	2.701	1.640
165ZIF	H2 1811	2.745	2.932	1.438
165ZIF	H2 1812	2.928	2.745	1.437
165ZIF	H3 1813	2.789	2.653	1.889
165ZIF	H3 1814	2.620	2.659	1.834
165ZIF	H3 1815	2.695	2.803	1.906
166ZIF	C1 1816	2.756	2.339	-0.009
166ZIF	C2 1817	2.766	2.234	0.180
166ZIF	C2 1818	2.860	2.330	0.180
166ZIF	C3 1819	2.713	2.382	-0.144
166ZIF	N 1820	2.700	2.239	0.059
166ZIF	N 1821	2.855	2.396	0.060
166ZIF	H2 1822	2.745	2.166	0.261
166ZIF	H2 1823	2.928	2.352	0.262
166ZIF	H3 1824	2.789	2.444	-0.190
166ZIF	H3 1825	2.620	2.438	-0.135
166ZIF	H3 1826	2.695	2.294	-0.206
167ZIF	C1 1827	2.341	2.758	-0.009
167ZIF	C2 1828	2.332	2.863	0.180
167ZIF	C2 1829	2.237	2.767	0.180
167ZIF	C3 1830	2.385	2.716	-0.144
167ZIF	N 1831	2.397	2.858	0.059
167ZIF	N 1832	2.242	2.701	0.060

167ZIF	H2 1833	2.352	2.932	0.261
167ZIF	H2 1834	2.170	2.745	0.262
167ZIF	H3 1835	2.308	2.653	-0.190
167ZIF	H3 1836	2.477	2.659	-0.135
167ZIF	H3 1837	2.402	2.803	-0.206
168ZIF	C1 1838	2.341	2.339	1.708
168ZIF	C2 1839	2.332	2.234	1.520
168ZIF	C2 1840	2.237	2.330	1.519
168ZIF	C3 1841	2.385	2.382	1.843
168ZIF	N 1842	2.397	2.239	1.640
168ZIF	N 1843	2.242	2.396	1.640
168ZIF	H2 1844	2.352	2.166	1.438
168ZIF	H2 1845	2.170	2.352	1.437
168ZIF	H3 1846	2.308	2.444	1.889
168ZIF	H3 1847	2.477	2.438	1.834
168ZIF	H3 1848	2.402	2.294	1.906
169ZIF	C1 1849	2.557	1.907	1.909
169ZIF	C2 1850	2.369	1.916	2.013
169ZIF	C2 1851	2.369	2.010	1.917
169ZIF	C3 1852	2.693	1.863	1.866
169ZIF	N 1853	2.490	1.850	2.009
169ZIF	N 1854	2.489	2.006	1.852
169ZIF	H2 1855	2.288	1.895	2.082
169ZIF	H2 1856	2.287	2.078	1.895
169ZIF	H3 1857	2.739	1.939	1.804
169ZIF	H3 1858	2.684	1.771	1.809
169ZIF	H3 1859	2.755	1.845	1.954
170ZIF	C1 1860	3.407	2.756	2.758
170ZIF	C2 1861	3.219	2.766	2.863
170ZIF	C2 1862	3.218	2.860	2.767
170ZIF	C3 1863	3.542	2.713	2.716
170ZIF	N 1864	3.339	2.700	2.858
170ZIF	N 1865	3.339	2.855	2.701
170ZIF	H2 1866	3.138	2.745	2.932

170ZIF	H2 1867	3.136	2.928	2.745
170ZIF	H3 1868	3.588	2.789	2.653
170ZIF	H3 1869	3.533	2.620	2.659
170ZIF	H3 1870	3.605	2.695	2.803
171ZIF	C1 1871	0.841	1.907	1.489
171ZIF	C2 1872	1.029	1.916	1.385
171ZIF	C2 1873	1.030	2.010	1.481
171ZIF	C3 1874	0.706	1.863	1.532
171ZIF	N 1875	0.909	1.850	1.390
171ZIF	N 1876	0.909	2.006	1.547
171ZIF	H2 1877	1.110	1.895	1.316
171ZIF	H2 1878	1.111	2.078	1.503
171ZIF	H3 1879	0.660	1.939	1.594
171ZIF	H3 1880	0.715	1.771	1.589
171ZIF	H3 1881	0.643	1.845	1.445
172ZIF	C1 1882	0.841	1.492	1.909
172ZIF	C2 1883	1.029	1.482	2.013
172ZIF	C2 1884	1.030	1.388	1.917
172ZIF	C3 1885	0.706	1.535	1.866
172ZIF	N 1886	0.909	1.548	2.009
172ZIF	N 1887	0.909	1.393	1.852
172ZIF	H2 1888	1.110	1.503	2.082
172ZIF	H2 1889	1.111	1.320	1.895
172ZIF	H3 1890	0.660	1.459	1.804
172ZIF	H3 1891	0.715	1.628	1.809
172ZIF	H3 1892	0.643	1.553	1.954
173ZIF	C1 1893	2.557	1.492	1.489
173ZIF	C2 1894	2.369	1.482	1.385
173ZIF	C2 1895	2.369	1.388	1.481
173ZIF	C3 1896	2.693	1.535	1.532
173ZIF	N 1897	2.490	1.548	1.390
173ZIF	N 1898	2.489	1.393	1.547
173ZIF	H2 1899	2.288	1.503	1.316
173ZIF	H2 1900	2.287	1.320	1.503

173ZIF	H3 1901	2.739	1.459	1.594
173ZIF	H3 1902	2.684	1.628	1.589
173ZIF	H3 1903	2.755	1.553	1.445
174ZIF	C1 1904	1.690	2.756	2.339
174ZIF	C2 1905	1.879	2.766	2.234
174ZIF	C2 1906	1.879	2.860	2.330
174ZIF	C3 1907	1.555	2.713	2.382
174ZIF	N 1908	1.758	2.700	2.239
174ZIF	N 1909	1.759	2.855	2.396
174ZIF	H2 1910	1.960	2.745	2.166
174ZIF	H2 1911	1.961	2.928	2.352
174ZIF	H3 1912	1.509	2.789	2.444
174ZIF	H3 1913	1.564	2.620	2.438
174ZIF	H3 1914	1.493	2.695	2.294
175ZIF	C1 1915	1.690	2.341	2.758
175ZIF	C2 1916	1.879	2.332	2.863
175ZIF	C2 1917	1.879	2.237	2.767
175ZIF	C3 1918	1.555	2.385	2.716
175ZIF	N 1919	1.758	2.397	2.858
175ZIF	N 1920	1.759	2.242	2.701
175ZIF	H2 1921	1.960	2.352	2.932
175ZIF	H2 1922	1.961	2.170	2.745
175ZIF	H3 1923	1.509	2.308	2.653
175ZIF	H3 1924	1.564	2.477	2.659
175ZIF	H3 1925	1.493	2.402	2.803
176ZIF	C1 1926	3.407	2.341	2.339
176ZIF	C2 1927	3.219	2.332	2.234
176ZIF	C2 1928	3.218	2.237	2.330
176ZIF	C3 1929	3.542	2.385	2.382
176ZIF	N 1930	3.339	2.397	2.239
176ZIF	N 1931	3.339	2.242	2.396
176ZIF	H2 1932	3.138	2.352	2.166
176ZIF	H2 1933	3.136	2.170	2.352
176ZIF	H3 1934	3.588	2.308	2.444

176ZIF	H3 1935	3.533	2.477	2.438
176ZIF	H3 1936	3.605	2.402	2.294
177ZIF	C1 1937	1.909	2.557	1.907
177ZIF	C2 1938	2.013	2.369	1.916
177ZIF	C2 1939	1.917	2.369	2.010
177ZIF	C3 1940	1.866	2.693	1.863
177ZIF	N 1941	2.009	2.490	1.850
177ZIF	N 1942	1.852	2.489	2.006
177ZIF	H2 1943	2.082	2.288	1.895
177ZIF	H2 1944	1.895	2.287	2.078
177ZIF	H3 1945	1.804	2.739	1.939
177ZIF	H3 1946	1.809	2.684	1.771
177ZIF	H3 1947	1.954	2.755	1.845
178ZIF	C1 1948	1.907	1.909	2.557
178ZIF	C2 1949	1.916	2.013	2.369
178ZIF	C2 1950	2.010	1.917	2.369
178ZIF	C3 1951	1.863	1.866	2.693
178ZIF	N 1952	1.850	2.009	2.490
178ZIF	N 1953	2.006	1.852	2.489
178ZIF	H2 1954	1.895	2.082	2.288
178ZIF	H2 1955	2.078	1.895	2.287
178ZIF	H3 1956	1.939	1.804	2.739
178ZIF	H3 1957	1.771	1.809	2.684
178ZIF	H3 1958	1.845	1.954	2.755
179ZIF	C1 1959	1.489	0.841	1.907
179ZIF	C2 1960	1.385	1.029	1.916
179ZIF	C2 1961	1.481	1.030	2.010
179ZIF	C3 1962	1.532	0.706	1.863
179ZIF	N 1963	1.390	0.909	1.850
179ZIF	N 1964	1.547	0.909	2.006
179ZIF	H2 1965	1.316	1.110	1.895
179ZIF	H2 1966	1.503	1.111	2.078
179ZIF	H3 1967	1.594	0.660	1.939
179ZIF	H3 1968	1.589	0.715	1.771

179ZIF	H3 1969	1.445	0.643	1.845
180ZIF	C1 1970	1.909	0.841	1.492
180ZIF	C2 1971	2.013	1.029	1.482
180ZIF	C2 1972	1.917	1.030	1.388
180ZIF	C3 1973	1.866	0.706	1.535
180ZIF	N 1974	2.009	0.909	1.548
180ZIF	N 1975	1.852	0.909	1.393
180ZIF	H2 1976	2.082	1.110	1.503
180ZIF	H2 1977	1.895	1.111	1.320
180ZIF	H3 1978	1.804	0.660	1.459
180ZIF	H3 1979	1.809	0.715	1.628
180ZIF	H3 1980	1.954	0.643	1.553
181ZIF	C1 1981	1.489	2.557	1.492
181ZIF	C2 1982	1.385	2.369	1.482
181ZIF	C2 1983	1.481	2.369	1.388
181ZIF	C3 1984	1.532	2.693	1.535
181ZIF	N 1985	1.390	2.490	1.548
181ZIF	N 1986	1.547	2.489	1.393
181ZIF	H2 1987	1.316	2.288	1.503
181ZIF	H2 1988	1.503	2.287	1.320
181ZIF	H3 1989	1.594	2.739	1.459
181ZIF	H3 1990	1.589	2.684	1.628
181ZIF	H3 1991	1.445	2.755	1.553
182ZIF	C1 1992	1.907	1.489	0.841
182ZIF	C2 1993	1.916	1.385	1.029
182ZIF	C2 1994	2.010	1.481	1.030
182ZIF	C3 1995	1.863	1.532	0.706
182ZIF	N 1996	1.850	1.390	0.909
182ZIF	N 1997	2.006	1.547	0.909
182ZIF	H2 1998	1.895	1.316	1.110
182ZIF	H2 1999	2.078	1.503	1.111
182ZIF	H3 2000	1.939	1.594	0.660
182ZIF	H3 2001	1.771	1.589	0.715
182ZIF	H3 2002	1.845	1.445	0.643

183ZIF	C1 2003	1.492	1.909	0.841
183ZIF	C2 2004	1.482	2.013	1.029
183ZIF	C2 2005	1.388	1.917	1.030
183ZIF	C3 2006	1.535	1.866	0.706
183ZIF	N 2007	1.548	2.009	0.909
183ZIF	N 2008	1.393	1.852	0.909
183ZIF	H2 2009	1.503	2.082	1.110
183ZIF	H2 2010	1.320	1.895	1.111
183ZIF	H3 2011	1.459	1.804	0.660
183ZIF	H3 2012	1.628	1.809	0.715
183ZIF	H3 2013	1.553	1.954	0.643
184ZIF	C1 2014	1.492	1.489	2.557
184ZIF	C2 2015	1.482	1.385	2.369
184ZIF	C2 2016	1.388	1.481	2.369
184ZIF	C3 2017	1.535	1.532	2.693
184ZIF	N 2018	1.548	1.390	2.490
184ZIF	N 2019	1.393	1.547	2.489
184ZIF	H2 2020	1.503	1.316	2.288
184ZIF	H2 2021	1.320	1.503	2.287
184ZIF	H3 2022	1.459	1.594	2.739
184ZIF	H3 2023	1.628	1.589	2.684
184ZIF	H3 2024	1.553	1.445	2.755
185ZIF	C1 2025	2.758	3.407	2.756
185ZIF	C2 2026	2.863	3.219	2.766
185ZIF	C2 2027	2.767	3.218	2.860
185ZIF	C3 2028	2.716	3.542	2.713
185ZIF	N 2029	2.858	3.339	2.700
185ZIF	N 2030	2.701	3.339	2.855
185ZIF	H2 2031	2.932	3.138	2.745
185ZIF	H2 2032	2.745	3.136	2.928
185ZIF	H3 2033	2.653	3.588	2.789
185ZIF	H3 2034	2.659	3.533	2.620
185ZIF	H3 2035	2.803	3.605	2.695
186ZIF	C1 2036	2.339	1.690	2.756

186ZIF	C2 2037	2.234	1.879	2.766
186ZIF	C2 2038	2.330	1.879	2.860
186ZIF	C3 2039	2.382	1.555	2.713
186ZIF	N 2040	2.239	1.758	2.700
186ZIF	N 2041	2.396	1.759	2.855
186ZIF	H2 2042	2.166	1.960	2.745
186ZIF	H2 2043	2.352	1.961	2.928
186ZIF	H3 2044	2.444	1.509	2.789
186ZIF	H3 2045	2.438	1.564	2.620
186ZIF	H3 2046	2.294	1.493	2.695
187ZIF	C1 2047	2.758	1.690	2.341
187ZIF	C2 2048	2.863	1.879	2.332
187ZIF	C2 2049	2.767	1.879	2.237
187ZIF	C3 2050	2.716	1.555	2.385
187ZIF	N 2051	2.858	1.758	2.397
187ZIF	N 2052	2.701	1.759	2.242
187ZIF	H2 2053	2.932	1.960	2.352
187ZIF	H2 2054	2.745	1.961	2.170
187ZIF	H3 2055	2.653	1.509	2.308
187ZIF	H3 2056	2.659	1.564	2.477
187ZIF	H3 2057	2.803	1.493	2.402
188ZIF	C1 2058	2.339	3.407	2.341
188ZIF	C2 2059	2.234	3.219	2.332
188ZIF	C2 2060	2.330	3.218	2.237
188ZIF	C3 2061	2.382	3.542	2.385
188ZIF	N 2062	2.239	3.339	2.397
188ZIF	N 2063	2.396	3.339	2.242
188ZIF	H2 2064	2.166	3.138	2.352
188ZIF	H2 2065	2.352	3.136	2.170
188ZIF	H3 2066	2.444	3.588	2.308
188ZIF	H3 2067	2.438	3.533	2.477
188ZIF	H3 2068	2.294	3.605	2.402
189ZIF	C1 2069	2.756	2.758	3.407
189ZIF	C2 2070	2.766	2.863	3.219

189ZIF	C2 2071	2.860	2.767	3.218
189ZIF	C3 2072	2.713	2.716	3.542
189ZIF	N 2073	2.700	2.858	3.339
189ZIF	N 2074	2.855	2.701	3.339
189ZIF	H2 2075	2.745	2.932	3.138
189ZIF	H2 2076	2.928	2.745	3.136
189ZIF	H3 2077	2.789	2.653	3.588
189ZIF	H3 2078	2.620	2.659	3.533
189ZIF	H3 2079	2.695	2.803	3.605
190ZIF	C1 2080	2.756	2.339	1.690
190ZIF	C2 2081	2.766	2.234	1.879
190ZIF	C2 2082	2.860	2.330	1.879
190ZIF	C3 2083	2.713	2.382	1.555
190ZIF	N 2084	2.700	2.239	1.758
190ZIF	N 2085	2.855	2.396	1.759
190ZIF	H2 2086	2.745	2.166	1.960
190ZIF	H2 2087	2.928	2.352	1.961
190ZIF	H3 2088	2.789	2.444	1.509
190ZIF	H3 2089	2.620	2.438	1.564
190ZIF	H3 2090	2.695	2.294	1.493
191ZIF	C1 2091	2.341	2.758	1.690
191ZIF	C2 2092	2.332	2.863	1.879
191ZIF	C2 2093	2.237	2.767	1.879
191ZIF	C3 2094	2.385	2.716	1.555
191ZIF	N 2095	2.397	2.858	1.758
191ZIF	N 2096	2.242	2.701	1.759
191ZIF	H2 2097	2.352	2.932	1.960
191ZIF	H2 2098	2.170	2.745	1.961
191ZIF	H3 2099	2.308	2.653	1.509
191ZIF	H3 2100	2.477	2.659	1.564
191ZIF	H3 2101	2.402	2.803	1.493
192ZIF	C1 2102	2.341	2.339	3.407
192ZIF	C2 2103	2.332	2.234	3.219
192ZIF	C2 2104	2.237	2.330	3.218

