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整车测试用典型工况

Typical test cycle for automotive test

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前 言

本标准依据GB/T 1.1—2009《标准化工作导则 第1部分：标准的结构和编写》给出的规则编写。

本标准的某些内容可能涉及专利，本标准的发布机构不承担识别这些专利的责任。

本标准提出单位：中国汽车工程学会汽车环境保护技术分会。

本标准归口单位：中国汽车工程学会。

本标准主要起草人：。

本标准为首次制定。

Ⅳ

1. 整车测试用典型工况

1 范围

本标准规定了整车测试用典型工况的构成。

本标准适用于M类和N类车辆。

2 规范性引用文件

下列文件对于本文件的应用是必不可少的。凡是注日期的引用文件，仅注日期的版本适用于本文件。凡是不注日期引用文件，其最新版本（包括所有的修改单）适用于本文件。

GB/T 3730.1 汽车和挂车类型的术语和定义

GB/T 15089 机动车辆及挂车分类

GB 1589-2016 汽车、挂车及汽车列车外廓尺寸、轴荷及质量限值

3 术语和定义

GB/T 3730.1、GB/T 15089和GB 1589-2016界定的以及下列术语和定义适用于本文件。

3.1 整车测试用典型工况 Typical test cycle for automotive test

在中国交通环境下，描述特定车辆（如乘用车、商用车、城市客车等）行驶特征的时间-速度曲线。

3.2 乘用车行驶工况 China light-duty vehicle test cycle for passenger car（CLTC-P）

M1类车辆使用的整车测试用典型工况。

3.3 轻型商用车行驶工况 China light-duty vehicle test cycle for commercial vehicle （CLTC-C）

N1类和最大设计总质量不超过3500kg的M2类车辆使用的整车测试用典型工况。

3.4 客车行驶工况 China heavy-duty commercial vehicle test cycle for bus and coach

最大设计总质量大于3500kg的客车使用的整车测试用典型工况总称，包含中国城市客车行驶工况（CHTC-B）和中国普通客车行驶工况（CHTC-C）。

3.5 货车行驶工况 China heavy-duty commercial vehicle test cycle for truck

最大设计总质量大于3500kg的货车使用的整车测试用典型工况总称，包含中国货车（GVW≤5500kg）行驶工况（CHTC-LT）和中国货车（GVW＞5500kg）行驶工况（CHTC-HT）。

3.6 自卸汽车行驶工况 China heavy-duty commercial vehicle test cycle for dumper（CHTC-D）

最大设计总质量大于3500kg的自卸汽车使用的整车测试用典型工况。

3.7 半挂牵引车列车行驶工况 China heavy-duty commercial vehicle test cycle for tractor-trailer（CHTC-TT）

最大设计总质量大于3500kg的半挂牵引车列车使用的整车测试用典型工况。

3.8 加速acceleration

车辆行驶过程中的加速度*a*大于等于0.15 m/s2的工况，其中加速度计算公式如下：



式中：

*i*——采样时刻，单位为秒（s）；

*v*——车辆速度，单位为千米每小时（km/h）；

T——工况总时长，单位为秒（s）。

3.9 减速 deceleration

车辆行驶过程中的加速度*a*小于等于-0.15m/s2的工况。

3.10 匀速 cruise

车辆行驶过程中的加速度*a*的绝对值小于0.15 m/s2，且车辆的行驶速度*v*大于等于0.5 km/h的工况。

3.11 怠速 idle

车辆行驶过程中的加速度*a*的绝对值小于0.15 m/s2，且车辆的行驶速度*v*小于0.5 km/h的工况。

3.12 加速比例 acceleration ratio

车辆行驶过程中的加速工况时长占总工况时长的比例。

3.13 减速比例 deceleration ratio

车辆行驶过程中的减速工况时长占总工况时长的比例。

3.14 匀速比例 cruise ratio

车辆行驶过程中的匀速工况时长占总工况时长的比例。

3.15 怠速比例 idle ratio

车辆行驶过程中的怠速工况时长占总工况时长的比例。

3.16 平均速度 average speed

车辆行驶过程中所有工况速度的平均值。

3.17 运行平均速度 average running speed

车辆行驶过程中所有非怠速工况速度的平均值。

3.18 加速段平均加速度 average acceleration

车辆行驶过程中的所有加速工况的平均加速度。

3.19 减速段平均减速度 average deceleration

车辆行驶过程中的所有减速工况的平均减速度。

3.20 相对正加速度 relative positive acceleration（RPA）

描述工况曲线动力需求的特征参数，其计算公式如下：



式中：

*i* ——采样时刻，单位为秒（s）；

*vi* ——车辆在第*i*秒的速度，单位米每秒（m/s）；

*ai+*——加速度大于0 m/s2的加速度值，单位为米每二次方秒（m/s2）；

*x* ——车辆运行里程，单位为米（m）。

4 工况构成

4.1 概述

整车测试用典型工况包括：乘用车行驶工况、轻型商用车行驶工况、客车行驶工况、货车行驶工况、自卸汽车行驶工况和半挂牵引车列车行驶工况。

4.2 乘用车行驶工况

乘用车行驶工况（CLTC-P）包括低速（1部）、中速（2部）和高速（3部）3个速度区间，工况时长共计1800秒，工况曲线如图1所示，工况曲线统计特征如表1所示。



1. CLTC-P工况曲线
2. CLTC-P工况曲线统计特征

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 | 3部 |
| 运行时间(s) | 1800 | 674 | 693 | 433 |
| 里程(km) | 14.48 | 2.45 | 5.91 | 6.12 |
| 最大速度(km/h) | 114.00 | 48.10 | 71.20 | 114.00 |
| 最大加速度(m/s2) | 1.47 | 1.47 | 1.44 | 1.06 |
| 最大减速度(m/s2) | -1.47 | -1.42 | -1.47 | -1.46 |
| 平均速度(km/h) | 28.96 | 13.09 | 30.68 | 50.90 |
| 运行平均速度(km/h) | 37.18 | 20.20 | 38.24 | 53.89 |
| 加速段平均加速度(m/s2) | 0.45 | 0.42 | 0.46 | 0.46 |
| 减速段平均减速度(m/s2) | -0.49 | -0.45 | -0.50 | -0.54 |
| 相对正加速度(m/s2) | 0.17 | 0.14 | 0.16 | 0.18 |
| 加速比例(%) | 28.78 | 22.55 | 30.45 | 35.80 |
| 减速比例(%) | 26.44 | 21.51 | 28.43 | 30.95 |
| 匀速比例(%) | 22.67 | 20.77 | 21.36 | 27.71 |
| 怠速比例(%) | 22.11 | 35.16 | 19.77 | 5.54 |

4.3 轻型商用车行驶工况

轻型商用车行驶工况（CLTC-C）包括低速（1部）、中速（2部）和高速（3部）3个速度区间，工况时长共计1800秒，工况曲线如图2所示，工况曲线统计特征如表2所示。



1. CLTC-C工况曲线
2. CLTC-C工况曲线统计特征

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 | 3部 |
| 运行时间（s） | 1800 | 735 | 615 | 450 |
| 里程（km） | 16.43 | 2.68 | 5.73 | 8.01 |
| 最大速度（km/h） | 92.00 | 45.80 | 65.00 | 92.00 |
| 最大加速度（m/s2） | 1.18 | 1.18 | 1.15 | 0.86 |
| 最大减速度（m/s2） | -1.39 | -1.22 | -1.39 | -1.10 |
| 平均速度（km/h） | 32.85 | 13.15 | 33.52 | 64.12 |
| 运行平均速度（km/h） | 41.23 | 19.56 | 40.74 | 66.48 |
| 加速段平均加速度（m/s2） | 0.47 | 0.49 | 0.49 | 0.41 |
| 减速段平均减速度（m/s2） | -0.48 | -0.45 | -0.52 | -0.44 |
| 相对正加速度（m/s2） | 0.11 | 0.15 | 0.14 | 0.08 |
| 加速比例（%） | 23.33 | 22.18 | 27.32 | 19.78 |
| 减速比例（%） | 23.67 | 23.67 | 26.67 | 19.56 |
| 匀速比例（%） | 32.67 | 21.36 | 28.29 | 57.11 |
| 怠速比例（%） | 20.33 | 32.79 | 17.72 | 3.56 |

4.4 城市客车行驶工况

城市客车行驶工况（CHTC-B）包括低速（1部）、高速（2部）2个速度区间，工况时长共计1310秒，工况曲线如图3所示，工况曲线统计特征如表3所示。



1. CHTC-B工况曲线
2. CHTC-B工况曲线统计特征

|  |  |  |  |
| --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 |
| 运行时间(s) | 1310 | 399 | 911 |
| 里程(km) | 5.49 | 0.74 | 4.75 |
| 最大速度(km/h) | 45.60 | 28.70 | 45.60 |
| 最大加速度(m/s2) | 1.26 | 0.99 | 1.26 |
| 最大减速度(m/s2) | -1.32 | -1.24 | -1.32 |
| 平均速度(km/h) | 15.08 | 6.71 | 18.75 |
| 运行平均速度(km/h) | 19.43 | 10.06 | 22.78 |
| 加速段平均加速度(m/s2) | 0.48 | 0.45 | 0.49 |
| 减速段平均减速度(m/s2) | -0.54 | -0.47 | -0.57 |
| 相对正加速度(m/s2) | 0.17 | 0.16 | 0.17 |
| 加速比例(%) | 29.16 | 22.81 | 31.83 |
| 减速比例(%) | 25.88 | 22.06 | 27.55 |
| 匀速比例(%) | 22.60 | 21.80 | 22.94 |
| 怠速比例(%) | 22.37 | 33.33 | 17.67 |

4.5 普通客车行驶工况

普通客车行驶工况（CHTC-C）包括市区（1部）、城郊（2部）和高速（3部）3个速度区间，工况时长共计1800秒，工况曲线如图4所示，工况曲线统计特征如表4所示。



1. CHTC-C工况曲线
2. CHTC-C工况曲线统计特征

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 | 3部 |
| 运行时间(s) | 1800 | 304 | 893 | 603 |
| 里程(km) | 19.62 | 0.46 | 6.67 | 12.49 |
| 最大速度(km/h) | 95.70 | 28.50 | 59.10 | 95.70 |
| 最大加速度(m/s2) | 1.25 | 1.01 | 1.25 | 1.17 |
| 最大减速度(m/s2) | -1.28 | -1.06 | -1.28 | -1.15 |
| 平均速度(km/h) | 39.24 | 5.47 | 26.88 | 74.56 |
| 运行平均速度(km/h) | 47.98 | 9.78 | 33.39 | 77.66 |
| 加速段平均加速度(m/s2) | 0.43 | 0.39 | 0.48 | 0.32 |
| 减速段平均减速度(m/s2) | -0.48 | -0.44 | -0.59 | -0.31 |
| 相对正加速度(m/s2) | 0.10 | 0.15 | 0.16 | 0.07 |
| 加速比例(%) | 26.22 | 21.05 | 32.14 | 19.40 |
| 减速比例(%) | 22.56 | 19.08 | 25.98 | 19.24 |
| 匀速比例(%) | 33.00 | 15.79 | 22.40 | 57.38 |
| 怠速比例(%) | 18.22 | 44.08 | 19.48 | 3.98 |

4.6 货车（GVW≤5500kg）行驶工况

货车（GVW≤5500kg）行驶工况（CHTC-LT）包括市区、城郊和高速3个速度区间，工况时长共计1652秒，工况曲线如图5所示，工况曲线统计特征如表5所示。



1. CHTC-LT工况曲线
2. CHTC-LT工况曲线统计特征

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 | 3部 |
| 运行时间(s) | 1652 | 309 | 874 | 469 |
| 里程(km) | 15.88 | 0.61 | 6.76 | 8.51 |
| 最大速度(km/h) | 97.00 | 25.70 | 65.40 | 97.00 |
| 最大加速度(m/s2) | 1.14 | 0.90 | 1.14 | 0.85 |
| 最大减速度(m/s2) | -1.17 | -1.17 | -1.17 | -1.13 |
| 平均速度(km/h) | 34.62 | 7.14 | 27.85 | 65.32 |
| 运行平均速度(km/h) | 39.49 | 9.89 | 31.33 | 69.00 |
| 加速段平均加速度(m/s2) | 0.34 | 0.31 | 0.36 | 0.32 |
| 减速段平均减速度(m/s2) | -0.41 | -0.34 | -0.43 | -0.43 |
| 相对正加速度(m/s2) | 0.10 | 0.10 | 0.12 | 0.09 |
| 加速比例(%) | 27.78 | 23.30 | 29.86 | 26.01 |
| 减速比例(%) | 23.55 | 20.39 | 26.54 | 20.04 |
| 匀速比例(%) | 36.32 | 28.48 | 32.49 | 48.61 |
| 怠速比例(%) | 12.35 | 27.83 | 11.10 | 5.33 |

4.7 货车（GVW＞5500kg）行驶工况

货车（GVW＞5500kg）行驶工况（CHTC-HT）包括市区（1部）、城郊（2部）和高速（3部）3个速度区间，工况时长共计1800秒，工况曲线如6所示，工况曲线统计特征如表6所示。



1. CHTC-HT工况曲线
2. CHTC-HT工况曲线统计特征

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 | 3部 |
| 运行时间(s) | 1800 | 342 | 988 | 470 |
| 里程(km) | 17.33 | 0.49 | 8.59 | 8.25 |
| 最大速度(km/h) | 88.50 | 21.40 | 64.00 | 88.50 |
| 最大加速度(m/s2) | 1.14 | 0.89 | 1.14 | 0.85 |
| 最大减速度(m/s2) | -1.21 | -1.04 | -1.21 | -1.10 |
| 平均速度(km/h) | 34.65 | 5.13 | 31.28 | 63.22 |
| 运行平均速度(km/h) | 40.16 | 8.90 | 34.04 | 66.92 |
| 加速段平均加速度(m/s2) | 0.31 | 0.32 | 0.31 | 0.31 |
| 减速段平均减速度(m/s2) | -0.45 | -0.34 | -0.49 | -0.44 |
| 相对正加速度(m/s2) | 0.09 | 0.08 | 0.10 | 0.08 |
| 加速比例(%) | 24.22 | 13.16 | 27.94 | 23.62 |
| 减速比例(%) | 18.06 | 13.45 | 19.64 | 18.09 |
| 匀速比例(%) | 44.00 | 30.99 | 44.33 | 52.77 |
| 怠速比例(%) | 13.72 | 42.40 | 8.10 | 5.53 |

4.8 自卸汽车行驶工况

自卸汽车行驶工况（CHTC-D）包括低速（1部）和高速（2部）2个速度区间，工况时长共计1300秒，工况曲线如7所示，工况曲线统计特征如表7所示。



1. CHTC-D工况曲线
2. CHTC-D工况曲线统计特征

|  |  |  |  |
| --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 |
| 运行时间(s) | 1300 | 540 | 760 |
| 里程(km) | 8.37 | 0.98 | 7.40 |
| 最大速度(km/h) | 71.40 | 23.70 | 71.40 |
| 最大加速度(m/s2) | 1.24 | 0.75 | 1.24 |
| 最大减速度(m/s2) | -1.08 | -1.08 | -1.03 |
| 平均速度(km/h) | 23.19 | 6.52 | 35.03 |
| 运行平均速度(km/h) | 29.07 | 11.04 | 37.13 |
| 加速段平均加速度(m/s2) | 0.36 | 0.36 | 0.36 |
| 减速段平均减速度(m/s2) | -0.40 | -0.34 | -0.43 |
| 相对正加速度(m/s2) | 0.11 | 0.10 | 0.11 |
| 加速比例(%) | 24.00 | 14.81 | 30.39 |
| 减速比例(%) | 22.08 | 16.48 | 26.05 |
| 匀速比例(%) | 33.69 | 27.78 | 37.89 |
| 怠速比例(%) | 20.23 | 40.93 | 5.66 |

4.9 半挂牵引车列车行驶工况

半挂牵引车列车行驶工况（CHTC-TT）包括低速（1部）和高速（2部）2个速度区间，工况时长共计1800秒，工况曲线如图8所示，工况曲线统计特征如表8所示。



1. CHTC-TT工况曲线
2. CHTC-TT工况曲线统计特征

|  |  |  |  |
| --- | --- | --- | --- |
| 特征 | 总体 | 1部 | 2部 |
| 运行时间(s) | 1800 | 473 | 1327 |
| 里程(km) | 23.22 | 1.92 | 21.30 |
| 最大速度(km/h) | 88.00 | 42.20 | 88.00 |
| 最大加速度(m/s2) | 0.81 | 0.76 | 0.81 |
| 最大减速度(m/s2) | -1.04 | -0.94 | -1.04 |
| 平均速度(km/h) | 46.44 | 14.61 | 57.79 |
| 运行平均速度(km/h) | 50.82 | 18.63 | 60.24 |
| 加速段平均加速度(m/s2) | 0.28 | 0.28 | 0.29 |
| 减速段平均减速度(m/s2) | -0.36 | -0.38 | -0.35 |
| 相对正加速度(m/s2) | 0.06 | 0.09 | 0.05 |
| 加速比例(%) | 17.44 | 23.47 | 15.22 |
| 减速比例(%) | 15.78 | 18.60 | 14.77 |
| 匀速比例(%) | 58.17 | 36.36 | 65.94 |
| 怠速比例(%) | 8.61 | 21.56 | 4.07 |