192ZIF	C3 2105	2.385	2.382	3.542
192ZIF	N 2106	2.397	2.239	3.339
192ZIF	N 2107	2.242	2.396	3.339
192ZIF	H2 2108	2.352	2.166	3.138
192ZIF	H2 2109	2.170	2.352	3.136
192ZIF	H3 2110	2.308	2.444	3.588
192ZIF	H3 2111	2.477	2.438	3.533
192ZIF	H3 2112	2.402	2.294	3.605
193ZIF	Zn 2113	0.850	0.423	0.000
194ZIF	Zn 2114	1.699	1.272	0.850
195ZIF	Zn 2115	2.549	2.975	0.000
196ZIF	Zn 2116	0.000	0.427	0.850
197ZIF	Zn 2117	0.000	0.850	0.423
198ZIF	Zn 2118	0.423	0.000	0.850
199ZIF	Zn 2119	0.000	2.549	2.975
200ZIF	Zn 2120	2.975	0.000	2.549
201ZIF	Zn 2121	0.850	1.699	1.272
202ZIF	Zn 2122	0.850	0.000	0.427
203ZIF	Zn 2123	1.272	0.850	1.699
204ZIF	Zn 2124	0.427	0.850	0.000
205ZIF	Zn 2125	0.850	0.423	1.699
206ZIF	Zn 2126	1.699	1.272	2.549
207ZIF	Zn 2127	2.549	2.975	1.699
208ZIF	Zn 2128	0.000	0.427	2.549
209ZIF	Zn 2129	0.000	0.850	2.122
210ZIF	Zn 2130	0.423	0.000	2.549
211ZIF	Zn 2131	0.000	2.549	1.276
212ZIF	Zn 2132	2.975	0.000	0.850
213ZIF	Zn 2133	0.850	1.699	2.971
214ZIF	Zn 2134	0.850	0.000	2.126
215ZIF	Zn 2135	1.272	0.850	0.000
216ZIF	Zn 2136	0.427	0.850	1.699
217ZIF	Zn 2137	0.850	2.122	0.000
218ZIF	Zn 2138	1.699	2.971	0.850

219ZIF	Zn 2139	2.549	1.276	0.000
220ZIF	Zn 2140	0.000	2.126	0.850
221ZIF	Zn 2141	0.000	2.549	0.423
222ZIF	Zn 2142	0.423	1.699	0.850
223ZIF	Zn 2143	0.000	0.850	2.975
224ZIF	Zn 2144	2.975	1.699	2.549
225ZIF	Zn 2145	0.850	0.000	1.272
226ZIF	Zn 2146	0.850	1.699	0.427
227ZIF	Zn 2147	1.272	2.549	1.699
228ZIF	Zn 2148	0.427	2.549	0.000
229ZIF	Zn 2149	0.850	2.122	1.699
230ZIF	Zn 2150	1.699	2.971	2.549
231ZIF	Zn 2151	2.549	1.276	1.699
232ZIF	Zn 2152	0.000	2.126	2.549
233ZIF	Zn 2153	0.000	2.549	2.122
234ZIF	Zn 2154	0.423	1.699	2.549
235ZIF	Zn 2155	0.000	0.850	1.276
236ZIF	Zn 2156	2.975	1.699	0.850
237ZIF	Zn 2157	0.850	0.000	2.971
238ZIF	Zn 2158	0.850	1.699	2.126
239ZIF	Zn 2159	1.272	2.549	0.000
240ZIF	Zn 2160	0.427	2.549	1.699
241ZIF	Zn 2161	2.549	0.423	0.000
242ZIF	Zn 2162	0.000	1.272	0.850
243ZIF	Zn 2163	0.850	2.975	0.000
244ZIF	Zn 2164	1.699	0.427	0.850
245ZIF	Zn 2165	1.699	0.850	0.423
246ZIF	Zn 2166	2.122	0.000	0.850
247ZIF	Zn 2167	1.699	2.549	2.975
248ZIF	Zn 2168	1.276	0.000	2.549
249ZIF	Zn 2169	2.549	1.699	1.272
250ZIF	Zn 2170	2.549	0.000	0.427
251ZIF	Zn 2171	2.971	0.850	1.699
252ZIF	Zn 2172	2.126	0.850	0.000

253ZIF	Zn 2173	2.549	0.423	1.699
254ZIF	Zn 2174	0.000	1.272	2.549
255ZIF	Zn 2175	0.850	2.975	1.699
256ZIF	Zn 2176	1.699	0.427	2.549
257ZIF	Zn 2177	1.699	0.850	2.122
258ZIF	Zn 2178	2.122	0.000	2.549
259ZIF	Zn 2179	1.699	2.549	1.276
260ZIF	Zn 2180	1.276	0.000	0.850
261ZIF	Zn 2181	2.549	1.699	2.971
262ZIF	Zn 2182	2.549	0.000	2.126
263ZIF	Zn 2183	2.971	0.850	0.000
264ZIF	Zn 2184	2.126	0.850	1.699
265ZIF	Zn 2185	2.549	2.122	0.000
266ZIF	Zn 2186	0.000	2.971	0.850
267ZIF	Zn 2187	0.850	1.276	0.000
268ZIF	Zn 2188	1.699	2.126	0.850
269ZIF	Zn 2189	1.699	2.549	0.423
270ZIF	Zn 2190	2.122	1.699	0.850
271ZIF	Zn 2191	1.699	0.850	2.975
272ZIF	Zn 2192	1.276	1.699	2.549
273ZIF	Zn 2193	2.549	0.000	1.272
274ZIF	Zn 2194	2.549	1.699	0.427
275ZIF	Zn 2195	2.971	2.549	1.699
276ZIF	Zn 2196	2.126	2.549	0.000
277ZIF	Zn 2197	2.549	2.122	1.699
278ZIF	Zn 2198	0.000	2.971	2.549
279ZIF	Zn 2199	0.850	1.276	1.699
280ZIF	Zn 2200	1.699	2.126	2.549
281ZIF	Zn 2201	1.699	2.549	2.122
282ZIF	Zn 2202	2.122	1.699	2.549
283ZIF	Zn 2203	1.699	0.850	1.276
284ZIF	Zn 2204	1.276	1.699	0.850
285ZIF	Zn 2205	2.549	0.000	2.971
286ZIF	Zn 2206	2.549	1.699	2.126

287ZIF Zn 2207 2.971 2.549 0.000

288ZIF Zn 2208 2.126 2.549 1.699

3.39820 3.39820 3.39820

The structural file of Hydrate

generated by VMD, t= 0.000000

2089

2389ICE	OW	1	3.116	1.593	2.770
2389ICE	HW1	2	3.142	1.673	2.814
2389ICE	HW2	3	3.035	1.566	2.814
2389ICE	MW	4	3.109	1.600	2.781
2549ICE	OW	5	3.642	1.590	3.309
2549ICE	HW1	6	3.606	1.671	3.272
2549ICE	HW2	7	3.733	1.612	3.330
2549ICE	MW	8	3.649	1.603	3.307
2828ICE	OW	9	1.595	3.107	2.773
2828ICE	HW1	10	1.530	3.177	2.774
2828ICE	HW2	11	1.674	3.146	2.810
2828ICE	MW	12	1.597	3.121	2.778
2857ICE	OW	13	2.690	3.206	2.684
2857ICE	HW1	14	2.669	3.115	2.662
2857ICE	HW2	15	2.609	3.242	2.720
2857ICE	MW	16	2.677	3.199	2.686
2858ICE	OW	17	2.874	2.350	2.024
2858ICE	HW1	18	2.955	2.386	1.988
2858ICE	HW2	19	2.896	2.259	2.046
2858ICE	MW	20	2.887	2.343	2.023
2860ICE	OW	21	3.309	2.786	2.446
2860ICE	HW1	22	3.330	2.877	2.468
2860ICE	HW2	23	3.272	2.750	2.527
2860ICE	MW	24	3.307	2.793	2.459
2861ICE	OW	25	3.302	3.309	1.930
2861ICE	HW1	26	3.324	3.330	2.021
2861ICE	HW2	27	3.383	3.272	1.894
2861ICE	MW	28	3.315	3.307	1.937
2862ICE	OW	29	2.352	2.882	2.026
2862ICE	HW1	30	2.349	2.815	1.959
2862ICE	HW2	31	2.260	2.902	2.046

2862ICE	MW	32	2.340	2.876	2.020
2863ICE	OW	33	2.257	2.773	2.458
2863ICE	HW1	34	2.322	2.774	2.388
2863ICE	HW2	35	2.178	2.810	2.418
2863ICE	MW	36	2.256	2.778	2.444
2864ICE	OW	37	3.110	2.454	1.924
2864ICE	HW1	38	3.091	2.474	1.832
2864ICE	HW2	39	3.178	2.387	1.921
2864ICE	MW	40	3.116	2.448	1.912
2865ICE	OW	41	3.210	2.361	3.210
2865ICE	HW1	42	3.157	2.302	3.157
2865ICE	HW2	43	3.264	2.302	3.264
2865ICE	MW	44	3.210	2.346	3.210
2866ICE	OW	45	2.262	2.786	3.112
2866ICE	HW1	46	2.241	2.877	3.091
2866ICE	HW2	47	2.181	2.750	3.148
2866ICE	MW	48	2.249	2.793	3.114
2867ICE	OW	49	2.449	1.914	3.116
2867ICE	HW1	50	2.422	1.958	3.035
2867ICE	HW2	51	2.529	1.958	3.142
2867ICE	MW	52	2.456	1.925	3.109
2868ICE	OW	53	2.081	2.088	2.937
2868ICE	HW1	54	2.173	2.064	2.922
2868ICE	HW2	55	2.066	2.064	3.029
2868ICE	MW	56	2.091	2.082	2.947
2869ICE	OW	57	2.784	2.454	3.310
2869ICE	HW1	58	2.787	2.387	3.243
2869ICE	HW2	59	2.876	2.474	3.330
2869ICE	MW	60	2.796	2.448	3.304
2870ICE	OW	61	2.773	2.458	2.257
2870ICE	HW1	62	2.810	2.418	2.178
2870ICE	HW2	63	2.774	2.388	2.322
2870ICE	MW	64	2.778	2.444	2.256
2871ICE	OW	65	1.928	3.110	3.110

2871ICE	HW1	66	1.931	3.178	3.178
2871ICE	HW2	67	2.020	3.091	3.091
2871ICE	MW	68	1.940	3.116	3.116
2872ICE	OW	69	2.191	3.047	3.053
2872ICE	HW1	70	2.247	3.103	3.107
2872ICE	HW2	71	2.213	3.069	2.963
2872ICE	MW	72	2.201	3.057	3.048
2875ICE	OW	73	2.770	3.116	3.305
2875ICE	HW1	74	2.814	3.035	3.278
2875ICE	HW2	75	2.814	3.142	3.385
2875ICE	MW	76	2.781	3.109	3.312
2876ICE	OW	77	2.026	3.212	2.682
2876ICE	HW1	78	1.959	3.215	2.750
2876ICE	HW2	79	2.046	3.304	2.663
2876ICE	MW	80	2.020	3.224	2.688
2878ICE	OW	81	2.509	2.516	2.199
2878ICE	HW1	82	2.601	2.493	2.215
2878ICE	HW2	83	2.494	2.493	2.108
2878ICE	MW	84	2.519	2.510	2.189
2879ICE	OW	85	3.305	1.914	2.260
2879ICE	HW1	86	3.278	1.958	2.179
2879ICE	HW2	87	3.385	1.958	2.286
2879ICE	MW	88	3.312	1.925	2.253
2880ICE	OW	89	3.217	3.210	2.354
2880ICE	HW1	90	3.158	3.264	2.408
2880ICE	HW2	91	3.158	3.157	2.301
2880ICE	MW	92	3.202	3.210	2.354
2881ICE	OW	93	1.930	2.453	2.446
2881ICE	HW1	94	2.021	2.474	2.468
2881ICE	HW2	95	1.894	2.416	2.527
2881ICE	MW	96	1.937	2.451	2.459
2883ICE	OW	97	2.458	3.307	2.791
2883ICE	HW1	98	2.388	3.242	2.790
2883ICE	HW2	99	2.418	3.386	2.755

2883ICE	MW	100	2.444	3.309	2.787
2884ICE	OW	101	1.917	2.250	3.307
2884ICE	HW1	102	1.954	2.290	3.386
2884ICE	HW2	103	1.918	2.321	3.242
2884ICE	MW	104	1.922	2.265	3.309
2885ICE	OW	105	2.881	1.834	3.214
2885ICE	HW1	106	2.902	1.813	3.305
2885ICE	HW2	107	2.844	1.753	3.178
2885ICE	MW	108	2.879	1.821	3.221
2886ICE	OW	109	3.107	3.113	1.935
2886ICE	HW1	110	3.146	3.034	1.899
2886ICE	HW2	111	3.177	3.179	1.934
2886ICE	MW	112	3.121	3.112	1.931
2887ICE	OW	113	3.219	1.822	2.879
2887ICE	HW1	114	3.183	1.862	2.958
2887ICE	HW2	115	3.218	1.893	2.814
2887ICE	MW	116	3.215	1.837	2.881
2888ICE	OW	117	3.374	3.367	2.191
2888ICE	HW1	118	3.351	3.457	2.213
2888ICE	HW2	119	3.318	3.314	2.247
2888ICE	MW	120	3.364	3.372	2.201
2889ICE	OW	121	1.832	2.877	3.222
2889ICE	HW1	122	1.751	2.850	3.178
2889ICE	HW2	123	1.858	2.957	3.178
2889ICE	MW	124	1.825	2.884	3.211
2890ICE	OW	125	2.946	2.939	2.946
2890ICE	HW1	126	2.890	2.886	2.890
2890ICE	HW2	127	2.923	3.029	2.923
2890ICE	MW	128	2.936	2.944	2.936
2892ICE	OW	129	2.619	2.625	2.946
2892ICE	HW1	130	2.675	2.679	2.890
2892ICE	HW2	131	2.641	2.535	2.923
2892ICE	MW	132	2.629	2.620	2.936
2893ICE	OW	133	2.886	3.201	2.879

2893ICE	HW1	134	2.816	3.202	2.814
2893ICE	HW2	135	2.846	3.238	2.958
2893ICE	MW	136	2.872	3.206	2.881
2894ICE	OW	137	1.828	3.214	2.874
2894ICE	HW1	138	1.864	3.178	2.955
2894ICE	HW2	139	1.806	3.305	2.896
2894ICE	MW	140	1.830	3.221	2.887
2895ICE	OW	141	2.688	2.366	2.877
2895ICE	HW1	142	2.607	2.322	2.850
2895ICE	HW2	143	2.714	2.322	2.957
2895ICE	MW	144	2.681	2.355	2.884
2898ICE	OW	145	1.922	2.453	3.118
2898ICE	HW1	146	1.831	2.474	3.097
2898ICE	HW2	147	1.958	2.416	3.037
2898ICE	MW	148	1.915	2.451	3.105
2901ICE	OW	149	3.214	2.024	2.690
2901ICE	HW1	150	3.178	1.988	2.609
2901ICE	HW2	151	3.305	2.046	2.669
2901ICE	MW	152	3.221	2.023	2.677
2905ICE	OW	153	3.206	2.874	2.881
2905ICE	HW1	154	3.115	2.896	2.902
2905ICE	HW2	155	3.242	2.955	2.844
2905ICE	MW	156	3.199	2.887	2.879
2906ICE	OW	157	3.374	2.511	3.047
2906ICE	HW1	158	3.318	2.458	3.103
2906ICE	HW2	159	3.351	2.601	3.069
2906ICE	MW	160	3.364	2.516	3.057
2907ICE	OW	161	2.882	2.882	3.208
2907ICE	HW1	162	2.815	2.815	3.205
2907ICE	HW2	163	2.902	2.902	3.116
2907ICE	MW	164	2.876	2.876	3.196
2908ICE	OW	165	2.882	2.356	2.682
2908ICE	HW1	166	2.902	2.448	2.663
2908ICE	HW2	167	2.815	2.359	2.750

2908ICE	MW	168	2.876	2.368	2.688
2909ICE	OW	169	2.509	3.055	3.372
2909ICE	HW1	170	2.494	2.964	3.349
2909ICE	HW2	171	2.601	3.071	3.349
2909ICE	MW	172	2.519	3.046	3.366
2911ICE	OW	173	2.256	2.446	2.778
2911ICE	HW1	174	2.292	2.527	2.814
2911ICE	HW2	175	2.234	2.468	2.687
2911ICE	MW	176	2.258	2.459	2.771
2912ICE	OW	177	2.451	2.791	3.314
2912ICE	HW1	178	2.530	2.755	3.274
2912ICE	HW2	179	2.386	2.790	3.244
2912ICE	MW	180	2.453	2.787	3.300
2914ICE	OW	181	2.794	3.305	2.449
2914ICE	HW1	182	2.750	3.385	2.422
2914ICE	HW2	183	2.750	3.278	2.529
2914ICE	MW	184	2.783	3.312	2.456
2915ICE	OW	185	2.449	3.116	1.914
2915ICE	HW1	186	2.529	3.142	1.958
2915ICE	HW2	187	2.422	3.035	1.958
2915ICE	MW	188	2.456	3.109	1.925
2916ICE	OW	189	2.946	2.090	2.083
2916ICE	HW1	190	2.890	2.034	2.030
2916ICE	HW2	191	2.923	2.067	2.173
2916ICE	MW	192	2.936	2.080	2.088
2918ICE	OW	193	2.030	2.879	2.345
2918ICE	HW1	194	1.960	2.814	2.346
2918ICE	HW2	195	1.990	2.958	2.382
2918ICE	MW	196	2.016	2.881	2.350
2919ICE	OW	197	2.879	2.030	2.345
2919ICE	HW1	198	2.814	1.960	2.346
2919ICE	HW2	199	2.958	1.990	2.382
2919ICE	MW	200	2.881	2.016	2.350
2921ICE	OW	201	3.302	2.256	1.922

2921ICE	HW1	202	3.383	2.292	1.958
2921ICE	HW2	203	3.324	2.234	1.831
2921ICE	MW	204	3.315	2.258	1.915
2923ICE	OW	205	3.372	2.199	3.365
2923ICE	HW1	206	3.349	2.215	3.457
2923ICE	HW2	207	3.349	2.108	3.350
2923ICE	MW	208	3.366	2.189	3.375
2925ICE	OW	209	3.110	2.784	2.254
2925ICE	HW1	210	3.091	2.876	2.235
2925ICE	HW2	211	3.178	2.787	2.322
2925ICE	MW	212	3.116	2.796	2.260
2928ICE	OW	213	3.201	2.685	2.679
2928ICE	HW1	214	3.202	2.750	2.749
2928ICE	HW2	215	3.238	2.606	2.718
2928ICE	MW	216	3.206	2.684	2.693
2929ICE	OW	217	3.305	1.938	3.305
2929ICE	HW1	218	3.278	1.894	3.385
2929ICE	HW2	219	3.385	1.894	3.278
2929ICE	MW	220	3.312	1.927	3.312
2930ICE	OW	221	2.354	2.354	2.361
2930ICE	HW1	222	2.408	2.408	2.302
2930ICE	HW2	223	2.301	2.301	2.302
2930ICE	MW	224	2.354	2.354	2.346
2931ICE	OW	225	2.199	3.372	3.365
2931ICE	HW1	226	2.108	3.349	3.350
2931ICE	HW2	227	2.215	3.349	3.457
2931ICE	MW	228	2.189	3.366	3.375
2932ICE	OW	229	2.018	2.350	2.881
2932ICE	HW1	230	2.040	2.259	2.902
2932ICE	HW2	231	2.099	2.386	2.844
2932ICE	MW	232	2.031	2.343	2.879
2933ICE	OW	233	3.118	3.309	2.778
2933ICE	HW1	234	3.097	3.330	2.687
2933ICE	HW2	235	3.037	3.272	2.814