1. （规范性附录）  
   整车测试用典型工况数据
   1. CLTC-P工况数据见表A.1。
   2. CLTC-P工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 33 | 31.2 | 66 | 23.2 | 99 | 0.0 |
| 1 | 0.0 | 34 | 32.3 | 67 | 22.1 | 100 | 0.0 |
| 2 | 0.0 | 35 | 33.3 | 68 | 21.2 | 101 | 0.0 |
| 3 | 0.0 | 36 | 33.4 | 69 | 20.0 | 102 | 1.4 |
| 4 | 0.0 | 37 | 33.6 | 70 | 18.3 | 103 | 2.9 |
| 5 | 0.0 | 38 | 33.4 | 71 | 15.0 | 104 | 4.2 |
| 6 | 0.0 | 39 | 33.3 | 72 | 10.0 | 105 | 5.3 |
| 7 | 0.0 | 40 | 33.1 | 73 | 5.7 | 106 | 6.4 |
| 8 | 0.0 | 41 | 33.3 | 74 | 2.1 | 107 | 7.6 |
| 9 | 0.0 | 42 | 33.5 | 75 | 0.0 | 108 | 8.7 |
| 10 | 0.0 | 43 | 33.0 | 76 | 0.0 | 109 | 9.7 |
| 11 | 0.0 | 44 | 32.8 | 77 | 0.0 | 110 | 10.9 |
| 12 | 0.0 | 45 | 32.6 | 78 | 0.0 | 111 | 11.8 |
| 13 | 0.0 | 46 | 32.7 | 79 | 0.0 | 112 | 12.3 |
| 14 | 0.0 | 47 | 32.3 | 80 | 0.0 | 113 | 13.1 |
| 15 | 3.2 | 48 | 31.9 | 81 | 0.0 | 114 | 14.7 |
| 16 | 5.4 | 49 | 31.3 | 82 | 0.0 | 115 | 16.9 |
| 17 | 8.5 | 50 | 30.8 | 83 | 0.0 | 116 | 18.9 |
| 18 | 11.5 | 51 | 30.6 | 84 | 0.0 | 117 | 20.2 |
| 19 | 14.1 | 52 | 29.9 | 85 | 0.0 | 118 | 20.7 |
| 20 | 16.2 | 53 | 29.1 | 86 | 0.0 | 119 | 20.8 |
| 21 | 18.7 | 54 | 27.0 | 87 | 0.0 | 120 | 20.6 |
| 22 | 19.9 | 55 | 25.0 | 88 | 0.0 | 121 | 19.9 |
| 23 | 19.0 | 56 | 22.8 | 89 | 0.0 | 122 | 19.3 |
| 24 | 20.6 | 57 | 22.1 | 90 | 0.0 | 123 | 19.1 |
| 25 | 20.7 | 58 | 21.3 | 91 | 0.0 | 124 | 19.3 |
| 26 | 24.1 | 59 | 20.3 | 92 | 0.0 | 125 | 19.9 |
| 27 | 25.8 | 60 | 21.2 | 93 | 0.0 | 126 | 20.9 |
| 28 | 27.4 | 61 | 22.2 | 94 | 0.0 | 127 | 22.0 |
| 29 | 28.9 | 62 | 21.6 | 95 | 0.0 | 128 | 23.2 |
| 30 | 30.1 | 63 | 22.1 | 96 | 0.0 | 129 | 24.3 |
| 31 | 31.3 | 64 | 23.2 | 97 | 0.0 | 130 | 25.5 |
| 32 | 31.2 | 65 | 23.8 | 98 | 0.0 | 131 | 26.4 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 132 | 26.9 | 170 | 10.6 | 208 | 17.0 | 246 | 11.6 |
| 133 | 27.0 | 171 | 10.5 | 209 | 16.3 | 247 | 9.1 |
| 134 | 26.8 | 172 | 10.8 | 210 | 15.5 | 248 | 7.0 |
| 135 | 26.6 | 173 | 11.2 | 211 | 14.2 | 249 | 5.6 |
| 136 | 26.5 | 174 | 11.4 | 212 | 12.7 | 250 | 4.8 |
| 137 | 26.6 | 175 | 11.5 | 213 | 11.4 | 251 | 4.1 |
| 138 | 27.0 | 176 | 11.9 | 214 | 10.7 | 252 | 3.3 |
| 139 | 27.5 | 177 | 12.4 | 215 | 10.4 | 253 | 2.5 |
| 140 | 27.8 | 178 | 13.0 | 216 | 10.5 | 254 | 1.5 |
| 141 | 27.6 | 179 | 13.5 | 217 | 10.9 | 255 | 0.0 |
| 142 | 26.6 | 180 | 13.7 | 218 | 11.6 | 256 | 0.0 |
| 143 | 25.2 | 181 | 13.8 | 219 | 12.0 | 257 | 0.0 |
| 144 | 23.6 | 182 | 13.7 | 220 | 12.1 | 258 | 0.0 |
| 145 | 22.1 | 183 | 13.3 | 221 | 12.2 | 259 | 0.0 |
| 146 | 20.6 | 184 | 12.4 | 222 | 13.0 | 260 | 0.0 |
| 147 | 19.3 | 185 | 11.4 | 223 | 15.2 | 261 | 0.0 |
| 148 | 18.7 | 186 | 10.6 | 224 | 18.2 | 262 | 0.0 |
| 149 | 18.7 | 187 | 10.4 | 225 | 21.0 | 263 | 0.0 |
| 150 | 19.1 | 188 | 10.5 | 226 | 23.1 | 264 | 0.0 |
| 151 | 19.5 | 189 | 10.9 | 227 | 24.3 | 265 | 0.0 |
| 152 | 19.5 | 190 | 11.6 | 228 | 24.6 | 266 | 0.0 |
| 153 | 18.9 | 191 | 12.4 | 229 | 24.8 | 267 | 0.0 |
| 154 | 17.7 | 192 | 12.9 | 230 | 25.2 | 268 | 0.0 |
| 155 | 16.5 | 193 | 13.2 | 231 | 26.2 | 269 | 0.0 |
| 156 | 15.7 | 194 | 13.4 | 232 | 27.5 | 270 | 0.0 |
| 157 | 15.5 | 195 | 13.5 | 233 | 28.5 | 271 | 0.0 |
| 158 | 15.5 | 196 | 13.6 | 234 | 29.0 | 272 | 0.0 |
| 159 | 15.6 | 197 | 13.6 | 235 | 29.3 | 273 | 0.0 |
| 160 | 16.0 | 198 | 13.5 | 236 | 29.4 | 274 | 1.1 |
| 161 | 17.0 | 199 | 13.5 | 237 | 29.2 | 275 | 3.2 |
| 162 | 17.9 | 200 | 13.5 | 238 | 28.7 | 276 | 5.5 |
| 163 | 18.3 | 201 | 14.0 | 239 | 27.9 | 277 | 7.8 |
| 164 | 18.0 | 202 | 15.2 | 240 | 26.8 | 278 | 9.3 |
| 165 | 17.1 | 203 | 16.5 | 241 | 25.1 | 279 | 9.6 |
| 166 | 15.4 | 204 | 17.3 | 242 | 23.2 | 280 | 10.4 |
| 167 | 13.5 | 205 | 17.6 | 243 | 21.2 | 281 | 11.3 |
| 168 | 12.0 | 206 | 17.6 | 244 | 18.5 | 282 | 11.4 |
| 169 | 11.1 | 207 | 17.5 | 245 | 14.9 | 283 | 9.8 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 284 | 9.6 | 322 | 0.0 | 360 | 0.0 | 398 | 0.0 |
| 285 | 7.1 | 323 | 0.0 | 361 | 0.0 | 399 | 0.0 |
| 286 | 5.5 | 324 | 0.0 | 362 | 0.0 | 400 | 0.0 |
| 287 | 4.0 | 325 | 3.6 | 363 | 0.0 | 401 | 2.0 |
| 288 | 0.7 | 326 | 6.2 | 364 | 0.0 | 402 | 4.0 |
| 289 | 0.0 | 327 | 9.7 | 365 | 0.0 | 403 | 5.7 |
| 290 | 0.0 | 328 | 11.0 | 366 | 0.0 | 404 | 7.5 |
| 291 | 0.0 | 329 | 12.2 | 367 | 0.0 | 405 | 8.8 |
| 292 | 0.0 | 330 | 12.5 | 368 | 0.0 | 406 | 9.2 |
| 293 | 0.0 | 331 | 12.6 | 369 | 0.0 | 407 | 10.9 |
| 294 | 0.0 | 332 | 12.5 | 370 | 0.0 | 408 | 11.8 |
| 295 | 0.0 | 333 | 11.6 | 371 | 0.0 | 409 | 12.6 |
| 296 | 0.0 | 334 | 10.3 | 372 | 0.0 | 410 | 13.5 |
| 297 | 0.0 | 335 | 8.8 | 373 | 0.0 | 411 | 14.0 |
| 298 | 0.0 | 336 | 8.3 | 374 | 0.0 | 412 | 14.6 |
| 299 | 0.0 | 337 | 7.4 | 375 | 0.0 | 413 | 15.3 |
| 300 | 0.0 | 338 | 6.6 | 376 | 0.0 | 414 | 16.2 |
| 301 | 0.0 | 339 | 6.8 | 377 | 0.0 | 415 | 16.8 |
| 302 | 0.0 | 340 | 8.1 | 378 | 0.0 | 416 | 17.1 |
| 303 | 0.0 | 341 | 10.1 | 379 | 0.0 | 417 | 17.5 |
| 304 | 0.0 | 342 | 10.6 | 380 | 0.0 | 418 | 17.5 |
| 305 | 0.0 | 343 | 10.4 | 381 | 0.0 | 419 | 17.6 |
| 306 | 0.0 | 344 | 10.0 | 382 | 0.0 | 420 | 17.0 |
| 307 | 0.0 | 345 | 9.4 | 383 | 0.0 | 421 | 15.1 |
| 308 | 0.0 | 346 | 8.6 | 384 | 0.0 | 422 | 13.3 |
| 309 | 0.0 | 347 | 5.7 | 385 | 0.0 | 423 | 11.8 |
| 310 | 0.0 | 348 | 4.6 | 386 | 0.0 | 424 | 10.6 |
| 311 | 0.0 | 349 | 0.0 | 387 | 0.0 | 425 | 9.6 |
| 312 | 0.0 | 350 | 0.0 | 388 | 0.0 | 426 | 8.6 |
| 313 | 0.0 | 351 | 0.0 | 389 | 0.0 | 427 | 7.1 |
| 314 | 0.0 | 352 | 0.0 | 390 | 0.0 | 428 | 5.8 |
| 315 | 0.0 | 353 | 0.0 | 391 | 0.0 | 429 | 4.9 |
| 316 | 0.0 | 354 | 0.0 | 392 | 0.0 | 430 | 3.9 |
| 317 | 0.0 | 355 | 0.0 | 393 | 0.0 | 431 | 6.3 |
| 318 | 0.0 | 356 | 0.0 | 394 | 0.0 | 432 | 4.6 |
| 319 | 0.0 | 357 | 0.0 | 395 | 0.0 | 433 | 2.1 |
| 320 | 0.0 | 358 | 0.0 | 396 | 0.0 | 434 | 0.0 |
| 321 | 0.0 | 359 | 0.0 | 397 | 0.0 | 435 | 0.0 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 436 | 0.0 | 474 | 0.0 | 512 | 0.0 | 550 | 48.1 |
| 437 | 0.0 | 475 | 0.0 | 513 | 0.0 | 551 | 48.0 |
| 438 | 0.0 | 476 | 0.0 | 514 | 0.0 | 552 | 46.8 |
| 439 | 0.0 | 477 | 0.0 | 515 | 0.0 | 553 | 46.0 |
| 440 | 0.0 | 478 | 0.0 | 516 | 0.0 | 554 | 44.5 |
| 441 | 0.0 | 479 | 0.0 | 517 | 0.0 | 555 | 42.0 |
| 442 | 0.0 | 480 | 0.0 | 518 | 0.0 | 556 | 39.9 |
| 443 | 0.0 | 481 | 0.0 | 519 | 0.0 | 557 | 38.3 |
| 444 | 0.0 | 482 | 0.0 | 520 | 5.4 | 558 | 35.5 |
| 445 | 0.0 | 483 | 0.0 | 521 | 10.6 | 559 | 31.4 |
| 446 | 0.0 | 484 | 0.0 | 522 | 14.5 | 560 | 28.1 |
| 447 | 0.0 | 485 | 0.0 | 523 | 15.0 | 561 | 24.1 |
| 448 | 0.0 | 486 | 0.0 | 524 | 16.4 | 562 | 18.1 |
| 449 | 0.0 | 487 | 0.0 | 525 | 19.7 | 563 | 14.2 |
| 450 | 0.0 | 488 | 0.0 | 526 | 24.8 | 564 | 10.5 |
| 451 | 0.0 | 489 | 0.0 | 527 | 26.6 | 565 | 6.3 |
| 452 | 0.0 | 490 | 0.0 | 528 | 26.1 | 566 | 4.2 |
| 453 | 0.0 | 491 | 0.0 | 529 | 27.1 | 567 | 2.9 |
| 454 | 0.0 | 492 | 0.0 | 530 | 30.2 | 568 | 1.6 |
| 455 | 0.0 | 493 | 0.0 | 531 | 33.5 | 569 | 0.0 |
| 456 | 0.0 | 494 | 0.0 | 532 | 34.5 | 570 | 0.0 |
| 457 | 0.0 | 495 | 0.0 | 533 | 34.0 | 571 | 0.0 |
| 458 | 0.0 | 496 | 0.0 | 534 | 33.5 | 572 | 0.0 |
| 459 | 0.0 | 497 | 0.0 | 535 | 34.5 | 573 | 0.0 |
| 460 | 0.0 | 498 | 0.0 | 536 | 36.9 | 574 | 0.0 |
| 461 | 0.0 | 499 | 0.0 | 537 | 39.2 | 575 | 0.0 |
| 462 | 0.0 | 500 | 0.0 | 538 | 41.5 | 576 | 0.0 |
| 463 | 0.0 | 501 | 0.0 | 539 | 43.4 | 577 | 0.0 |
| 464 | 0.0 | 502 | 0.0 | 540 | 44.4 | 578 | 0.0 |
| 465 | 0.0 | 503 | 0.0 | 541 | 45.2 | 579 | 4.3 |
| 466 | 0.0 | 504 | 0.0 | 542 | 46.1 | 580 | 6.1 |
| 467 | 0.0 | 505 | 0.0 | 543 | 46.1 | 581 | 7.8 |
| 468 | 0.0 | 506 | 0.0 | 544 | 45.8 | 582 | 10.8 |
| 469 | 0.0 | 507 | 0.0 | 545 | 45.5 | 583 | 14.5 |
| 470 | 0.0 | 508 | 0.0 | 546 | 46.1 | 584 | 15.2 |
| 471 | 0.0 | 509 | 0.0 | 547 | 46.5 | 585 | 17.4 |
| 472 | 0.0 | 510 | 0.0 | 548 | 47.0 | 586 | 20.9 |
| 473 | 0.0 | 511 | 0.0 | 549 | 47.5 | 587 | 22.5 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 588 | 22.5 | 626 | 39.7 | 664 | 11.1 | 702 | 13.9 |
| 589 | 22.4 | 627 | 38.5 | 665 | 9.9 | 703 | 13.0 |
| 590 | 22.4 | 628 | 37.6 | 666 | 8.1 | 704 | 14.1 |
| 591 | 23.3 | 629 | 37.1 | 667 | 5.2 | 705 | 18.1 |
| 592 | 23.7 | 630 | 37.1 | 668 | 2.1 | 706 | 22.3 |
| 593 | 24.2 | 631 | 37.2 | 669 | 0.0 | 707 | 25.4 |
| 594 | 26.9 | 632 | 37.9 | 670 | 0.0 | 708 | 27.0 |
| 595 | 30.0 | 633 | 37.8 | 671 | 0.0 | 709 | 29.0 |
| 596 | 33.1 | 634 | 36.7 | 672 | 0.0 | 710 | 31.2 |
| 597 | 34.1 | 635 | 36.6 | 673 | 0.0 | 711 | 33.0 |
| 598 | 34.4 | 636 | 37.2 | 674 | 0.0 | 712 | 34.6 |
| 599 | 36.5 | 637 | 36.2 | 675 | 0.0 | 713 | 36.5 |
| 600 | 37.5 | 638 | 36.6 | 676 | 0.0 | 714 | 38.6 |
| 601 | 37.2 | 639 | 36.1 | 677 | 0.0 | 715 | 41.0 |
| 602 | 36.7 | 640 | 35.1 | 678 | 0.0 | 716 | 43.1 |
| 603 | 37.2 | 641 | 34.1 | 679 | 0.0 | 717 | 44.9 |
| 604 | 37.9 | 642 | 30.9 | 680 | 0.0 | 718 | 47.0 |
| 605 | 39.6 | 643 | 23.9 | 681 | 0.0 | 719 | 49.0 |
| 606 | 40.0 | 644 | 20.9 | 682 | 0.0 | 720 | 51.3 |
| 607 | 41.1 | 645 | 20.4 | 683 | 0.0 | 721 | 55.5 |
| 608 | 41.8 | 646 | 19.9 | 684 | 0.0 | 722 | 57.8 |
| 609 | 43.2 | 647 | 20.7 | 685 | 5.6 | 723 | 60.1 |
| 610 | 43.8 | 648 | 22.8 | 686 | 7.9 | 724 | 61.0 |
| 611 | 44.2 | 649 | 25.2 | 687 | 10.9 | 725 | 61.7 |
| 612 | 43.9 | 650 | 26.5 | 688 | 11.5 | 726 | 61.9 |
| 613 | 44.3 | 651 | 26.4 | 689 | 12.9 | 727 | 61.0 |
| 614 | 44.7 | 652 | 25.7 | 690 | 14.5 | 728 | 60.0 |
| 615 | 45.2 | 653 | 24.7 | 691 | 15.0 | 729 | 59.0 |
| 616 | 44.8 | 654 | 22.6 | 692 | 14.5 | 730 | 58.0 |
| 617 | 44.2 | 655 | 20.9 | 693 | 13.7 | 731 | 57.1 |
| 618 | 44.2 | 656 | 20.1 | 694 | 14.1 | 732 | 56.1 |
| 619 | 44.0 | 657 | 18.7 | 695 | 14.7 | 733 | 52.9 |
| 620 | 42.8 | 658 | 16.8 | 696 | 14.8 | 734 | 51.2 |
| 621 | 42.7 | 659 | 15.3 | 697 | 14.9 | 735 | 47.5 |
| 622 | 43.2 | 660 | 14.3 | 698 | 15.2 | 736 | 43.6 |
| 623 | 42.1 | 661 | 13.6 | 699 | 15.2 | 737 | 40.1 |
| 624 | 41.5 | 662 | 12.9 | 700 | 15.4 | 738 | 37.4 |
| 625 | 40.6 | 663 | 12.2 | 701 | 15.0 | 739 | 36.9 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 740 | 37.0 | 778 | 15.1 | 816 | 41.2 | 854 | 59.3 |
| 741 | 37.0 | 779 | 19.4 | 817 | 44.1 | 855 | 60.6 |
| 742 | 36.3 | 780 | 19.3 | 818 | 45.4 | 856 | 61.2 |
| 743 | 35.5 | 781 | 18.1 | 819 | 46.5 | 857 | 61.3 |
| 744 | 33.4 | 782 | 18.8 | 820 | 46.9 | 858 | 61.4 |
| 745 | 30.0 | 783 | 20.8 | 821 | 47.4 | 859 | 61.9 |
| 746 | 26.2 | 784 | 22.7 | 822 | 47.8 | 860 | 62.0 |
| 747 | 23.5 | 785 | 24.5 | 823 | 48.2 | 861 | 62.0 |
| 748 | 19.6 | 786 | 25.8 | 824 | 48.2 | 862 | 61.9 |
| 749 | 14.8 | 787 | 27.9 | 825 | 42.5 | 863 | 55.2 |
| 750 | 10.6 | 788 | 30.7 | 826 | 42.8 | 864 | 54.3 |
| 751 | 7.2 | 789 | 32.9 | 827 | 42.5 | 865 | 49.1 |
| 752 | 3.5 | 790 | 32.0 | 828 | 43.0 | 866 | 54.5 |
| 753 | 0.0 | 791 | 31.6 | 829 | 44.2 | 867 | 51.6 |
| 754 | 0.0 | 792 | 33.4 | 830 | 45.1 | 868 | 50.3 |
| 755 | 0.0 | 793 | 35.1 | 831 | 45.9 | 869 | 48.7 |
| 756 | 0.0 | 794 | 37.0 | 832 | 46.7 | 870 | 48.6 |
| 757 | 0.0 | 795 | 38.7 | 833 | 47.1 | 871 | 47.8 |
| 758 | 0.0 | 796 | 38.5 | 834 | 47.5 | 872 | 47.4 |
| 759 | 0.0 | 797 | 37.3 | 835 | 48.6 | 873 | 47.9 |
| 760 | 0.0 | 798 | 37.5 | 836 | 48.7 | 874 | 47.2 |
| 761 | 0.0 | 799 | 37.5 | 837 | 48.8 | 875 | 45.7 |
| 762 | 0.0 | 800 | 35.2 | 838 | 49.1 | 876 | 45.2 |
| 763 | 0.0 | 801 | 33.5 | 839 | 49.1 | 877 | 45.4 |
| 764 | 0.0 | 802 | 32.6 | 840 | 49.3 | 878 | 45.1 |
| 765 | 0.0 | 803 | 31.9 | 841 | 49.4 | 879 | 43.5 |
| 766 | 0.0 | 804 | 31.0 | 842 | 49.4 | 880 | 42.8 |
| 767 | 0.0 | 805 | 31.8 | 843 | 49.6 | 881 | 42.0 |
| 768 | 0.0 | 806 | 33.3 | 844 | 50.0 | 882 | 41.7 |
| 769 | 0.0 | 807 | 35.3 | 845 | 50.5 | 883 | 40.9 |
| 770 | 0.0 | 808 | 36.2 | 846 | 50.4 | 884 | 40.1 |
| 771 | 0.0 | 809 | 37.5 | 847 | 52.4 | 885 | 40.0 |
| 772 | 0.0 | 810 | 37.6 | 848 | 52.5 | 886 | 38.7 |
| 773 | 0.0 | 811 | 37.7 | 849 | 53.8 | 887 | 38.0 |
| 774 | 6.4 | 812 | 36.7 | 850 | 55.0 | 888 | 37.4 |
| 775 | 10.4 | 813 | 36.2 | 851 | 56.2 | 889 | 36.8 |
| 776 | 9.4 | 814 | 37.9 | 852 | 57.4 | 890 | 36.4 |
| 777 | 11.1 | 815 | 39.6 | 853 | 58.6 | 891 | 35.2 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 892 | 34.3 | 930 | 0.0 | 968 | 23.0 | 1006 | 59.0 |
| 893 | 34.0 | 931 | 0.0 | 969 | 22.0 | 1007 | 59.3 |
| 894 | 33.9 | 932 | 0.0 | 970 | 23.1 | 1008 | 59.3 |
| 895 | 34.0 | 933 | 0.0 | 971 | 25.9 | 1009 | 59.0 |
| 896 | 34.0 | 934 | 0.0 | 972 | 28.4 | 1010 | 58.8 |
| 897 | 32.7 | 935 | 0.0 | 973 | 29.8 | 1011 | 56.8 |
| 898 | 31.8 | 936 | 0.0 | 974 | 32.1 | 1012 | 55.9 |
| 899 | 30.8 | 937 | 0.0 | 975 | 34.0 | 1013 | 55.0 |
| 900 | 29.8 | 938 | 0.0 | 976 | 35.8 | 1014 | 54.6 |
| 901 | 28.7 | 939 | 0.0 | 977 | 37.8 | 1015 | 54.2 |
| 902 | 26.9 | 940 | 0.0 | 978 | 39.2 | 1016 | 53.3 |
| 903 | 26.2 | 941 | 0.0 | 979 | 40.6 | 1017 | 51.3 |
| 904 | 24.6 | 942 | 0.0 | 980 | 41.4 | 1018 | 50.0 |
| 905 | 23.2 | 943 | 0.0 | 981 | 41.8 | 1019 | 47.5 |
| 906 | 22.4 | 944 | 0.0 | 982 | 44.0 | 1020 | 45.0 |
| 907 | 21.5 | 945 | 0.0 | 983 | 48.4 | 1021 | 42.4 |
| 908 | 20.2 | 946 | 0.0 | 984 | 50.5 | 1022 | 40.8 |
| 909 | 19.5 | 947 | 0.0 | 985 | 51.2 | 1023 | 41.2 |
| 910 | 18.7 | 948 | 0.0 | 986 | 52.4 | 1024 | 42.2 |
| 911 | 18.1 | 949 | 0.0 | 987 | 53.4 | 1025 | 43.4 |
| 912 | 16.9 | 950 | 0.0 | 988 | 54.3 | 1026 | 43.5 |
| 913 | 15.5 | 951 | 0.0 | 989 | 56.6 | 1027 | 45.2 |
| 914 | 12.1 | 952 | 0.0 | 990 | 58.3 | 1028 | 45.9 |
| 915 | 8.7 | 953 | 0.0 | 991 | 59.7 | 1029 | 47.1 |
| 916 | 7.6 | 954 | 0.0 | 992 | 61.6 | 1030 | 48.0 |
| 917 | 5.9 | 955 | 0.0 | 993 | 62.8 | 1031 | 47.5 |
| 918 | 3.7 | 956 | 0.0 | 994 | 62.7 | 1032 | 48.3 |
| 919 | 1.8 | 957 | 3.0 | 995 | 63.2 | 1033 | 50.0 |
| 920 | 0.0 | 958 | 9.9 | 996 | 63.9 | 1034 | 51.2 |
| 921 | 0.0 | 959 | 12.2 | 997 | 63.9 | 1035 | 52.5 |
| 922 | 0.0 | 960 | 14.0 | 998 | 63.8 | 1036 | 53.8 |
| 923 | 0.0 | 961 | 17.0 | 999 | 63.8 | 1037 | 54.5 |
| 924 | 0.0 | 962 | 17.6 | 1000 | 63.7 | 1038 | 55.0 |
| 925 | 0.0 | 963 | 18.2 | 1001 | 63.8 | 1039 | 58.1 |
| 926 | 0.0 | 964 | 20.3 | 1002 | 62.4 | 1040 | 58.8 |
| 927 | 0.0 | 965 | 22.4 | 1003 | 61.5 | 1041 | 59.7 |
| 928 | 0.0 | 966 | 23.6 | 1004 | 60.5 | 1042 | 60.6 |
| 929 | 0.0 | 967 | 23.7 | 1005 | 59.8 | 1043 | 61.4 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1044 | 63.2 | 1082 | 49.4 | 1120 | 58.1 | 1158 | 42.8 |
| 1045 | 64.4 | 1083 | 49.1 | 1121 | 58.5 | 1159 | 46.5 |
| 1046 | 65.0 | 1084 | 50.6 | 1122 | 58.0 | 1160 | 49.3 |
| 1047 | 65.1 | 1085 | 51.0 | 1123 | 52.2 | 1161 | 51.8 |
| 1048 | 65.6 | 1086 | 50.6 | 1124 | 49.7 | 1162 | 52.1 |
| 1049 | 66.1 | 1087 | 50.0 | 1125 | 48.1 | 1163 | 52.6 |
| 1050 | 67.5 | 1088 | 49.2 | 1126 | 43.5 | 1164 | 54.2 |
| 1051 | 68.4 | 1089 | 48.6 | 1127 | 37.5 | 1165 | 54.7 |
| 1052 | 69.2 | 1090 | 48.5 | 1128 | 33.8 | 1166 | 58.0 |
| 1053 | 70.1 | 1091 | 48.4 | 1129 | 29.2 | 1167 | 59.7 |
| 1054 | 70.5 | 1092 | 48.4 | 1130 | 26.3 | 1168 | 59.6 |
| 1055 | 70.6 | 1093 | 48.8 | 1131 | 28.3 | 1169 | 59.5 |
| 1056 | 71.0 | 1094 | 49.5 | 1132 | 30.4 | 1170 | 58.9 |
| 1057 | 71.2 | 1095 | 50.2 | 1133 | 31.2 | 1171 | 57.8 |
| 1058 | 70.6 | 1096 | 50.2 | 1134 | 32.0 | 1172 | 57.7 |
| 1059 | 69.9 | 1097 | 50.4 | 1135 | 34.4 | 1173 | 56.5 |
| 1060 | 70.3 | 1098 | 51.7 | 1136 | 35.8 | 1174 | 56.3 |
| 1061 | 69.9 | 1099 | 52.9 | 1137 | 37.3 | 1175 | 55.8 |
| 1062 | 69.6 | 1100 | 54.0 | 1138 | 36.9 | 1176 | 55.6 |
| 1063 | 67.0 | 1101 | 54.9 | 1139 | 34.8 | 1177 | 54.5 |
| 1064 | 65.9 | 1102 | 55.0 | 1140 | 33.4 | 1178 | 54.0 |
| 1065 | 64.8 | 1103 | 56.0 | 1141 | 32.0 | 1179 | 53.2 |
| 1066 | 64.3 | 1104 | 56.2 | 1142 | 28.6 | 1180 | 53.3 |
| 1067 | 63.9 | 1105 | 58.3 | 1143 | 25.1 | 1181 | 53.3 |
| 1068 | 63.2 | 1106 | 59.1 | 1144 | 22.5 | 1182 | 53.1 |
| 1069 | 62.2 | 1107 | 59.7 | 1145 | 21.4 | 1183 | 52.4 |
| 1070 | 61.7 | 1108 | 59.7 | 1146 | 19.5 | 1184 | 52.2 |
| 1071 | 61.7 | 1109 | 59.8 | 1147 | 16.7 | 1185 | 51.2 |
| 1072 | 61.3 | 1110 | 60.1 | 1148 | 13.5 | 1186 | 48.8 |
| 1073 | 59.5 | 1111 | 54.4 | 1149 | 13.0 | 1187 | 46.2 |
| 1074 | 58.5 | 1112 | 54.5 | 1150 | 16.2 | 1188 | 44.7 |
| 1075 | 57.5 | 1113 | 54.6 | 1151 | 20.5 | 1189 | 43.2 |
| 1076 | 56.1 | 1114 | 55.7 | 1152 | 25.4 | 1190 | 40.5 |
| 1077 | 54.8 | 1115 | 56.1 | 1153 | 29.1 | 1191 | 37.9 |
| 1078 | 53.6 | 1116 | 58.6 | 1154 | 32.6 | 1192 | 35.4 |
| 1079 | 52.2 | 1117 | 58.5 | 1155 | 34.3 | 1193 | 34.0 |
| 1080 | 51.0 | 1118 | 58.2 | 1156 | 35.7 | 1194 | 33.4 |
| 1081 | 50.1 | 1119 | 58.3 | 1157 | 39.1 | 1195 | 31.6 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1196 | 31.5 | 1234 | 9.3 | 1272 | 28.8 | 1310 | 0.0 |
| 1197 | 32.8 | 1235 | 9.4 | 1273 | 28.4 | 1311 | 0.0 |
| 1198 | 33.1 | 1236 | 9.3 | 1274 | 26.0 | 1312 | 0.0 |
| 1199 | 34.3 | 1237 | 9.7 | 1275 | 23.3 | 1313 | 0.0 |
| 1200 | 35.1 | 1238 | 10.1 | 1276 | 19.9 | 1314 | 0.0 |
| 1201 | 34.6 | 1239 | 10.3 | 1277 | 17.6 | 1315 | 0.0 |
| 1202 | 30.7 | 1240 | 12.5 | 1278 | 16.0 | 1316 | 0.0 |
| 1203 | 25.9 | 1241 | 15.6 | 1279 | 15.0 | 1317 | 0.0 |
| 1204 | 21.3 | 1242 | 17.3 | 1280 | 17.1 | 1318 | 0.0 |
| 1205 | 17.4 | 1243 | 18.3 | 1281 | 18.9 | 1319 | 0.0 |
| 1206 | 14.0 | 1244 | 21.6 | 1282 | 20.9 | 1320 | 0.0 |
| 1207 | 12.7 | 1245 | 24.5 | 1283 | 23.0 | 1321 | 0.0 |
| 1208 | 11.6 | 1246 | 26.5 | 1284 | 24.0 | 1322 | 0.0 |
| 1209 | 10.4 | 1247 | 27.2 | 1285 | 24.0 | 1323 | 0.0 |
| 1210 | 9.5 | 1248 | 27.5 | 1286 | 23.1 | 1324 | 0.0 |
| 1211 | 9.2 | 1249 | 27.4 | 1287 | 23.5 | 1325 | 0.0 |
| 1212 | 8.8 | 1250 | 26.6 | 1288 | 20.6 | 1326 | 0.0 |
| 1213 | 9.0 | 1251 | 22.9 | 1289 | 17.0 | 1327 | 0.0 |
| 1214 | 8.9 | 1252 | 18.7 | 1290 | 11.9 | 1328 | 0.0 |
| 1215 | 9.1 | 1253 | 15.6 | 1291 | 6.9 | 1329 | 0.0 |
| 1216 | 8.8 | 1254 | 15.1 | 1292 | 3.8 | 1330 | 0.0 |
| 1217 | 9.0 | 1255 | 18.3 | 1293 | 0.0 | 1331 | 0.0 |
| 1218 | 8.9 | 1256 | 21.2 | 1294 | 0.0 | 1332 | 0.0 |
| 1219 | 8.8 | 1257 | 23.7 | 1295 | 0.0 | 1333 | 0.0 |
| 1220 | 8.9 | 1258 | 25.0 | 1296 | 0.0 | 1334 | 0.0 |
| 1221 | 9.2 | 1259 | 27.8 | 1297 | 0.0 | 1335 | 0.0 |
| 1222 | 9.1 | 1260 | 30.9 | 1298 | 0.0 | 1336 | 0.0 |
| 1223 | 7.8 | 1261 | 33.7 | 1299 | 0.0 | 1337 | 0.0 |
| 1224 | 8.7 | 1262 | 36.2 | 1300 | 0.0 | 1338 | 0.0 |
| 1225 | 9.2 | 1263 | 37.0 | 1301 | 0.0 | 1339 | 0.0 |
| 1226 | 9.3 | 1264 | 37.6 | 1302 | 0.0 | 1340 | 0.0 |
| 1227 | 9.5 | 1265 | 38.9 | 1303 | 0.0 | 1341 | 0.0 |
| 1228 | 9.0 | 1266 | 39.9 | 1304 | 0.0 | 1342 | 0.0 |
| 1229 | 9.2 | 1267 | 39.8 | 1305 | 0.0 | 1343 | 0.0 |
| 1230 | 9.5 | 1268 | 38.5 | 1306 | 0.0 | 1344 | 0.0 |
| 1231 | 9.3 | 1269 | 35.4 | 1307 | 0.0 | 1345 | 0.0 |
| 1232 | 9.1 | 1270 | 33.5 | 1308 | 0.0 | 1346 | 0.0 |
| 1233 | 8.9 | 1271 | 31.8 | 1309 | 0.0 | 1347 | 0.0 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1348 | 0.0 | 1386 | 9.1 | 1424 | 26.0 | 1462 | 51.6 |
| 1349 | 0.0 | 1387 | 11.9 | 1425 | 26.1 | 1463 | 51.8 |
| 1350 | 0.0 | 1388 | 14.3 | 1426 | 26.2 | 1464 | 51.7 |
| 1351 | 0.0 | 1389 | 15.9 | 1427 | 26.3 | 1465 | 50.1 |
| 1352 | 0.0 | 1390 | 16.3 | 1428 | 25.7 | 1466 | 47.0 |
| 1353 | 0.0 | 1391 | 17.3 | 1429 | 24.5 | 1467 | 45.2 |
| 1354 | 0.0 | 1392 | 17.9 | 1430 | 23.5 | 1468 | 41.1 |
| 1355 | 0.0 | 1393 | 18.7 | 1431 | 22.2 | 1469 | 35.9 |
| 1356 | 0.0 | 1394 | 19.2 | 1432 | 20.5 | 1470 | 30.6 |
| 1357 | 0.0 | 1395 | 19.6 | 1433 | 19.4 | 1471 | 30.0 |
| 1358 | 0.0 | 1396 | 20.8 | 1434 | 18.6 | 1472 | 27.7 |
| 1359 | 0.0 | 1397 | 22.2 | 1435 | 18.9 | 1473 | 24.8 |
| 1360 | 0.0 | 1398 | 21.7 | 1436 | 19.7 | 1474 | 23.8 |
| 1361 | 0.0 | 1399 | 21.2 | 1437 | 21.0 | 1475 | 23.8 |
| 1362 | 0.0 | 1400 | 21.6 | 1438 | 20.6 | 1476 | 23.5 |
| 1363 | 0.0 | 1401 | 23.1 | 1439 | 25.1 | 1477 | 23.4 |
| 1364 | 0.0 | 1402 | 24.7 | 1440 | 27.2 | 1478 | 23.7 |
| 1365 | 0.0 | 1403 | 26.1 | 1441 | 31.2 | 1479 | 23.4 |
| 1366 | 0.0 | 1404 | 27.0 | 1442 | 34.1 | 1480 | 25.3 |
| 1367 | 0.0 | 1405 | 27.7 | 1443 | 36.4 | 1481 | 27.5 |
| 1368 | 0.0 | 1406 | 28.1 | 1444 | 36.8 | 1482 | 29.7 |
| 1369 | 0.0 | 1407 | 28.3 | 1445 | 37.4 | 1483 | 32.3 |
| 1370 | 0.0 | 1408 | 28.3 | 1446 | 38.5 | 1484 | 34.3 |
| 1371 | 0.0 | 1409 | 28.5 | 1447 | 39.8 | 1485 | 35.6 |
| 1372 | 0.0 | 1410 | 28.4 | 1448 | 41.0 | 1486 | 36.3 |
| 1373 | 0.0 | 1411 | 28.4 | 1449 | 42.4 | 1487 | 37.3 |
| 1374 | 0.0 | 1412 | 28.5 | 1450 | 43.6 | 1488 | 37.0 |
| 1375 | 0.0 | 1413 | 28.3 | 1451 | 44.9 | 1489 | 36.5 |
| 1376 | 0.0 | 1414 | 27.5 | 1452 | 46.5 | 1490 | 36.0 |
| 1377 | 0.0 | 1415 | 26.8 | 1453 | 47.5 | 1491 | 35.3 |
| 1378 | 0.0 | 1416 | 25.8 | 1454 | 47.5 | 1492 | 35.0 |
| 1379 | 0.0 | 1417 | 24.7 | 1455 | 47.8 | 1493 | 34.4 |
| 1380 | 0.0 | 1418 | 23.8 | 1456 | 47.6 | 1494 | 32.9 |
| 1381 | 0.0 | 1419 | 23.4 | 1457 | 48.4 | 1495 | 28.9 |
| 1382 | 0.0 | 1420 | 23.3 | 1458 | 49.1 | 1496 | 26.6 |
| 1383 | 0.0 | 1421 | 24.1 | 1459 | 49.8 | 1497 | 26.0 |
| 1384 | 2.9 | 1422 | 25.0 | 1460 | 50.6 | 1498 | 24.5 |
| 1385 | 5.8 | 1423 | 25.7 | 1461 | 51.2 | 1499 | 20.4 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1500 | 18.8 | 1538 | 48.3 | 1576 | 72.9 | 1614 | 80.6 |
| 1501 | 18.1 | 1539 | 48.3 | 1577 | 72.8 | 1615 | 81.2 |
| 1502 | 16.6 | 1540 | 47.7 | 1578 | 72.7 | 1616 | 76.6 |
| 1503 | 15.6 | 1541 | 47.8 | 1579 | 72.8 | 1617 | 74.9 |
| 1504 | 15.3 | 1542 | 48.6 | 1580 | 73.2 | 1618 | 73.8 |
| 1505 | 15.0 | 1543 | 49.8 | 1581 | 74.0 | 1619 | 72.1 |
| 1506 | 15.2 | 1544 | 50.7 | 1582 | 76.6 | 1620 | 69.5 |
| 1507 | 15.3 | 1545 | 52.1 | 1583 | 79.5 | 1621 | 67.2 |
| 1508 | 15.2 | 1546 | 54.2 | 1584 | 82.5 | 1622 | 65.1 |
| 1509 | 15.6 | 1547 | 56.5 | 1585 | 85.1 | 1623 | 63.4 |
| 1510 | 15.9 | 1548 | 58.8 | 1586 | 87.3 | 1624 | 59.9 |
| 1511 | 16.3 | 1549 | 60.5 | 1587 | 89.2 | 1625 | 60.2 |
| 1512 | 16.7 | 1550 | 62.7 | 1588 | 90.7 | 1626 | 57.0 |
| 1513 | 17.2 | 1551 | 65.4 | 1589 | 90.9 | 1627 | 56.0 |
| 1514 | 17.6 | 1552 | 67.3 | 1590 | 90.8 | 1628 | 54.7 |
| 1515 | 18.2 | 1553 | 69.6 | 1591 | 90.9 | 1629 | 54.2 |
| 1516 | 18.8 | 1554 | 71.5 | 1592 | 90.9 | 1630 | 54.0 |
| 1517 | 19.7 | 1555 | 73.6 | 1593 | 90.8 | 1631 | 53.6 |
| 1518 | 20.3 | 1556 | 74.9 | 1594 | 90.9 | 1632 | 53.3 |
| 1519 | 22.6 | 1557 | 75.9 | 1595 | 90.7 | 1633 | 52.5 |
| 1520 | 25.2 | 1558 | 76.0 | 1596 | 90.4 | 1634 | 51.9 |
| 1521 | 26.3 | 1559 | 76.3 | 1597 | 90.6 | 1635 | 51.2 |
| 1522 | 28.0 | 1560 | 77.1 | 1598 | 90.7 | 1636 | 50.7 |
| 1523 | 30.3 | 1561 | 77.9 | 1599 | 89.2 | 1637 | 50.2 |
| 1524 | 31.4 | 1562 | 78.5 | 1600 | 87.9 | 1638 | 49.4 |
| 1525 | 33.2 | 1563 | 78.6 | 1601 | 86.3 | 1639 | 48.9 |
| 1526 | 35.1 | 1564 | 78.5 | 1602 | 85.1 | 1640 | 48.3 |
| 1527 | 36.5 | 1565 | 78.4 | 1603 | 84.0 | 1641 | 49.2 |
| 1528 | 37.3 | 1566 | 78.4 | 1604 | 82.9 | 1642 | 50.0 |
| 1529 | 38.1 | 1567 | 78.3 | 1605 | 81.7 | 1643 | 51.4 |
| 1530 | 38.2 | 1568 | 78.3 | 1606 | 79.8 | 1644 | 52.8 |
| 1531 | 38.3 | 1569 | 78.3 | 1607 | 79.7 | 1645 | 53.3 |
| 1532 | 39.3 | 1570 | 78.2 | 1608 | 80.1 | 1646 | 54.2 |
| 1533 | 40.3 | 1571 | 77.8 | 1609 | 80.6 | 1647 | 54.4 |
| 1534 | 44.3 | 1572 | 76.9 | 1610 | 80.3 | 1648 | 53.8 |
| 1535 | 45.3 | 1573 | 75.7 | 1611 | 82.3 | 1649 | 53.2 |
| 1536 | 46.1 | 1574 | 74.3 | 1612 | 81.7 | 1650 | 52.6 |
| 1537 | 47.5 | 1575 | 73.3 | 1613 | 81.6 | 1651 | 49.0 |

表A.1　CLTC-P工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1652 | 45.0 | 1690 | 88.4 | 1728 | 107.8 | 1766 | 62.7 |
| 1653 | 39.5 | 1691 | 90.7 | 1729 | 109.3 | 1767 | 61.1 |
| 1654 | 34.7 | 1692 | 93.0 | 1730 | 108.3 | 1768 | 59.5 |
| 1655 | 32.4 | 1693 | 93.7 | 1731 | 105.4 | 1769 | 56.9 |
| 1656 | 31.7 | 1694 | 93.7 | 1732 | 101.7 | 1770 | 52.1 |
| 1657 | 31.0 | 1695 | 95.0 | 1733 | 100.2 | 1771 | 46.5 |
| 1658 | 31.1 | 1696 | 97.3 | 1734 | 98.9 | 1772 | 41.8 |
| 1659 | 30.5 | 1697 | 99.3 | 1735 | 97.8 | 1773 | 36.3 |
| 1660 | 30.6 | 1698 | 101.1 | 1736 | 97.1 | 1774 | 31.5 |
| 1661 | 30.8 | 1699 | 102.3 | 1737 | 96.4 | 1775 | 26.7 |
| 1662 | 33.5 | 1700 | 101.9 | 1738 | 95.3 | 1776 | 23.4 |
| 1663 | 36.4 | 1701 | 103.0 | 1739 | 93.2 | 1777 | 20.5 |
| 1664 | 39.4 | 1702 | 104.6 | 1740 | 90.9 | 1778 | 16.2 |
| 1665 | 42.2 | 1703 | 106.4 | 1741 | 87.4 | 1779 | 14.8 |
| 1666 | 44.9 | 1704 | 107.9 | 1742 | 82.6 | 1780 | 14.1 |
| 1667 | 47.8 | 1705 | 109.2 | 1743 | 77.7 | 1781 | 13.5 |
| 1668 | 50.3 | 1706 | 110.2 | 1744 | 75.3 | 1782 | 12.7 |
| 1669 | 51.3 | 1707 | 110.6 | 1745 | 75.4 | 1783 | 12.3 |
| 1670 | 50.9 | 1708 | 110.6 | 1746 | 73.0 | 1784 | 12.0 |
| 1671 | 50.7 | 1709 | 110.9 | 1747 | 73.4 | 1785 | 11.2 |
| 1672 | 51.2 | 1710 | 111.4 | 1748 | 71.9 | 1786 | 11.2 |
| 1673 | 52.7 | 1711 | 111.9 | 1749 | 67.5 | 1787 | 10.7 |
| 1674 | 54.1 | 1712 | 112.3 | 1750 | 63.1 | 1788 | 9.8 |
| 1675 | 55.6 | 1713 | 112.7 | 1751 | 59.1 | 1789 | 8.2 |
| 1676 | 57.4 | 1714 | 113.4 | 1752 | 52.9 | 1790 | 2.9 |
| 1677 | 60.7 | 1715 | 113.7 | 1753 | 49.5 | 1791 | 0.0 |
| 1678 | 65.0 | 1716 | 114.0 | 1754 | 46.3 | 1792 | 0.0 |
| 1679 | 66.0 | 1717 | 114.0 | 1755 | 47.2 | 1793 | 0.0 |
| 1680 | 66.7 | 1718 | 113.5 | 1756 | 50.2 | 1794 | 0.0 |
| 1681 | 67.9 | 1719 | 113.2 | 1757 | 53.8 | 1795 | 0.0 |
| 1682 | 69.6 | 1720 | 113.2 | 1758 | 57.7 | 1796 | 0.0 |
| 1683 | 71.5 | 1721 | 113.0 | 1759 | 59.7 | 1797 | 0.0 |
| 1684 | 73.6 | 1722 | 112.4 | 1760 | 62.2 | 1798 | 0.0 |
| 1685 | 75.7 | 1723 | 111.8 | 1761 | 65.5 | 1799 | 0.0 |
| 1686 | 78.2 | 1724 | 110.4 | 1762 | 66.4 | 1800 | 0.0 |
| 1687 | 80.8 | 1725 | 109.2 | 1763 | 65.4 |  |  |
| 1688 | 83.8 | 1726 | 109.6 | 1764 | 65.0 |  |  |
| 1689 | 86.5 | 1727 | 107.7 | 1765 | 63.3 |  |  |