2933ICE	MW	236	3.105	3.307	2.771
2934ICE	OW	237	2.354	3.210	3.204
2934ICE	HW1	238	2.408	3.157	3.262
2934ICE	HW2	239	2.301	3.264	3.262
2934ICE	MW	240	2.354	3.210	3.219
2935ICE	OW	241	3.116	2.770	3.305
2935ICE	HW1	242	3.035	2.814	3.278
2935ICE	HW2	243	3.142	2.814	3.385
2935ICE	MW	244	3.109	2.781	3.312
2937ICE	OW	245	2.782	2.782	2.789
2937ICE	HW1	246	2.729	2.836	2.730
2937ICE	HW2	247	2.836	2.729	2.730
2937ICE	MW	248	2.782	2.782	2.774
2938ICE	OW	249	2.030	2.685	3.219
2938ICE	HW1	250	1.990	2.606	3.183
2938ICE	HW2	251	1.960	2.750	3.218
2938ICE	MW	252	2.016	2.684	3.215
2939ICE	OW	253	2.685	2.886	2.363
2939ICE	HW1	254	2.606	2.846	2.327
2939ICE	HW2	255	2.750	2.816	2.362
2939ICE	MW	256	2.684	2.872	2.359
2940ICE	OW	257	3.055	3.365	2.516
2940ICE	HW1	258	2.964	3.350	2.493
2940ICE	HW2	259	3.071	3.457	2.493
2940ICE	MW	260	3.046	3.375	2.510
2941ICE	OW	261	1.917	3.314	2.257
2941ICE	HW1	262	1.954	3.274	2.178
2941ICE	HW2	263	1.918	3.244	2.322
2941ICE	MW	264	1.922	3.300	2.256
2944ICE	OW	265	3.212	2.882	1.826
2944ICE	HW1	266	3.304	2.902	1.807
2944ICE	HW2	267	3.215	2.815	1.894
2944ICE	MW	268	3.224	2.876	1.832
2945ICE	OW	269	3.047	2.511	3.374

2945ICE	HW1	270	3.069	2.601	3.351
2945ICE	HW2	271	3.103	2.458	3.318
2945ICE	MW	272	3.057	2.516	3.364
2946ICE	OW	273	2.937	2.620	2.627
2946ICE	HW1	274	2.922	2.644	2.536
2946ICE	HW2	275	3.029	2.644	2.643
2946ICE	MW	276	2.947	2.626	2.617
2947ICE	OW	277	3.314	2.773	3.113
2947ICE	HW1	278	3.274	2.810	3.034
2947ICE	HW2	279	3.244	2.774	3.179
2947ICE	MW	280	3.300	2.778	3.112
2949ICE	OW	281	2.090	2.946	2.083
2949ICE	HW1	282	2.034	2.890	2.030
2949ICE	HW2	283	2.067	2.923	2.173
2949ICE	MW	284	2.080	2.936	2.088
2950ICE	OW	285	2.877	3.222	1.832
2950ICE	HW1	286	2.850	3.178	1.751
2950ICE	HW2	287	2.957	3.178	1.858
2950ICE	MW	288	2.884	3.211	1.825
2951ICE	OW	289	3.110	1.924	2.454
2951ICE	HW1	290	3.091	1.832	2.474
2951ICE	HW2	291	3.178	1.921	2.387
2951ICE	MW	292	3.116	1.912	2.448
2952ICE	OW	293	3.374	3.047	2.511
2952ICE	HW1	294	3.351	3.069	2.601
2952ICE	HW2	295	3.318	3.103	2.458
2952ICE	MW	296	3.364	3.057	2.516
2953ICE	OW	297	2.786	2.262	3.112
2953ICE	HW1	298	2.750	2.181	3.148
2953ICE	HW2	299	2.877	2.241	3.091
2953ICE	MW	300	2.793	2.249	3.114
2954ICE	OW	301	2.454	2.254	2.780
2954ICE	HW1	302	2.474	2.235	2.688
2954ICE	HW2	303	2.387	2.322	2.777

2954ICE	MW	304	2.448	2.260	2.768
2955ICE	OW	305	2.254	1.924	3.310
2955ICE	HW1	306	2.322	1.921	3.243
2955ICE	HW2	307	2.235	1.832	3.330
2955ICE	MW	308	2.260	1.912	3.304
2956ICE	OW	309	2.511	2.191	2.518
2956ICE	HW1	310	2.601	2.213	2.495
2956ICE	HW2	311	2.458	2.247	2.462
2956ICE	MW	312	2.516	2.201	2.508
2957ICE	OW	313	1.938	3.305	3.305
2957ICE	HW1	314	1.894	3.278	3.385
2957ICE	HW2	315	1.894	3.385	3.278
2957ICE	MW	316	1.927	3.312	3.312
2960ICE	OW	317	2.518	3.374	3.053
2960ICE	HW1	318	2.462	3.318	3.107
2960ICE	HW2	319	2.495	3.351	2.963
2960ICE	MW	320	2.508	3.364	3.048
2962ICE	OW	321	3.310	2.454	2.784
2962ICE	HW1	322	3.243	2.387	2.787
2962ICE	HW2	323	3.330	2.474	2.876
2962ICE	MW	324	3.304	2.448	2.796
2963ICE	OW	325	2.454	1.928	2.454
2963ICE	HW1	326	2.387	1.931	2.387
2963ICE	HW2	327	2.474	2.020	2.474
2963ICE	MW	328	2.448	1.940	2.448
2964ICE	OW	329	3.307	3.107	2.773
2964ICE	HW1	330	3.242	3.177	2.774
2964ICE	HW2	331	3.386	3.146	2.810
2964ICE	MW	332	3.309	3.121	2.778
2965ICE	OW	333	2.191	2.511	2.518
2965ICE	HW1	334	2.247	2.458	2.462
2965ICE	HW2	335	2.213	2.601	2.495
2965ICE	MW	336	2.201	2.516	2.508
2966ICE	OW	337	2.780	3.310	3.110

2966ICE	HW1	338	2.688	3.330	3.091
2966ICE	HW2	339	2.777	3.243	3.178
2966ICE	MW	340	2.768	3.304	3.116
2967ICE	OW	341	2.345	2.023	2.886
2967ICE	HW1	342	2.346	1.958	2.816
2967ICE	HW2	343	2.382	2.102	2.846
2967ICE	MW	344	2.350	2.025	2.872
2968ICE	OW	345	2.627	2.944	2.627
2968ICE	HW1	346	2.536	2.921	2.643
2968ICE	HW2	347	2.643	2.921	2.536
2968ICE	MW	348	2.617	2.938	2.617
2969ICE	OW	349	2.358	2.684	2.874
2969ICE	HW1	350	2.449	2.662	2.896
2969ICE	HW2	351	2.322	2.720	2.955
2969ICE	MW	352	2.365	2.686	2.887
2971ICE	OW	353	3.113	1.935	3.107
2971ICE	HW1	354	3.034	1.899	3.146
2971ICE	HW2	355	3.179	1.934	3.177
2971ICE	MW	356	3.112	1.931	3.121
2974ICE	OW	357	2.363	2.886	2.685
2974ICE	HW1	358	2.327	2.846	2.606
2974ICE	HW2	359	2.362	2.816	2.750
2974ICE	MW	360	2.359	2.872	2.684
2975ICE	OW	361	2.682	2.026	3.212
2975ICE	HW1	362	2.663	2.046	3.304
2975ICE	HW2	363	2.750	1.959	3.215
2975ICE	MW	364	2.688	2.020	3.224
2977ICE	OW	365	3.055	3.048	2.199
2977ICE	HW1	366	2.964	3.072	2.215
2977ICE	HW2	367	3.071	3.072	2.108
2977ICE	MW	368	3.046	3.054	2.189
2979ICE	OW	369	2.453	2.778	2.262
2979ICE	HW1	370	2.474	2.687	2.241
2979ICE	HW2	371	2.416	2.814	2.181

2979ICE	MW	372	2.451	2.771	2.249
2980ICE	OW	373	2.679	3.219	2.023
2980ICE	HW1	374	2.718	3.183	2.102
2980ICE	HW2	375	2.749	3.218	1.958
2980ICE	MW	376	2.693	3.215	2.025
2981ICE	OW	377	2.791	3.113	2.250
2981ICE	HW1	378	2.755	3.034	2.290
2981ICE	HW2	379	2.790	3.179	2.321
2981ICE	MW	380	2.787	3.112	2.265
2982ICE	OW	381	2.684	2.690	3.206
2982ICE	HW1	382	2.720	2.609	3.242
2982ICE	HW2	383	2.662	2.669	3.115
2982ICE	MW	384	2.686	2.677	3.199
2983ICE	OW	385	3.222	2.688	2.021
2983ICE	HW1	386	3.178	2.607	1.994
2983ICE	HW2	387	3.178	2.714	2.101
2983ICE	MW	388	3.211	2.681	2.028
2985ICE	OW	389	3.116	2.260	2.794
2985ICE	HW1	390	3.142	2.179	2.750
2985ICE	HW2	391	3.035	2.286	2.750
2985ICE	MW	392	3.109	2.253	2.783
2986ICE	OW	393	2.770	2.260	2.449
2986ICE	HW1	394	2.814	2.286	2.529
2986ICE	HW2	395	2.814	2.179	2.422
2986ICE	MW	396	2.781	2.253	2.456
2989ICE	OW	397	2.260	3.116	2.794
2989ICE	HW1	398	2.179	3.142	2.750
2989ICE	HW2	399	2.286	3.035	2.750
2989ICE	MW	400	2.253	3.109	2.783
2990ICE	OW	401	1.922	3.112	2.446
2990ICE	HW1	402	1.831	3.091	2.468
2990ICE	HW2	403	1.958	3.148	2.527
2990ICE	MW	404	1.915	3.114	2.459
2991ICE	OW	405	3.048	2.199	3.055

2991ICE	HW1	406	3.072	2.108	3.071
2991ICE	HW2	407	3.072	2.215	2.964
2991ICE	MW	408	3.054	2.189	3.046
2992ICE	OW	409	2.877	2.688	2.366
2992ICE	HW1	410	2.957	2.714	2.322
2992ICE	HW2	411	2.850	2.607	2.322
2992ICE	MW	412	2.884	2.681	2.355
2993ICE	OW	413	4.394	3.208	2.682
2993ICE	HW1	414	4.462	3.205	2.750
2993ICE	HW2	415	4.375	3.116	2.663
2993ICE	MW	416	4.400	3.196	2.688
2995ICE	OW	417	3.972	3.305	1.914
2995ICE	HW1	418	3.891	3.278	1.958
2995ICE	HW2	419	3.998	3.385	1.958
2995ICE	MW	420	3.965	3.312	1.925
2998ICE	OW	421	4.054	2.877	2.021
2998ICE	HW1	422	4.098	2.957	1.994
2998ICE	HW2	423	4.098	2.850	2.101
2998ICE	MW	424	4.065	2.884	2.028
2999ICE	OW	425	3.972	2.770	2.449
2999ICE	HW1	426	3.998	2.814	2.529
2999ICE	HW2	427	3.891	2.814	2.422
2999ICE	MW	428	3.965	2.781	2.456
3002ICE	OW	429	3.969	2.791	3.107
3002ICE	HW1	430	3.891	2.755	3.146
3002ICE	HW2	431	4.035	2.790	3.177
3002ICE	MW	432	3.968	2.787	3.121
3003ICE	OW	433	4.165	1.922	3.118
3003ICE	HW1	434	4.186	1.831	3.097
3003ICE	HW2	435	4.128	1.958	3.037
3003ICE	MW	436	4.163	1.915	3.105
3004ICE	OW	437	3.802	2.083	2.946
3004ICE	HW1	438	3.779	2.173	2.923
3004ICE	HW2	439	3.746	2.030	2.890

3004ICE	MW	440	3.792	2.088	2.936
3005ICE	OW	441	4.498	2.453	3.302
3005ICE	HW1	442	4.462	2.416	3.383
3005ICE	HW2	443	4.589	2.474	3.324
3005ICE	MW	444	4.505	2.451	3.315
3007ICE	OW	445	3.640	3.110	3.110
3007ICE	HW1	446	3.643	3.178	3.178
3007ICE	HW2	447	3.732	3.091	3.091
3007ICE	MW	448	3.652	3.116	3.116
3008ICE	OW	449	3.903	3.053	3.047
3008ICE	HW1	450	3.959	3.107	3.103
3008ICE	HW2	451	3.925	2.963	3.069
3008ICE	MW	452	3.913	3.048	3.057
3011ICE	OW	453	4.482	3.116	3.305
3011ICE	HW1	454	4.526	3.142	3.385
3011ICE	HW2	455	4.526	3.035	3.278
3011ICE	MW	456	4.494	3.109	3.312
3012ICE	OW	457	3.730	3.214	2.684
3012ICE	HW1	458	3.811	3.178	2.720
3012ICE	HW2	459	3.752	3.305	2.662
3012ICE	MW	460	3.743	3.221	2.686
3017ICE	OW	461	3.642	2.446	2.453
3017ICE	HW1	462	3.733	2.468	2.474
3017ICE	HW2	463	3.606	2.527	2.416
3017ICE	MW	464	3.649	2.459	2.451
3018ICE	OW	465	3.737	3.206	2.018
3018ICE	HW1	466	3.700	3.242	2.099
3018ICE	HW2	467	3.758	3.115	2.040
3018ICE	MW	468	3.735	3.199	2.031
3019ICE	OW	469	4.158	3.309	2.786
3019ICE	HW1	470	4.180	3.330	2.877
3019ICE	HW2	471	4.239	3.272	2.750
3019ICE	MW	472	4.171	3.307	2.793
3020ICE	OW	473	3.634	2.262	3.309

3020ICE	HW1	474	3.670	2.181	3.272
3020ICE	HW2	475	3.543	2.241	3.330
3020ICE	MW	476	3.627	2.249	3.307
3025ICE	OW	477	3.544	2.877	3.222
3025ICE	HW1	478	3.570	2.957	3.178
3025ICE	HW2	479	3.463	2.850	3.178
3025ICE	MW	480	3.537	2.884	3.211
3026ICE	OW	481	4.649	2.937	2.944
3026ICE	HW1	482	4.741	2.922	2.921
3026ICE	HW2	483	4.634	3.029	2.921
3026ICE	MW	484	4.659	2.947	2.938
3028ICE	OW	485	4.331	2.619	2.939
3028ICE	HW1	486	4.387	2.675	2.886
3028ICE	HW2	487	4.353	2.641	3.029
3028ICE	MW	488	4.341	2.629	2.944
3029ICE	OW	489	4.589	3.198	2.877
3029ICE	HW1	490	4.562	3.242	2.957
3029ICE	HW2	491	4.669	3.242	2.850
3029ICE	MW	492	4.596	3.209	2.884
3030ICE	OW	493	3.535	3.219	2.879
3030ICE	HW1	494	3.574	3.183	2.958
3030ICE	HW2	495	3.605	3.218	2.814
3030ICE	MW	496	3.549	3.215	2.881
3031ICE	OW	497	4.402	2.358	2.881
3031ICE	HW1	498	4.322	2.322	2.844
3031ICE	HW2	499	4.381	2.449	2.902
3031ICE	MW	500	4.389	2.365	2.879
3034ICE	OW	501	3.636	2.454	3.110
3034ICE	HW1	502	3.545	2.474	3.091
3034ICE	HW2	503	3.633	2.387	3.178
3034ICE	MW	504	3.624	2.448	3.116
3036ICE	OW	505	3.538	1.826	3.208
3036ICE	HW1	506	3.606	1.894	3.205
3036ICE	HW2	507	3.519	1.807	3.116

3036ICE	MW	508	3.544	1.832	3.196
3038ICE	OW	509	3.909	2.191	2.191
3038ICE	HW1	510	3.819	2.213	2.213
3038ICE	HW2	511	3.963	2.247	2.247
3038ICE	MW	512	3.904	2.201	2.201
3040ICE	OW	513	3.632	2.782	1.926
3040ICE	HW1	514	3.690	2.836	1.980
3040ICE	HW2	515	3.690	2.729	1.873
3040ICE	MW	516	3.647	2.782	1.926
3043ICE	OW	517	4.586	2.881	3.206
3043ICE	HW1	518	4.608	2.902	3.115
3043ICE	HW2	519	4.667	2.844	3.242
3043ICE	MW	520	4.599	2.879	3.199
3045ICE	OW	521	4.221	3.048	3.365
3045ICE	HW1	522	4.206	3.072	3.457
3045ICE	HW2	523	4.313	3.072	3.350
3045ICE	MW	524	4.231	3.054	3.375
3046ICE	OW	525	3.535	2.023	2.363
3046ICE	HW1	526	3.605	1.958	2.362
3046ICE	HW2	527	3.574	2.102	2.327
3046ICE	MW	528	3.549	2.025	2.359
3047ICE	OW	529	3.972	2.449	2.770
3047ICE	HW1	530	3.998	2.529	2.814
3047ICE	HW2	531	3.891	2.422	2.814
3047ICE	MW	532	3.965	2.456	2.781
3048ICE	OW	533	4.158	2.786	3.309
3048ICE	HW1	534	4.239	2.750	3.272
3048ICE	HW2	535	4.180	2.877	3.330
3048ICE	MW	536	4.171	2.793	3.307
3050ICE	OW	537	4.506	3.305	2.449
3050ICE	HW1	538	4.462	3.385	2.422
3050ICE	HW2	539	4.462	3.278	2.529
3050ICE	MW	540	4.495	3.312	2.456
3054ICE	OW	541	3.742	2.879	2.345