* 1. CLTC-C工况数据见表A.2。
  2. CLTC-C工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 37 | 7.0 | 74 | 0.0 | 111 | 0.0 |
| 1 | 0.0 | 38 | 6.9 | 75 | 0.0 | 112 | 0.0 |
| 2 | 0.0 | 39 | 6.9 | 76 | 0.0 | 113 | 0.0 |
| 3 | 0.0 | 40 | 6.9 | 77 | 0.0 | 114 | 0.0 |
| 4 | 0.0 | 41 | 6.7 | 78 | 0.0 | 115 | 0.0 |
| 5 | 0.0 | 42 | 6.5 | 79 | 0.0 | 116 | 0.0 |
| 6 | 0.0 | 43 | 6.2 | 80 | 0.0 | 117 | 0.0 |
| 7 | 0.0 | 44 | 5.7 | 81 | 0.0 | 118 | 0.0 |
| 8 | 0.0 | 45 | 4.9 | 82 | 0.0 | 119 | 0.0 |
| 9 | 0.0 | 46 | 3.7 | 83 | 0.0 | 120 | 0.0 |
| 10 | 0.0 | 47 | 2.6 | 84 | 0.0 | 121 | 0.0 |
| 11 | 0.0 | 48 | 1.9 | 85 | 0.0 | 122 | 0.0 |
| 12 | 0.0 | 49 | 1.2 | 86 | 3.5 | 123 | 0.0 |
| 13 | 0.0 | 50 | 0.0 | 87 | 6.4 | 124 | 0.0 |
| 14 | 0.0 | 51 | 0.0 | 88 | 9.4 | 125 | 0.0 |
| 15 | 0.0 | 52 | 0.0 | 89 | 11.1 | 126 | 0.0 |
| 16 | 0.0 | 53 | 0.0 | 90 | 11.5 | 127 | 0.0 |
| 17 | 0.0 | 54 | 0.0 | 91 | 11.0 | 128 | 0.0 |
| 18 | 4.1 | 55 | 0.0 | 92 | 10.3 | 129 | 0.0 |
| 19 | 7.0 | 56 | 0.0 | 93 | 9.7 | 130 | 0.0 |
| 20 | 10.0 | 57 | 0.0 | 94 | 9.2 | 131 | 0.0 |
| 21 | 13.1 | 58 | 0.0 | 95 | 8.2 | 132 | 0.0 |
| 22 | 16.2 | 59 | 0.0 | 96 | 6.8 | 133 | 0.0 |
| 23 | 18.3 | 60 | 0.0 | 97 | 5.1 | 134 | 0.0 |
| 24 | 19.0 | 61 | 0.0 | 98 | 3.6 | 135 | 0.0 |
| 25 | 18.8 | 62 | 0.0 | 99 | 2.1 | 136 | 0.0 |
| 26 | 18.4 | 63 | 0.0 | 100 | 0.0 | 137 | 0.0 |
| 27 | 17.9 | 64 | 0.0 | 101 | 0.0 | 138 | 0.0 |
| 28 | 17.6 | 65 | 0.0 | 102 | 0.0 | 139 | 0.0 |
| 29 | 17.4 | 66 | 0.0 | 103 | 0.0 | 140 | 0.0 |
| 30 | 17.1 | 67 | 0.0 | 104 | 0.0 | 141 | 0.0 |
| 31 | 16.5 | 68 | 0.0 | 105 | 0.0 | 142 | 0.0 |
| 32 | 15.3 | 69 | 0.0 | 106 | 0.0 | 143 | 0.0 |
| 33 | 13.4 | 70 | 0.0 | 107 | 0.0 | 144 | 0.0 |
| 34 | 11.3 | 71 | 0.0 | 108 | 0.0 | 145 | 0.0 |
| 35 | 9.3 | 72 | 0.0 | 109 | 0.0 | 146 | 0.0 |
| 36 | 7.8 | 73 | 0.0 | 110 | 0.0 | 147 | 0.0 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 148 | 0.0 | 186 | 0.0 | 224 | 0.0 | 262 | 0.0 |
| 149 | 0.0 | 187 | 0.0 | 225 | 0.0 | 263 | 2.4 |
| 150 | 0.0 | 188 | 0.0 | 226 | 0.0 | 264 | 3.4 |
| 151 | 0.0 | 189 | 0.0 | 227 | 0.0 | 265 | 4.0 |
| 152 | 0.0 | 190 | 0.0 | 228 | 0.0 | 266 | 4.4 |
| 153 | 0.0 | 191 | 0.0 | 229 | 0.0 | 267 | 5.0 |
| 154 | 0.0 | 192 | 0.0 | 230 | 0.0 | 268 | 5.9 |
| 155 | 0.0 | 193 | 0.0 | 231 | 0.0 | 269 | 7.0 |
| 156 | 0.0 | 194 | 0.0 | 232 | 0.0 | 270 | 8.4 |
| 157 | 2.7 | 195 | 0.0 | 233 | 0.0 | 271 | 9.8 |
| 158 | 4.0 | 196 | 0.0 | 234 | 0.0 | 272 | 10.7 |
| 159 | 4.7 | 197 | 0.0 | 235 | 0.0 | 273 | 11.1 |
| 160 | 5.0 | 198 | 0.0 | 236 | 0.0 | 274 | 11.3 |
| 161 | 5.1 | 199 | 0.0 | 237 | 0.0 | 275 | 11.3 |
| 162 | 5.2 | 200 | 0.0 | 238 | 0.0 | 276 | 11.1 |
| 163 | 5.2 | 201 | 0.0 | 239 | 0.0 | 277 | 10.2 |
| 164 | 5.1 | 202 | 0.0 | 240 | 0.0 | 278 | 8.9 |
| 165 | 5.2 | 203 | 0.0 | 241 | 0.0 | 279 | 7.8 |
| 166 | 5.8 | 204 | 0.0 | 242 | 0.0 | 280 | 7.0 |
| 167 | 7.1 | 205 | 0.0 | 243 | 0.0 | 281 | 6.6 |
| 168 | 8.9 | 206 | 0.0 | 244 | 0.0 | 282 | 6.2 |
| 169 | 10.0 | 207 | 0.0 | 245 | 0.0 | 283 | 5.5 |
| 170 | 10.3 | 208 | 0.0 | 246 | 0.0 | 284 | 4.3 |
| 171 | 9.5 | 209 | 0.0 | 247 | 0.0 | 285 | 2.7 |
| 172 | 7.3 | 210 | 0.0 | 248 | 0.0 | 286 | 0.0 |
| 173 | 4.4 | 211 | 0.0 | 249 | 0.0 | 287 | 0.0 |
| 174 | 2.1 | 212 | 0.0 | 250 | 0.0 | 288 | 0.0 |
| 175 | 0.0 | 213 | 0.0 | 251 | 0.0 | 289 | 0.0 |
| 176 | 0.0 | 214 | 0.0 | 252 | 0.0 | 290 | 0.0 |
| 177 | 0.0 | 215 | 0.0 | 253 | 0.0 | 291 | 2.8 |
| 178 | 0.0 | 216 | 0.0 | 254 | 0.0 | 292 | 4.4 |
| 179 | 0.0 | 217 | 0.0 | 255 | 0.0 | 293 | 5.5 |
| 180 | 0.0 | 218 | 0.0 | 256 | 0.0 | 294 | 6.4 |
| 181 | 0.0 | 219 | 0.0 | 257 | 0.0 | 295 | 7.4 |
| 182 | 0.0 | 220 | 0.0 | 258 | 0.0 | 296 | 8.1 |
| 183 | 0.0 | 221 | 0.0 | 259 | 0.0 | 297 | 8.8 |
| 184 | 0.0 | 222 | 0.0 | 260 | 0.0 | 298 | 9.6 |
| 185 | 0.0 | 223 | 0.0 | 261 | 0.0 | 299 | 10.2 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 300 | 10.6 | 338 | 6.0 | 376 | 33.0 | 414 | 27.2 |
| 301 | 10.6 | 339 | 10.9 | 377 | 30.8 | 415 | 27.5 |
| 302 | 10.3 | 340 | 14.4 | 378 | 29.2 | 416 | 27.1 |
| 303 | 9.8 | 341 | 18.8 | 379 | 27.5 | 417 | 25.8 |
| 304 | 9.5 | 342 | 22.6 | 380 | 24.6 | 418 | 24.3 |
| 305 | 9.8 | 343 | 25.7 | 381 | 20.5 | 419 | 23.5 |
| 306 | 10.9 | 344 | 27.9 | 382 | 16.3 | 420 | 23.5 |
| 307 | 12.2 | 345 | 28.3 | 383 | 12.4 | 421 | 23.6 |
| 308 | 13.5 | 346 | 27.5 | 384 | 8.6 | 422 | 23.8 |
| 309 | 15.0 | 347 | 25.9 | 385 | 4.5 | 423 | 23.9 |
| 310 | 16.3 | 348 | 24.0 | 386 | 0.0 | 424 | 24.4 |
| 311 | 16.9 | 349 | 21.8 | 387 | 0.0 | 425 | 25.8 |
| 312 | 17.1 | 350 | 19.4 | 388 | 0.0 | 426 | 27.6 |
| 313 | 17.1 | 351 | 17.0 | 389 | 3.6 | 427 | 29.1 |
| 314 | 17.8 | 352 | 15.3 | 390 | 7.2 | 428 | 29.7 |
| 315 | 19.4 | 353 | 14.4 | 391 | 11.8 | 429 | 29.8 |
| 316 | 21.6 | 354 | 14.3 | 392 | 15.2 | 430 | 29.8 |
| 317 | 23.1 | 355 | 15.0 | 393 | 17.7 | 431 | 29.8 |
| 318 | 23.6 | 356 | 17.9 | 394 | 19.9 | 432 | 29.9 |
| 319 | 23.4 | 357 | 22.3 | 395 | 21.7 | 433 | 30.1 |
| 320 | 22.9 | 358 | 26.0 | 396 | 23.3 | 434 | 30.2 |
| 321 | 22.4 | 359 | 28.9 | 397 | 24.6 | 435 | 30.0 |
| 322 | 22.0 | 360 | 32.2 | 398 | 25.1 | 436 | 29.4 |
| 323 | 20.8 | 361 | 35.5 | 399 | 25.2 | 437 | 28.7 |
| 324 | 18.2 | 362 | 38.2 | 400 | 25.6 | 438 | 27.7 |
| 325 | 14.5 | 363 | 40.3 | 401 | 26.4 | 439 | 26.4 |
| 326 | 10.9 | 364 | 41.7 | 402 | 26.9 | 440 | 25.4 |
| 327 | 8.1 | 365 | 42.7 | 403 | 27.0 | 441 | 25.1 |
| 328 | 5.6 | 366 | 43.7 | 404 | 26.8 | 442 | 24.9 |
| 329 | 3.2 | 367 | 44.8 | 405 | 26.8 | 443 | 24.6 |
| 330 | 0.0 | 368 | 45.5 | 406 | 26.9 | 444 | 23.7 |
| 331 | 0.0 | 369 | 45.7 | 407 | 27.1 | 445 | 22.4 |
| 332 | 0.0 | 370 | 45.8 | 408 | 27.2 | 446 | 20.9 |
| 333 | 0.0 | 371 | 45.3 | 409 | 26.9 | 447 | 19.1 |
| 334 | 0.0 | 372 | 43.9 | 410 | 26.2 | 448 | 16.9 |
| 335 | 0.0 | 373 | 41.5 | 411 | 25.8 | 449 | 14.4 |
| 336 | 0.0 | 374 | 38.8 | 412 | 26.0 | 450 | 12.0 |
| 337 | 2.4 | 375 | 35.9 | 413 | 26.5 | 451 | 9.7 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 452 | 7.1 | 490 | 32.6 | 528 | 37.5 | 566 | 0.0 |
| 453 | 4.1 | 491 | 32.2 | 529 | 37.6 | 567 | 0.0 |
| 454 | 0.0 | 492 | 32.1 | 530 | 37.8 | 568 | 0.0 |
| 455 | 0.0 | 493 | 32.4 | 531 | 38.0 | 569 | 0.0 |
| 456 | 0.0 | 494 | 33.1 | 532 | 38.3 | 570 | 0.0 |
| 457 | 0.0 | 495 | 34.4 | 533 | 38.6 | 571 | 0.0 |
| 458 | 0.0 | 496 | 35.9 | 534 | 38.5 | 572 | 0.0 |
| 459 | 0.0 | 497 | 37.3 | 535 | 37.8 | 573 | 0.0 |
| 460 | 0.0 | 498 | 38.4 | 536 | 35.9 | 574 | 0.0 |
| 461 | 0.0 | 499 | 39.2 | 537 | 33.1 | 575 | 0.0 |
| 462 | 0.0 | 500 | 40.0 | 538 | 30.0 | 576 | 0.0 |
| 463 | 0.0 | 501 | 40.4 | 539 | 27.2 | 577 | 0.0 |
| 464 | 3.9 | 502 | 40.6 | 540 | 25.0 | 578 | 0.0 |
| 465 | 7.6 | 503 | 40.8 | 541 | 23.1 | 579 | 0.0 |
| 466 | 11.5 | 504 | 41.5 | 542 | 20.8 | 580 | 4.3 |
| 467 | 14.9 | 505 | 42.3 | 543 | 17.8 | 581 | 8.1 |
| 468 | 17.0 | 506 | 42.7 | 544 | 14.3 | 582 | 10.9 |
| 469 | 20.0 | 507 | 42.4 | 545 | 11.2 | 583 | 12.0 |
| 470 | 23.1 | 508 | 41.6 | 546 | 9.2 | 584 | 12.1 |
| 471 | 25.4 | 509 | 40.4 | 547 | 8.2 | 585 | 12.2 |
| 472 | 26.7 | 510 | 38.9 | 548 | 7.7 | 586 | 13.1 |
| 473 | 27.8 | 511 | 37.5 | 549 | 7.4 | 587 | 15.5 |
| 474 | 29.2 | 512 | 36.3 | 550 | 7.0 | 588 | 18.5 |
| 475 | 30.8 | 513 | 35.2 | 551 | 6.7 | 589 | 20.6 |
| 476 | 32.1 | 514 | 33.9 | 552 | 6.3 | 590 | 21.7 |
| 477 | 32.8 | 515 | 32.5 | 553 | 5.7 | 591 | 22.4 |
| 478 | 32.9 | 516 | 31.5 | 554 | 4.8 | 592 | 23.0 |
| 479 | 32.5 | 517 | 31.1 | 555 | 3.1 | 593 | 23.2 |
| 480 | 31.4 | 518 | 31.0 | 556 | 0.0 | 594 | 22.7 |
| 481 | 30.3 | 519 | 31.0 | 557 | 0.0 | 595 | 21.2 |
| 482 | 29.9 | 520 | 31.3 | 558 | 0.0 | 596 | 19.3 |
| 483 | 30.0 | 521 | 32.2 | 559 | 0.0 | 597 | 18.1 |
| 484 | 30.4 | 522 | 33.7 | 560 | 0.0 | 598 | 17.6 |
| 485 | 31.4 | 523 | 35.1 | 561 | 0.0 | 599 | 17.4 |
| 486 | 32.5 | 524 | 36.2 | 562 | 0.0 | 600 | 17.4 |
| 487 | 33.4 | 525 | 37.0 | 563 | 0.0 | 601 | 17.2 |
| 488 | 33.6 | 526 | 37.4 | 564 | 0.0 | 602 | 16.6 |
| 489 | 33.3 | 527 | 37.4 | 565 | 0.0 | 603 | 15.7 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 604 | 15.3 | 642 | 20.3 | 680 | 21.4 | 718 | 16.7 |
| 605 | 15.3 | 643 | 19.4 | 681 | 20.7 | 719 | 16.2 |
| 606 | 16.2 | 644 | 18.7 | 682 | 20.2 | 720 | 15.5 |
| 607 | 17.9 | 645 | 18.0 | 683 | 20.0 | 721 | 12.2 |
| 608 | 19.3 | 646 | 16.8 | 684 | 20.2 | 722 | 8.8 |
| 609 | 19.7 | 647 | 15.3 | 685 | 21.1 | 723 | 4.9 |
| 610 | 19.7 | 648 | 14.1 | 686 | 22.5 | 724 | 0.0 |
| 611 | 19.6 | 649 | 13.5 | 687 | 23.5 | 725 | 0.0 |
| 612 | 19.6 | 650 | 12.8 | 688 | 23.8 | 726 | 0.0 |
| 613 | 19.8 | 651 | 11.8 | 689 | 23.6 | 727 | 0.0 |
| 614 | 20.4 | 652 | 10.9 | 690 | 23.3 | 728 | 0.0 |
| 615 | 21.4 | 653 | 10.5 | 691 | 23.1 | 729 | 0.0 |
| 616 | 23.4 | 654 | 10.6 | 692 | 23.1 | 730 | 0.0 |
| 617 | 26.1 | 655 | 11.4 | 693 | 23.8 | 731 | 0.0 |
| 618 | 28.1 | 656 | 13.5 | 694 | 25.6 | 732 | 0.0 |
| 619 | 29.0 | 657 | 16.5 | 695 | 27.6 | 733 | 0.0 |
| 620 | 29.1 | 658 | 19.6 | 696 | 28.5 | 734 | 0.0 |
| 621 | 28.8 | 659 | 22.3 | 697 | 28.4 | 735 | 0.0 |
| 622 | 28.3 | 660 | 24.4 | 698 | 27.1 | 736 | 0.0 |
| 623 | 27.6 | 661 | 26.0 | 699 | 24.0 | 737 | 0.0 |
| 624 | 26.5 | 662 | 26.9 | 700 | 20.8 | 738 | 0.0 |
| 625 | 25.0 | 663 | 28.1 | 701 | 18.8 | 739 | 0.0 |
| 626 | 23.0 | 664 | 30.4 | 702 | 17.6 | 740 | 0.0 |
| 627 | 20.9 | 665 | 33.1 | 703 | 16.8 | 741 | 0.0 |
| 628 | 19.4 | 666 | 34.5 | 704 | 16.2 | 742 | 3.7 |
| 629 | 18.5 | 667 | 34.7 | 705 | 15.9 | 743 | 7.6 |
| 630 | 18.0 | 668 | 34.4 | 706 | 15.9 | 744 | 11.0 |
| 631 | 17.8 | 669 | 33.6 | 707 | 16.0 | 745 | 12.3 |
| 632 | 17.8 | 670 | 32.4 | 708 | 16.6 | 746 | 13.2 |
| 633 | 17.8 | 671 | 31.0 | 709 | 18.0 | 747 | 14.4 |
| 634 | 17.8 | 672 | 29.5 | 710 | 19.4 | 748 | 16.8 |
| 635 | 17.9 | 673 | 28.1 | 711 | 20.0 | 749 | 20.1 |
| 636 | 18.1 | 674 | 26.5 | 712 | 19.5 | 750 | 23.3 |
| 637 | 18.7 | 675 | 24.7 | 713 | 18.2 | 751 | 26.1 |
| 638 | 19.7 | 676 | 23.2 | 714 | 17.3 | 752 | 29.2 |
| 639 | 20.8 | 677 | 22.4 | 715 | 17.2 | 753 | 33.0 |
| 640 | 21.2 | 678 | 22.1 | 716 | 17.2 | 754 | 36.0 |
| 641 | 21.0 | 679 | 21.8 | 717 | 17.1 | 755 | 37.0 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 756 | 36.1 | 794 | 27.2 | 832 | 15.4 | 870 | 52.5 |
| 757 | 34.3 | 795 | 25.7 | 833 | 16.1 | 871 | 52.5 |
| 758 | 33.1 | 796 | 23.8 | 834 | 16.0 | 872 | 52.3 |
| 759 | 32.9 | 797 | 21.3 | 835 | 16.4 | 873 | 51.7 |
| 760 | 33.0 | 798 | 18.1 | 836 | 17.6 | 874 | 50.9 |
| 761 | 33.2 | 799 | 14.8 | 837 | 19.5 | 875 | 50.2 |
| 762 | 33.3 | 800 | 12.8 | 838 | 21.9 | 876 | 49.4 |
| 763 | 33.6 | 801 | 12.2 | 839 | 24.3 | 877 | 48.7 |
| 764 | 34.6 | 802 | 12.7 | 840 | 26.3 | 878 | 48.0 |
| 765 | 36.8 | 803 | 14.4 | 841 | 28.3 | 879 | 47.4 |
| 766 | 39.5 | 804 | 16.1 | 842 | 31.1 | 880 | 46.7 |
| 767 | 42.1 | 805 | 16.8 | 843 | 34.8 | 881 | 45.7 |
| 768 | 44.0 | 806 | 16.5 | 844 | 38.3 | 882 | 44.3 |
| 769 | 45.2 | 807 | 15.4 | 845 | 40.4 | 883 | 42.4 |
| 770 | 45.6 | 808 | 13.4 | 846 | 41.3 | 884 | 40.5 |
| 771 | 45.5 | 809 | 10.8 | 847 | 41.7 | 885 | 38.9 |
| 772 | 45.1 | 810 | 8.0 | 848 | 42.2 | 886 | 37.5 |
| 773 | 44.8 | 811 | 4.8 | 849 | 43.0 | 887 | 36.1 |
| 774 | 44.9 | 812 | 0.0 | 850 | 43.9 | 888 | 34.3 |
| 775 | 45.5 | 813 | 0.0 | 851 | 44.9 | 889 | 31.8 |
| 776 | 46.8 | 814 | 0.0 | 852 | 45.5 | 890 | 28.6 |
| 777 | 48.5 | 815 | 0.0 | 853 | 45.8 | 891 | 24.9 |
| 778 | 50.0 | 816 | 0.0 | 854 | 45.9 | 892 | 21.2 |
| 779 | 51.3 | 817 | 0.0 | 855 | 46.2 | 893 | 18.4 |
| 780 | 52.2 | 818 | 0.0 | 856 | 46.9 | 894 | 16.4 |
| 781 | 52.6 | 819 | 0.0 | 857 | 47.7 | 895 | 14.5 |
| 782 | 52.3 | 820 | 0.0 | 858 | 48.2 | 896 | 12.6 |
| 783 | 50.9 | 821 | 0.0 | 859 | 48.4 | 897 | 11.6 |
| 784 | 48.6 | 822 | 0.0 | 860 | 48.4 | 898 | 11.4 |
| 785 | 46.4 | 823 | 0.0 | 861 | 48.4 | 899 | 12.4 |
| 786 | 44.5 | 824 | 0.0 | 862 | 48.5 | 900 | 15.3 |
| 787 | 42.5 | 825 | 0.0 | 863 | 48.6 | 901 | 18.9 |
| 788 | 40.3 | 826 | 0.0 | 864 | 48.8 | 902 | 22.1 |
| 789 | 37.9 | 827 | 0.0 | 865 | 48.9 | 903 | 24.4 |
| 790 | 35.3 | 828 | 0.0 | 866 | 49.2 | 904 | 26.2 |
| 791 | 32.8 | 829 | 3.9 | 867 | 50.0 | 905 | 28.2 |
| 792 | 30.5 | 830 | 8.2 | 868 | 51.1 | 906 | 30.7 |
| 793 | 28.8 | 831 | 12.1 | 869 | 52.1 | 907 | 33.6 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 908 | 36.5 | 946 | 12.9 | 984 | 0.0 | 1022 | 48.4 |
| 909 | 38.6 | 947 | 14.5 | 985 | 0.0 | 1023 | 48.8 |
| 910 | 39.7 | 948 | 14.9 | 986 | 0.0 | 1024 | 49.3 |
| 911 | 40.1 | 949 | 14.8 | 987 | 0.0 | 1025 | 50.3 |
| 912 | 40.5 | 950 | 14.5 | 988 | 0.0 | 1026 | 51.6 |
| 913 | 40.9 | 951 | 14.6 | 989 | 0.0 | 1027 | 52.5 |
| 914 | 41.5 | 952 | 15.6 | 990 | 0.0 | 1028 | 52.9 |
| 915 | 42.1 | 953 | 17.6 | 991 | 0.0 | 1029 | 53.1 |
| 916 | 42.4 | 954 | 19.6 | 992 | 0.0 | 1030 | 53.3 |
| 917 | 42.4 | 955 | 20.9 | 993 | 0.0 | 1031 | 53.6 |
| 918 | 42.4 | 956 | 21.6 | 994 | 0.0 | 1032 | 54.2 |
| 919 | 42.3 | 957 | 22.1 | 995 | 0.0 | 1033 | 55.0 |
| 920 | 42.1 | 958 | 22.4 | 996 | 0.0 | 1034 | 55.7 |
| 921 | 41.8 | 959 | 22.6 | 997 | 0.0 | 1035 | 56.1 |
| 922 | 41.4 | 960 | 22.7 | 998 | 0.0 | 1036 | 56.5 |
| 923 | 40.8 | 961 | 22.5 | 999 | 0.0 | 1037 | 56.8 |
| 924 | 40.1 | 962 | 21.3 | 1000 | 4.2 | 1038 | 57.1 |
| 925 | 39.4 | 963 | 18.9 | 1001 | 7.6 | 1039 | 57.2 |
| 926 | 38.7 | 964 | 16.0 | 1002 | 12.5 | 1040 | 57.3 |
| 927 | 37.8 | 965 | 13.4 | 1003 | 15.8 | 1041 | 57.4 |
| 928 | 36.6 | 966 | 10.7 | 1004 | 18.9 | 1042 | 57.4 |
| 929 | 34.9 | 967 | 7.8 | 1005 | 22.5 | 1043 | 57.4 |
| 930 | 33.0 | 968 | 4.5 | 1006 | 25.9 | 1044 | 57.5 |
| 931 | 31.2 | 969 | 0.0 | 1007 | 28.4 | 1045 | 57.7 |
| 932 | 29.6 | 970 | 0.0 | 1008 | 29.8 | 1046 | 57.8 |
| 933 | 27.6 | 971 | 0.0 | 1009 | 31.3 | 1047 | 57.9 |
| 934 | 24.6 | 972 | 0.0 | 1010 | 33.6 | 1048 | 57.6 |
| 935 | 20.9 | 973 | 0.0 | 1011 | 36.7 | 1049 | 56.9 |
| 936 | 17.1 | 974 | 0.0 | 1012 | 40.0 | 1050 | 55.8 |
| 937 | 14.1 | 975 | 0.0 | 1013 | 42.8 | 1051 | 55.1 |
| 938 | 12.3 | 976 | 0.0 | 1014 | 44.6 | 1052 | 54.9 |
| 939 | 11.2 | 977 | 0.0 | 1015 | 45.4 | 1053 | 54.9 |
| 940 | 10.3 | 978 | 0.0 | 1016 | 45.8 | 1054 | 54.5 |
| 941 | 9.4 | 979 | 0.0 | 1017 | 46.4 | 1055 | 53.3 |
| 942 | 8.7 | 980 | 0.0 | 1018 | 47.3 | 1056 | 51.6 |
| 943 | 8.5 | 981 | 0.0 | 1019 | 47.9 | 1057 | 49.4 |
| 944 | 8.9 | 982 | 0.0 | 1020 | 48.1 | 1058 | 46.6 |
| 945 | 10.4 | 983 | 0.0 | 1021 | 48.2 | 1059 | 43.5 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1060 | 40.5 | 1098 | 49.4 | 1136 | 56.2 | 1174 | 61.7 |
| 1061 | 37.8 | 1099 | 52.4 | 1137 | 56.2 | 1175 | 62.3 |
| 1062 | 35.2 | 1100 | 54.3 | 1138 | 56.2 | 1176 | 63.2 |
| 1063 | 32.8 | 1101 | 55.1 | 1139 | 56.1 | 1177 | 64.2 |
| 1064 | 30.9 | 1102 | 55.2 | 1140 | 56.0 | 1178 | 64.7 |
| 1065 | 29.5 | 1103 | 55.1 | 1141 | 56.0 | 1179 | 64.9 |
| 1066 | 28.6 | 1104 | 55.1 | 1142 | 56.1 | 1180 | 65.0 |
| 1067 | 27.5 | 1105 | 55.5 | 1143 | 56.3 | 1181 | 64.9 |
| 1068 | 26.5 | 1106 | 56.4 | 1144 | 56.7 | 1182 | 64.8 |
| 1069 | 25.8 | 1107 | 57.5 | 1145 | 57.1 | 1183 | 64.4 |
| 1070 | 25.3 | 1108 | 58.2 | 1146 | 57.3 | 1184 | 63.2 |
| 1071 | 24.8 | 1109 | 58.5 | 1147 | 57.4 | 1185 | 61.2 |
| 1072 | 24.5 | 1110 | 58.5 | 1148 | 57.0 | 1186 | 59.0 |
| 1073 | 24.8 | 1111 | 58.6 | 1149 | 55.8 | 1187 | 57.2 |
| 1074 | 26.0 | 1112 | 58.8 | 1150 | 54.4 | 1188 | 55.5 |
| 1075 | 27.8 | 1113 | 58.9 | 1151 | 54.0 | 1189 | 53.4 |
| 1076 | 29.5 | 1114 | 59.0 | 1152 | 54.2 | 1190 | 50.8 |
| 1077 | 31.4 | 1115 | 59.1 | 1153 | 54.9 | 1191 | 48.0 |
| 1078 | 34.2 | 1116 | 59.1 | 1154 | 55.5 | 1192 | 45.5 |
| 1079 | 37.6 | 1117 | 59.1 | 1155 | 55.8 | 1193 | 43.1 |
| 1080 | 40.7 | 1118 | 59.0 | 1156 | 56.1 | 1194 | 40.9 |
| 1081 | 42.5 | 1119 | 58.7 | 1157 | 56.6 | 1195 | 38.5 |
| 1082 | 43.1 | 1120 | 58.3 | 1158 | 57.1 | 1196 | 36.1 |
| 1083 | 43.1 | 1121 | 57.8 | 1159 | 57.8 | 1197 | 34.5 |
| 1084 | 43.5 | 1122 | 57.3 | 1160 | 58.5 | 1198 | 34.1 |
| 1085 | 44.5 | 1123 | 56.9 | 1161 | 59.2 | 1199 | 34.5 |
| 1086 | 45.7 | 1124 | 56.7 | 1162 | 59.8 | 1200 | 35.9 |
| 1087 | 46.8 | 1125 | 56.2 | 1163 | 60.3 | 1201 | 38.0 |
| 1088 | 47.8 | 1126 | 55.0 | 1164 | 60.5 | 1202 | 39.7 |
| 1089 | 48.5 | 1127 | 52.9 | 1165 | 60.4 | 1203 | 40.7 |
| 1090 | 48.8 | 1128 | 51.3 | 1166 | 60.4 | 1204 | 41.7 |
| 1091 | 48.7 | 1129 | 50.9 | 1167 | 60.4 | 1205 | 43.1 |
| 1092 | 48.2 | 1130 | 51.0 | 1168 | 60.6 | 1206 | 45.0 |
| 1093 | 47.4 | 1131 | 51.7 | 1169 | 60.9 | 1207 | 47.1 |
| 1094 | 46.6 | 1132 | 53.5 | 1170 | 61.3 | 1208 | 49.3 |
| 1095 | 46.2 | 1133 | 55.1 | 1171 | 61.5 | 1209 | 51.5 |
| 1096 | 46.3 | 1134 | 55.9 | 1172 | 61.5 | 1210 | 53.9 |
| 1097 | 47.0 | 1135 | 56.1 | 1173 | 61.5 | 1211 | 56.4 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1212 | 58.3 | 1250 | 53.4 | 1288 | 9.2 | 1326 | 0.0 |
| 1213 | 59.3 | 1251 | 53.7 | 1289 | 4.9 | 1327 | 0.0 |
| 1214 | 59.7 | 1252 | 54.0 | 1290 | 0.0 | 1328 | 0.0 |
| 1215 | 60.2 | 1253 | 54.0 | 1291 | 0.0 | 1329 | 0.0 |
| 1216 | 61.1 | 1254 | 53.7 | 1292 | 0.0 | 1330 | 0.0 |
| 1217 | 62.3 | 1255 | 52.9 | 1293 | 0.0 | 1331 | 0.0 |
| 1218 | 63.5 | 1256 | 52.0 | 1294 | 0.0 | 1332 | 0.0 |
| 1219 | 64.4 | 1257 | 51.3 | 1295 | 0.0 | 1333 | 0.0 |
| 1220 | 64.8 | 1258 | 50.7 | 1296 | 0.0 | 1334 | 0.0 |
| 1221 | 64.8 | 1259 | 50.4 | 1297 | 0.0 | 1335 | 0.0 |
| 1222 | 64.7 | 1260 | 50.0 | 1298 | 0.0 | 1336 | 0.0 |
| 1223 | 64.4 | 1261 | 49.6 | 1299 | 0.0 | 1337 | 0.0 |
| 1224 | 63.7 | 1262 | 49.1 | 1300 | 0.0 | 1338 | 0.0 |
| 1225 | 62.7 | 1263 | 48.4 | 1301 | 0.0 | 1339 | 0.0 |
| 1226 | 61.5 | 1264 | 47.7 | 1302 | 0.0 | 1340 | 0.0 |
| 1227 | 60.1 | 1265 | 47.1 | 1303 | 0.0 | 1341 | 0.0 |
| 1228 | 58.2 | 1266 | 46.6 | 1304 | 0.0 | 1342 | 0.0 |
| 1229 | 55.3 | 1267 | 46.1 | 1305 | 0.0 | 1343 | 0.0 |
| 1230 | 51.4 | 1268 | 45.5 | 1306 | 0.0 | 1344 | 0.0 |
| 1231 | 46.8 | 1269 | 44.8 | 1307 | 0.0 | 1345 | 0.0 |
| 1232 | 42.0 | 1270 | 44.2 | 1308 | 0.0 | 1346 | 0.0 |
| 1233 | 38.0 | 1271 | 43.4 | 1309 | 0.0 | 1347 | 0.0 |
| 1234 | 35.6 | 1272 | 42.6 | 1310 | 0.0 | 1348 | 0.0 |
| 1235 | 34.9 | 1273 | 41.9 | 1311 | 0.0 | 1349 | 0.0 |
| 1236 | 35.6 | 1274 | 41.4 | 1312 | 0.0 | 1350 | 0.0 |
| 1237 | 38.1 | 1275 | 40.7 | 1313 | 0.0 | 1351 | 0.0 |
| 1238 | 41.5 | 1276 | 40.0 | 1314 | 0.0 | 1352 | 0.0 |
| 1239 | 44.3 | 1277 | 39.4 | 1315 | 0.0 | 1353 | 0.0 |
| 1240 | 46.0 | 1278 | 39.0 | 1316 | 0.0 | 1354 | 0.0 |
| 1241 | 47.7 | 1279 | 38.8 | 1317 | 0.0 | 1355 | 0.0 |
| 1242 | 49.7 | 1280 | 38.8 | 1318 | 0.0 | 1356 | 0.0 |
| 1243 | 51.6 | 1281 | 38.6 | 1319 | 0.0 | 1357 | 0.0 |
| 1244 | 52.6 | 1282 | 35.6 | 1320 | 0.0 | 1358 | 0.0 |
| 1245 | 52.9 | 1283 | 32.0 | 1321 | 0.0 | 1359 | 1.3 |
| 1246 | 53.0 | 1284 | 27.8 | 1322 | 0.0 | 1360 | 3.8 |
| 1247 | 53.1 | 1285 | 23.1 | 1323 | 0.0 | 1361 | 6.6 |
| 1248 | 53.1 | 1286 | 18.5 | 1324 | 0.0 | 1362 | 8.6 |
| 1249 | 53.2 | 1287 | 14.9 | 1325 | 0.0 | 1363 | 10.3 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1364 | 12.4 | 1402 | 39.1 | 1440 | 41.7 | 1478 | 86.5 |
| 1365 | 15.4 | 1403 | 38.8 | 1441 | 43.9 | 1479 | 86.7 |
| 1366 | 18.6 | 1404 | 37.6 | 1442 | 46.5 | 1480 | 86.9 |
| 1367 | 21.0 | 1405 | 35.5 | 1443 | 49.4 | 1481 | 87.1 |
| 1368 | 22.9 | 1406 | 33.8 | 1444 | 52.2 | 1482 | 87.4 |
| 1369 | 24.8 | 1407 | 33.3 | 1445 | 54.3 | 1483 | 87.7 |
| 1370 | 27.0 | 1408 | 33.4 | 1446 | 55.3 | 1484 | 88.0 |
| 1371 | 29.7 | 1409 | 33.6 | 1447 | 55.9 | 1485 | 88.3 |
| 1372 | 32.5 | 1410 | 33.7 | 1448 | 56.8 | 1486 | 88.5 |
| 1373 | 35.0 | 1411 | 33.5 | 1449 | 58.2 | 1487 | 88.8 |
| 1374 | 37.1 | 1412 | 33.1 | 1450 | 59.7 | 1488 | 88.9 |
| 1375 | 38.5 | 1413 | 32.8 | 1451 | 61.3 | 1489 | 89.1 |
| 1376 | 38.9 | 1414 | 33.0 | 1452 | 62.9 | 1490 | 89.2 |
| 1377 | 38.8 | 1415 | 34.5 | 1453 | 64.8 | 1491 | 89.3 |
| 1378 | 38.6 | 1416 | 37.2 | 1454 | 66.7 | 1492 | 89.3 |
| 1379 | 38.5 | 1417 | 39.9 | 1455 | 68.3 | 1493 | 89.2 |
| 1380 | 38.9 | 1418 | 41.9 | 1456 | 69.5 | 1494 | 89.2 |
| 1381 | 39.7 | 1419 | 43.0 | 1457 | 70.8 | 1495 | 89.1 |
| 1382 | 40.4 | 1420 | 43.4 | 1458 | 72.5 | 1496 | 89.1 |
| 1383 | 40.5 | 1421 | 43.3 | 1459 | 74.3 | 1497 | 89.2 |
| 1384 | 40.4 | 1422 | 42.5 | 1460 | 75.6 | 1498 | 89.2 |
| 1385 | 40.6 | 1423 | 40.4 | 1461 | 76.8 | 1499 | 89.1 |
| 1386 | 41.5 | 1424 | 37.7 | 1462 | 78.1 | 1500 | 89.1 |
| 1387 | 43.0 | 1425 | 35.8 | 1463 | 79.4 | 1501 | 89.0 |
| 1388 | 44.2 | 1426 | 35.0 | 1464 | 80.7 | 1502 | 89.0 |
| 1389 | 44.7 | 1427 | 34.8 | 1465 | 81.6 | 1503 | 89.0 |
| 1390 | 44.8 | 1428 | 34.7 | 1466 | 82.4 | 1504 | 89.2 |
| 1391 | 44.6 | 1429 | 34.3 | 1467 | 83.2 | 1505 | 89.5 |
| 1392 | 44.2 | 1430 | 33.6 | 1468 | 84.0 | 1506 | 89.8 |
| 1393 | 43.7 | 1431 | 32.7 | 1469 | 84.9 | 1507 | 89.9 |
| 1394 | 43.0 | 1432 | 31.8 | 1470 | 85.6 | 1508 | 89.9 |
| 1395 | 41.9 | 1433 | 31.5 | 1471 | 86.0 | 1509 | 89.8 |
| 1396 | 40.9 | 1434 | 31.6 | 1472 | 86.1 | 1510 | 89.6 |
| 1397 | 40.1 | 1435 | 32.1 | 1473 | 86.0 | 1511 | 89.5 |
| 1398 | 39.7 | 1436 | 33.2 | 1474 | 85.9 | 1512 | 89.5 |
| 1399 | 39.3 | 1437 | 35.0 | 1475 | 85.9 | 1513 | 89.5 |
| 1400 | 39.1 | 1438 | 37.2 | 1476 | 86.0 | 1514 | 89.7 |
| 1401 | 39.1 | 1439 | 39.5 | 1477 | 86.2 | 1515 | 89.8 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1516 | 89.7 | 1554 | 91.2 | 1592 | 88.5 | 1630 | 91.4 |
| 1517 | 89.7 | 1555 | 91.7 | 1593 | 88.6 | 1631 | 91.3 |
| 1518 | 89.6 | 1556 | 92.0 | 1594 | 88.7 | 1632 | 91.2 |
| 1519 | 89.6 | 1557 | 92.0 | 1595 | 88.7 | 1633 | 91.2 |
| 1520 | 89.5 | 1558 | 91.9 | 1596 | 88.6 | 1634 | 91.4 |
| 1521 | 89.3 | 1559 | 91.8 | 1597 | 88.6 | 1635 | 91.7 |
| 1522 | 89.2 | 1560 | 91.7 | 1598 | 88.7 | 1636 | 91.8 |
| 1523 | 89.2 | 1561 | 91.7 | 1599 | 89.0 | 1637 | 91.6 |
| 1524 | 89.2 | 1562 | 91.5 | 1600 | 89.5 | 1638 | 90.2 |
| 1525 | 89.5 | 1563 | 91.3 | 1601 | 89.8 | 1639 | 87.6 |
| 1526 | 89.9 | 1564 | 91.0 | 1602 | 90.1 | 1640 | 85.2 |
| 1527 | 90.3 | 1565 | 90.7 | 1603 | 90.3 | 1641 | 83.5 |
| 1528 | 90.5 | 1566 | 90.5 | 1604 | 90.5 | 1642 | 82.2 |
| 1529 | 90.5 | 1567 | 90.4 | 1605 | 90.8 | 1643 | 80.9 |
| 1530 | 90.5 | 1568 | 90.3 | 1606 | 90.9 | 1644 | 79.5 |
| 1531 | 90.1 | 1569 | 90.4 | 1607 | 91.0 | 1645 | 77.3 |
| 1532 | 89.4 | 1570 | 90.4 | 1608 | 91.0 | 1646 | 74.3 |
| 1533 | 88.7 | 1571 | 90.6 | 1609 | 91.0 | 1647 | 70.8 |
| 1534 | 88.3 | 1572 | 90.6 | 1610 | 90.8 | 1648 | 67.3 |
| 1535 | 88.0 | 1573 | 90.6 | 1611 | 90.4 | 1649 | 63.5 |
| 1536 | 87.7 | 1574 | 90.4 | 1612 | 89.9 | 1650 | 59.4 |
| 1537 | 87.5 | 1575 | 90.0 | 1613 | 89.6 | 1651 | 55.7 |
| 1538 | 87.5 | 1576 | 89.7 | 1614 | 89.6 | 1652 | 53.3 |
| 1539 | 87.5 | 1577 | 89.6 | 1615 | 89.6 | 1653 | 52.5 |
| 1540 | 87.7 | 1578 | 89.5 | 1616 | 89.6 | 1654 | 52.7 |
| 1541 | 88.0 | 1579 | 89.5 | 1617 | 89.7 | 1655 | 53.4 |
| 1542 | 88.2 | 1580 | 89.5 | 1618 | 89.7 | 1656 | 54.2 |
| 1543 | 88.4 | 1581 | 89.4 | 1619 | 89.7 | 1657 | 54.7 |
| 1544 | 88.7 | 1582 | 89.1 | 1620 | 89.7 | 1658 | 54.9 |
| 1545 | 88.8 | 1583 | 88.6 | 1621 | 89.8 | 1659 | 55.0 |
| 1546 | 88.9 | 1584 | 88.2 | 1622 | 89.9 | 1660 | 55.3 |
| 1547 | 89.0 | 1585 | 88.0 | 1623 | 90.2 | 1661 | 56.0 |
| 1548 | 89.3 | 1586 | 87.9 | 1624 | 90.6 | 1662 | 56.7 |
| 1549 | 89.7 | 1587 | 87.8 | 1625 | 91.1 | 1663 | 57.1 |
| 1550 | 90.0 | 1588 | 87.8 | 1626 | 91.5 | 1664 | 57.4 |
| 1551 | 90.2 | 1589 | 87.9 | 1627 | 91.6 | 1665 | 57.8 |
| 1552 | 90.4 | 1590 | 88.1 | 1628 | 91.7 | 1666 | 58.3 |
| 1553 | 90.6 | 1591 | 88.4 | 1629 | 91.6 | 1667 | 58.7 |