3054ICE	HW1	542	3.702	2.958	2.382
3054ICE	HW2	543	3.672	2.814	2.346
3054ICE	MW	544	3.728	2.881	2.350
3056ICE	OW	545	3.538	2.356	2.026
3056ICE	HW1	546	3.606	2.359	1.959
3056ICE	HW2	547	3.519	2.448	2.046
3056ICE	MW	548	3.544	2.368	2.020
3058ICE	OW	549	3.546	2.684	2.350
3058ICE	HW1	550	3.525	2.662	2.259
3058ICE	HW2	551	3.465	2.720	2.386
3058ICE	MW	552	3.533	2.686	2.343
3063ICE	OW	553	3.648	2.250	2.257
3063ICE	HW1	554	3.646	2.321	2.322
3063ICE	HW2	555	3.611	2.290	2.178
3063ICE	MW	556	3.643	2.265	2.256
3066ICE	OW	557	4.066	2.348	2.354
3066ICE	HW1	558	4.013	2.406	2.408
3066ICE	HW2	559	4.120	2.406	2.301
3066ICE	MW	560	4.066	2.363	2.354
3067ICE	OW	561	3.904	3.365	3.365
3067ICE	HW1	562	3.928	3.350	3.457
3067ICE	HW2	563	3.928	3.457	3.350
3067ICE	MW	564	3.910	3.375	3.375
3068ICE	OW	565	3.742	2.345	2.879
3068ICE	HW1	566	3.672	2.346	2.814
3068ICE	HW2	567	3.702	2.382	2.958
3068ICE	MW	568	3.728	2.350	2.881
3070ICE	OW	569	4.066	3.210	3.204
3070ICE	HW1	570	4.120	3.157	3.262
3070ICE	HW2	571	4.013	3.264	3.262
3070ICE	MW	572	4.066	3.210	3.219
3073ICE	OW	573	4.494	2.776	2.782
3073ICE	HW1	574	4.548	2.834	2.836
3073ICE	HW2	575	4.441	2.834	2.729

3073ICE	MW	576	4.494	2.791	2.782
3074ICE	OW	577	3.742	2.685	3.219
3074ICE	HW1	578	3.672	2.750	3.218
3074ICE	HW2	579	3.702	2.606	3.183
3074ICE	MW	580	3.728	2.684	3.215
3075ICE	OW	581	4.400	2.877	2.366
3075ICE	HW1	582	4.426	2.957	2.322
3075ICE	HW2	583	4.319	2.850	2.322
3075ICE	MW	584	4.393	2.884	2.355
3077ICE	OW	585	3.636	3.310	2.254
3077ICE	HW1	586	3.633	3.243	2.322
3077ICE	HW2	587	3.545	3.330	2.235
3077ICE	MW	588	3.624	3.304	2.260
3078ICE	OW	589	3.730	2.024	3.206
3078ICE	HW1	590	3.811	1.988	3.242
3078ICE	HW2	591	3.752	2.046	3.115
3078ICE	MW	592	3.743	2.023	3.199
3082ICE	OW	593	4.658	2.619	2.625
3082ICE	HW1	594	4.635	2.641	2.535
3082ICE	HW2	595	4.602	2.675	2.679
3082ICE	MW	596	4.648	2.629	2.620
3084ICE	OW	597	3.544	2.342	2.688
3084ICE	HW1	598	3.463	2.386	2.714
3084ICE	HW2	599	3.570	2.386	2.607
3084ICE	MW	600	3.537	2.353	2.681
3085ICE	OW	601	3.793	2.944	2.081
3085ICE	HW1	602	3.885	2.921	2.066
3085ICE	HW2	603	3.778	2.921	2.173
3085ICE	MW	604	3.803	2.938	2.091
3089ICE	OW	605	4.504	2.250	3.113
3089ICE	HW1	606	4.467	2.290	3.034
3089ICE	HW2	607	4.502	2.321	3.179
3089ICE	MW	608	4.499	2.265	3.112
3090ICE	OW	609	4.166	2.254	2.780

3090ICE	HW1	610	4.099	2.322	2.777
3090ICE	HW2	611	4.186	2.235	2.688
3090ICE	MW	612	4.160	2.260	2.768
3091ICE	OW	613	3.963	1.917	3.307
3091ICE	HW1	614	4.033	1.918	3.242
3091ICE	HW2	615	4.002	1.954	3.386
3091ICE	MW	616	3.977	1.922	3.309
3092ICE	OW	617	4.230	2.197	2.518
3092ICE	HW1	618	4.174	2.251	2.462
3092ICE	HW2	619	4.207	2.107	2.495
3092ICE	MW	620	4.220	2.192	2.508
3093ICE	OW	621	3.642	3.302	3.309
3093ICE	HW1	622	3.733	3.324	3.330
3093ICE	HW2	623	3.606	3.383	3.272
3093ICE	MW	624	3.649	3.315	3.307
3094ICE	OW	625	3.475	2.946	1.769
3094ICE	HW1	626	3.497	2.923	1.679
3094ICE	HW2	627	3.531	2.890	1.823
3094ICE	MW	628	3.485	2.936	1.764
3095ICE	OW	629	3.538	3.208	1.826
3095ICE	HW1	630	3.606	3.205	1.894
3095ICE	HW2	631	3.519	3.116	1.807
3095ICE	MW	632	3.544	3.196	1.832
3096ICE	OW	633	4.223	3.374	3.047
3096ICE	HW1	634	4.170	3.318	3.103
3096ICE	HW2	635	4.314	3.351	3.069
3096ICE	MW	636	4.228	3.364	3.057
3097ICE	OW	637	3.481	1.763	2.946
3097ICE	HW1	638	3.391	1.785	2.923
3097ICE	HW2	639	3.535	1.819	2.890
3097ICE	MW	640	3.476	1.773	2.936
3101ICE	OW	641	3.904	2.509	2.509
3101ICE	HW1	642	3.928	2.494	2.601
3101ICE	HW2	643	3.928	2.601	2.494

3101ICE	MW	644	3.910	2.519	2.519
3102ICE	OW	645	4.485	3.307	3.107
3102ICE	HW1	646	4.522	3.386	3.146
3102ICE	HW2	647	4.487	3.242	3.177
3102ICE	MW	648	4.490	3.309	3.121
3103ICE	OW	649	4.062	2.018	2.881
3103ICE	HW1	650	4.098	2.099	2.844
3103ICE	HW2	651	3.971	2.040	2.902
3103ICE	MW	652	4.055	2.031	2.879
3104ICE	OW	653	4.339	2.944	2.627
3104ICE	HW1	654	4.248	2.921	2.643
3104ICE	HW2	655	4.355	2.921	2.536
3104ICE	MW	656	4.330	2.938	2.617
3105ICE	OW	657	4.070	2.684	2.874
3105ICE	HW1	658	4.034	2.720	2.955
3105ICE	HW2	659	4.161	2.662	2.896
3105ICE	MW	660	4.077	2.686	2.887
3110ICE	OW	661	4.076	2.879	2.679
3110ICE	HW1	662	4.074	2.814	2.749
3110ICE	HW2	663	4.039	2.958	2.718
3110ICE	MW	664	4.071	2.881	2.693
3112ICE	OW	665	3.476	2.081	2.627
3112ICE	HW1	666	3.500	2.173	2.643
3112ICE	HW2	667	3.500	2.066	2.536
3112ICE	MW	668	3.482	2.091	2.617
3115ICE	OW	669	4.166	2.780	2.254
3115ICE	HW1	670	4.186	2.688	2.235
3115ICE	HW2	671	4.099	2.777	2.322
3115ICE	MW	672	4.160	2.768	2.260
3117ICE	OW	673	4.496	3.110	2.254
3117ICE	HW1	674	4.499	3.178	2.322
3117ICE	HW2	675	4.588	3.091	2.235
3117ICE	MW	676	4.508	3.116	2.260
3118ICE	OW	677	4.391	2.685	3.201

3118ICE	HW1	678	4.430	2.606	3.238
3118ICE	HW2	679	4.461	2.750	3.202
3118ICE	MW	680	4.405	2.684	3.206
3120ICE	OW	681	3.481	2.619	2.090
3120ICE	HW1	682	3.535	2.675	2.034
3120ICE	HW2	683	3.391	2.641	2.067
3120ICE	MW	684	3.476	2.629	2.080
3123ICE	OW	685	3.638	1.926	2.789
3123ICE	HW1	686	3.585	1.980	2.730
3123ICE	HW2	687	3.692	1.873	2.730
3123ICE	MW	688	3.638	1.926	2.774
3125ICE	OW	689	3.966	3.110	2.784
3125ICE	HW1	690	3.947	3.091	2.876
3125ICE	HW2	691	4.034	3.178	2.787
3125ICE	MW	692	3.972	3.116	2.796
3126ICE	OW	693	3.634	3.112	2.446
3126ICE	HW1	694	3.670	3.148	2.527
3126ICE	HW2	695	3.543	3.091	2.468
3126ICE	MW	696	3.627	3.114	2.459
3402ICE	OW	697	2.874	4.062	2.024
3402ICE	HW1	698	2.896	3.971	2.046
3402ICE	HW2	699	2.955	4.098	1.988
3402ICE	MW	700	2.887	4.055	2.023
3404ICE	OW	701	3.314	4.504	2.451
3404ICE	HW1	702	3.244	4.502	2.386
3404ICE	HW2	703	3.274	4.467	2.530
3404ICE	MW	704	3.300	4.499	2.453
3409ICE	OW	705	3.210	4.073	3.210
3409ICE	HW1	706	3.157	4.014	3.157
3409ICE	HW2	707	3.264	4.014	3.264
3409ICE	MW	708	3.210	4.058	3.210
3410ICE	OW	709	2.254	4.496	3.110
3410ICE	HW1	710	2.322	4.499	3.178
3410ICE	HW2	711	2.235	4.588	3.091

3410ICE	MW	712	2.260	4.508	3.116
3411ICE	OW	713	2.454	3.636	3.110
3411ICE	HW1	714	2.474	3.545	3.091
3411ICE	HW2	715	2.387	3.633	3.178
3411ICE	MW	716	2.448	3.624	3.116
3412ICE	OW	717	2.088	3.793	2.937
3412ICE	HW1	718	2.064	3.778	3.029
3412ICE	HW2	719	2.064	3.885	2.922
3412ICE	MW	720	2.082	3.803	2.947
3413ICE	OW	721	2.786	4.158	3.309
3413ICE	HW1	722	2.750	4.239	3.272
3413ICE	HW2	723	2.877	4.180	3.330
3413ICE	MW	724	2.793	4.171	3.307
3414ICE	OW	725	2.778	4.165	2.262
3414ICE	HW1	726	2.814	4.128	2.181
3414ICE	HW2	727	2.687	4.186	2.241
3414ICE	MW	728	2.771	4.163	2.249
3418ICE	OW	729	2.083	3.475	2.619
3418ICE	HW1	730	2.030	3.531	2.675
3418ICE	HW2	731	2.173	3.497	2.641
3418ICE	MW	732	2.088	3.485	2.629
3421ICE	OW	733	2.024	3.546	2.358
3421ICE	HW1	734	1.988	3.465	2.322
3421ICE	HW2	735	2.046	3.525	2.449
3421ICE	MW	736	2.023	3.533	2.365
3422ICE	OW	737	2.516	4.221	2.199
3422ICE	HW1	738	2.493	4.313	2.215
3422ICE	HW2	739	2.493	4.206	2.108
3422ICE	MW	740	2.510	4.231	2.189
3423ICE	OW	741	3.305	3.626	2.260
3423ICE	HW1	742	3.385	3.670	2.286
3423ICE	HW2	743	3.278	3.670	2.179
3423ICE	MW	744	3.312	3.637	2.253
3428ICE	OW	745	1.917	3.963	3.307

3428ICE	HW1	746	1.954	4.002	3.386
3428ICE	HW2	747	1.918	4.033	3.242
3428ICE	MW	748	1.922	3.977	3.309
3429ICE	OW	749	2.877	3.544	3.222
3429ICE	HW1	750	2.850	3.463	3.178
3429ICE	HW2	751	2.957	3.570	3.178
3429ICE	MW	752	2.884	3.537	3.211
3431ICE	OW	753	3.222	3.544	2.877
3431ICE	HW1	754	3.178	3.570	2.957
3431ICE	HW2	755	3.178	3.463	2.850
3431ICE	MW	756	3.211	3.537	2.884
3434ICE	OW	757	2.937	4.656	2.937
3434ICE	HW1	758	2.922	4.633	3.029
3434ICE	HW2	759	3.029	4.633	2.922
3434ICE	MW	760	2.947	4.650	2.947
3435ICE	OW	761	3.201	3.735	2.030
3435ICE	HW1	762	3.238	3.814	1.990
3435ICE	HW2	763	3.202	3.670	1.960
3435ICE	MW	764	3.206	3.737	2.016
3436ICE	OW	765	2.619	4.337	2.946
3436ICE	HW1	766	2.675	4.391	2.890
3436ICE	HW2	767	2.641	4.247	2.923
3436ICE	MW	768	2.629	4.332	2.936
3439ICE	OW	769	2.688	4.078	2.877
3439ICE	HW1	770	2.714	4.034	2.957
3439ICE	HW2	771	2.607	4.034	2.850
3439ICE	MW	772	2.681	4.067	2.884
3441ICE	OW	773	2.262	3.642	2.256
3441ICE	HW1	774	2.241	3.733	2.234
3441ICE	HW2	775	2.181	3.606	2.292
3441ICE	MW	776	2.249	3.649	2.258
3442ICE	OW	777	1.922	4.158	3.112
3442ICE	HW1	778	1.831	4.180	3.091
3442ICE	HW2	779	1.958	4.239	3.148

3442ICE	MW	780	1.915	4.171	3.114
3443ICE	OW	781	3.206	3.546	1.828
3443ICE	HW1	782	3.242	3.465	1.864
3443ICE	HW2	783	3.115	3.525	1.806
3443ICE	MW	784	3.199	3.533	1.830
3444ICE	OW	785	1.829	3.535	3.201
3444ICE	HW1	786	1.750	3.574	3.238
3444ICE	HW2	787	1.894	3.605	3.202
3444ICE	MW	788	1.828	3.549	3.206
3445ICE	OW	789	3.219	3.735	2.679
3445ICE	HW1	790	3.183	3.814	2.718
3445ICE	HW2	791	3.218	3.670	2.749
3445ICE	MW	792	3.215	3.737	2.693
3446ICE	OW	793	2.191	3.903	2.197
3446ICE	HW1	794	2.213	3.925	2.107
3446ICE	HW2	795	2.247	3.959	2.251
3446ICE	MW	796	2.201	3.913	2.192
3449ICE	OW	797	3.201	4.591	2.886
3449ICE	HW1	798	3.238	4.670	2.846
3449ICE	HW2	799	3.202	4.526	2.816
3449ICE	MW	800	3.206	4.593	2.872
3450ICE	OW	801	3.367	4.230	3.047
3450ICE	HW1	802	3.457	4.207	3.069
3450ICE	HW2	803	3.314	4.174	3.103
3450ICE	MW	804	3.372	4.220	3.057
3451ICE	OW	805	2.877	4.589	3.198
3451ICE	HW1	806	2.957	4.562	3.242
3451ICE	HW2	807	2.850	4.669	3.242
3451ICE	MW	808	2.884	4.596	3.209
3452ICE	OW	809	2.886	4.076	2.685
3452ICE	HW1	810	2.816	4.074	2.750
3452ICE	HW2	811	2.846	4.039	2.606
3452ICE	MW	812	2.872	4.071	2.684
3455ICE	OW	813	2.250	4.163	2.773

3455ICE	HW1	814	2.321	4.098	2.774
3455ICE	HW2	815	2.290	4.242	2.810
3455ICE	MW	816	2.265	4.165	2.778
3456ICE	OW	817	2.449	4.506	3.305
3456ICE	HW1	818	2.422	4.462	3.385
3456ICE	HW2	819	2.529	4.462	3.278
3456ICE	MW	820	2.456	4.495	3.312
3460ICE	OW	821	2.937	3.800	2.081
3460ICE	HW1	822	2.922	3.777	2.173
3460ICE	HW2	823	3.029	3.777	2.066
3460ICE	MW	824	2.947	3.794	2.091
3463ICE	OW	825	2.877	3.733	2.342
3463ICE	HW1	826	2.850	3.813	2.386
3463ICE	HW2	827	2.957	3.706	2.386
3463ICE	MW	828	2.884	3.740	2.353
3465ICE	OW	829	3.307	3.963	1.917
3465ICE	HW1	830	3.242	4.033	1.918
3465ICE	HW2	831	3.386	4.002	1.954
3465ICE	MW	832	3.309	3.977	1.922
3467ICE	OW	833	3.365	3.904	3.365
3467ICE	HW1	834	3.350	3.928	3.457
3467ICE	HW2	835	3.457	3.928	3.350
3467ICE	MW	836	3.375	3.910	3.375
3468ICE	OW	837	2.619	3.481	2.090
3468ICE	HW1	838	2.675	3.535	2.034
3468ICE	HW2	839	2.641	3.391	2.067
3468ICE	MW	840	2.629	3.476	2.080
3469ICE	OW	841	3.116	4.506	2.260
3469ICE	HW1	842	3.035	4.462	2.286
3469ICE	HW2	843	3.142	4.462	2.179
3469ICE	MW	844	3.109	4.495	2.253
3470ICE	OW	845	2.345	3.535	2.685
3470ICE	HW1	846	2.382	3.574	2.606
3470ICE	HW2	847	2.346	3.605	2.750

3470ICE	MW	848	2.350	3.549	2.684
3472ICE	OW	849	3.206	4.402	2.684
3472ICE	HW1	850	3.115	4.381	2.662
3472ICE	HW2	851	3.242	4.322	2.720
3472ICE	MW	852	3.199	4.389	2.686
3473ICE	OW	853	3.309	3.642	3.302
3473ICE	HW1	854	3.272	3.606	3.383
3473ICE	HW2	855	3.330	3.733	3.324
3473ICE	MW	856	3.307	3.649	3.315
3474ICE	OW	857	2.354	4.060	2.354
3474ICE	HW1	858	2.408	4.118	2.301
3474ICE	HW2	859	2.301	4.118	2.408
3474ICE	MW	860	2.354	4.075	2.354
3476ICE	OW	861	2.021	4.054	2.877
3476ICE	HW1	862	2.101	4.098	2.850
3476ICE	HW2	863	1.994	4.098	2.957
3476ICE	MW	864	2.028	4.065	2.884
3479ICE	OW	865	3.107	4.485	3.307
3479ICE	HW1	866	3.146	4.522	3.386
3479ICE	HW2	867	3.177	4.487	3.242
3479ICE	MW	868	3.121	4.490	3.309
3480ICE	OW	869	2.776	3.638	1.926
3480ICE	HW1	870	2.834	3.585	1.873
3480ICE	HW2	871	2.834	3.692	1.980
3480ICE	MW	872	2.791	3.638	1.926
3481ICE	OW	873	2.782	4.488	2.782
3481ICE	HW1	874	2.836	4.546	2.836
3481ICE	HW2	875	2.729	4.546	2.729
3481ICE	MW	876	2.782	4.503	2.782
3486ICE	OW	877	2.021	3.733	3.198
3486ICE	HW1	878	2.101	3.706	3.242
3486ICE	HW2	879	1.994	3.813	3.242
3486ICE	MW	880	2.028	3.740	3.209
3487ICE	OW	881	2.358	3.540	2.018

3487ICE	HW1	882	2.449	3.519	2.040
3487ICE	HW2	883	2.322	3.576	2.099
3487ICE	MW	884	2.365	3.542	2.031
3489ICE	OW	885	3.047	4.223	3.374
3489ICE	HW1	886	3.069	4.314	3.351
3489ICE	HW2	887	3.103	4.170	3.318
3489ICE	MW	888	3.057	4.228	3.364
3490ICE	OW	889	2.946	4.337	2.619
3490ICE	HW1	890	2.890	4.391	2.675
3490ICE	HW2	891	2.923	4.247	2.641
3490ICE	MW	892	2.936	4.332	2.629
3491ICE	OW	893	3.309	4.490	3.118
3491ICE	HW1	894	3.330	4.399	3.097
3491ICE	HW2	895	3.272	4.526	3.037
3491ICE	MW	896	3.307	4.483	3.105
3495ICE	OW	897	3.107	3.629	2.451
3495ICE	HW1	898	3.177	3.630	2.386
3495ICE	HW2	899	3.146	3.666	2.530
3495ICE	MW	900	3.121	3.634	2.453
3497ICE	OW	901	2.791	3.969	3.107
3497ICE	HW1	902	2.790	4.035	3.177
3497ICE	HW2	903	2.755	3.891	3.146
3497ICE	MW	904	2.787	3.968	3.121
3498ICE	OW	905	2.453	3.974	2.778
3498ICE	HW1	906	2.416	3.893	2.814
3498ICE	HW2	907	2.474	3.953	2.687
3498ICE	MW	908	2.451	3.961	2.771
3499ICE	OW	909	2.256	3.634	3.302
3499ICE	HW1	910	2.234	3.543	3.324
3499ICE	HW2	911	2.292	3.670	3.383
3499ICE	MW	912	2.258	3.627	3.315
3500ICE	OW	913	2.518	3.909	2.518
3500ICE	HW1	914	2.462	3.963	2.462
3500ICE	HW2	915	2.495	3.819	2.495

3500ICE	MW	916	2.508	3.904	2.508
3505ICE	OW	917	1.763	3.475	2.939
3505ICE	HW1	918	1.819	3.531	2.886
3505ICE	HW2	919	1.785	3.497	3.029
3505ICE	MW	920	1.773	3.485	2.944
3506ICE	OW	921	3.302	4.165	2.786
3506ICE	HW1	922	3.383	4.128	2.750
3506ICE	HW2	923	3.324	4.186	2.877
3506ICE	MW	924	3.315	4.163	2.793
3507ICE	OW	925	2.451	3.648	2.458
3507ICE	HW1	926	2.530	3.611	2.418
3507ICE	HW2	927	2.386	3.646	2.388
3507ICE	MW	928	2.453	3.643	2.444
3509ICE	OW	929	2.199	4.228	2.509
3509ICE	HW1	930	2.108	4.205	2.494
3509ICE	HW2	931	2.215	4.205	2.601
3509ICE	MW	932	2.189	4.222	2.519
3511ICE	OW	933	2.350	3.737	2.874
3511ICE	HW1	934	2.259	3.758	2.896
3511ICE	HW2	935	2.386	3.700	2.955
3511ICE	MW	936	2.343	3.735	2.887
3513ICE	OW	937	2.358	4.396	2.874
3513ICE	HW1	938	2.449	4.375	2.896
3513ICE	HW2	939	2.322	4.432	2.955
3513ICE	MW	940	2.365	4.398	2.887
3515ICE	OW	941	3.110	3.640	3.110
3515ICE	HW1	942	3.091	3.732	3.091
3515ICE	HW2	943	3.178	3.643	3.178
3515ICE	MW	944	3.116	3.652	3.116
3516ICE	OW	945	2.944	3.483	1.771
3516ICE	HW1	946	2.921	3.499	1.680
3516ICE	HW2	947	2.921	3.392	1.787
3516ICE	MW	948	2.938	3.474	1.761
3519ICE	OW	949	2.685	3.742	3.219

3519ICE	HW1	950	2.606	3.702	3.183
3519ICE	HW2	951	2.750	3.672	3.218
3519ICE	MW	952	2.684	3.728	3.215
3522ICE	OW	953	2.682	3.538	2.352
3522ICE	HW1	954	2.750	3.606	2.349
3522ICE	HW2	955	2.663	3.519	2.260
3522ICE	MW	956	2.688	3.544	2.340
3526ICE	OW	957	2.682	4.394	3.208
3526ICE	HW1	958	2.663	4.375	3.116
3526ICE	HW2	959	2.750	4.462	3.205
3526ICE	MW	960	2.688	4.400	3.196
3529ICE	OW	961	3.113	3.963	2.791
3529ICE	HW1	962	3.179	4.033	2.790
3529ICE	HW2	963	3.034	4.002	2.755
3529ICE	MW	964	3.112	3.977	2.787
3530ICE	OW	965	2.780	3.966	2.454
3530ICE	HW1	966	2.777	4.034	2.387
3530ICE	HW2	967	2.688	3.947	2.474
3530ICE	MW	968	2.768	3.972	2.448
3531ICE	OW	969	1.926	3.632	2.782
3531ICE	HW1	970	1.980	3.690	2.836
3531ICE	HW2	971	1.873	3.690	2.729
3531ICE	MW	972	1.926	3.647	2.782
3535ICE	OW	973	3.055	3.904	3.055
3535ICE	HW1	974	2.964	3.928	3.071
3535ICE	HW2	975	3.071	3.928	2.964
3535ICE	MW	976	3.046	3.910	3.046
3536ICE	OW	977	2.881	4.402	2.358
3536ICE	HW1	978	2.844	4.322	2.322
3536ICE	HW2	979	2.902	4.381	2.449
3536ICE	MW	980	2.879	4.389	2.365
3543ICE	OW	981	3.974	4.490	2.453
3543ICE	HW1	982	3.953	4.399	2.474
3543ICE	HW2	983	3.893	4.526	2.416

3543ICE	MW	984	3.961	4.483	2.451
3546ICE	OW	985	3.966	4.496	3.110
3546ICE	HW1	986	4.034	4.499	3.178
3546ICE	HW2	987	3.947	4.588	3.091
3546ICE	MW	988	3.972	4.508	3.116
3547ICE	OW	989	4.166	3.636	3.110
3547ICE	HW1	990	4.186	3.545	3.091
3547ICE	HW2	991	4.099	3.633	3.178
3547ICE	MW	992	4.160	3.624	3.116
3548ICE	OW	993	3.802	3.802	2.939
3548ICE	HW1	994	3.746	3.746	2.886
3548ICE	HW2	995	3.779	3.779	3.029
3548ICE	MW	996	3.792	3.792	2.944
3549ICE	OW	997	4.506	4.161	3.305
3549ICE	HW1	998	4.462	4.134	3.385
3549ICE	HW2	999	4.462	4.241	3.278
3549ICE	MW	1000	4.495	4.168	3.312
3551ICE	OW	1001	3.650	4.828	3.116
3551ICE	HW1	1002	3.606	4.854	3.035
3551ICE	HW2	1003	3.606	4.747	3.142
3551ICE	MW	1004	3.639	4.821	3.109
3554ICE	OW	1005	3.793	3.476	2.627
3554ICE	HW1	1006	3.778	3.500	2.536
3554ICE	HW2	1007	3.885	3.500	2.643
3554ICE	MW	1008	3.803	3.482	2.617
3557ICE	OW	1009	3.733	3.544	2.366
3557ICE	HW1	1010	3.706	3.463	2.322
3557ICE	HW2	1011	3.813	3.570	2.322
3557ICE	MW	1012	3.740	3.537	2.355
3561ICE	OW	1013	3.640	4.166	2.454
3561ICE	HW1	1014	3.643	4.099	2.387
3561ICE	HW2	1015	3.732	4.186	2.474
3561ICE	MW	1016	3.652	4.160	2.448
3564ICE	OW	1017	3.629	3.963	3.307

3564ICE	HW1	1018	3.666	4.002	3.386
3564ICE	HW2	1019	3.630	4.033	3.242
3564ICE	MW	1020	3.634	3.977	3.309
3565ICE	OW	1021	4.591	3.535	3.219
3565ICE	HW1	1022	4.526	3.605	3.218
3565ICE	HW2	1023	4.670	3.574	3.183
3565ICE	MW	1024	4.593	3.549	3.215
3569ICE	OW	1025	3.546	4.593	3.214
3569ICE	HW1	1026	3.525	4.614	3.305
3569ICE	HW2	1027	3.465	4.556	3.178
3569ICE	MW	1028	3.533	4.591	3.221
3572ICE	OW	1029	4.337	4.331	2.946
3572ICE	HW1	1030	4.391	4.387	2.890
3572ICE	HW2	1031	4.247	4.353	2.923
3572ICE	MW	1032	4.332	4.341	2.936
3575ICE	OW	1033	4.402	4.070	2.881
3575ICE	HW1	1034	4.322	4.034	2.844
3575ICE	HW2	1035	4.381	4.161	2.902
3575ICE	MW	1036	4.389	4.077	2.879
3577ICE	OW	1037	3.966	3.640	2.254
3577ICE	HW1	1038	4.034	3.643	2.322
3577ICE	HW2	1039	3.947	3.732	2.235
3577ICE	MW	1040	3.972	3.652	2.260
3578ICE	OW	1041	3.626	4.161	3.116
3578ICE	HW1	1042	3.670	4.134	3.035
3578ICE	HW2	1043	3.670	4.241	3.142
3578ICE	MW	1044	3.637	4.168	3.109
3580ICE	OW	1045	3.546	3.540	3.206
3580ICE	HW1	1046	3.465	3.576	3.242
3580ICE	HW2	1047	3.525	3.519	3.115
3580ICE	MW	1048	3.533	3.542	3.199
3582ICE	OW	1049	3.903	3.903	2.197
3582ICE	HW1	1050	3.925	3.925	2.107
3582ICE	HW2	1051	3.959	3.959	2.251

3582ICE MW 1052 3.913 3.913 2.192
3590ICE OW 1053 3.538 3.738 2.356
3590ICE HW1 1054 3.606 3.671 2.359
3590ICE HW2 1055 3.519 3.758 2.448
3590ICE MW 1056 3.544 3.732 2.368
3591ICE OW 1057 3.972 4.161 2.770
3591ICE HW1 1058 3.998 4.241 2.814
3591ICE HW2 1059 3.891 4.134 2.814
3591ICE MW 1060 3.965 4.168 2.781
3592ICE OW 1061 4.165 4.498 3.302
3592ICE HW1 1062 4.128 4.462 3.383
3592ICE HW2 1063 4.186 4.589 3.324
3592ICE MW 1064 4.163 4.505 3.315
3600ICE OW 1065 3.535 4.076 2.023
3600ICE HW1 1066 3.605 4.074 1.958
3600ICE HW2 1067 3.574 4.039 2.102
3600ICE MW 1068 3.549 4.071 2.025
3602ICE OW 1069 3.544 4.400 2.342
3602ICE HW1 1070 3.570 4.319 2.386
3602ICE HW2 1071 3.463 4.426 2.386
3602ICE MW 1072 3.537 4.393 2.353
3604ICE OW 1073 4.333 3.483 2.081
3604ICE HW1 1074 4.356 3.499 2.173
3604ICE HW2 1075 4.356 3.392 2.066
3604ICE MW 1076 4.338 3.474 2.091
3606ICE OW 1077 4.057 3.541 2.679
3606ICE HW1 1078 4.058 3.607 2.749
3606ICE HW2 1079 4.094 3.462 2.718
3606ICE MW 1080 4.062 3.540 2.693
3607ICE OW 1081 3.642 3.974 2.256
3607ICE HW1 1082 3.733 3.953 2.234
3607ICE HW2 1083 3.606 3.893 2.292
3607ICE MW 1084 3.649 3.961 2.258
3610ICE OW 1085 4.060 4.066 2.354

3610ICE	HW1	1086	4.118	4.013	2.408
3610ICE	HW2	1087	4.118	4.120	2.301
3610ICE	MW	1088	4.075	4.066	2.354
3612ICE	OW	1089	3.738	4.064	2.882
3612ICE	HW1	1090	3.671	4.061	2.815
3612ICE	HW2	1091	3.758	3.973	2.902
3612ICE	MW	1092	3.732	4.052	2.876
3618ICE	OW	1093	3.735	4.391	3.219
3618ICE	HW1	1094	3.670	4.461	3.218
3618ICE	HW2	1095	3.814	4.430	3.183
3618ICE	MW	1096	3.737	4.405	3.215
3622ICE	OW	1097	3.742	3.735	3.201
3622ICE	HW1	1098	3.672	3.670	3.202
3622ICE	HW2	1099	3.702	3.814	3.238
3622ICE	MW	1100	3.728	3.737	3.206
3623ICE	OW	1101	4.070	3.540	2.018
3623ICE	HW1	1102	4.161	3.519	2.040
3623ICE	HW2	1103	4.034	3.576	2.099
3623ICE	MW	1104	4.077	3.542	2.031
3628ICE	OW	1105	3.540	4.062	2.690
3628ICE	HW1	1106	3.576	4.098	2.609
3628ICE	HW2	1107	3.519	3.971	2.669
3628ICE	MW	1108	3.542	4.055	2.677
3633ICE	OW	1109	4.504	3.963	3.113
3633ICE	HW1	1110	4.502	4.033	3.179
3633ICE	HW2	1111	4.467	4.002	3.034
3633ICE	MW	1112	4.499	3.977	3.112
3634ICE	OW	1113	4.170	3.969	2.773
3634ICE	HW1	1114	4.100	4.035	2.774
3634ICE	HW2	1115	4.130	3.891	2.810
3634ICE	MW	1116	4.156	3.968	2.778
3635ICE	OW	1117	3.972	3.626	3.305
3635ICE	HW1	1118	3.998	3.670	3.385
3635ICE	HW2	1119	3.891	3.670	3.278

3635ICE	MW	1120	3.965	3.637	3.312
3636ICE	OW	1121	4.221	3.904	2.509
3636ICE	HW1	1122	4.206	3.928	2.601
3636ICE	HW2	1123	4.313	3.928	2.494
3636ICE	MW	1124	4.231	3.910	2.519
3641ICE	OW	1125	3.483	3.483	2.944
3641ICE	HW1	1126	3.392	3.499	2.921
3641ICE	HW2	1127	3.499	3.392	2.921
3641ICE	MW	1128	3.474	3.474	2.938
3643ICE	OW	1129	4.165	3.642	2.446
3643ICE	HW1	1130	4.128	3.606	2.527
3643ICE	HW2	1131	4.186	3.733	2.468
3643ICE	MW	1132	4.163	3.649	2.459
3645ICE	OW	1133	3.903	4.230	2.511
3645ICE	HW1	1134	3.925	4.207	2.601
3645ICE	HW2	1135	3.959	4.174	2.458
3645ICE	MW	1136	3.913	4.220	2.516
3647ICE	OW	1137	4.062	3.737	2.874
3647ICE	HW1	1138	4.098	3.700	2.955
3647ICE	HW2	1139	3.971	3.758	2.896
3647ICE	MW	1140	4.055	3.735	2.887
3649ICE	OW	1141	4.076	4.391	2.879
3649ICE	HW1	1142	4.039	4.430	2.958
3649ICE	HW2	1143	4.074	4.461	2.814
3649ICE	MW	1144	4.071	4.405	2.881
3655ICE	OW	1145	4.400	3.733	3.222
3655ICE	HW1	1146	4.319	3.706	3.178
3655ICE	HW2	1147	4.426	3.813	3.178
3655ICE	MW	1148	4.393	3.740	3.211
3656ICE	OW	1149	3.481	3.802	2.619
3656ICE	HW1	1150	3.391	3.779	2.641
3656ICE	HW2	1151	3.535	3.746	2.675
3656ICE	MW	1152	3.476	3.792	2.629
3658ICE	OW	1153	4.397	3.535	2.345