表A.2　CLTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1668 | 58.9 | 1702 | 60.6 | 1736 | 80.7 | 1770 | 45.1 |
| 1669 | 59.1 | 1703 | 60.2 | 1737 | 80.0 | 1771 | 43.4 |
| 1670 | 59.3 | 1704 | 59.7 | 1738 | 78.6 | 1772 | 41.4 |
| 1671 | 59.5 | 1705 | 59.5 | 1739 | 76.8 | 1773 | 39.4 |
| 1672 | 59.7 | 1706 | 59.3 | 1740 | 75.2 | 1774 | 37.4 |
| 1673 | 60.2 | 1707 | 59.2 | 1741 | 74.3 | 1775 | 35.0 |
| 1674 | 60.7 | 1708 | 59.4 | 1742 | 73.9 | 1776 | 32.1 |
| 1675 | 60.9 | 1709 | 60.3 | 1743 | 73.7 | 1777 | 28.7 |
| 1676 | 60.8 | 1710 | 62.3 | 1744 | 73.0 | 1778 | 25.6 |
| 1677 | 60.5 | 1711 | 65.0 | 1745 | 71.8 | 1779 | 22.9 |
| 1678 | 60.2 | 1712 | 67.4 | 1746 | 70.3 | 1780 | 20.9 |
| 1679 | 60.1 | 1713 | 68.7 | 1747 | 69.0 | 1781 | 18.9 |
| 1680 | 60.1 | 1714 | 69.0 | 1748 | 67.9 | 1782 | 16.7 |
| 1681 | 60.2 | 1715 | 68.7 | 1749 | 66.8 | 1783 | 14.4 |
| 1682 | 60.3 | 1716 | 68.5 | 1750 | 65.5 | 1784 | 12.5 |
| 1683 | 60.6 | 1717 | 68.7 | 1751 | 64.2 | 1785 | 10.8 |
| 1684 | 61.0 | 1718 | 69.3 | 1752 | 63.2 | 1786 | 9.0 |
| 1685 | 61.4 | 1719 | 70.6 | 1753 | 62.4 | 1787 | 7.4 |
| 1686 | 61.5 | 1720 | 72.1 | 1754 | 61.8 | 1788 | 6.1 |
| 1687 | 61.4 | 1721 | 73.6 | 1755 | 61.3 | 1789 | 4.7 |
| 1688 | 61.0 | 1722 | 74.9 | 1756 | 61.0 | 1790 | 2.8 |
| 1689 | 60.4 | 1723 | 75.9 | 1757 | 60.6 | 1791 | 0.0 |
| 1690 | 59.8 | 1724 | 76.6 | 1758 | 59.9 | 1792 | 0.0 |
| 1691 | 59.5 | 1725 | 77.2 | 1759 | 58.9 | 1793 | 0.0 |
| 1692 | 59.5 | 1726 | 77.9 | 1760 | 57.7 | 1794 | 0.0 |
| 1693 | 59.6 | 1727 | 78.7 | 1761 | 56.5 | 1795 | 0.0 |
| 1694 | 59.8 | 1728 | 79.4 | 1762 | 55.3 | 1796 | 0.0 |
| 1695 | 60.1 | 1729 | 80.0 | 1763 | 54.4 | 1797 | 0.0 |
| 1696 | 60.4 | 1730 | 80.7 | 1764 | 53.3 | 1798 | 0.0 |
| 1697 | 60.7 | 1731 | 81.0 | 1765 | 51.8 | 1799 | 0.0 |
| 1698 | 60.9 | 1732 | 81.1 | 1766 | 49.8 | 1800 | 0.0 |
| 1699 | 61.0 | 1733 | 81.1 | 1767 | 48.2 |  |  |
| 1700 | 61.0 | 1734 | 80.9 | 1768 | 47.2 |  |  |
| 1701 | 60.9 | 1735 | 80.8 | 1769 | 46.3 |  |  |

* 1. CHTC-B工况数据见表A.3

表　A.3 CHTC-B工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 37 | 17.2 | 74 | 0.0 | 111 | 0.0 |
| 1 | 0.0 | 38 | 16.5 | 75 | 0.0 | 112 | 0.0 |
| 2 | 0.0 | 39 | 15.8 | 76 | 0.0 | 113 | 0.0 |
| 3 | 0.0 | 40 | 15.2 | 77 | 0.0 | 114 | 0.0 |
| 4 | 0.0 | 41 | 14.3 | 78 | 0.0 | 115 | 0.8 |
| 5 | 0.0 | 42 | 13.7 | 79 | 1.3 | 116 | 5.0 |
| 6 | 0.0 | 43 | 12.7 | 80 | 4.0 | 117 | 7.6 |
| 7 | 0.0 | 44 | 10.1 | 81 | 6.9 | 118 | 9.1 |
| 8 | 0.0 | 45 | 5.5 | 82 | 9.8 | 119 | 11.0 |
| 9 | 0.0 | 46 | 1.2 | 83 | 14.0 | 120 | 11.3 |
| 10 | 0.0 | 47 | 0.0 | 84 | 16.7 | 121 | 12.3 |
| 11 | 0.0 | 48 | 0.0 | 85 | 19.3 | 122 | 13.4 |
| 12 | 0.0 | 49 | 0.0 | 86 | 21.8 | 123 | 13.8 |
| 13 | 0.0 | 50 | 0.0 | 87 | 24.0 | 124 | 14.4 |
| 14 | 0.0 | 51 | 0.9 | 88 | 25.5 | 125 | 14.1 |
| 15 | 0.0 | 52 | 2.3 | 89 | 26.9 | 126 | 14.3 |
| 16 | 0.0 | 53 | 3.1 | 90 | 28.0 | 127 | 14.3 |
| 17 | 0.0 | 54 | 5.3 | 91 | 28.7 | 128 | 14.1 |
| 18 | 0.0 | 55 | 5.8 | 92 | 28.7 | 129 | 13.4 |
| 19 | 0.0 | 56 | 8.6 | 93 | 28.7 | 130 | 12.0 |
| 20 | 0.0 | 57 | 11.7 | 94 | 27.7 | 131 | 11.8 |
| 21 | 0.0 | 58 | 13.8 | 95 | 26.6 | 132 | 10.7 |
| 22 | 0.0 | 59 | 17.0 | 96 | 25.4 | 133 | 7.8 |
| 23 | 0.0 | 60 | 18.7 | 97 | 24.5 | 134 | 7.3 |
| 24 | 0.0 | 61 | 18.2 | 98 | 23.7 | 135 | 6.5 |
| 25 | 0.0 | 62 | 17.7 | 99 | 22.7 | 136 | 5.9 |
| 26 | 0.0 | 63 | 14.7 | 100 | 21.9 | 137 | 3.4 |
| 27 | 0.0 | 64 | 13.6 | 101 | 20.5 | 138 | 2.6 |
| 28 | 0.0 | 65 | 10.6 | 102 | 17.8 | 139 | 3.7 |
| 29 | 0.0 | 66 | 7.6 | 103 | 15.8 | 140 | 2.0 |
| 30 | 0.0 | 67 | 6.1 | 104 | 11.9 | 141 | 4.5 |
| 31 | 2.1 | 68 | 4.4 | 105 | 7.1 | 142 | 6.8 |
| 32 | 5.1 | 69 | 3.6 | 106 | 3.2 | 143 | 7.0 |
| 33 | 8.2 | 70 | 2.8 | 107 | 0.0 | 144 | 7.1 |
| 34 | 10.2 | 71 | 1.0 | 108 | 0.0 | 145 | 7.3 |
| 35 | 12.9 | 72 | 0.7 | 109 | 0.0 | 146 | 6.8 |
| 36 | 15.1 | 73 | 0.0 | 110 | 0.0 | 147 | 6.2 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 148 | 2.3 | 186 | 16.6 | 224 | 4.4 | 262 | 7.3 |
| 149 | 0.0 | 187 | 16.8 | 225 | 5.4 | 263 | 5.4 |
| 150 | 0.0 | 188 | 16.7 | 226 | 5.6 | 264 | 3.0 |
| 151 | 0.0 | 189 | 17.4 | 227 | 4.8 | 265 | 0.7 |
| 152 | 0.0 | 190 | 17.8 | 228 | 3.8 | 266 | 0.0 |
| 153 | 0.0 | 191 | 18.1 | 229 | 4.9 | 267 | 0.0 |
| 154 | 0.0 | 192 | 17.5 | 230 | 6.2 | 268 | 0.0 |
| 155 | 0.0 | 193 | 15.0 | 231 | 2.4 | 269 | 0.0 |
| 156 | 0.0 | 194 | 12.0 | 232 | 2.5 | 270 | 0.0 |
| 157 | 0.0 | 195 | 9.4 | 233 | 3.2 | 271 | 0.0 |
| 158 | 0.0 | 196 | 7.6 | 234 | 4.3 | 272 | 0.0 |
| 159 | 0.0 | 197 | 5.8 | 235 | 6.0 | 273 | 0.0 |
| 160 | 2.2 | 198 | 3.8 | 236 | 4.1 | 274 | 0.0 |
| 161 | 5.3 | 199 | 3.0 | 237 | 3.3 | 275 | 0.0 |
| 162 | 8.1 | 200 | 2.9 | 238 | 3.8 | 276 | 0.0 |
| 163 | 9.9 | 201 | 0.0 | 239 | 4.3 | 277 | 0.0 |
| 164 | 10.4 | 202 | 0.0 | 240 | 4.7 | 278 | 0.0 |
| 165 | 10.5 | 203 | 0.0 | 241 | 6.3 | 279 | 0.0 |
| 166 | 11.4 | 204 | 0.0 | 242 | 6.8 | 280 | 0.0 |
| 167 | 14.2 | 205 | 0.0 | 243 | 5.8 | 281 | 0.0 |
| 168 | 16.5 | 206 | 0.0 | 244 | 4.1 | 282 | 0.0 |
| 169 | 18.3 | 207 | 0.0 | 245 | 4.1 | 283 | 0.0 |
| 170 | 19.2 | 208 | 0.0 | 246 | 4.4 | 284 | 0.0 |
| 171 | 19.2 | 209 | 0.0 | 247 | 6.2 | 285 | 0.0 |
| 172 | 19.9 | 210 | 0.0 | 248 | 7.1 | 286 | 0.0 |
| 173 | 21.1 | 211 | 0.0 | 249 | 10.1 | 287 | 0.0 |
| 174 | 23.0 | 212 | 0.0 | 250 | 12.6 | 288 | 0.0 |
| 175 | 24.2 | 213 | 0.0 | 251 | 13.4 | 289 | 0.0 |
| 176 | 25.6 | 214 | 0.0 | 252 | 12.7 | 290 | 2.3 |
| 177 | 25.9 | 215 | 0.0 | 253 | 12.3 | 291 | 4.3 |
| 178 | 25.4 | 216 | 0.5 | 254 | 12.5 | 292 | 6.9 |
| 179 | 25.2 | 217 | 0.6 | 255 | 9.7 | 293 | 6.3 |
| 180 | 25.5 | 218 | 0.8 | 256 | 7.4 | 294 | 4.8 |
| 181 | 26.0 | 219 | 1.4 | 257 | 6.3 | 295 | 3.9 |
| 182 | 25.7 | 220 | 2.1 | 258 | 5.9 | 296 | 4.9 |
| 183 | 22.5 | 221 | 1.9 | 259 | 7.7 | 297 | 5.3 |
| 184 | 19.6 | 222 | 2.2 | 260 | 7.5 | 298 | 5.1 |
| 185 | 17.5 | 223 | 3.1 | 261 | 7.6 | 299 | 5.0 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 300 | 5.1 | 338 | 5.6 | 376 | 0.0 | 414 | 27.6 |
| 301 | 5.2 | 339 | 4.3 | 377 | 0.0 | 415 | 27.1 |
| 302 | 5.2 | 340 | 3.3 | 378 | 0.0 | 416 | 27.0 |
| 303 | 5.6 | 341 | 1.8 | 379 | 0.0 | 417 | 29.0 |
| 304 | 6.7 | 342 | 1.3 | 380 | 0.0 | 418 | 30.0 |
| 305 | 8.5 | 343 | 1.3 | 381 | 0.0 | 419 | 29.8 |
| 306 | 8.5 | 344 | 1.1 | 382 | 0.0 | 420 | 31.0 |
| 307 | 8.6 | 345 | 0.9 | 383 | 0.0 | 421 | 30.9 |
| 308 | 9.4 | 346 | 0.7 | 384 | 0.0 | 422 | 29.4 |
| 309 | 10.0 | 347 | 0.5 | 385 | 0.0 | 423 | 26.0 |
| 310 | 8.7 | 348 | 0.9 | 386 | 0.0 | 424 | 21.7 |
| 311 | 9.4 | 349 | 2.0 | 387 | 0.0 | 425 | 25.9 |
| 312 | 9.6 | 350 | 1.7 | 388 | 0.0 | 426 | 21.6 |
| 313 | 10.5 | 351 | 1.4 | 389 | 0.0 | 427 | 17.1 |
| 314 | 11.7 | 352 | 0.9 | 390 | 0.0 | 428 | 14.1 |
| 315 | 13.3 | 353 | 0.8 | 391 | 0.0 | 429 | 12.8 |
| 316 | 15.2 | 354 | 1.0 | 392 | 0.0 | 430 | 10.7 |
| 317 | 17.1 | 355 | 1.0 | 393 | 0.0 | 431 | 6.9 |
| 318 | 18.4 | 356 | 0.6 | 394 | 0.0 | 432 | 3.2 |
| 319 | 18.7 | 357 | 0.0 | 395 | 0.0 | 433 | 0.0 |
| 320 | 19.1 | 358 | 0.0 | 396 | 0.0 | 434 | 0.0 |
| 321 | 19.2 | 359 | 0.0 | 397 | 0.0 | 435 | 0.0 |
| 322 | 18.9 | 360 | 0.0 | 398 | 0.0 | 436 | 0.0 |
| 323 | 18.7 | 361 | 0.0 | 399 | 0.0 | 437 | 0.0 |
| 324 | 19.9 | 362 | 0.0 | 400 | 0.9 | 438 | 0.0 |
| 325 | 20.6 | 363 | 0.0 | 401 | 4.2 | 439 | 0.0 |
| 326 | 20.5 | 364 | 0.0 | 402 | 6.1 | 440 | 0.8 |
| 327 | 20.1 | 365 | 0.0 | 403 | 8.1 | 441 | 3.8 |
| 328 | 19.6 | 366 | 0.0 | 404 | 11.5 | 442 | 8.4 |
| 329 | 19.2 | 367 | 0.0 | 405 | 14.6 | 443 | 9.6 |
| 330 | 16.5 | 368 | 0.0 | 406 | 14.8 | 444 | 12.8 |
| 331 | 14.4 | 369 | 0.0 | 407 | 15.0 | 445 | 17.1 |
| 332 | 12.7 | 370 | 0.0 | 408 | 17.3 | 446 | 19.6 |
| 333 | 9.6 | 371 | 0.0 | 409 | 19.7 | 447 | 21.2 |
| 334 | 7.2 | 372 | 0.0 | 410 | 22.3 | 448 | 23.2 |
| 335 | 7.2 | 373 | 0.0 | 411 | 25.1 | 449 | 24.2 |
| 336 | 7.4 | 374 | 0.0 | 412 | 25.1 | 450 | 23.8 |
| 337 | 6.9 | 375 | 0.0 | 413 | 25.7 | 451 | 23.3 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 452 | 23.3 | 490 | 7.1 | 528 | 4.2 | 566 | 30.0 |
| 453 | 23.6 | 491 | 10.8 | 529 | 2.3 | 567 | 29.7 |
| 454 | 22.8 | 492 | 13.3 | 530 | 0.9 | 568 | 28.7 |
| 455 | 25.8 | 493 | 16.4 | 531 | 0.0 | 569 | 28.6 |
| 456 | 26.6 | 494 | 17.0 | 532 | 0.0 | 570 | 27.6 |
| 457 | 25.6 | 495 | 20.5 | 533 | 0.0 | 571 | 27.1 |
| 458 | 27.6 | 496 | 23.6 | 534 | 0.0 | 572 | 26.9 |
| 459 | 29.1 | 497 | 25.7 | 535 | 0.0 | 573 | 26.5 |
| 460 | 30.4 | 498 | 27.4 | 536 | 0.0 | 574 | 26.2 |
| 461 | 31.9 | 499 | 29.1 | 537 | 0.0 | 575 | 25.3 |
| 462 | 33.2 | 500 | 30.4 | 538 | 0.0 | 576 | 23.5 |
| 463 | 36.7 | 501 | 32.2 | 539 | 0.6 | 577 | 22.1 |
| 464 | 36.0 | 502 | 33.3 | 540 | 4.8 | 578 | 20.2 |
| 465 | 38.6 | 503 | 34.4 | 541 | 9.6 | 579 | 19.2 |
| 466 | 40.3 | 504 | 35.4 | 542 | 13.9 | 580 | 16.8 |
| 467 | 41.0 | 505 | 36.5 | 543 | 17.4 | 581 | 14.4 |
| 468 | 40.3 | 506 | 37.3 | 544 | 18.1 | 582 | 11.3 |
| 469 | 37.2 | 507 | 37.5 | 545 | 18.9 | 583 | 8.0 |
| 470 | 32.9 | 508 | 37.1 | 546 | 21.0 | 584 | 5.1 |
| 471 | 29.8 | 509 | 37.0 | 547 | 22.7 | 585 | 2.9 |
| 472 | 29.0 | 510 | 37.2 | 548 | 22.8 | 586 | 2.1 |
| 473 | 25.3 | 511 | 36.9 | 549 | 22.3 | 587 | 1.0 |
| 474 | 22.0 | 512 | 36.2 | 550 | 22.1 | 588 | 0.7 |
| 475 | 18.1 | 513 | 35.6 | 551 | 21.4 | 589 | 0.0 |
| 476 | 14.5 | 514 | 34.9 | 552 | 21.6 | 590 | 0.0 |
| 477 | 9.8 | 515 | 33.8 | 553 | 22.0 | 591 | 0.0 |
| 478 | 5.4 | 516 | 32.5 | 554 | 22.1 | 592 | 0.0 |
| 479 | 2.9 | 517 | 32.8 | 555 | 22.5 | 593 | 0.0 |
| 480 | 0.0 | 518 | 31.9 | 556 | 24.8 | 594 | 0.0 |
| 481 | 0.0 | 519 | 29.3 | 557 | 27.3 | 595 | 0.0 |
| 482 | 0.0 | 520 | 28.0 | 558 | 28.5 | 596 | 0.0 |
| 483 | 0.0 | 521 | 26.6 | 559 | 30.0 | 597 | 0.0 |
| 484 | 0.0 | 522 | 23.3 | 560 | 31.6 | 598 | 2.9 |
| 485 | 0.0 | 523 | 19.6 | 561 | 31.9 | 599 | 4.7 |
| 486 | 0.0 | 524 | 17.5 | 562 | 30.4 | 600 | 7.7 |
| 487 | 0.9 | 525 | 13.3 | 563 | 30.7 | 601 | 11.3 |
| 488 | 2.9 | 526 | 10.0 | 564 | 30.9 | 602 | 15.4 |
| 489 | 4.5 | 527 | 6.8 | 565 | 30.5 | 603 | 19.1 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 604 | 20.9 | 642 | 26.4 | 680 | 25.0 | 718 | 39.4 |
| 605 | 24.0 | 643 | 29.4 | 681 | 23.7 | 719 | 39.3 |
| 606 | 24.4 | 644 | 27.3 | 682 | 24.4 | 720 | 38.9 |
| 607 | 20.8 | 645 | 25.3 | 683 | 21.9 | 721 | 38.4 |
| 608 | 23.0 | 646 | 21.2 | 684 | 19.8 | 722 | 38.2 |
| 609 | 23.5 | 647 | 16.7 | 685 | 16.0 | 723 | 37.5 |
| 610 | 18.7 | 648 | 11.9 | 686 | 11.7 | 724 | 34.9 |
| 611 | 15.5 | 649 | 7.2 | 687 | 10.5 | 725 | 32.6 |
| 612 | 19.2 | 650 | 4.5 | 688 | 11.0 | 726 | 29.6 |
| 613 | 20.2 | 651 | 2.1 | 689 | 13.8 | 727 | 27.3 |
| 614 | 23.0 | 652 | 1.8 | 690 | 14.7 | 728 | 23.2 |
| 615 | 25.0 | 653 | 1.2 | 691 | 17.4 | 729 | 19.7 |
| 616 | 28.4 | 654 | 1.7 | 692 | 19.8 | 730 | 15.4 |
| 617 | 26.0 | 655 | 0.6 | 693 | 24.2 | 731 | 11.3 |
| 618 | 29.5 | 656 | 0.0 | 694 | 28.8 | 732 | 7.4 |
| 619 | 32.6 | 657 | 0.0 | 695 | 32.9 | 733 | 2.6 |
| 620 | 32.6 | 658 | 0.0 | 696 | 34.3 | 734 | 0.0 |
| 621 | 33.7 | 659 | 0.0 | 697 | 36.1 | 735 | 0.0 |
| 622 | 35.9 | 660 | 0.0 | 698 | 38.5 | 736 | 0.0 |
| 623 | 37.4 | 661 | 0.0 | 699 | 40.1 | 737 | 0.0 |
| 624 | 36.8 | 662 | 0.0 | 700 | 42.0 | 738 | 0.0 |
| 625 | 34.8 | 663 | 0.0 | 701 | 43.9 | 739 | 0.0 |
| 626 | 33.8 | 664 | 0.0 | 702 | 45.4 | 740 | 0.0 |
| 627 | 32.9 | 665 | 0.0 | 703 | 45.6 | 741 | 0.0 |
| 628 | 28.8 | 666 | 0.0 | 704 | 45.0 | 742 | 0.0 |
| 629 | 24.5 | 667 | 0.0 | 705 | 44.3 | 743 | 0.0 |
| 630 | 20.0 | 668 | 3.0 | 706 | 43.7 | 744 | 0.0 |
| 631 | 18.1 | 669 | 3.6 | 707 | 43.4 | 745 | 0.0 |
| 632 | 18.8 | 670 | 3.7 | 708 | 42.1 | 746 | 0.0 |
| 633 | 17.7 | 671 | 7.3 | 709 | 42.1 | 747 | 0.0 |
| 634 | 21.5 | 672 | 9.5 | 710 | 42.3 | 748 | 1.0 |
| 635 | 21.1 | 673 | 12.3 | 711 | 40.7 | 749 | 3.9 |
| 636 | 22.4 | 674 | 15.5 | 712 | 39.8 | 750 | 6.9 |
| 637 | 20.2 | 675 | 18.1 | 713 | 40.3 | 751 | 10.0 |
| 638 | 25.1 | 676 | 20.8 | 714 | 40.9 | 752 | 13.3 |
| 639 | 23.1 | 677 | 23.1 | 715 | 40.6 | 753 | 16.7 |
| 640 | 18.5 | 678 | 22.8 | 716 | 40.6 | 754 | 20.1 |
| 641 | 22.3 | 679 | 24.5 | 717 | 39.6 | 755 | 22.8 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 756 | 25.4 | 794 | 35.9 | 832 | 3.2 | 870 | 11.3 |
| 757 | 27.0 | 795 | 35.0 | 833 | 3.8 | 871 | 12.1 |
| 758 | 28.4 | 796 | 34.0 | 834 | 4.6 | 872 | 12.2 |
| 759 | 29.8 | 797 | 33.2 | 835 | 7.4 | 873 | 12.7 |
| 760 | 30.8 | 798 | 32.4 | 836 | 10.3 | 874 | 12.5 |
| 761 | 31.0 | 799 | 31.8 | 837 | 13.6 | 875 | 15.1 |
| 762 | 31.0 | 800 | 31.2 | 838 | 17.1 | 876 | 16.3 |
| 763 | 31.3 | 801 | 30.6 | 839 | 20.1 | 877 | 13.8 |
| 764 | 32.2 | 802 | 28.9 | 840 | 20.3 | 878 | 12.7 |
| 765 | 32.6 | 803 | 27.2 | 841 | 21.8 | 879 | 15.8 |
| 766 | 32.8 | 804 | 26.4 | 842 | 23.4 | 880 | 20.4 |
| 767 | 33.0 | 805 | 25.8 | 843 | 23.0 | 881 | 23.1 |
| 768 | 32.9 | 806 | 25.0 | 844 | 22.5 | 882 | 25.3 |
| 769 | 33.1 | 807 | 23.9 | 845 | 21.0 | 883 | 28.7 |
| 770 | 33.5 | 808 | 20.6 | 846 | 18.7 | 884 | 29.7 |
| 771 | 34.1 | 809 | 16.2 | 847 | 20.0 | 885 | 32.2 |
| 772 | 35.0 | 810 | 14.7 | 848 | 17.0 | 886 | 33.0 |
| 773 | 35.9 | 811 | 17.7 | 849 | 15.9 | 887 | 32.5 |
| 774 | 36.2 | 812 | 17.3 | 850 | 12.1 | 888 | 31.2 |
| 775 | 37.0 | 813 | 13.4 | 851 | 10.1 | 889 | 28.7 |
| 776 | 37.4 | 814 | 8.8 | 852 | 7.1 | 890 | 27.5 |
| 777 | 37.3 | 815 | 4.2 | 853 | 4.6 | 891 | 26.1 |
| 778 | 37.0 | 816 | 0.0 | 854 | 5.1 | 892 | 24.5 |
| 779 | 36.5 | 817 | 0.0 | 855 | 1.8 | 893 | 22.7 |
| 780 | 36.3 | 818 | 0.0 | 856 | 0.5 | 894 | 20.3 |
| 781 | 36.1 | 819 | 0.0 | 857 | 0.5 | 895 | 17.3 |
| 782 | 36.5 | 820 | 0.0 | 858 | 0.6 | 896 | 15.8 |
| 783 | 37.2 | 821 | 0.0 | 859 | 1.2 | 897 | 13.1 |
| 784 | 38.0 | 822 | 0.0 | 860 | 3.1 | 898 | 10.7 |
| 785 | 38.5 | 823 | 0.0 | 861 | 3.1 | 899 | 8.9 |
| 786 | 38.7 | 824 | 0.0 | 862 | 5.0 | 900 | 7.6 |
| 787 | 39.0 | 825 | 0.0 | 863 | 8.6 | 901 | 6.6 |
| 788 | 38.8 | 826 | 0.0 | 864 | 9.5 | 902 | 4.4 |
| 789 | 38.7 | 827 | 0.0 | 865 | 9.7 | 903 | 3.6 |
| 790 | 38.4 | 828 | 0.0 | 866 | 13.4 | 904 | 2.9 |
| 791 | 38.0 | 829 | 0.0 | 867 | 14.1 | 905 | 1.9 |
| 792 | 37.3 | 830 | 1.2 | 868 | 12.8 | 906 | 1.7 |
| 793 | 36.4 | 831 | 2.5 | 869 | 11.1 | 907 | 1.1 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 908 | 0.0 | 946 | 10.9 | 984 | 25.8 | 1022 | 0.0 |
| 909 | 0.0 | 947 | 11.0 | 985 | 28.4 | 1023 | 0.0 |
| 910 | 0.0 | 948 | 11.6 | 986 | 29.4 | 1024 | 0.0 |
| 911 | 0.0 | 949 | 12.5 | 987 | 32.4 | 1025 | 0.0 |
| 912 | 0.0 | 950 | 11.6 | 988 | 33.5 | 1026 | 0.0 |
| 913 | 0.0 | 951 | 12.7 | 989 | 34.9 | 1027 | 0.0 |
| 914 | 0.0 | 952 | 12.5 | 990 | 36.0 | 1028 | 0.0 |
| 915 | 0.0 | 953 | 16.6 | 991 | 35.6 | 1029 | 0.0 |
| 916 | 0.0 | 954 | 16.8 | 992 | 36.7 | 1030 | 1.2 |
| 917 | 0.0 | 955 | 17.7 | 993 | 37.2 | 1031 | 2.4 |
| 918 | 0.0 | 956 | 17.4 | 994 | 37.2 | 1032 | 5.8 |
| 919 | 0.0 | 957 | 17.4 | 995 | 37.2 | 1033 | 6.3 |
| 920 | 0.0 | 958 | 18.6 | 996 | 36.3 | 1034 | 6.1 |
| 921 | 0.0 | 959 | 18.7 | 997 | 34.8 | 1035 | 7.2 |
| 922 | 0.0 | 960 | 18.7 | 998 | 32.9 | 1036 | 6.6 |
| 923 | 0.0 | 961 | 17.4 | 999 | 33.0 | 1037 | 7.2 |
| 924 | 0.0 | 962 | 18.3 | 1000 | 31.8 | 1038 | 7.7 |
| 925 | 0.1 | 963 | 18.4 | 1001 | 31.2 | 1039 | 6.2 |
| 926 | 3.2 | 964 | 20.2 | 1002 | 29.0 | 1040 | 5.3 |
| 927 | 6.4 | 965 | 21.1 | 1003 | 26.8 | 1041 | 5.7 |
| 928 | 8.6 | 966 | 21.3 | 1004 | 24.8 | 1042 | 8.1 |
| 929 | 9.4 | 967 | 22.7 | 1005 | 21.0 | 1043 | 12.3 |
| 930 | 8.9 | 968 | 24.2 | 1006 | 16.5 | 1044 | 9.9 |
| 931 | 8.3 | 969 | 25.1 | 1007 | 11.9 | 1045 | 9.3 |
| 932 | 9.3 | 970 | 24.6 | 1008 | 8.0 | 1046 | 10.7 |
| 933 | 11.3 | 971 | 22.8 | 1009 | 3.7 | 1047 | 12.8 |
| 934 | 11.7 | 972 | 22.3 | 1010 | 1.8 | 1048 | 13.8 |
| 935 | 11.2 | 973 | 18.7 | 1011 | 0.0 | 1049 | 14.7 |
| 936 | 9.4 | 974 | 14.3 | 1012 | 0.0 | 1050 | 13.6 |
| 937 | 11.5 | 975 | 9.8 | 1013 | 0.0 | 1051 | 12.2 |
| 938 | 10.9 | 976 | 8.2 | 1014 | 0.0 | 1052 | 9.2 |
| 939 | 11.0 | 977 | 9.5 | 1015 | 0.0 | 1053 | 6.9 |
| 940 | 10.8 | 978 | 13.2 | 1016 | 0.0 | 1054 | 6.0 |
| 941 | 10.8 | 979 | 14.6 | 1017 | 0.0 | 1055 | 6.5 |
| 942 | 9.8 | 980 | 15.7 | 1018 | 0.0 | 1056 | 9.0 |
| 943 | 9.2 | 981 | 17.6 | 1019 | 0.0 | 1057 | 11.5 |
| 944 | 9.4 | 982 | 19.4 | 1020 | 0.0 | 1058 | 13.9 |
| 945 | 10.2 | 983 | 23.5 | 1021 | 0.0 | 1059 | 15.7 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1060 | 16.6 | 1098 | 42.7 | 1136 | 0.0 | 1174 | 27.0 |
| 1061 | 20.4 | 1099 | 42.8 | 1137 | 0.0 | 1175 | 25.2 |
| 1062 | 21.1 | 1100 | 39.5 | 1138 | 0.0 | 1176 | 25.9 |
| 1063 | 23.9 | 1101 | 40.2 | 1139 | 0.0 | 1177 | 25.9 |
| 1064 | 25.9 | 1102 | 41.4 | 1140 | 0.0 | 1178 | 21.4 |
| 1065 | 26.8 | 1103 | 41.5 | 1141 | 0.0 | 1179 | 22.5 |
| 1066 | 26.9 | 1104 | 41.5 | 1142 | 0.0 | 1180 | 23.2 |
| 1067 | 26.9 | 1105 | 40.7 | 1143 | 0.0 | 1181 | 19.1 |
| 1068 | 29.2 | 1106 | 40.6 | 1144 | 0.0 | 1182 | 19.1 |
| 1069 | 30.6 | 1107 | 39.4 | 1145 | 0.0 | 1183 | 17.6 |
| 1070 | 30.6 | 1108 | 37.3 | 1146 | 0.0 | 1184 | 18.5 |
| 1071 | 32.3 | 1109 | 34.9 | 1147 | 0.0 | 1185 | 19.1 |
| 1072 | 34.2 | 1110 | 30.2 | 1148 | 0.0 | 1186 | 21.5 |
| 1073 | 30.6 | 1111 | 26.2 | 1149 | 0.0 | 1187 | 21.5 |
| 1074 | 32.9 | 1112 | 22.0 | 1150 | 0.0 | 1188 | 22.1 |
| 1075 | 32.2 | 1113 | 21.3 | 1151 | 0.0 | 1189 | 25.0 |
| 1076 | 35.6 | 1114 | 20.7 | 1152 | 1.6 | 1190 | 25.0 |
| 1077 | 36.6 | 1115 | 20.5 | 1153 | 5.5 | 1191 | 26.9 |
| 1078 | 39.5 | 1116 | 20.5 | 1154 | 5.5 | 1192 | 26.9 |
| 1079 | 40.3 | 1117 | 19.8 | 1155 | 8.9 | 1193 | 27.7 |
| 1080 | 40.4 | 1118 | 19.6 | 1156 | 11.2 | 1194 | 30.8 |
| 1081 | 41.2 | 1119 | 20.4 | 1157 | 11.2 | 1195 | 31.0 |
| 1082 | 41.3 | 1120 | 21.0 | 1158 | 13.4 | 1196 | 29.6 |
| 1083 | 43.7 | 1121 | 21.7 | 1159 | 16.9 | 1197 | 29.6 |
| 1084 | 40.6 | 1122 | 18.9 | 1160 | 16.9 | 1198 | 32.5 |
| 1085 | 43.8 | 1123 | 15.9 | 1161 | 17.3 | 1199 | 35.0 |
| 1086 | 39.2 | 1124 | 12.8 | 1162 | 19.0 | 1200 | 33.3 |
| 1087 | 41.4 | 1125 | 8.4 | 1163 | 20.1 | 1201 | 31.4 |
| 1088 | 41.9 | 1126 | 3.4 | 1164 | 21.0 | 1202 | 31.4 |
| 1089 | 42.1 | 1127 | 0.0 | 1165 | 22.0 | 1203 | 33.5 |
| 1090 | 42.9 | 1128 | 0.0 | 1166 | 22.0 | 1204 | 35.1 |
| 1091 | 43.3 | 1129 | 0.0 | 1167 | 22.8 | 1205 | 33.4 |
| 1092 | 42.7 | 1130 | 0.0 | 1168 | 19.7 | 1206 | 35.8 |
| 1093 | 42.3 | 1131 | 0.0 | 1169 | 20.8 | 1207 | 35.8 |
| 1094 | 42.0 | 1132 | 0.0 | 1170 | 22.8 | 1208 | 34.8 |
| 1095 | 42.4 | 1133 | 0.0 | 1171 | 25.8 | 1209 | 32.0 |
| 1096 | 42.7 | 1134 | 0.0 | 1172 | 25.8 | 1210 | 32.8 |
| 1097 | 41.8 | 1135 | 0.0 | 1173 | 25.9 | 1211 | 33.3 |

表A.4　CHTC-B工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1212 | 33.3 | 1237 | 39.7 | 1262 | 31.7 | 1287 | 0.0 |
| 1213 | 33.3 | 1238 | 40.3 | 1263 | 28.3 | 1288 | 0.0 |
| 1214 | 33.3 | 1239 | 39.9 | 1264 | 23.6 | 1289 | 0.0 |
| 1215 | 33.7 | 1240 | 40.0 | 1265 | 20.4 | 1290 | 0.0 |
| 1216 | 33.7 | 1241 | 40.1 | 1266 | 15.8 | 1291 | 0.0 |
| 1217 | 33.7 | 1242 | 39.7 | 1267 | 11.3 | 1292 | 0.0 |
| 1218 | 34.4 | 1243 | 39.5 | 1268 | 6.5 | 1293 | 0.0 |
| 1219 | 35.1 | 1244 | 39.4 | 1269 | 2.0 | 1294 | 0.0 |
| 1220 | 34.6 | 1245 | 39.1 | 1270 | 0.0 | 1295 | 0.0 |
| 1221 | 35.0 | 1246 | 38.5 | 1271 | 0.0 | 1296 | 0.0 |
| 1222 | 35.0 | 1247 | 38.4 | 1272 | 0.0 | 1297 | 0.0 |
| 1223 | 35.0 | 1248 | 37.6 | 1273 | 0.0 | 1298 | 0.0 |
| 1224 | 36.6 | 1249 | 38.2 | 1274 | 0.0 | 1299 | 0.0 |
| 1225 | 37.6 | 1250 | 37.8 | 1275 | 0.0 | 1300 | 0.0 |
| 1226 | 37.4 | 1251 | 37.1 | 1276 | 0.0 | 1301 | 0.0 |
| 1227 | 37.4 | 1252 | 36.7 | 1277 | 0.0 | 1302 | 0.0 |
| 1228 | 37.6 | 1253 | 36.7 | 1278 | 0.0 | 1303 | 0.0 |
| 1229 | 37.3 | 1254 | 36.2 | 1279 | 0.0 | 1304 | 0.0 |
| 1230 | 37.8 | 1255 | 35.6 | 1280 | 0.0 | 1305 | 0.0 |
| 1231 | 37.7 | 1256 | 34.6 | 1281 | 0.0 | 1306 | 0.0 |
| 1232 | 37.6 | 1257 | 34.5 | 1282 | 0.0 | 1307 | 0.0 |
| 1233 | 37.9 | 1258 | 34.5 | 1283 | 0.0 | 1308 | 0.0 |
| 1234 | 39.2 | 1259 | 33.8 | 1284 | 0.0 | 1309 | 0.0 |
| 1235 | 39.8 | 1260 | 33.4 | 1285 | 0.0 | 1310 | 0.0 |
| 1236 | 39.8 | 1261 | 33.0 | 1286 | 0.0 |  |  |