3658ICE	HW1	1154	4.319	3.574	2.382
3658ICE	HW2	1155	4.463	3.605	2.346
3658ICE	MW	1156	4.396	3.549	2.350
3664ICE	OW	1157	3.476	4.339	2.081
3664ICE	HW1	1158	3.500	4.248	2.066
3664ICE	HW2	1159	3.500	4.355	2.173
3664ICE	MW	1160	3.482	4.330	2.091
3667ICE	OW	1161	3.638	3.645	2.782
3667ICE	HW1	1162	3.585	3.586	2.836
3667ICE	HW2	1163	3.692	3.586	2.729
3667ICE	MW	1164	3.638	3.630	2.782
5033ICE	OW	1165	2.684	3.206	4.402
5033ICE	HW1	1166	2.720	3.242	4.322
5033ICE	HW2	1167	2.662	3.115	4.381
5033ICE	MW	1168	2.686	3.199	4.389
5034ICE	OW	1169	2.882	2.352	3.738
5034ICE	HW1	1170	2.815	2.349	3.671
5034ICE	HW2	1171	2.902	2.260	3.758
5034ICE	MW	1172	2.876	2.340	3.732
5035ICE	OW	1173	2.260	3.305	3.626
5035ICE	HW1	1174	2.286	3.385	3.670
5035ICE	HW2	1175	2.179	3.278	3.670
5035ICE	MW	1176	2.253	3.312	3.637
5036ICE	OW	1177	3.305	2.794	4.161
5036ICE	HW1	1178	3.385	2.750	4.134
5036ICE	HW2	1179	3.278	2.750	4.241
5036ICE	MW	1180	3.312	2.783	4.168
5037ICE	OW	1181	3.307	3.314	3.648
5037ICE	HW1	1182	3.242	3.244	3.646
5037ICE	HW2	1183	3.386	3.274	3.611
5037ICE	MW	1184	3.309	3.300	3.643
5038ICE	OW	1185	2.345	2.879	3.742
5038ICE	HW1	1186	2.346	2.814	3.672
5038ICE	HW2	1187	2.382	2.958	3.702

5038ICE	MW	1188	2.350	2.881	3.728
5039ICE	OW	1189	2.254	2.780	4.166
5039ICE	HW1	1190	2.235	2.688	4.186
5039ICE	HW2	1191	2.322	2.777	4.099
5039ICE	MW	1192	2.260	2.768	4.160
5040ICE	OW	1193	3.118	2.453	3.634
5040ICE	HW1	1194	3.037	2.416	3.670
5040ICE	HW2	1195	3.097	2.474	3.543
5040ICE	MW	1196	3.105	2.451	3.627
5046ICE	OW	1197	2.770	2.449	3.972
5046ICE	HW1	1198	2.814	2.422	3.891
5046ICE	HW2	1199	2.814	2.529	3.998
5046ICE	MW	1200	2.781	2.456	3.965
5049ICE	OW	1201	2.453	2.446	3.642
5049ICE	HW1	1202	2.474	2.468	3.733
5049ICE	HW2	1203	2.416	2.527	3.606
5049ICE	MW	1204	2.451	2.459	3.649
5054ICE	OW	1205	2.509	2.509	3.904
5054ICE	HW1	1206	2.601	2.494	3.928
5054ICE	HW2	1207	2.494	2.601	3.928
5054ICE	MW	1208	2.519	2.519	3.910
5055ICE	OW	1209	3.314	1.917	3.969
5055ICE	HW1	1210	3.244	1.918	4.035
5055ICE	HW2	1211	3.274	1.954	3.891
5055ICE	MW	1212	3.300	1.922	3.968
5056ICE	OW	1213	3.210	3.210	4.060
5056ICE	HW1	1214	3.264	3.157	4.118
5056ICE	HW2	1215	3.157	3.264	4.118
5056ICE	MW	1216	3.210	3.210	4.075
5058ICE	OW	1217	2.026	3.208	3.738
5058ICE	HW1	1218	1.959	3.205	3.671
5058ICE	HW2	1219	2.046	3.116	3.758
5058ICE	MW	1220	2.020	3.196	3.732
5059ICE	OW	1221	2.446	3.309	4.498

5059ICE	HW1	1222	2.468	3.330	4.589
5059ICE	HW2	1223	2.527	3.272	4.462
5059ICE	MW	1224	2.459	3.307	4.505
5062ICE	OW	1225	3.112	3.118	3.642
5062ICE	HW1	1226	3.091	3.097	3.733
5062ICE	HW2	1227	3.148	3.037	3.606
5062ICE	MW	1228	3.114	3.105	3.649
5064ICE	OW	1229	3.374	3.374	3.909
5064ICE	HW1	1230	3.318	3.318	3.963
5064ICE	HW2	1231	3.351	3.351	3.819
5064ICE	MW	1232	3.364	3.364	3.904
5066ICE	OW	1233	2.937	2.944	4.649
5066ICE	HW1	1234	2.922	2.921	4.741
5066ICE	HW2	1235	3.029	2.921	4.634
5066ICE	MW	1236	2.947	2.938	4.659
5067ICE	OW	1237	3.201	2.023	3.742
5067ICE	HW1	1238	3.238	2.102	3.702
5067ICE	HW2	1239	3.202	1.958	3.672
5067ICE	MW	1240	3.206	2.025	3.728
5069ICE	OW	1241	2.882	3.208	4.595
5069ICE	HW1	1242	2.815	3.205	4.527
5069ICE	HW2	1243	2.902	3.116	4.614
5069ICE	MW	1244	2.876	3.196	4.588
5072ICE	OW	1245	2.254	2.254	3.640
5072ICE	HW1	1246	2.235	2.235	3.732
5072ICE	HW2	1247	2.322	2.322	3.643
5072ICE	MW	1248	2.260	2.260	3.652
5075ICE	OW	1249	3.206	1.834	3.540
5075ICE	HW1	1250	3.242	1.753	3.576
5075ICE	HW2	1251	3.115	1.813	3.519
5075ICE	MW	1252	3.199	1.821	3.542
5078ICE	OW	1253	2.191	2.197	3.903
5078ICE	HW1	1254	2.213	2.107	3.925
5078ICE	HW2	1255	2.247	2.251	3.959

5078ICE MW 1256 2.201 2.192 3.913
5079ICE OW 1257 2.350 2.684 3.546
5079ICE HW1 1258 2.386 2.720 3.465
5079ICE HW2 1259 2.259 2.662 3.525
5079ICE MW 1260 2.343 2.686 3.533
5080ICE OW 1261 1.920 2.782 3.638
5080ICE HW1 1262 1.978 2.729 3.585
5080ICE HW2 1263 1.978 2.836 3.692
5080ICE MW 1264 1.935 2.782 3.638
5081ICE OW 1265 3.198 2.877 4.589
5081ICE HW1 1266 3.242 2.850 4.669
5081ICE HW2 1267 3.242 2.957 4.562
5081ICE MW 1268 3.209 2.884 4.596
5084ICE OW 1269 2.877 2.366 4.400
5084ICE HW1 1270 2.850 2.322 4.319
5084ICE HW2 1271 2.957 2.322 4.426
5084ICE MW 1272 2.884 2.355 4.393
5089ICE OW 1273 2.627 2.081 3.476
5089ICE HW1 1274 2.536 2.066 3.500
5089ICE HW2 1275 2.643 2.173 3.500
5089ICE MW 1276 2.617 2.091 3.482
5090ICE OW 1277 2.784 3.310 4.166
5090ICE HW1 1278 2.787 3.243 4.099
5090ICE HW2 1279 2.876 3.330 4.186
5090ICE MW 1280 2.796 3.304 4.160
5091ICE OW 1281 2.454 3.110 3.636
5091ICE HW1 1282 2.474 3.091 3.545
5091ICE HW2 1283 2.387 3.178 3.633
5091ICE MW 1284 2.448 3.116 3.624
5092ICE OW 1285 2.939 2.090 3.802
5092ICE HW1 1286 3.029 2.067 3.779
5092ICE HW2 1287 2.886 2.034 3.746
5092ICE MW 1288 2.944 2.080 3.792
5093ICE OW 1289 2.688 2.342 3.544

5093ICE	HW1	1290	2.714	2.386	3.463
5093ICE	HW2	1291	2.607	2.386	3.570
5093ICE	MW	1292	2.681	2.353	3.537
5094ICE	OW	1293	2.023	2.886	4.057
5094ICE	HW1	1294	1.958	2.816	4.058
5094ICE	HW2	1295	2.102	2.846	4.094
5094ICE	MW	1296	2.025	2.872	4.062
5095ICE	OW	1297	2.882	2.026	4.064
5095ICE	HW1	1298	2.902	2.046	3.973
5095ICE	HW2	1299	2.815	1.959	4.061
5095ICE	MW	1300	2.876	2.020	4.052
5097ICE	OW	1301	3.307	2.250	3.629
5097ICE	HW1	1302	3.242	2.321	3.630
5097ICE	HW2	1303	3.386	2.290	3.666
5097ICE	MW	1304	3.309	2.265	3.634
5101ICE	OW	1305	3.110	2.784	3.966
5101ICE	HW1	1306	3.178	2.787	4.034
5101ICE	HW2	1307	3.091	2.876	3.947
5101ICE	MW	1308	3.116	2.796	3.972
5104ICE	OW	1309	3.208	2.682	4.394
5104ICE	HW1	1310	3.116	2.663	4.375
5104ICE	HW2	1311	3.205	2.750	4.462
5104ICE	MW	1312	3.196	2.688	4.400
5106ICE	OW	1313	2.354	2.348	4.066
5106ICE	HW1	1314	2.408	2.406	4.013
5106ICE	HW2	1315	2.301	2.406	4.120
5106ICE	MW	1316	2.354	2.363	4.066
5109ICE	OW	1317	3.116	3.305	4.482
5109ICE	HW1	1318	3.142	3.385	4.526
5109ICE	HW2	1319	3.035	3.278	4.526
5109ICE	MW	1320	3.109	3.312	4.494
5112ICE	OW	1321	2.789	1.926	3.638
5112ICE	HW1	1322	2.730	1.873	3.692
5112ICE	HW2	1323	2.730	1.980	3.585

5112ICE MW 1324 2.774 1.926 3.638
5113ICE OW 1325 2.782 2.782 4.488
5113ICE HW1 1326 2.729 2.729 4.546
5113ICE HW2 1327 2.836 2.836 4.546
5113ICE MW 1328 2.782 2.782 4.503
5115ICE OW 1329 2.682 2.882 4.068
5115ICE HW1 1330 2.663 2.902 4.160
5115ICE HW2 1331 2.750 2.815 4.071
5115ICE MW 1332 2.688 2.876 4.080
5116ICE OW 1333 3.048 3.365 4.221
5116ICE HW1 1334 3.072 3.350 4.313
5116ICE HW2 1335 3.072 3.457 4.206
5116ICE MW 1336 3.054 3.375 4.231
5117ICE OW 1337 1.922 3.309 3.974
5117ICE HW1 1338 1.831 3.330 3.953
5117ICE HW2 1339 1.958 3.272 3.893
5117ICE MW 1340 1.915 3.307 3.961
5120ICE OW 1341 3.212 2.882 3.538
5120ICE HW1 1342 3.215 2.815 3.606
5120ICE HW2 1343 3.304 2.902 3.519
5120ICE MW 1344 3.224 2.876 3.544
5122ICE OW 1345 2.946 2.625 4.331
5122ICE HW1 1346 2.890 2.679 4.387
5122ICE HW2 1347 2.923 2.535 4.353
5122ICE MW 1348 2.936 2.620 4.341
5125ICE OW 1349 2.081 2.944 3.793
5125ICE HW1 1350 2.066 2.921 3.885
5125ICE HW2 1351 2.173 2.921 3.778
5125ICE MW 1352 2.091 2.938 3.803
5126ICE OW 1353 2.874 3.214 3.540
5126ICE HW1 1354 2.896 3.305 3.519
5126ICE HW2 1355 2.955 3.178 3.576
5126ICE MW 1356 2.887 3.221 3.542
5127ICE OW 1357 3.116 1.914 4.161

5127ICE	HW1	1358	3.035	1.958	4.134
5127ICE	HW2	1359	3.142	1.958	4.241
5127ICE	MW	1360	3.109	1.925	4.168
5128ICE	OW	1361	3.365	3.055	4.228
5128ICE	HW1	1362	3.350	2.964	4.205
5128ICE	HW2	1363	3.457	3.071	4.205
5128ICE	MW	1364	3.375	3.046	4.222
5132ICE	OW	1365	2.511	2.191	4.230
5132ICE	HW1	1366	2.601	2.213	4.207
5132ICE	HW2	1367	2.458	2.247	4.174
5132ICE	MW	1368	2.516	2.201	4.220
5134ICE	OW	1369	1.763	2.946	3.481
5134ICE	HW1	1370	1.819	2.890	3.535
5134ICE	HW2	1371	1.785	2.923	3.391
5134ICE	MW	1372	1.773	2.936	3.476
5135ICE	OW	1373	1.834	3.206	3.540
5135ICE	HW1	1374	1.753	3.242	3.576
5135ICE	HW2	1375	1.813	3.115	3.519
5135ICE	MW	1376	1.821	3.199	3.542
5138ICE	OW	1377	3.305	2.449	4.506
5138ICE	HW1	1378	3.385	2.422	4.462
5138ICE	HW2	1379	3.278	2.529	4.462
5138ICE	MW	1380	3.312	2.456	4.495
5140ICE	OW	1381	3.310	3.110	4.492
5140ICE	HW1	1382	3.330	3.091	4.401
5140ICE	HW2	1383	3.243	3.178	4.489
5140ICE	MW	1384	3.304	3.116	4.480
5144ICE	OW	1385	2.625	2.946	4.331
5144ICE	HW1	1386	2.679	2.890	4.387
5144ICE	HW2	1387	2.535	2.923	4.353
5144ICE	MW	1388	2.620	2.936	4.341
5146ICE	OW	1389	2.366	2.021	3.544
5146ICE	HW1	1390	2.322	1.994	3.463
5146ICE	HW2	1391	2.322	2.101	3.570

5146ICE	MW	1392	2.355	2.028	3.537
5148ICE	OW	1393	2.946	1.769	3.475
5148ICE	HW1	1394	2.923	1.679	3.497
5148ICE	HW2	1395	2.890	1.823	3.531
5148ICE	MW	1396	2.936	1.764	3.485
5149ICE	OW	1397	2.088	2.627	3.483
5149ICE	HW1	1398	2.064	2.536	3.499
5149ICE	HW2	1399	2.064	2.643	3.392
5149ICE	MW	1400	2.082	2.617	3.474
5150ICE	OW	1401	2.366	2.877	4.400
5150ICE	HW1	1402	2.322	2.957	4.426
5150ICE	HW2	1403	2.322	2.850	4.319
5150ICE	MW	1404	2.355	2.884	4.393
5153ICE	OW	1405	3.053	3.047	3.903
5153ICE	HW1	1406	2.963	3.069	3.925
5153ICE	HW2	1407	3.107	3.103	3.959
5153ICE	MW	1408	3.048	3.057	3.913
5155ICE	OW	1409	2.449	2.770	3.972
5155ICE	HW1	1410	2.422	2.814	3.891
5155ICE	HW2	1411	2.529	2.814	3.998
5155ICE	MW	1412	2.456	2.781	3.965
5156ICE	OW	1413	2.685	3.219	3.742
5156ICE	HW1	1414	2.750	3.218	3.672
5156ICE	HW2	1415	2.606	3.183	3.702
5156ICE	MW	1416	2.684	3.215	3.728
5157ICE	OW	1417	2.794	3.116	3.972
5157ICE	HW1	1418	2.750	3.142	3.891
5157ICE	HW2	1419	2.750	3.035	3.998
5157ICE	MW	1420	2.783	3.109	3.965
5159ICE	OW	1421	3.222	2.688	3.733
5159ICE	HW1	1422	3.178	2.607	3.706
5159ICE	HW2	1423	3.178	2.714	3.813
5159ICE	MW	1424	3.211	2.681	3.740
5160ICE	OW	1425	1.769	2.619	3.802

5160ICE	HW1	1426	1.679	2.641	3.779
5160ICE	HW2	1427	1.823	2.675	3.746
5160ICE	MW	1428	1.764	2.629	3.792
5162ICE	OW	1429	2.773	2.257	4.170
5162ICE	HW1	1430	2.774	2.322	4.100
5162ICE	HW2	1431	2.810	2.178	4.130
5162ICE	MW	1432	2.778	2.256	4.156
5164ICE	OW	1433	2.023	2.363	3.535
5164ICE	HW1	1434	2.102	2.327	3.574
5164ICE	HW2	1435	1.958	2.362	3.605
5164ICE	MW	1436	2.025	2.359	3.549
5166ICE	OW	1437	1.917	3.113	4.170
5166ICE	HW1	1438	1.954	3.034	4.130
5166ICE	HW2	1439	1.918	3.179	4.100
5166ICE	MW	1440	1.922	3.112	4.156
5168ICE	OW	1441	2.874	2.684	4.070
5168ICE	HW1	1442	2.955	2.720	4.034
5168ICE	HW2	1443	2.896	2.662	4.161
5168ICE	MW	1444	2.887	2.686	4.077
5171ICE	OW	1445	3.972	3.305	3.626
5171ICE	HW1	1446	3.891	3.278	3.670
5171ICE	HW2	1447	3.998	3.385	3.670
5171ICE	MW	1448	3.965	3.312	3.637
5174ICE	OW	1449	4.057	2.886	3.735
5174ICE	HW1	1450	4.058	2.816	3.670
5174ICE	HW2	1451	4.094	2.846	3.814
5174ICE	MW	1452	4.062	2.872	3.737
5175ICE	OW	1453	3.966	2.780	4.166
5175ICE	HW1	1454	4.034	2.777	4.099
5175ICE	HW2	1455	3.947	2.688	4.186
5175ICE	MW	1456	3.972	2.768	4.160
5185ICE	OW	1457	4.165	2.446	3.642
5185ICE	HW1	1458	4.186	2.468	3.733
5185ICE	HW2	1459	4.128	2.527	3.606