* 1. CHTC-C工况数据见表A.4

表A.4　CHTC-C工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 37 | 10.5 | 74 | 6.3 | 111 | 17.7 |
| 1 | 0.0 | 38 | 10.3 | 75 | 5.3 | 112 | 13.2 |
| 2 | 0.0 | 39 | 10.0 | 76 | 5.1 | 113 | 10.1 |
| 3 | 0.0 | 40 | 7.9 | 77 | 4.1 | 114 | 8.2 |
| 4 | 0.0 | 41 | 6.9 | 78 | 0.0 | 115 | 5.4 |
| 5 | 0.0 | 42 | 6.9 | 79 | 0.0 | 116 | 3.0 |
| 6 | 0.0 | 43 | 6.8 | 80 | 0.0 | 117 | 0.0 |
| 7 | 0.0 | 44 | 7.0 | 81 | 0.0 | 118 | 0.0 |
| 8 | 0.0 | 45 | 5.4 | 82 | 0.0 | 119 | 0.0 |
| 9 | 0.0 | 46 | 3.0 | 83 | 0.0 | 120 | 0.0 |
| 10 | 0.0 | 47 | 2.1 | 84 | 0.0 | 121 | 0.0 |
| 11 | 0.0 | 48 | 1.1 | 85 | 0.0 | 122 | 0.0 |
| 12 | 0.0 | 49 | 0.0 | 86 | 1.0 | 123 | 0.0 |
| 13 | 0.0 | 50 | 0.0 | 87 | 3.8 | 124 | 0.0 |
| 14 | 0.0 | 51 | 0.0 | 88 | 8.3 | 125 | 0.0 |
| 15 | 0.0 | 52 | 0.0 | 89 | 11.1 | 126 | 0.0 |
| 16 | 0.0 | 53 | 0.0 | 90 | 14.6 | 127 | 0.0 |
| 17 | 0.0 | 54 | 0.0 | 91 | 17.0 | 128 | 0.0 |
| 18 | 0.0 | 55 | 0.4 | 92 | 17.7 | 129 | 0.0 |
| 19 | 0.0 | 56 | 0.8 | 93 | 19.4 | 130 | 0.0 |
| 20 | 0.0 | 57 | 2.2 | 94 | 21.3 | 131 | 0.0 |
| 21 | 0.0 | 58 | 3.6 | 95 | 22.1 | 132 | 0.0 |
| 22 | 0.0 | 59 | 4.6 | 96 | 21.9 | 133 | 0.1 |
| 23 | 0.0 | 60 | 5.8 | 97 | 21.3 | 134 | 0.7 |
| 24 | 0.0 | 61 | 6.9 | 98 | 21.7 | 135 | 2.0 |
| 25 | 0.0 | 62 | 7.8 | 99 | 22.6 | 136 | 3.0 |
| 26 | 0.0 | 63 | 8.7 | 100 | 24.4 | 137 | 5.0 |
| 27 | 0.0 | 64 | 9.4 | 101 | 25.5 | 138 | 7.1 |
| 28 | 0.0 | 65 | 10.6 | 102 | 27.3 | 139 | 9.2 |
| 29 | 0.0 | 66 | 12.0 | 103 | 28.4 | 140 | 9.3 |
| 30 | 0.0 | 67 | 13.0 | 104 | 28.5 | 141 | 12.1 |
| 31 | 0.5 | 68 | 13.5 | 105 | 27.9 | 142 | 15.3 |
| 32 | 2.2 | 69 | 13.0 | 106 | 27.7 | 143 | 16.9 |
| 33 | 3.0 | 70 | 11.5 | 107 | 26.8 | 144 | 16.6 |
| 34 | 4.9 | 71 | 10.6 | 108 | 25.5 | 145 | 16.5 |
| 35 | 7.3 | 72 | 9.4 | 109 | 23.7 | 146 | 16.0 |
| 36 | 9.3 | 73 | 7.8 | 110 | 20.7 | 147 | 16.9 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 148 | 16.6 | 186 | 0.0 | 224 | 3.8 | 262 | 0.0 |
| 149 | 16.9 | 187 | 0.0 | 225 | 2.8 | 263 | 0.0 |
| 150 | 16.9 | 188 | 0.0 | 226 | 1.8 | 264 | 0.0 |
| 151 | 16.2 | 189 | 0.0 | 227 | 1.9 | 265 | 0.0 |
| 152 | 15.2 | 190 | 0.0 | 228 | 3.3 | 266 | 0.0 |
| 153 | 15.9 | 191 | 0.0 | 229 | 4.6 | 267 | 0.0 |
| 154 | 17.1 | 192 | 0.0 | 230 | 5.5 | 268 | 0.0 |
| 155 | 17.7 | 193 | 0.0 | 231 | 5.9 | 269 | 0.0 |
| 156 | 19.2 | 194 | 0.0 | 232 | 5.7 | 270 | 0.0 |
| 157 | 20.2 | 195 | 0.0 | 233 | 5.4 | 271 | 0.0 |
| 158 | 20.6 | 196 | 0.0 | 234 | 6.1 | 272 | 0.0 |
| 159 | 21.0 | 197 | 0.0 | 235 | 6.3 | 273 | 0.0 |
| 160 | 19.7 | 198 | 0.0 | 236 | 5.9 | 274 | 0.0 |
| 161 | 18.8 | 199 | 1.3 | 237 | 7.1 | 275 | 0.0 |
| 162 | 17.4 | 200 | 1.4 | 238 | 8.7 | 276 | 0.0 |
| 163 | 15.1 | 201 | 1.6 | 239 | 10.3 | 277 | 0.0 |
| 164 | 14.9 | 202 | 1.6 | 240 | 11.4 | 278 | 0.0 |
| 165 | 15.0 | 203 | 1.3 | 241 | 10.3 | 279 | 0.0 |
| 166 | 14.3 | 204 | 0.9 | 242 | 9.9 | 280 | 0.0 |
| 167 | 11.3 | 205 | 0.8 | 243 | 10.1 | 281 | 0.0 |
| 168 | 10.6 | 206 | 1.1 | 244 | 9.3 | 282 | 0.0 |
| 169 | 9.8 | 207 | 0.7 | 245 | 7.7 | 283 | 0.0 |
| 170 | 5.9 | 208 | 1.2 | 246 | 7.5 | 284 | 0.0 |
| 171 | 2.6 | 209 | 3.2 | 247 | 9.6 | 285 | 0.0 |
| 172 | 0.0 | 210 | 5.6 | 248 | 9.4 | 286 | 0.0 |
| 173 | 0.0 | 211 | 6.8 | 249 | 6.6 | 287 | 0.0 |
| 174 | 0.0 | 212 | 7.2 | 250 | 3.4 | 288 | 0.0 |
| 175 | 0.0 | 213 | 7.3 | 251 | 2.4 | 289 | 0.0 |
| 176 | 0.0 | 214 | 7.6 | 252 | 1.8 | 290 | 0.0 |
| 177 | 0.0 | 215 | 7.7 | 253 | 1.1 | 291 | 0.0 |
| 178 | 0.0 | 216 | 7.5 | 254 | 0.5 | 292 | 0.0 |
| 179 | 0.0 | 217 | 8.7 | 255 | 0.0 | 293 | 0.0 |
| 180 | 0.0 | 218 | 10.0 | 256 | 0.0 | 294 | 0.0 |
| 181 | 0.0 | 219 | 9.3 | 257 | 0.0 | 295 | 0.0 |
| 182 | 0.0 | 220 | 7.6 | 258 | 0.0 | 296 | 0.0 |
| 183 | 0.0 | 221 | 5.4 | 259 | 0.0 | 297 | 0.0 |
| 184 | 0.0 | 222 | 5.0 | 260 | 0.0 | 298 | 0.0 |
| 185 | 0.0 | 223 | 5.1 | 261 | 0.0 | 299 | 0.0 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 300 | 0.0 | 338 | 11.6 | 376 | 36.0 | 414 | 25.8 |
| 301 | 0.0 | 339 | 7.1 | 377 | 33.1 | 415 | 27.7 |
| 302 | 0.0 | 340 | 3.2 | 378 | 28.7 | 416 | 29.8 |
| 303 | 0.0 | 341 | 0.0 | 379 | 28.1 | 417 | 32.0 |
| 304 | 0.0 | 342 | 0.0 | 380 | 28.2 | 418 | 34.4 |
| 305 | 2.3 | 343 | 0.0 | 381 | 28.4 | 419 | 37.6 |
| 306 | 5.7 | 344 | 0.0 | 382 | 26.6 | 420 | 38.9 |
| 307 | 9.0 | 345 | 0.0 | 383 | 22.2 | 421 | 39.4 |
| 308 | 12.7 | 346 | 2.4 | 384 | 18.3 | 422 | 41.0 |
| 309 | 16.4 | 347 | 2.2 | 385 | 16.8 | 423 | 42.8 |
| 310 | 19.8 | 348 | 3.4 | 386 | 14.7 | 424 | 44.0 |
| 311 | 19.8 | 349 | 7.3 | 387 | 10.9 | 425 | 44.4 |
| 312 | 19.6 | 350 | 11.0 | 388 | 7.2 | 426 | 43.1 |
| 313 | 21.8 | 351 | 14.6 | 389 | 5.7 | 427 | 42.4 |
| 314 | 24.1 | 352 | 18.3 | 390 | 4.7 | 428 | 43.8 |
| 315 | 26.8 | 353 | 20.4 | 391 | 4.8 | 429 | 43.8 |
| 316 | 28.9 | 354 | 20.3 | 392 | 3.5 | 430 | 45.5 |
| 317 | 31.4 | 355 | 20.9 | 393 | 3.6 | 431 | 48.4 |
| 318 | 32.4 | 356 | 23.5 | 394 | 3.3 | 432 | 51.1 |
| 319 | 32.5 | 357 | 26.1 | 395 | 0.0 | 433 | 54.1 |
| 320 | 32.7 | 358 | 29.2 | 396 | 0.0 | 434 | 56.2 |
| 321 | 34.1 | 359 | 28.6 | 397 | 0.0 | 435 | 56.2 |
| 322 | 35.9 | 360 | 27.7 | 398 | 0.0 | 436 | 54.8 |
| 323 | 37.3 | 361 | 28.2 | 399 | 0.0 | 437 | 52.8 |
| 324 | 38.7 | 362 | 29.5 | 400 | 0.0 | 438 | 51.7 |
| 325 | 40.5 | 363 | 28.2 | 401 | 0.0 | 439 | 47.9 |
| 326 | 41.9 | 364 | 27.3 | 402 | 0.0 | 440 | 46.7 |
| 327 | 43.1 | 365 | 29.3 | 403 | 0.0 | 441 | 43.2 |
| 328 | 42.8 | 366 | 29.9 | 404 | 0.0 | 442 | 41.3 |
| 329 | 42.5 | 367 | 30.8 | 405 | 0.0 | 443 | 40.7 |
| 330 | 41.9 | 368 | 31.0 | 406 | 2.6 | 444 | 40.2 |
| 331 | 39.8 | 369 | 33.1 | 407 | 5.3 | 445 | 39.8 |
| 332 | 37.6 | 370 | 35.8 | 408 | 8.7 | 446 | 39.3 |
| 333 | 33.5 | 371 | 37.3 | 409 | 12.3 | 447 | 38.8 |
| 334 | 29.3 | 372 | 38.5 | 410 | 15.9 | 448 | 38.6 |
| 335 | 25.3 | 373 | 39.3 | 411 | 20.5 | 449 | 38.2 |
| 336 | 20.8 | 374 | 38.0 | 412 | 24.9 | 450 | 38.3 |
| 337 | 16.2 | 375 | 36.2 | 413 | 24.6 | 451 | 34.0 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 452 | 29.7 | 490 | 33.3 | 528 | 45.4 | 566 | 16.2 |
| 453 | 25.4 | 491 | 35.8 | 529 | 45.2 | 567 | 18.0 |
| 454 | 21.2 | 492 | 38.6 | 530 | 44.8 | 568 | 20.5 |
| 455 | 17.0 | 493 | 40.9 | 531 | 44.4 | 569 | 22.7 |
| 456 | 12.7 | 494 | 41.8 | 532 | 43.8 | 570 | 24.7 |
| 457 | 8.5 | 495 | 42.4 | 533 | 42.2 | 571 | 25.6 |
| 458 | 9.7 | 496 | 44.4 | 534 | 39.9 | 572 | 28.7 |
| 459 | 11.2 | 497 | 44.9 | 535 | 38.4 | 573 | 33.1 |
| 460 | 9.1 | 498 | 44.6 | 536 | 35.9 | 574 | 34.3 |
| 461 | 6.7 | 499 | 44.7 | 537 | 33.8 | 575 | 37.3 |
| 462 | 2.7 | 500 | 45.8 | 538 | 30.9 | 576 | 39.3 |
| 463 | 0.0 | 501 | 47.3 | 539 | 28.2 | 577 | 41.7 |
| 464 | 0.0 | 502 | 48.9 | 540 | 24.3 | 578 | 43.0 |
| 465 | 0.0 | 503 | 50.8 | 541 | 20.3 | 579 | 46.6 |
| 466 | 0.0 | 504 | 52.8 | 542 | 16.2 | 580 | 48.4 |
| 467 | 0.0 | 505 | 54.1 | 543 | 12.1 | 581 | 49.9 |
| 468 | 0.0 | 506 | 53.8 | 544 | 8.5 | 582 | 49.6 |
| 469 | 0.0 | 507 | 53.6 | 545 | 4.3 | 583 | 50.1 |
| 470 | 0.0 | 508 | 53.2 | 546 | 0.0 | 584 | 50.4 |
| 471 | 0.0 | 509 | 53.0 | 547 | 0.0 | 585 | 51.8 |
| 472 | 0.0 | 510 | 52.6 | 548 | 0.0 | 586 | 52.3 |
| 473 | 0.0 | 511 | 52.6 | 549 | 0.0 | 587 | 53.6 |
| 474 | 0.0 | 512 | 51.9 | 550 | 0.0 | 588 | 54.9 |
| 475 | 0.0 | 513 | 51.4 | 551 | 0.0 | 589 | 55.5 |
| 476 | 0.0 | 514 | 50.7 | 552 | 0.0 | 590 | 56.7 |
| 477 | 0.0 | 515 | 50.4 | 553 | 0.0 | 591 | 57.0 |
| 478 | 0.8 | 516 | 49.8 | 554 | 0.0 | 592 | 56.4 |
| 479 | 4.4 | 517 | 49.4 | 555 | 0.0 | 593 | 55.4 |
| 480 | 8.6 | 518 | 48.9 | 556 | 0.0 | 594 | 54.8 |
| 481 | 12.1 | 519 | 48.7 | 557 | 0.0 | 595 | 53.5 |
| 482 | 16.0 | 520 | 48.6 | 558 | 0.0 | 596 | 52.0 |
| 483 | 20.5 | 521 | 47.9 | 559 | 0.0 | 597 | 50.7 |
| 484 | 21.6 | 522 | 47.7 | 560 | 0.0 | 598 | 49.1 |
| 485 | 21.4 | 523 | 47.1 | 561 | 0.0 | 599 | 48.3 |
| 486 | 24.8 | 524 | 46.5 | 562 | 1.7 | 600 | 47.3 |
| 487 | 28.1 | 525 | 46.4 | 563 | 5.6 | 601 | 46.3 |
| 488 | 31.9 | 526 | 46.3 | 564 | 10.2 | 602 | 45.0 |
| 489 | 32.1 | 527 | 45.8 | 565 | 14.0 | 603 | 43.6 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 604 | 42.8 | 642 | 0.0 | 680 | 32.3 | 718 | 41.0 |
| 605 | 42.2 | 643 | 0.0 | 681 | 33.3 | 719 | 40.6 |
| 606 | 41.6 | 644 | 0.0 | 682 | 34.7 | 720 | 40.5 |
| 607 | 41.0 | 645 | 0.0 | 683 | 35.0 | 721 | 40.8 |
| 608 | 40.4 | 646 | 0.0 | 684 | 33.6 | 722 | 40.7 |
| 609 | 40.6 | 647 | 0.0 | 685 | 32.6 | 723 | 40.6 |
| 610 | 40.6 | 648 | 0.0 | 686 | 31.5 | 724 | 40.9 |
| 611 | 40.7 | 649 | 0.0 | 687 | 32.0 | 725 | 41.1 |
| 612 | 40.5 | 650 | 0.0 | 688 | 33.1 | 726 | 41.2 |
| 613 | 40.9 | 651 | 0.0 | 689 | 34.4 | 727 | 41.3 |
| 614 | 41.0 | 652 | 0.0 | 690 | 35.2 | 728 | 41.7 |
| 615 | 41.3 | 653 | 0.0 | 691 | 36.6 | 729 | 41.7 |
| 616 | 41.7 | 654 | 0.0 | 692 | 38.1 | 730 | 40.5 |
| 617 | 41.8 | 655 | 0.0 | 693 | 39.2 | 731 | 38.2 |
| 618 | 40.7 | 656 | 0.0 | 694 | 40.4 | 732 | 36.6 |
| 619 | 39.9 | 657 | 0.0 | 695 | 42.7 | 733 | 34.8 |
| 620 | 37.5 | 658 | 0.0 | 696 | 44.6 | 734 | 31.5 |
| 621 | 33.7 | 659 | 0.0 | 697 | 45.9 | 735 | 27.0 |
| 622 | 29.1 | 660 | 0.0 | 698 | 47.5 | 736 | 22.7 |
| 623 | 26.1 | 661 | 0.0 | 699 | 48.8 | 737 | 18.6 |
| 624 | 22.3 | 662 | 2.8 | 700 | 48.7 | 738 | 14.6 |
| 625 | 18.0 | 663 | 5.1 | 701 | 48.5 | 739 | 10.2 |
| 626 | 13.6 | 664 | 7.3 | 702 | 49.3 | 740 | 7.9 |
| 627 | 11.1 | 665 | 11.0 | 703 | 50.4 | 741 | 7.6 |
| 628 | 7.9 | 666 | 12.5 | 704 | 50.9 | 742 | 8.0 |
| 629 | 5.3 | 667 | 14.8 | 705 | 51.5 | 743 | 10.6 |
| 630 | 3.5 | 668 | 16.8 | 706 | 52.0 | 744 | 12.2 |
| 631 | 3.3 | 669 | 20.2 | 707 | 51.9 | 745 | 15.8 |
| 632 | 4.4 | 670 | 21.8 | 708 | 51.7 | 746 | 17.8 |
| 633 | 6.9 | 671 | 22.1 | 709 | 51.6 | 747 | 18.6 |
| 634 | 9.3 | 672 | 22.4 | 710 | 51.4 | 748 | 18.4 |
| 635 | 12.0 | 673 | 22.2 | 711 | 50.6 | 749 | 17.4 |
| 636 | 13.2 | 674 | 22.5 | 712 | 48.8 | 750 | 17.0 |
| 637 | 11.2 | 675 | 23.7 | 713 | 47.5 | 751 | 16.8 |
| 638 | 8.1 | 676 | 25.0 | 714 | 46.0 | 752 | 15.8 |
| 639 | 4.5 | 677 | 27.6 | 715 | 43.3 | 753 | 14.8 |
| 640 | 0.0 | 678 | 30.6 | 716 | 42.4 | 754 | 13.2 |
| 641 | 0.0 | 679 | 32.3 | 717 | 41.6 | 755 | 12.9 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 756 | 8.7 | 794 | 22.0 | 832 | 37.3 | 870 | 50.1 |
| 757 | 4.9 | 795 | 22.2 | 833 | 39.8 | 871 | 50.0 |
| 758 | 2.6 | 796 | 23.9 | 834 | 41.5 | 872 | 49.5 |
| 759 | 1.7 | 797 | 22.4 | 835 | 42.4 | 873 | 49.4 |
| 760 | 0.0 | 798 | 20.1 | 836 | 42.3 | 874 | 47.4 |
| 761 | 0.0 | 799 | 16.6 | 837 | 42.9 | 875 | 45.1 |
| 762 | 0.0 | 800 | 17.5 | 838 | 43.7 | 876 | 41.8 |
| 763 | 0.0 | 801 | 18.6 | 839 | 45.1 | 877 | 37.4 |
| 764 | 0.0 | 802 | 21.7 | 840 | 46.3 | 878 | 35.1 |
| 765 | 0.0 | 803 | 23.9 | 841 | 46.3 | 879 | 32.4 |
| 766 | 0.0 | 804 | 27.0 | 842 | 46.0 | 880 | 29.4 |
| 767 | 0.0 | 805 | 28.0 | 843 | 45.9 | 881 | 25.1 |
| 768 | 0.0 | 806 | 30.4 | 844 | 45.8 | 882 | 20.8 |
| 769 | 0.0 | 807 | 32.5 | 845 | 45.8 | 883 | 17.0 |
| 770 | 0.0 | 808 | 34.2 | 846 | 46.0 | 884 | 15.9 |
| 771 | 0.0 | 809 | 34.8 | 847 | 45.3 | 885 | 16.0 |
| 772 | 0.0 | 810 | 36.0 | 848 | 45.2 | 886 | 16.0 |
| 773 | 0.0 | 811 | 36.4 | 849 | 45.0 | 887 | 18.0 |
| 774 | 0.0 | 812 | 36.5 | 850 | 44.6 | 888 | 18.9 |
| 775 | 0.0 | 813 | 35.5 | 851 | 44.4 | 889 | 19.9 |
| 776 | 0.0 | 814 | 34.6 | 852 | 44.2 | 890 | 20.6 |
| 777 | 0.0 | 815 | 34.1 | 853 | 43.7 | 891 | 20.7 |
| 778 | 0.0 | 816 | 32.8 | 854 | 43.4 | 892 | 20.1 |
| 779 | 0.0 | 817 | 31.2 | 855 | 43.2 | 893 | 18.6 |
| 780 | 0.0 | 818 | 28.5 | 856 | 44.2 | 894 | 17.4 |
| 781 | 0.0 | 819 | 26.4 | 857 | 45.5 | 895 | 18.7 |
| 782 | 0.0 | 820 | 26.1 | 858 | 46.8 | 896 | 19.8 |
| 783 | 0.0 | 821 | 24.6 | 859 | 48.1 | 897 | 20.9 |
| 784 | 0.0 | 822 | 21.5 | 860 | 49.2 | 898 | 22.2 |
| 785 | 0.0 | 823 | 20.0 | 861 | 50.1 | 899 | 23.5 |
| 786 | 0.0 | 824 | 21.9 | 862 | 51.5 | 900 | 24.7 |
| 787 | 0.0 | 825 | 22.9 | 863 | 52.3 | 901 | 26.2 |
| 788 | 1.3 | 826 | 23.9 | 864 | 51.7 | 902 | 26.8 |
| 789 | 4.5 | 827 | 25.3 | 865 | 50.9 | 903 | 26.5 |
| 790 | 7.4 | 828 | 28.1 | 866 | 51.0 | 904 | 26.2 |
| 791 | 10.9 | 829 | 30.6 | 867 | 50.9 | 905 | 25.9 |
| 792 | 15.3 | 830 | 32.6 | 868 | 50.4 | 906 | 24.8 |
| 793 | 19.7 | 831 | 35.5 | 869 | 50.0 | 907 | 23.9 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 908 | 22.5 | 946 | 0.0 | 984 | 45.9 | 1022 | 53.5 |
| 909 | 21.3 | 947 | 0.0 | 985 | 47.1 | 1023 | 54.3 |
| 910 | 20.3 | 948 | 0.0 | 986 | 48.8 | 1024 | 54.7 |
| 911 | 18.7 | 949 | 0.0 | 987 | 49.7 | 1025 | 54.1 |
| 912 | 15.3 | 950 | 0.0 | 988 | 50.7 | 1026 | 52.1 |
| 913 | 11.1 | 951 | 0.0 | 989 | 51.6 | 1027 | 51.9 |
| 914 | 9.8 | 952 | 0.7 | 990 | 51.9 | 1028 | 54.8 |
| 915 | 6.4 | 953 | 2.5 | 991 | 53.3 | 1029 | 54.6 |
| 916 | 3.0 | 954 | 5.9 | 992 | 53.2 | 1030 | 55.0 |
| 917 | 0.0 | 955 | 9.2 | 993 | 53.9 | 1031 | 56.0 |
| 918 | 0.0 | 956 | 12.2 | 994 | 55.0 | 1032 | 56.6 |
| 919 | 0.0 | 957 | 14.0 | 995 | 55.6 | 1033 | 55.9 |
| 920 | 0.0 | 958 | 13.9 | 996 | 56.3 | 1034 | 54.4 |
| 921 | 0.0 | 959 | 14.0 | 997 | 56.5 | 1035 | 53.4 |
| 922 | 0.0 | 960 | 16.1 | 998 | 57.2 | 1036 | 53.4 |
| 923 | 0.0 | 961 | 18.2 | 999 | 57.6 | 1037 | 53.4 |
| 924 | 0.0 | 962 | 20.2 | 1000 | 58.2 | 1038 | 54.8 |
| 925 | 0.0 | 963 | 22.7 | 1001 | 58.6 | 1039 | 57.9 |
| 926 | 0.0 | 964 | 25.0 | 1002 | 59.1 | 1040 | 58.0 |
| 927 | 0.0 | 965 | 26.1 | 1003 | 59.0 | 1041 | 58.1 |
| 928 | 0.0 | 966 | 26.1 | 1004 | 56.1 | 1042 | 58.0 |
| 929 | 0.0 | 967 | 27.3 | 1005 | 55.2 | 1043 | 58.0 |
| 930 | 0.0 | 968 | 29.2 | 1006 | 54.4 | 1044 | 57.7 |
| 931 | 0.0 | 969 | 30.6 | 1007 | 53.9 | 1045 | 57.4 |
| 932 | 0.0 | 970 | 30.5 | 1008 | 52.7 | 1046 | 56.9 |
| 933 | 0.0 | 971 | 30.0 | 1009 | 52.2 | 1047 | 56.4 |
| 934 | 0.0 | 972 | 31.2 | 1010 | 51.2 | 1048 | 56.2 |
| 935 | 0.0 | 973 | 31.5 | 1011 | 50.4 | 1049 | 56.3 |
| 936 | 0.0 | 974 | 32.1 | 1012 | 49.9 | 1050 | 56.7 |
| 937 | 0.0 | 975 | 33.8 | 1013 | 49.4 | 1051 | 56.9 |
| 938 | 0.0 | 976 | 35.4 | 1014 | 48.9 | 1052 | 56.7 |
| 939 | 0.0 | 977 | 37.1 | 1015 | 48.7 | 1053 | 56.3 |
| 940 | 0.0 | 978 | 38.8 | 1016 | 49.5 | 1054 | 56.0 |
| 941 | 0.0 | 979 | 40.5 | 1017 | 50.3 | 1055 | 55.4 |
| 942 | 0.0 | 980 | 42.6 | 1018 | 50.9 | 1056 | 55.2 |
| 943 | 0.0 | 981 | 44.3 | 1019 | 50.7 | 1057 | 55.0 |
| 944 | 0.0 | 982 | 45.4 | 1020 | 51.0 | 1058 | 54.9 |
| 945 | 0.0 | 983 | 46.2 | 1021 | 52.5 | 1059 | 54.7 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1060 | 54.0 | 1098 | 27.8 | 1136 | 22.9 | 1174 | 0.0 |
| 1061 | 53.4 | 1099 | 23.9 | 1137 | 19.5 | 1175 | 0.0 |
| 1062 | 52.4 | 1100 | 20.7 | 1138 | 17.2 | 1176 | 0.0 |
| 1063 | 51.9 | 1101 | 20.1 | 1139 | 14.9 | 1177 | 0.0 |
| 1064 | 51.5 | 1102 | 21.8 | 1140 | 10.4 | 1178 | 0.0 |
| 1065 | 50.7 | 1103 | 23.1 | 1141 | 7.9 | 1179 | 0.0 |
| 1066 | 50.2 | 1104 | 22.6 | 1142 | 5.2 | 1180 | 0.0 |
| 1067 | 49.6 | 1105 | 22.4 | 1143 | 2.1 | 1181 | 0.0 |
| 1068 | 48.9 | 1106 | 23.7 | 1144 | 0.0 | 1182 | 0.0 |
| 1069 | 49.2 | 1107 | 25.3 | 1145 | 0.0 | 1183 | 0.0 |
| 1070 | 49.8 | 1108 | 27.4 | 1146 | 0.0 | 1184 | 0.0 |
| 1071 | 49.7 | 1109 | 30.5 | 1147 | 0.0 | 1185 | 0.0 |
| 1072 | 49.5 | 1110 | 33.3 | 1148 | 0.0 | 1186 | 0.0 |
| 1073 | 49.5 | 1111 | 35.3 | 1149 | 0.0 | 1187 | 0.0 |
| 1074 | 50.4 | 1112 | 36.9 | 1150 | 0.0 | 1188 | 0.0 |
| 1075 | 50.6 | 1113 | 36.5 | 1151 | 0.0 | 1189 | 0.0 |
| 1076 | 49.2 | 1114 | 35.9 | 1152 | 0.0 | 1190 | 0.0 |
| 1077 | 49.4 | 1115 | 35.5 | 1153 | 0.0 | 1191 | 0.0 |
| 1078 | 49.2 | 1116 | 35.0 | 1154 | 0.0 | 1192 | 0.0 |
| 1079 | 50.0 | 1117 | 34.0 | 1155 | 0.0 | 1193 | 0.0 |
| 1080 | 49.9 | 1118 | 32.5 | 1156 | 0.0 | 1194 | 0.0 |
| 1081 | 49.1 | 1119 | 32.5 | 1157 | 0.0 | 1195 | 0.0 |
| 1082 | 49.1 | 1120 | 33.4 | 1158 | 0.0 | 1196 | 0.0 |
| 1083 | 45.3 | 1121 | 34.8 | 1159 | 0.0 | 1197 | 0.0 |
| 1084 | 42.1 | 1122 | 36.1 | 1160 | 0.0 | 1198 | 2.3 |
| 1085 | 39.4 | 1123 | 36.1 | 1161 | 0.0 | 1199 | 6.4 |
| 1086 | 37.4 | 1124 | 35.6 | 1162 | 0.0 | 1200 | 10.7 |
| 1087 | 35.2 | 1125 | 35.6 | 1163 | 0.0 | 1201 | 13.6 |
| 1088 | 31.8 | 1126 | 35.3 | 1164 | 0.0 | 1202 | 16.8 |
| 1089 | 28.4 | 1127 | 34.8 | 1165 | 0.0 | 1203 | 17.0 |
| 1090 | 27.5 | 1128 | 34.7 | 1166 | 0.0 | 1204 | 18.9 |
| 1091 | 28.3 | 1129 | 34.5 | 1167 | 0.0 | 1205 | 23.0 |
| 1092 | 29.3 | 1130 | 31.5 | 1168 | 0.0 | 1206 | 26.4 |
| 1093 | 30.2 | 1131 | 30.3 | 1169 | 0.0 | 1207 | 29.9 |
| 1094 | 31.6 | 1132 | 30.0 | 1170 | 0.0 | 1208 | 31.1 |
| 1095 | 33.1 | 1133 | 27.9 | 1171 | 0.0 | 1209 | 31.5 |
| 1096 | 34.1 | 1134 | 25.6 | 1172 | 0.0 | 1210 | 33.0 |
| 1097 | 32.3 | 1135 | 24.5 | 1173 | 0.0 | 1211 | 34.7 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1212 | 38.6 | 1250 | 83.9 | 1288 | 92.4 | 1326 | 89.4 |
| 1213 | 41.1 | 1251 | 84.3 | 1289 | 92.7 | 1327 | 89.8 |
| 1214 | 43.3 | 1252 | 85.2 | 1290 | 93.2 | 1328 | 89.6 |
| 1215 | 45.4 | 1253 | 86.6 | 1291 | 93.6 | 1329 | 88.9 |
| 1216 | 47.9 | 1254 | 87.4 | 1292 | 93.9 | 1330 | 88.9 |
| 1217 | 50.5 | 1255 | 86.5 | 1293 | 94.1 | 1331 | 90.2 |
| 1218 | 51.2 | 1256 | 86.6 | 1294 | 93.4 | 1332 | 90.5 |
| 1219 | 52.1 | 1257 | 87.7 | 1295 | 93.5 | 1333 | 89.8 |
| 1220 | 53.3 | 1258 | 87.1 | 1296 | 93.4 | 1334 | 89.0 |
| 1221 | 55.0 | 1259 | 87.7 | 1297 | 92.6 | 1335 | 89.5 |
| 1222 | 56.4 | 1260 | 88.5 | 1298 | 92.1 | 1336 | 89.5 |
| 1223 | 57.9 | 1261 | 89.2 | 1299 | 91.9 | 1337 | 90.2 |
| 1224 | 59.5 | 1262 | 90.0 | 1300 | 91.9 | 1338 | 89.4 |
| 1225 | 60.9 | 1263 | 91.4 | 1301 | 92.7 | 1339 | 89.3 |
| 1226 | 63.7 | 1264 | 91.5 | 1302 | 93.0 | 1340 | 89.8 |
| 1227 | 65.8 | 1265 | 91.7 | 1303 | 94.1 | 1341 | 90.2 |
| 1228 | 67.3 | 1266 | 92.3 | 1304 | 93.9 | 1342 | 90.8 |
| 1229 | 68.5 | 1267 | 92.2 | 1305 | 93.6 | 1343 | 90.0 |
| 1230 | 68.1 | 1268 | 92.2 | 1306 | 94.0 | 1344 | 88.9 |
| 1231 | 68.4 | 1269 | 92.4 | 1307 | 94.5 | 1345 | 88.5 |
| 1232 | 69.8 | 1270 | 93.5 | 1308 | 94.8 | 1346 | 88.2 |
| 1233 | 72.0 | 1271 | 93.7 | 1309 | 95.7 | 1347 | 88.0 |
| 1234 | 72.0 | 1272 | 93.8 | 1310 | 94.7 | 1348 | 87.3 |
| 1235 | 72.0 | 1273 | 94.2 | 1311 | 94.0 | 1349 | 87.2 |
| 1236 | 72.7 | 1274 | 93.3 | 1312 | 93.3 | 1350 | 87.0 |
| 1237 | 74.1 | 1275 | 92.7 | 1313 | 93.5 | 1351 | 87.2 |
| 1238 | 74.3 | 1276 | 93.1 | 1314 | 93.8 | 1352 | 87.4 |
| 1239 | 76.4 | 1277 | 93.7 | 1315 | 94.4 | 1353 | 87.5 |
| 1240 | 76.8 | 1278 | 93.7 | 1316 | 94.5 | 1354 | 87.5 |
| 1241 | 77.6 | 1279 | 93.4 | 1317 | 94.5 | 1355 | 87.5 |
| 1242 | 78.1 | 1280 | 92.5 | 1318 | 93.8 | 1356 | 87.5 |
| 1243 | 78.1 | 1281 | 93.8 | 1319 | 93.4 | 1357 | 86.4 |
| 1244 | 79.4 | 1282 | 95.3 | 1320 | 92.1 | 1358 | 86.2 |
| 1245 | 79.9 | 1283 | 94.8 | 1321 | 91.0 | 1359 | 86.2 |
| 1246 | 81.2 | 1284 | 94.0 | 1322 | 90.7 | 1360 | 86.3 |
| 1247 | 81.9 | 1285 | 93.0 | 1323 | 90.5 | 1361 | 86.8 |
| 1248 | 81.7 | 1286 | 93.0 | 1324 | 90.0 | 1362 | 86.8 |
| 1249 | 84.1 | 1287 | 93.1 | 1325 | 89.7 | 1363 | 85.7 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1364 | 85.9 | 1402 | 82.3 | 1440 | 76.3 | 1478 | 78.7 |
| 1365 | 86.7 | 1403 | 81.6 | 1441 | 76.2 | 1479 | 79.9 |
| 1366 | 86.7 | 1404 | 80.8 | 1442 | 76.2 | 1480 | 80.3 |
| 1367 | 86.3 | 1405 | 80.9 | 1443 | 76.1 | 1481 | 80.4 |
| 1368 | 86.7 | 1406 | 82.1 | 1444 | 76.0 | 1482 | 80.1 |
| 1369 | 87.4 | 1407 | 82.4 | 1445 | 75.8 | 1483 | 78.7 |
| 1370 | 87.9 | 1408 | 82.0 | 1446 | 75.7 | 1484 | 78.3 |
| 1371 | 88.5 | 1409 | 82.0 | 1447 | 75.6 | 1485 | 79.2 |
| 1372 | 87.3 | 1410 | 81.9 | 1448 | 75.7 | 1486 | 79.6 |
| 1373 | 86.9 | 1411 | 81.7 | 1449 | 75.6 | 1487 | 80.0 |
| 1374 | 87.0 | 1412 | 81.6 | 1450 | 75.4 | 1488 | 79.2 |
| 1375 | 87.8 | 1413 | 81.4 | 1451 | 75.5 | 1489 | 79.2 |
| 1376 | 88.3 | 1414 | 81.3 | 1452 | 75.4 | 1490 | 79.0 |
| 1377 | 88.3 | 1415 | 81.1 | 1453 | 76.1 | 1491 | 78.0 |
| 1378 | 89.0 | 1416 | 80.8 | 1454 | 75.9 | 1492 | 78.2 |
| 1379 | 88.9 | 1417 | 80.7 | 1455 | 75.9 | 1493 | 78.0 |
| 1380 | 89.1 | 1418 | 80.6 | 1456 | 76.3 | 1494 | 77.8 |
| 1381 | 88.0 | 1419 | 80.2 | 1457 | 77.0 | 1495 | 77.7 |
| 1382 | 88.9 | 1420 | 80.0 | 1458 | 78.4 | 1496 | 77.3 |
| 1383 | 89.1 | 1421 | 79.8 | 1459 | 79.2 | 1497 | 77.4 |
| 1384 | 89.2 | 1422 | 79.6 | 1460 | 80.0 | 1498 | 77.6 |
| 1385 | 89.0 | 1423 | 79.5 | 1461 | 80.7 | 1499 | 75.9 |
| 1386 | 88.9 | 1424 | 79.4 | 1462 | 81.1 | 1500 | 76.2 |
| 1387 | 89.4 | 1425 | 79.1 | 1463 | 80.5 | 1501 | 76.8 |
| 1388 | 89.9 | 1426 | 78.7 | 1464 | 79.9 | 1502 | 77.7 |
| 1389 | 89.5 | 1427 | 78.5 | 1465 | 80.3 | 1503 | 78.0 |
| 1390 | 89.1 | 1428 | 78.4 | 1466 | 80.6 | 1504 | 78.9 |
| 1391 | 88.0 | 1429 | 78.2 | 1467 | 81.0 | 1505 | 79.4 |
| 1392 | 87.7 | 1430 | 78.1 | 1468 | 81.2 | 1506 | 80.7 |
| 1393 | 87.4 | 1431 | 77.8 | 1469 | 81.7 | 1507 | 81.3 |
| 1394 | 87.4 | 1432 | 77.6 | 1470 | 81.9 | 1508 | 81.8 |
| 1395 | 86.8 | 1433 | 77.5 | 1471 | 80.7 | 1509 | 82.5 |
| 1396 | 86.2 | 1434 | 77.3 | 1472 | 79.9 | 1510 | 83.1 |
| 1397 | 86.0 | 1435 | 77.0 | 1473 | 80.2 | 1511 | 83.5 |
| 1398 | 86.2 | 1436 | 76.7 | 1474 | 79.8 | 1512 | 84.2 |
| 1399 | 85.1 | 1437 | 76.6 | 1475 | 79.1 | 1513 | 85.3 |
| 1400 | 84.8 | 1438 | 76.4 | 1476 | 78.5 | 1514 | 85.9 |
| 1401 | 83.7 | 1439 | 76.3 | 1477 | 77.8 | 1515 | 86.4 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1516 | 86.5 | 1554 | 92.1 | 1592 | 88.4 | 1630 | 83.7 |
| 1517 | 88.2 | 1555 | 92.8 | 1593 | 88.9 | 1631 | 84.6 |
| 1518 | 89.3 | 1556 | 92.9 | 1594 | 88.7 | 1632 | 83.8 |
| 1519 | 89.0 | 1557 | 92.7 | 1595 | 88.2 | 1633 | 84.2 |
| 1520 | 89.1 | 1558 | 92.4 | 1596 | 87.6 | 1634 | 83.5 |
| 1521 | 90.4 | 1559 | 92.4 | 1597 | 87.6 | 1635 | 82.2 |
| 1522 | 90.6 | 1560 | 92.7 | 1598 | 87.4 | 1636 | 81.7 |
| 1523 | 90.3 | 1561 | 93.1 | 1599 | 87.2 | 1637 | 81.8 |
| 1524 | 91.2 | 1562 | 92.5 | 1600 | 87.3 | 1638 | 82.1 |
| 1525 | 92.5 | 1563 | 91.7 | 1601 | 87.0 | 1639 | 82.1 |
| 1526 | 93.8 | 1564 | 91.5 | 1602 | 87.7 | 1640 | 82.0 |
| 1527 | 94.6 | 1565 | 91.1 | 1603 | 87.8 | 1641 | 83.0 |
| 1528 | 94.5 | 1566 | 90.8 | 1604 | 87.7 | 1642 | 83.1 |
| 1529 | 94.0 | 1567 | 90.4 | 1605 | 86.7 | 1643 | 83.6 |
| 1530 | 94.0 | 1568 | 90.7 | 1606 | 87.4 | 1644 | 84.5 |
| 1531 | 94.6 | 1569 | 90.4 | 1607 | 86.7 | 1645 | 85.2 |
| 1532 | 93.6 | 1570 | 91.0 | 1608 | 86.7 | 1646 | 85.4 |
| 1533 | 93.9 | 1571 | 91.6 | 1609 | 86.1 | 1647 | 85.0 |
| 1534 | 94.1 | 1572 | 91.8 | 1610 | 85.8 | 1648 | 85.4 |
| 1535 | 94.1 | 1573 | 91.8 | 1611 | 85.1 | 1649 | 85.1 |
| 1536 | 95.1 | 1574 | 91.9 | 1612 | 84.3 | 1650 | 84.7 |
| 1537 | 94.6 | 1575 | 91.6 | 1613 | 82.9 | 1651 | 84.3 |
| 1538 | 94.4 | 1576 | 91.8 | 1614 | 84.5 | 1652 | 83.9 |
| 1539 | 94.1 | 1577 | 92.1 | 1615 | 84.0 | 1653 | 83.4 |
| 1540 | 92.6 | 1578 | 91.5 | 1616 | 84.3 | 1654 | 83.8 |
| 1541 | 91.5 | 1579 | 91.1 | 1617 | 83.2 | 1655 | 84.3 |
| 1542 | 90.9 | 1580 | 91.0 | 1618 | 82.9 | 1656 | 83.8 |
| 1543 | 90.3 | 1581 | 90.7 | 1619 | 83.2 | 1657 | 82.5 |
| 1544 | 90.3 | 1582 | 91.2 | 1620 | 83.2 | 1658 | 82.4 |
| 1545 | 91.1 | 1583 | 90.4 | 1621 | 83.1 | 1659 | 81.9 |
| 1546 | 90.5 | 1584 | 90.2 | 1622 | 82.8 | 1660 | 81.3 |
| 1547 | 90.6 | 1585 | 89.8 | 1623 | 83.5 | 1661 | 80.1 |
| 1548 | 90.9 | 1586 | 89.2 | 1624 | 83.8 | 1662 | 77.2 |
| 1549 | 90.9 | 1587 | 88.8 | 1625 | 83.1 | 1663 | 75.5 |
| 1550 | 90.5 | 1588 | 88.2 | 1626 | 82.7 | 1664 | 73.4 |
| 1551 | 91.0 | 1589 | 87.6 | 1627 | 82.2 | 1665 | 73.0 |
| 1552 | 91.1 | 1590 | 87.1 | 1628 | 82.8 | 1666 | 72.5 |
| 1553 | 91.0 | 1591 | 87.1 | 1629 | 83.5 | 1667 | 72.0 |