5185ICE	MW	1460	4.163	2.459	3.649
5188ICE	OW	1461	3.737	3.214	4.402
5188ICE	HW1	1462	3.700	3.178	4.322
5188ICE	HW2	1463	3.758	3.305	4.381
5188ICE	MW	1464	3.735	3.221	4.389
5190ICE	OW	1465	4.223	2.518	3.903
5190ICE	HW1	1466	4.170	2.462	3.959
5190ICE	HW2	1467	4.314	2.495	3.925
5190ICE	MW	1468	4.228	2.508	3.913
5193ICE	OW	1469	3.650	2.449	4.161
5193ICE	HW1	1470	3.606	2.422	4.241
5193ICE	HW2	1471	3.606	2.529	4.134
5193ICE	MW	1472	3.639	2.456	4.168
5194ICE	OW	1473	3.742	3.201	3.735
5194ICE	HW1	1474	3.672	3.202	3.670
5194ICE	HW2	1475	3.702	3.238	3.814
5194ICE	MW	1476	3.728	3.206	3.737
5198ICE	OW	1477	4.830	3.112	3.642
5198ICE	HW1	1478	4.809	3.091	3.733
5198ICE	HW2	1479	4.750	3.148	3.606
5198ICE	MW	1480	4.817	3.114	3.649
5206ICE	OW	1481	3.541	3.219	4.598
5206ICE	HW1	1482	3.607	3.218	4.528
5206ICE	HW2	1483	3.462	3.183	4.558
5206ICE	MW	1484	3.540	3.215	4.584
5208ICE	OW	1485	3.966	2.254	3.640
5208ICE	HW1	1486	3.947	2.235	3.732
5208ICE	HW2	1487	4.034	2.322	3.643
5208ICE	MW	1488	3.972	2.260	3.652
5214ICE	OW	1489	3.911	2.199	3.904
5214ICE	HW1	1490	3.820	2.215	3.928
5214ICE	HW2	1491	3.927	2.108	3.928
5214ICE	MW	1492	3.902	2.189	3.910
5215ICE	OW	1493	4.062	2.684	3.546

5215ICE	HW1	1494	4.098	2.720	3.465
5215ICE	HW2	1495	3.971	2.662	3.525
5215ICE	MW	1496	4.055	2.686	3.533
5216ICE	OW	1497	3.632	2.782	3.638
5216ICE	HW1	1498	3.690	2.836	3.692
5216ICE	HW2	1499	3.690	2.729	3.585
5216ICE	MW	1500	3.647	2.782	3.638
5222ICE	OW	1501	3.544	2.021	4.078
5222ICE	HW1	1502	3.463	1.994	4.034
5222ICE	HW2	1503	3.570	2.101	4.034
5222ICE	MW	1504	3.537	2.028	4.067
5225ICE	OW	1505	4.331	2.090	3.481
5225ICE	HW1	1506	4.353	2.067	3.391
5225ICE	HW2	1507	4.387	2.034	3.535
5225ICE	MW	1508	4.341	2.080	3.476
5227ICE	OW	1509	4.170	3.113	3.629
5227ICE	HW1	1510	4.130	3.034	3.666
5227ICE	HW2	1511	4.100	3.179	3.630
5227ICE	MW	1512	4.156	3.112	3.634
5229ICE	OW	1513	4.402	2.350	3.540
5229ICE	HW1	1514	4.381	2.259	3.519
5229ICE	HW2	1515	4.322	2.386	3.576
5229ICE	MW	1516	4.389	2.343	3.542
5230ICE	OW	1517	3.730	2.881	4.062
5230ICE	HW1	1518	3.752	2.902	3.971
5230ICE	HW2	1519	3.811	2.844	4.098
5230ICE	MW	1520	3.743	2.879	4.055
5232ICE	OW	1521	3.538	2.356	3.738
5232ICE	HW1	1522	3.519	2.448	3.758
5232ICE	HW2	1523	3.606	2.359	3.671
5232ICE	MW	1524	3.544	2.368	3.732
5234ICE	OW	1525	3.538	2.682	4.064
5234ICE	HW1	1526	3.606	2.750	4.061
5234ICE	HW2	1527	3.519	2.663	3.973

5234ICE	MW	1528	3.544	2.688	4.052
5239ICE	OW	1529	3.648	2.250	3.969
5239ICE	HW1	1530	3.611	2.290	3.891
5239ICE	HW2	1531	3.646	2.321	4.035
5239ICE	MW	1532	3.643	2.265	3.968
5242ICE	OW	1533	4.066	2.361	4.066
5242ICE	HW1	1534	4.013	2.302	4.013
5242ICE	HW2	1535	4.120	2.302	4.120
5242ICE	MW	1536	4.066	2.346	4.066
5251ICE	OW	1537	4.396	2.874	4.070
5251ICE	HW1	1538	4.375	2.896	4.161
5251ICE	HW2	1539	4.432	2.955	4.034
5251ICE	MW	1540	4.398	2.887	4.077
5253ICE	OW	1541	3.634	3.302	3.968
5253ICE	HW1	1542	3.543	3.324	3.947
5253ICE	HW2	1543	3.670	3.383	4.004
5253ICE	MW	1544	3.627	3.315	3.970
5260ICE	OW	1545	3.538	2.352	4.394
5260ICE	HW1	1546	3.519	2.260	4.375
5260ICE	HW2	1547	3.606	2.349	4.462
5260ICE	MW	1548	3.544	2.340	4.400
5261ICE	OW	1549	3.793	2.937	3.800
5261ICE	HW1	1550	3.778	3.029	3.777
5261ICE	HW2	1551	3.885	2.922	3.777
5261ICE	MW	1552	3.803	2.947	3.794
5262ICE	OW	1553	4.595	3.212	3.538
5262ICE	HW1	1554	4.614	3.304	3.519
5262ICE	HW2	1555	4.527	3.215	3.606
5262ICE	MW	1556	4.588	3.224	3.544
5270ICE	OW	1557	3.475	2.946	3.481
5270ICE	HW1	1558	3.531	2.890	3.535
5270ICE	HW2	1559	3.497	2.923	3.391
5270ICE	MW	1560	3.485	2.936	3.476
5271ICE	OW	1561	3.540	3.206	3.546

5271ICE	HW1	1562	3.519	3.115	3.525
5271ICE	HW2	1563	3.576	3.242	3.465
5271ICE	MW	1564	3.542	3.199	3.533
5277ICE	OW	1565	3.909	2.518	4.230
5277ICE	HW1	1566	3.963	2.462	4.174
5277ICE	HW2	1567	3.819	2.495	4.207
5277ICE	MW	1568	3.904	2.508	4.220
5280ICE	OW	1569	4.337	2.946	4.331
5280ICE	HW1	1570	4.247	2.923	4.353
5280ICE	HW2	1571	4.391	2.890	4.387
5280ICE	MW	1572	4.332	2.936	4.341
5282ICE	OW	1573	4.070	2.018	3.540
5282ICE	HW1	1574	4.034	2.099	3.576
5282ICE	HW2	1575	4.161	2.040	3.519
5282ICE	MW	1576	4.077	2.031	3.542
5285ICE	OW	1577	3.800	2.627	3.483
5285ICE	HW1	1578	3.777	2.643	3.392
5285ICE	HW2	1579	3.777	2.536	3.499
5285ICE	MW	1580	3.794	2.617	3.474
5286ICE	OW	1581	4.078	2.877	4.400
5286ICE	HW1	1582	4.034	2.957	4.426
5286ICE	HW2	1583	4.034	2.850	4.319
5286ICE	MW	1584	4.067	2.884	4.393
5288ICE	OW	1585	3.475	2.090	4.337
5288ICE	HW1	1586	3.531	2.034	4.391
5288ICE	HW2	1587	3.497	2.067	4.247
5288ICE	MW	1588	3.485	2.080	4.332
5291ICE	OW	1589	4.158	2.778	3.968
5291ICE	HW1	1590	4.180	2.687	3.947
5291ICE	HW2	1591	4.239	2.814	4.004
5291ICE	MW	1592	4.171	2.771	3.970
5292ICE	OW	1593	4.402	3.214	3.737
5292ICE	HW1	1594	4.322	3.178	3.700
5292ICE	HW2	1595	4.381	3.305	3.758

5292ICE	MW	1596	4.389	3.221	3.735
5293ICE	OW	1597	4.504	3.107	3.969
5293ICE	HW1	1598	4.467	3.146	3.891
5293ICE	HW2	1599	4.502	3.177	4.035
5293ICE	MW	1600	4.499	3.121	3.968
5296ICE	OW	1601	3.481	2.619	3.802
5296ICE	HW1	1602	3.535	2.675	3.746
5296ICE	HW2	1603	3.391	2.641	3.779
5296ICE	MW	1604	3.476	2.629	3.792
5300ICE	OW	1605	3.733	2.366	3.544
5300ICE	HW1	1606	3.813	2.322	3.570
5300ICE	HW2	1607	3.706	2.322	3.463
5300ICE	MW	1608	3.740	2.355	3.537
5301ICE	OW	1609	3.969	3.107	4.504
5301ICE	HW1	1610	3.891	3.146	4.467
5301ICE	HW2	1611	4.035	3.177	4.502
5301ICE	MW	1612	3.968	3.121	4.499
5302ICE	OW	1613	3.629	3.113	4.170
5302ICE	HW1	1614	3.630	3.179	4.100
5302ICE	HW2	1615	3.666	3.034	4.130
5302ICE	MW	1616	3.634	3.112	4.156
5578ICE	OW	1617	2.874	4.062	3.737
5578ICE	HW1	1618	2.955	4.098	3.700
5578ICE	HW2	1619	2.896	3.971	3.758
5578ICE	MW	1620	2.887	4.055	3.735
5580ICE	OW	1621	3.307	4.504	4.170
5580ICE	HW1	1622	3.386	4.467	4.130
5580ICE	HW2	1623	3.242	4.502	4.100
5580ICE	MW	1624	3.309	4.499	4.156
5584ICE	OW	1625	3.110	4.166	3.636
5584ICE	HW1	1626	3.178	4.099	3.633
5584ICE	HW2	1627	3.091	4.186	3.545
5584ICE	MW	1628	3.116	4.160	3.624
5590ICE	OW	1629	2.778	4.165	3.974

5590ICE	HW1	1630	2.814	4.128	3.893
5590ICE	HW2	1631	2.687	4.186	3.953
5590ICE	MW	1632	2.771	4.163	3.961
5593ICE	OW	1633	2.446	4.165	3.642
5593ICE	HW1	1634	2.468	4.186	3.733
5593ICE	HW2	1635	2.527	4.128	3.606
5593ICE	MW	1636	2.459	4.163	3.649
5597ICE	OW	1637	2.024	3.546	4.070
5597ICE	HW1	1638	2.046	3.525	4.161
5597ICE	HW2	1639	1.988	3.465	4.034
5597ICE	MW	1640	2.023	3.533	4.077
5598ICE	OW	1641	2.518	4.223	3.903
5598ICE	HW1	1642	2.462	4.170	3.959
5598ICE	HW2	1643	2.495	4.314	3.925
5598ICE	MW	1644	2.508	4.228	3.913
5599ICE	OW	1645	3.302	3.634	3.968
5599ICE	HW1	1646	3.383	3.670	4.004
5599ICE	HW2	1647	3.324	3.543	3.947
5599ICE	MW	1648	3.315	3.627	3.970
5607ICE	OW	1649	3.212	3.538	4.595
5607ICE	HW1	1650	3.215	3.606	4.527
5607ICE	HW2	1651	3.304	3.519	4.614
5607ICE	MW	1652	3.224	3.544	4.588
5611ICE	OW	1653	3.201	3.742	3.735
5611ICE	HW1	1654	3.238	3.702	3.814
5611ICE	HW2	1655	3.202	3.672	3.670
5611ICE	MW	1656	3.206	3.728	3.737
5616ICE	OW	1657	2.250	3.969	3.648
5616ICE	HW1	1658	2.290	3.891	3.611
5616ICE	HW2	1659	2.321	4.035	3.646
5616ICE	MW	1660	2.265	3.968	3.643
5617ICE	OW	1661	2.262	3.642	3.968
5617ICE	HW1	1662	2.241	3.733	3.947
5617ICE	HW2	1663	2.181	3.606	4.004

5617ICE	MW	1664	2.249	3.649	3.970
5619ICE	OW	1665	3.206	3.546	3.540
5619ICE	HW1	1666	3.242	3.465	3.576
5619ICE	HW2	1667	3.115	3.525	3.519
5619ICE	MW	1668	3.199	3.533	3.542
5621ICE	OW	1669	3.222	3.733	4.400
5621ICE	HW1	1670	3.178	3.813	4.426
5621ICE	HW2	1671	3.178	3.706	4.319
5621ICE	MW	1672	3.211	3.740	4.393
5622ICE	OW	1673	2.199	3.904	3.911
5622ICE	HW1	1674	2.108	3.928	3.927
5622ICE	HW2	1675	2.215	3.928	3.820
5622ICE	MW	1676	2.189	3.910	3.902
5623ICE	OW	1677	2.345	4.397	3.535
5623ICE	HW1	1678	2.346	4.463	3.605
5623ICE	HW2	1679	2.382	4.319	3.574
5623ICE	MW	1680	2.350	4.396	3.549
5628ICE	OW	1681	2.881	4.070	4.402
5628ICE	HW1	1682	2.902	4.161	4.381
5628ICE	HW2	1683	2.844	4.034	4.322
5628ICE	MW	1684	2.879	4.077	4.389
5633ICE	OW	1685	2.620	3.793	3.483
5633ICE	HW1	1686	2.644	3.778	3.392
5633ICE	HW2	1687	2.644	3.885	3.499
5633ICE	MW	1688	2.626	3.803	3.474
5636ICE	OW	1689	2.939	3.802	3.802
5636ICE	HW1	1690	2.886	3.746	3.746
5636ICE	HW2	1691	3.029	3.779	3.779
5636ICE	MW	1692	2.944	3.792	3.792
5637ICE	OW	1693	2.679	4.057	3.541
5637ICE	HW1	1694	2.718	4.094	3.462
5637ICE	HW2	1695	2.749	4.058	3.607
5637ICE	MW	1696	2.693	4.062	3.540
5639ICE	OW	1697	2.882	3.738	4.064

5639ICE	HW1	1698	2.902	3.758	3.973
5639ICE	HW2	1699	2.815	3.671	4.061
5639ICE	MW	1700	2.876	3.732	4.052
5641ICE	OW	1701	3.305	3.972	3.626
5641ICE	HW1	1702	3.385	3.998	3.670
5641ICE	HW2	1703	3.278	3.891	3.670
5641ICE	MW	1704	3.312	3.965	3.637
5644ICE	OW	1705	2.620	3.483	3.793
5644ICE	HW1	1706	2.644	3.499	3.885
5644ICE	HW2	1707	2.644	3.392	3.778
5644ICE	MW	1708	2.626	3.474	3.803
5645ICE	OW	1709	3.116	4.506	3.972
5645ICE	HW1	1710	3.035	4.462	3.998
5645ICE	HW2	1711	3.142	4.462	3.891
5645ICE	MW	1712	3.109	4.495	3.965
5646ICE	OW	1713	2.350	3.546	4.396
5646ICE	HW1	1714	2.259	3.525	4.375
5646ICE	HW2	1715	2.386	3.465	4.432
5646ICE	MW	1716	2.343	3.533	4.398
5650ICE	OW	1717	2.354	4.073	4.066
5650ICE	HW1	1718	2.301	4.014	4.013
5650ICE	HW2	1719	2.408	4.014	4.120
5650ICE	MW	1720	2.354	4.058	4.066
5656ICE	OW	1721	2.789	3.638	3.638
5656ICE	HW1	1722	2.730	3.692	3.585
5656ICE	HW2	1723	2.730	3.585	3.692
5656ICE	MW	1724	2.774	3.638	3.638
5663ICE	OW	1725	2.358	3.540	3.730
5663ICE	HW1	1726	2.449	3.519	3.752
5663ICE	HW2	1727	2.322	3.576	3.811
5663ICE	MW	1728	2.365	3.542	3.743
5664ICE	OW	1729	3.219	4.591	3.535
5664ICE	HW1	1730	3.183	4.670	3.574
5664ICE	HW2	1731	3.218	4.526	3.605

5664ICE	MW	1732	3.215	4.593	3.549
5671ICE	OW	1733	3.113	3.629	4.170
5671ICE	HW1	1734	3.034	3.666	4.130
5671ICE	HW2	1735	3.179	3.630	4.100
5671ICE	MW	1736	3.112	3.634	4.156
5676ICE	OW	1737	2.509	3.911	4.228
5676ICE	HW1	1738	2.601	3.927	4.205
5676ICE	HW2	1739	2.494	3.820	4.205
5676ICE	MW	1740	2.519	3.902	4.222
5683ICE	OW	1741	2.458	3.648	4.163
5683ICE	HW1	1742	2.418	3.611	4.242
5683ICE	HW2	1743	2.388	3.646	4.098
5683ICE	MW	1744	2.444	3.643	4.165
5690ICE	OW	1745	2.356	3.738	3.538
5690ICE	HW1	1746	2.359	3.671	3.606
5690ICE	HW2	1747	2.448	3.758	3.519
5690ICE	MW	1748	2.368	3.732	3.544
5692ICE	OW	1749	2.946	3.475	3.481
5692ICE	HW1	1750	2.890	3.531	3.535
5692ICE	HW2	1751	2.923	3.497	3.391
5692ICE	MW	1752	2.936	3.485	3.476
5693ICE	OW	1753	2.083	4.331	3.475
5693ICE	HW1	1754	2.030	4.387	3.531
5693ICE	HW2	1755	2.173	4.353	3.497
5693ICE	MW	1756	2.088	4.341	3.485
5698ICE	OW	1757	2.688	3.544	4.054
5698ICE	HW1	1758	2.714	3.463	4.098
5698ICE	HW2	1759	2.607	3.570	4.098
5698ICE	MW	1760	2.681	3.537	4.065
5703ICE	OW	1761	3.214	4.402	3.737
5703ICE	HW1	1762	3.305	4.381	3.758
5703ICE	HW2	1763	3.178	4.322	3.700
5703ICE	MW	1764	3.221	4.389	3.735
5705ICE	OW	1765	3.118	3.968	4.498

5705ICE	HW1	1766	3.097	3.947	4.589
5705ICE	HW2	1767	3.037	4.004	4.462
5705ICE	MW	1768	3.105	3.970	4.505
5706ICE	OW	1769	2.773	3.969	4.170
5706ICE	HW1	1770	2.774	4.035	4.100
5706ICE	HW2	1771	2.810	3.891	4.130
5706ICE	MW	1772	2.778	3.968	4.156
5708ICE	OW	1773	2.018	4.070	3.540
5708ICE	HW1	1774	2.040	4.161	3.519
5708ICE	HW2	1775	2.099	4.034	3.576
5708ICE	MW	1776	2.031	4.077	3.542
5712ICE	OW	1777	2.881	4.402	4.070
5712ICE	HW1	1778	2.844	4.322	4.034
5712ICE	HW2	1779	2.902	4.381	4.161
5712ICE	MW	1780	2.879	4.389	4.077
5729ICE	OW	1781	4.165	4.158	3.642
5729ICE	HW1	1782	4.128	4.239	3.606
5729ICE	HW2	1783	4.186	4.180	3.733
5729ICE	MW	1784	4.163	4.171	3.649
5730ICE	OW	1785	3.795	3.475	4.331
5730ICE	HW1	1786	3.886	3.497	4.353
5730ICE	HW2	1787	3.742	3.531	4.387
5730ICE	MW	1788	3.800	3.485	4.341
5733ICE	OW	1789	3.730	3.540	4.070
5733ICE	HW1	1790	3.811	3.576	4.034
5733ICE	HW2	1791	3.752	3.519	4.161
5733ICE	MW	1792	3.743	3.542	4.077
5734ICE	OW	1793	4.223	4.230	3.903
5734ICE	HW1	1794	4.170	4.174	3.959
5734ICE	HW2	1795	4.314	4.207	3.925
5734ICE	MW	1796	4.228	4.220	3.913
5737ICE	OW	1797	3.642	4.165	4.158
5737ICE	HW1	1798	3.733	4.186	4.180
5737ICE	HW2	1799	3.606	4.128	4.239

5737ICE	MW	1800	3.649	4.163	4.171
5752ICE	OW	1801	3.963	3.969	3.648
5752ICE	HW1	1802	4.002	3.891	3.611
5752ICE	HW2	1803	4.033	4.035	3.646
5752ICE	MW	1804	3.977	3.968	3.643
5753ICE	OW	1805	3.966	3.640	3.966
5753ICE	HW1	1806	3.947	3.732	3.947
5753ICE	HW2	1807	4.034	3.643	4.034
5753ICE	MW	1808	3.972	3.652	3.972
5758ICE	OW	1809	3.903	3.903	3.909
5758ICE	HW1	1810	3.959	3.959	3.963
5758ICE	HW2	1811	3.925	3.925	3.819
5758ICE	MW	1812	3.913	3.913	3.904
5759ICE	OW	1813	4.064	4.394	3.538
5759ICE	HW1	1814	4.061	4.462	3.606
5759ICE	HW2	1815	3.973	4.375	3.519
5759ICE	MW	1816	4.052	4.400	3.544
5760ICE	OW	1817	3.632	4.494	3.638
5760ICE	HW1	1818	3.690	4.441	3.585
5760ICE	HW2	1819	3.690	4.548	3.692
5760ICE	MW	1820	3.647	4.494	3.638
5766ICE	OW	1821	3.535	3.735	4.076
5766ICE	HW1	1822	3.574	3.814	4.039
5766ICE	HW2	1823	3.605	3.670	4.074
5766ICE	MW	1824	3.549	3.737	4.071
5769ICE	OW	1825	4.333	3.793	3.483
5769ICE	HW1	1826	4.356	3.885	3.499
5769ICE	HW2	1827	4.356	3.778	3.392
5769ICE	MW	1828	4.338	3.803	3.474
5772ICE	OW	1829	4.651	3.802	3.802
5772ICE	HW1	1830	4.598	3.746	3.746
5772ICE	HW2	1831	4.742	3.779	3.779
5772ICE	MW	1832	4.656	3.792	3.792
5773ICE	OW	1833	4.397	4.057	3.535

5773ICE	HW1	1834	4.463	4.058	3.605
5773ICE	HW2	1835	4.319	4.094	3.574
5773ICE	MW	1836	4.396	4.062	3.549
5776ICE	OW	1837	3.540	4.070	3.730
5776ICE	HW1	1838	3.519	4.161	3.752
5776ICE	HW2	1839	3.576	4.034	3.811
5776ICE	MW	1840	3.542	4.077	3.743
5778ICE	OW	1841	3.535	4.397	4.057
5778ICE	HW1	1842	3.574	4.319	4.094
5778ICE	HW2	1843	3.605	4.463	4.058
5778ICE	MW	1844	3.549	4.396	4.062
5780ICE	OW	1845	4.331	3.475	3.795
5780ICE	HW1	1846	4.387	3.531	3.742
5780ICE	HW2	1847	4.353	3.497	3.886
5780ICE	MW	1848	4.341	3.485	3.800
5782ICE	OW	1849	4.057	3.541	4.391
5782ICE	HW1	1850	4.058	3.607	4.461
5782ICE	HW2	1851	4.094	3.462	4.430
5782ICE	MW	1852	4.062	3.540	4.405
5783ICE	OW	1853	3.640	3.966	3.966
5783ICE	HW1	1854	3.643	4.034	4.034
5783ICE	HW2	1855	3.732	3.947	3.947
5783ICE	MW	1856	3.652	3.972	3.972
5786ICE	OW	1857	4.066	4.066	4.060
5786ICE	HW1	1858	4.013	4.120	4.118
5786ICE	HW2	1859	4.120	4.013	4.118
5786ICE	MW	1860	4.066	4.066	4.075
5792ICE	OW	1861	4.494	3.638	3.645
5792ICE	HW1	1862	4.548	3.585	3.586
5792ICE	HW2	1863	4.441	3.692	3.586
5792ICE	MW	1864	4.494	3.638	3.630
5799ICE	OW	1865	4.070	3.540	3.730
5799ICE	HW1	1866	4.161	3.519	3.752
5799ICE	HW2	1867	4.034	3.576	3.811

5799ICE	MW	1868	4.077	3.542	3.743
5804ICE	OW	1869	3.546	4.062	4.396
5804ICE	HW1	1870	3.525	3.971	4.375
5804ICE	HW2	1871	3.465	4.098	4.432
5804ICE	MW	1872	3.533	4.055	4.398
5812ICE	OW	1873	4.221	3.911	4.228
5812ICE	HW1	1874	4.313	3.927	4.205
5812ICE	HW2	1875	4.206	3.820	4.205
5812ICE	MW	1876	4.231	3.902	4.222
5814ICE	OW	1877	3.481	4.658	3.475
5814ICE	HW1	1878	3.535	4.602	3.531
5814ICE	HW2	1879	3.391	4.635	3.497
5814ICE	MW	1880	3.476	4.648	3.485
5817ICE	OW	1881	3.476	3.483	4.649
5817ICE	HW1	1882	3.500	3.392	4.634
5817ICE	HW2	1883	3.500	3.499	4.741
5817ICE	MW	1884	3.482	3.474	4.659
5819ICE	OW	1885	4.161	3.650	4.161
5819ICE	HW1	1886	4.134	3.606	4.241
5819ICE	HW2	1887	4.241	3.606	4.134
5819ICE	MW	1888	4.168	3.639	4.168
5821ICE	OW	1889	3.904	4.221	4.221
5821ICE	HW1	1890	3.928	4.313	4.206
5821ICE	HW2	1891	3.928	4.206	4.313
5821ICE	MW	1892	3.910	4.231	4.231
5826ICE	OW	1893	4.068	3.738	3.538
5826ICE	HW1	1894	4.071	3.671	3.606
5826ICE	HW2	1895	4.160	3.758	3.519
5826ICE	MW	1896	4.080	3.732	3.544
5828ICE	OW	1897	4.649	3.476	3.483
5828ICE	HW1	1898	4.741	3.500	3.499
5828ICE	HW2	1899	4.634	3.500	3.392
5828ICE	MW	1900	4.659	3.482	3.474
5829ICE	OW	1901	3.800	4.339	3.483

5829ICE	HW1	1902	3.777	4.248	3.499
5829ICE	HW2	1903	3.777	4.355	3.392
5829ICE	MW	1904	3.794	4.330	3.474
5832ICE	OW	1905	3.483	3.800	4.339
5832ICE	HW1	1906	3.499	3.777	4.248
5832ICE	HW2	1907	3.392	3.777	4.355
5832ICE	MW	1908	3.474	3.794	4.330
5834ICE	OW	1909	4.391	3.541	4.057
5834ICE	HW1	1910	4.430	3.462	4.094
5834ICE	HW2	1911	4.461	3.607	4.058
5834ICE	MW	1912	4.405	3.540	4.062
5840ICE	OW	1913	3.475	4.331	3.795
5840ICE	HW1	1914	3.497	4.353	3.886
5840ICE	HW2	1915	3.531	4.387	3.742
5840ICE	MW	1916	3.485	4.341	3.800
5843ICE	OW	1917	3.645	3.638	4.494
5843ICE	HW1	1918	3.586	3.585	4.548
5843ICE	HW2	1919	3.586	3.692	4.441
5843ICE	MW	1920	3.630	3.638	4.494
5844ICE	OW	1921	3.735	4.076	3.535
5844ICE	HW1	1922	3.670	4.074	3.605
5844ICE	HW2	1923	3.814	4.039	3.574
5844ICE	MW	1924	3.737	4.071	3.549
8710THF	O	1925	3.210	2.235	2.354
8710THF	CA	1926	3.326	2.314	2.354
8710THF	CB	1927	3.287	2.462	2.354
8710THF	CB	1928	3.134	2.462	2.354
8710THF	CA	1929	3.094	2.314	2.354
8721THF	O	1930	4.922	3.091	3.210
8721THF	CA	1931	5.039	3.170	3.210
8721THF	CB	1932	4.999	3.318	3.210
8721THF	CB	1933	4.846	3.318	3.210
8721THF	CA	1934	4.806	3.170	3.210
8727THF	O	1935	1.926	3.519	3.638

8727THF	CA	1936	2.042	3.599	3.638
8727THF	CB	1937	2.003	3.746	3.638
8727THF	CB	1938	1.850	3.746	3.638
8727THF	CA	1939	1.810	3.599	3.638
8729THF	O	1940	2.782	1.806	2.782
8729THF	CA	1941	2.898	1.886	2.782
8729THF	CB	1942	2.859	2.034	2.782
8729THF	CB	1943	2.706	2.034	2.782
8729THF	CA	1944	2.666	1.886	2.782
8733THF	O	1945	3.638	2.663	4.494
8733THF	CA	1946	3.754	2.742	4.494
8733THF	CB	1947	3.715	2.890	4.494
8733THF	CB	1948	3.562	2.890	4.494
8733THF	CA	1949	3.522	2.742	4.494
8740THF	O	1950	3.638	1.806	3.638
8740THF	CA	1951	3.754	1.886	3.638
8740THF	CB	1952	3.715	2.034	3.638
8740THF	CB	1953	3.562	2.034	3.638
8740THF	CA	1954	3.522	1.886	3.638
8745THF	O	1955	2.354	2.235	3.210
8745THF	CA	1956	2.470	2.314	3.210
8745THF	CB	1957	2.431	2.462	3.210
8745THF	CB	1958	2.278	2.462	3.210
8745THF	CA	1959	2.238	2.314	3.210
8752THF	O	1960	3.638	2.663	2.782
8752THF	CA	1961	3.754	2.742	2.782
8752THF	CB	1962	3.715	2.890	2.782
8752THF	CB	1963	3.562	2.890	2.782
8752THF	CA	1964	3.522	2.742	2.782
8758THF	O	1965	4.494	2.663	3.638
8758THF	CA	1966	4.611	2.742	3.638
8758THF	CB	1967	4.571	2.890	3.638
8758THF	CB	1968	4.418	2.890	3.638
8758THF	CA	1969	4.378	2.742	3.638

8764THF	O	1970	3.210	1.378	3.210
8764THF	CA	1971	3.326	1.458	3.210
8764THF	CB	1972	3.287	1.606	3.210
8764THF	CB	1973	3.134	1.606	3.210
8764THF	CA	1974	3.094	1.458	3.210
8791THF	O	1975	4.066	3.947	3.210
8791THF	CA	1976	4.183	4.027	3.210
8791THF	CB	1977	4.143	4.174	3.210
8791THF	CB	1978	3.990	4.174	3.210
8791THF	CA	1979	3.950	4.027	3.210
8805THF	O	1980	4.066	3.091	4.066
8805THF	CA	1981	4.183	3.170	4.066
8805THF	CB	1982	4.143	3.318	4.066
8805THF	CB	1983	3.990	3.318	4.066
8805THF	CA	1984	3.950	3.170	4.066
8830THF	O	1985	2.782	3.519	4.494
8830THF	CA	1986	2.898	3.599	4.494
8830THF	CB	1987	2.859	3.746	4.494
8830THF	CB	1988	2.706	3.746	4.494
8830THF	CA	1989	2.666	3.599	4.494
8866THF	O	1990	1.498	3.091	3.210
8866THF	CA	1991	1.614	3.170	3.210
8866THF	CB	1992	1.575	3.318	3.210
8866THF	CB	1993	1.422	3.318	3.210
8866THF	CA	1994	1.382	3.170	3.210
8875THF	O	1995	2.782	2.663	1.926
8875THF	CA	1996	2.898	2.742	1.926
8875THF	CB	1997	2.859	2.890	1.926
8875THF	CB	1998	2.706	2.890	1.926
8875THF	CA	1999	2.666	2.742	1.926
8902THF	O	2000	4.066	2.235	3.210
8902THF	CA	2001	4.183	2.314	3.210
8902THF	CB	2002	4.143	2.462	3.210
8902THF	CB	2003	3.990	2.462	3.210

8902THF	CA	2004	3.950	2.314	3.210
8917THF	O	2005	2.354	3.947	3.210
8917THF	CA	2006	2.470	4.027	3.210
8917THF	CB	2007	2.431	4.174	3.210
8917THF	CB	2008	2.278	4.174	3.210
8917THF	CA	2009	2.238	4.027	3.210
8929THF	O	2010	2.354	3.091	4.066
8929THF	CA	2011	2.470	3.170	4.066
8929THF	CB	2012	2.431	3.318	4.066
8929THF	CB	2013	2.278	3.318	4.066
8929THF	CA	2014	2.238	3.170	4.066
8931THF	O	2015	3.638	3.519	3.638
8931THF	CA	2016	3.754	3.599	3.638
8931THF	CB	2017	3.715	3.746	3.638
8931THF	CB	2018	3.562	3.746	3.638
8931THF	CA	2019	3.522	3.599	3.638
8951THF	O	2020	2.782	2.663	3.638
8951THF	CA	2021	2.898	2.742	3.638
8951THF	CB	2022	2.859	2.890	3.638
8951THF	CB	2023	2.706	2.890	3.638
8951THF	CA	2024	2.666	2.742	3.638
8955THF	O	2025	2.354	3.091	2.354
8955THF	CA	2026	2.470	3.170	2.354
8955THF	CB	2027	2.431	3.318	2.354
8955THF	CB	2028	2.278	3.318	2.354
8955THF	CA	2029	2.238	3.170	2.354
8996THF	O	2030	1.926	2.663	2.782
8996THF	CA	2031	2.042	2.742	2.782
8996THF	CB	2032	2.003	2.890	2.782
8996THF	CB	2033	1.850	2.890	2.782
8996THF	CA	2034	1.810	2.742	2.782
9029THF	O	2035	3.638	4.375	2.782
9029THF	CA	2036	3.754	4.455	2.782
9029THF	CB	2037	3.715	4.602	2.782

9029THF	CB	2038	3.562	4.602	2.782
9029THF	CA	2039	3.522	4.455	2.782
9043THF	O	2040	4.494	3.519	2.782
9043THF	CA	2041	4.611	3.599	2.782
9043THF	CB	2042	4.571	3.746	2.782
9043THF	CB	2043	4.418	3.746	2.782
9043THF	CA	2044	4.378	3.599	2.782
9053THF	O	2045	2.782	3.519	2.782
9053THF	CA	2046	2.898	3.599	2.782
9053THF	CB	2047	2.859	3.746	2.782
9053THF	CB	2048	2.706	3.746	2.782
9053THF	CA	2049	2.666	3.599	2.782
9086THF	O	2050	3.210	3.947	4.066
9086THF	CA	2051	3.326	4.027	4.066
9086THF	CB	2052	3.287	4.174	4.066
9086THF	CB	2053	3.134	4.174	4.066
9086THF	CA	2054	3.094	4.027	4.066
9101THF	O	2055	3.210	2.235	4.066
9101THF	CA	2056	3.326	2.314	4.066
9101THF	CB	2057	3.287	2.462	4.066
9101THF	CB	2058	3.134	2.462	4.066
9101THF	CA	2059	3.094	2.314	4.066
9107THF	O	2060	3.638	3.519	1.926
9107THF	CA	2061	3.754	3.599	1.926
9107THF	CB	2062	3.715	3.746	1.926
9107THF	CB	2063	3.562	3.746	1.926
9107THF	CA	2064	3.522	3.599	1.926
9124THF	O	2065	4.066	3.091	2.354
9124THF	CA	2066	4.183	3.170	2.354
9124THF	CB	2067	4.143	3.318	2.354
9124THF	CB	2068	3.990	3.318	2.354
9124THF	CA	2069	3.950	3.170	2.354
9139THF	O	2070	3.210	3.091	3.210
9139THF	CA	2071	3.326	3.170	3.210

9139THF	CB	2072	3.287	3.318	3.210
9139THF	CB	2073	3.134	3.318	3.210
9139THF	CA	2074	3.094	3.170	3.210
9152THF	O	2075	2.782	4.375	3.638
9152THF	CA	2076	2.898	4.455	3.638
9152THF	CB	2077	2.859	4.602	3.638
9152THF	CB	2078	2.706	4.602	3.638
9152THF	CA	2079	2.666	4.455	3.638
9156THF	O	2080	3.210	3.947	2.354
9156THF	CA	2081	3.326	4.027	2.354
9156THF	CB	2082	3.287	4.174	2.354
9156THF	CB	2083	3.134	4.174	2.354
9156THF	CA	2084	3.094	4.027	2.354
9157THF	O	2085	3.210	4.803	3.210
9157THF	CA	2086	3.326	4.883	3.210
9157THF	CB	2087	3.287	5.030	3.210
9157THF	CB	2088	3.134	5.030	3.210
9157THF	CA	2089	3.094	4.883	3.210

6.84839	6.84839	6.84839	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000