表A.4　CHTC-C工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1668 | 71.7 | 1702 | 74.3 | 1736 | 56.3 | 1770 | 13.0 |
| 1669 | 71.3 | 1703 | 72.8 | 1737 | 54.0 | 1771 | 15.6 |
| 1670 | 71.0 | 1704 | 73.0 | 1738 | 52.8 | 1772 | 11.5 |
| 1671 | 71.1 | 1705 | 73.2 | 1739 | 52.5 | 1773 | 7.5 |
| 1672 | 71.8 | 1706 | 73.2 | 1740 | 51.7 | 1774 | 5.2 |
| 1673 | 72.2 | 1707 | 73.3 | 1741 | 51.3 | 1775 | 4.2 |
| 1674 | 72.7 | 1708 | 72.8 | 1742 | 51.2 | 1776 | 2.1 |
| 1675 | 72.9 | 1709 | 72.1 | 1743 | 50.7 | 1777 | 0.0 |
| 1676 | 73.3 | 1710 | 72.2 | 1744 | 50.1 | 1778 | 0.0 |
| 1677 | 74.1 | 1711 | 71.9 | 1745 | 49.6 | 1779 | 0.0 |
| 1678 | 74.7 | 1712 | 70.8 | 1746 | 49.5 | 1780 | 0.0 |
| 1679 | 75.0 | 1713 | 70.7 | 1747 | 48.3 | 1781 | 0.0 |
| 1680 | 75.5 | 1714 | 70.2 | 1748 | 45.5 | 1782 | 0.0 |
| 1681 | 75.9 | 1715 | 69.4 | 1749 | 44.3 | 1783 | 0.0 |
| 1682 | 74.9 | 1716 | 68.5 | 1750 | 43.8 | 1784 | 0.0 |
| 1683 | 75.1 | 1717 | 67.8 | 1751 | 43.7 | 1785 | 0.0 |
| 1684 | 75.7 | 1718 | 66.6 | 1752 | 43.1 | 1786 | 0.0 |
| 1685 | 76.3 | 1719 | 66.1 | 1753 | 40.9 | 1787 | 0.0 |
| 1686 | 76.5 | 1720 | 66.2 | 1754 | 36.9 | 1788 | 0.0 |
| 1687 | 77.1 | 1721 | 66.0 | 1755 | 36.1 | 1789 | 0.0 |
| 1688 | 77.9 | 1722 | 65.7 | 1756 | 35.7 | 1790 | 0.0 |
| 1689 | 76.5 | 1723 | 65.3 | 1757 | 33.2 | 1791 | 0.0 |
| 1690 | 76.4 | 1724 | 64.9 | 1758 | 29.5 | 1792 | 0.0 |
| 1691 | 76.9 | 1725 | 65.1 | 1759 | 27.2 | 1793 | 0.0 |
| 1692 | 77.7 | 1726 | 65.6 | 1760 | 23.3 | 1794 | 0.0 |
| 1693 | 77.7 | 1727 | 64.9 | 1761 | 18.9 | 1795 | 0.0 |
| 1694 | 77.9 | 1728 | 64.5 | 1762 | 16.6 | 1796 | 0.0 |
| 1695 | 78.1 | 1729 | 63.3 | 1763 | 15.6 | 1797 | 0.0 |
| 1696 | 76.9 | 1730 | 62.5 | 1764 | 18.7 | 1798 | 0.0 |
| 1697 | 75.2 | 1731 | 61.4 | 1765 | 17.7 | 1799 | 0.0 |
| 1698 | 75.5 | 1732 | 59.7 | 1766 | 15.5 | 1800 | 0.0 |
| 1699 | 75.7 | 1733 | 59.1 | 1767 | 14.4 |  |  |
| 1700 | 75.7 | 1734 | 58.1 | 1768 | 14.6 |  |  |
| 1701 | 75.2 | 1735 | 57.5 | 1769 | 16.2 |  |  |

* 1. CHTC-LT工况数据见表A.5

表A.5　CHTC-LT工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 37 | 0.0 | 74 | 0.0 | 111 | 0.0 |
| 1 | 0.0 | 38 | 0.0 | 75 | 0.0 | 112 | 0.0 |
| 2 | 0.0 | 39 | 0.0 | 76 | 1.5 | 113 | 0.0 |
| 3 | 0.0 | 40 | 2.4 | 77 | 2.0 | 114 | 0.0 |
| 4 | 0.0 | 41 | 4.1 | 78 | 3.5 | 115 | 0.0 |
| 5 | 0.0 | 42 | 4.6 | 79 | 4.6 | 116 | 0.0 |
| 6 | 0.0 | 43 | 6.0 | 80 | 5.5 | 117 | 1.2 |
| 7 | 0.0 | 44 | 6.2 | 81 | 6.7 | 118 | 2.6 |
| 8 | 0.0 | 45 | 6.1 | 82 | 7.3 | 119 | 3.1 |
| 9 | 0.0 | 46 | 5.2 | 83 | 8.1 | 120 | 3.9 |
| 10 | 0.0 | 47 | 4.7 | 84 | 9.2 | 121 | 5.9 |
| 11 | 0.0 | 48 | 3.8 | 85 | 10.0 | 122 | 6.9 |
| 12 | 0.0 | 49 | 3.8 | 86 | 10.4 | 123 | 7.7 |
| 13 | 0.0 | 50 | 3.9 | 87 | 9.7 | 124 | 6.6 |
| 14 | 0.0 | 51 | 4.4 | 88 | 10.2 | 125 | 5.4 |
| 15 | 0.0 | 52 | 5.2 | 89 | 10.5 | 126 | 8.1 |
| 16 | 0.0 | 53 | 5.3 | 90 | 9.6 | 127 | 10.1 |
| 17 | 0.0 | 54 | 5.3 | 91 | 8.9 | 128 | 10.6 |
| 18 | 0.0 | 55 | 6.5 | 92 | 8.3 | 129 | 7.3 |
| 19 | 0.0 | 56 | 6.9 | 93 | 7.3 | 130 | 11.3 |
| 20 | 0.0 | 57 | 7.1 | 94 | 6.5 | 131 | 9.6 |
| 21 | 1.7 | 58 | 7.3 | 95 | 6.5 | 132 | 9.7 |
| 22 | 3.2 | 59 | 7.3 | 96 | 5.2 | 133 | 9.0 |
| 23 | 4.2 | 60 | 7.3 | 97 | 4.8 | 134 | 10.9 |
| 24 | 6.2 | 61 | 6.5 | 98 | 4.8 | 135 | 9.2 |
| 25 | 5.7 | 62 | 6.0 | 99 | 4.5 | 136 | 9.9 |
| 26 | 5.3 | 63 | 6.0 | 100 | 4.1 | 137 | 9.4 |
| 27 | 6.6 | 64 | 5.4 | 101 | 4.6 | 138 | 8.6 |
| 28 | 6.7 | 65 | 4.3 | 102 | 5.0 | 139 | 10.0 |
| 29 | 5.9 | 66 | 3.4 | 103 | 6.6 | 140 | 8.6 |
| 30 | 4.4 | 67 | 2.9 | 104 | 5.8 | 141 | 10.0 |
| 31 | 3.6 | 68 | 2.1 | 105 | 3.7 | 142 | 10.0 |
| 32 | 2.7 | 69 | 1.5 | 106 | 2.5 | 143 | 9.4 |
| 33 | 1.5 | 70 | 0.0 | 107 | 1.7 | 144 | 7.8 |
| 34 | 0.9 | 71 | 0.0 | 108 | 0.0 | 145 | 8.9 |
| 35 | 0.5 | 72 | 0.0 | 109 | 0.0 | 146 | 9.2 |
| 36 | 0.0 | 73 | 0.0 | 110 | 0.0 | 147 | 9.8 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 148 | 10.8 | 186 | 14.5 | 224 | 12.4 | 262 | 5.1 |
| 149 | 10.9 | 187 | 15.9 | 225 | 13.8 | 263 | 4.1 |
| 150 | 11.3 | 188 | 17.2 | 226 | 15.7 | 264 | 4.2 |
| 151 | 11.2 | 189 | 18.2 | 227 | 17.0 | 265 | 3.5 |
| 152 | 11.6 | 190 | 19.4 | 228 | 18.1 | 266 | 2.7 |
| 153 | 11.2 | 191 | 19.4 | 229 | 18.7 | 267 | 2.7 |
| 154 | 13.2 | 192 | 20.5 | 230 | 19.6 | 268 | 2.8 |
| 155 | 15.1 | 193 | 21.5 | 231 | 19.6 | 269 | 0.0 |
| 156 | 15.4 | 194 | 21.4 | 232 | 20.0 | 270 | 0.0 |
| 157 | 14.8 | 195 | 22.7 | 233 | 20.6 | 271 | 0.0 |
| 158 | 13.9 | 196 | 24.3 | 234 | 19.8 | 272 | 0.0 |
| 159 | 12.5 | 197 | 24.4 | 235 | 19.5 | 273 | 0.0 |
| 160 | 11.6 | 198 | 24.5 | 236 | 19.4 | 274 | 0.0 |
| 161 | 11.4 | 199 | 25.3 | 237 | 18.2 | 275 | 0.0 |
| 162 | 11.0 | 200 | 25.7 | 238 | 19.3 | 276 | 0.0 |
| 163 | 10.1 | 201 | 25.1 | 239 | 18.8 | 277 | 0.0 |
| 164 | 8.4 | 202 | 24.7 | 240 | 18.3 | 278 | 0.0 |
| 165 | 4.6 | 203 | 25.2 | 241 | 18.4 | 279 | 0.0 |
| 166 | 0.0 | 204 | 24.8 | 242 | 17.9 | 280 | 0.0 |
| 167 | 0.0 | 205 | 24.8 | 243 | 17.9 | 281 | 0.0 |
| 168 | 0.0 | 206 | 24.7 | 244 | 17.3 | 282 | 0.0 |
| 169 | 0.0 | 207 | 25.1 | 245 | 17.0 | 283 | 0.0 |
| 170 | 0.0 | 208 | 25.7 | 246 | 16.3 | 284 | 0.0 |
| 171 | 0.0 | 209 | 25.2 | 247 | 15.2 | 285 | 0.0 |
| 172 | 0.0 | 210 | 24.8 | 248 | 13.8 | 286 | 0.0 |
| 173 | 0.0 | 211 | 22.5 | 249 | 12.9 | 287 | 0.0 |
| 174 | 0.0 | 212 | 19.4 | 250 | 12.6 | 288 | 0.0 |
| 175 | 0.0 | 213 | 16.1 | 251 | 12.0 | 289 | 0.0 |
| 176 | 0.0 | 214 | 12.4 | 252 | 12.0 | 290 | 0.0 |
| 177 | 0.0 | 215 | 11.7 | 253 | 10.7 | 291 | 0.0 |
| 178 | 0.0 | 216 | 10.5 | 254 | 8.3 | 292 | 0.0 |
| 179 | 0.0 | 217 | 9.6 | 255 | 6.5 | 293 | 0.0 |
| 180 | 0.0 | 218 | 9.3 | 256 | 4.5 | 294 | 0.0 |
| 181 | 3.3 | 219 | 8.7 | 257 | 3.5 | 295 | 0.0 |
| 182 | 6.5 | 220 | 9.2 | 258 | 2.7 | 296 | 0.0 |
| 183 | 9.5 | 221 | 9.2 | 259 | 3.7 | 297 | 0.0 |
| 184 | 12.3 | 222 | 9.9 | 260 | 4.2 | 298 | 0.0 |
| 185 | 14.0 | 223 | 11.1 | 261 | 5.0 | 299 | 0.0 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 300 | 0.0 | 338 | 30.3 | 376 | 4.1 | 414 | 44.1 |
| 301 | 0.0 | 339 | 33.4 | 377 | 5.3 | 415 | 43.0 |
| 302 | 0.0 | 340 | 33.1 | 378 | 6.8 | 416 | 42.1 |
| 303 | 0.0 | 341 | 32.1 | 379 | 7.3 | 417 | 41.2 |
| 304 | 0.0 | 342 | 31.4 | 380 | 12.0 | 418 | 40.5 |
| 305 | 0.0 | 343 | 31.1 | 381 | 15.5 | 419 | 40.4 |
| 306 | 0.0 | 344 | 32.2 | 382 | 15.2 | 420 | 40.9 |
| 307 | 0.0 | 345 | 31.5 | 383 | 14.8 | 421 | 40.9 |
| 308 | 0.0 | 346 | 31.1 | 384 | 13.9 | 422 | 40.8 |
| 309 | 0.0 | 347 | 30.0 | 385 | 13.9 | 423 | 40.0 |
| 310 | 1.9 | 348 | 29.4 | 386 | 14.2 | 424 | 39.5 |
| 311 | 4.7 | 349 | 28.3 | 387 | 15.8 | 425 | 39.6 |
| 312 | 8.2 | 350 | 27.5 | 388 | 18.2 | 426 | 40.1 |
| 313 | 10.3 | 351 | 25.9 | 389 | 20.3 | 427 | 39.4 |
| 314 | 13.5 | 352 | 24.6 | 390 | 22.0 | 428 | 39.4 |
| 315 | 13.8 | 353 | 24.7 | 391 | 24.0 | 429 | 39.5 |
| 316 | 15.4 | 354 | 22.0 | 392 | 26.7 | 430 | 39.6 |
| 317 | 17.7 | 355 | 19.7 | 393 | 29.7 | 431 | 40.3 |
| 318 | 18.3 | 356 | 17.5 | 394 | 31.8 | 432 | 40.8 |
| 319 | 17.4 | 357 | 17.4 | 395 | 33.8 | 433 | 41.0 |
| 320 | 18.2 | 358 | 16.8 | 396 | 35.0 | 434 | 41.7 |
| 321 | 18.1 | 359 | 15.9 | 397 | 36.9 | 435 | 42.4 |
| 322 | 18.6 | 360 | 14.9 | 398 | 38.2 | 436 | 43.1 |
| 323 | 20.9 | 361 | 13.3 | 399 | 39.9 | 437 | 44.7 |
| 324 | 21.8 | 362 | 11.4 | 400 | 41.5 | 438 | 43.9 |
| 325 | 22.3 | 363 | 10.8 | 401 | 42.8 | 439 | 43.9 |
| 326 | 23.8 | 364 | 11.2 | 402 | 45.0 | 440 | 43.1 |
| 327 | 24.3 | 365 | 10.1 | 403 | 45.3 | 441 | 42.3 |
| 328 | 23.9 | 366 | 7.8 | 404 | 45.7 | 442 | 41.6 |
| 329 | 24.5 | 367 | 6.2 | 405 | 46.2 | 443 | 41.1 |
| 330 | 24.9 | 368 | 5.3 | 406 | 47.2 | 444 | 40.0 |
| 331 | 24.8 | 369 | 2.4 | 407 | 47.8 | 445 | 38.5 |
| 332 | 25.5 | 370 | 0.0 | 408 | 47.7 | 446 | 37.4 |
| 333 | 26.3 | 371 | 0.0 | 409 | 47.8 | 447 | 36.4 |
| 334 | 27.8 | 372 | 0.0 | 410 | 47.9 | 448 | 34.2 |
| 335 | 27.7 | 373 | 0.0 | 411 | 47.5 | 449 | 34.2 |
| 336 | 28.1 | 374 | 0.0 | 412 | 47.0 | 450 | 33.2 |
| 337 | 28.1 | 375 | 1.9 | 413 | 45.7 | 451 | 32.1 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 452 | 30.7 | 490 | 4.0 | 528 | 57.4 | 566 | 50.4 |
| 453 | 28.4 | 491 | 3.9 | 529 | 58.0 | 567 | 50.4 |
| 454 | 26.1 | 492 | 5.9 | 530 | 59.3 | 568 | 50.4 |
| 455 | 22.7 | 493 | 9.5 | 531 | 60.0 | 569 | 50.1 |
| 456 | 18.9 | 494 | 13.5 | 532 | 61.4 | 570 | 49.9 |
| 457 | 15.2 | 495 | 16.1 | 533 | 62.8 | 571 | 49.7 |
| 458 | 11.5 | 496 | 19.0 | 534 | 64.4 | 572 | 48.7 |
| 459 | 8.9 | 497 | 21.2 | 535 | 65.2 | 573 | 48.6 |
| 460 | 6.2 | 498 | 22.6 | 536 | 65.4 | 574 | 48.7 |
| 461 | 2.7 | 499 | 26.0 | 537 | 65.4 | 575 | 48.4 |
| 462 | 1.2 | 500 | 29.8 | 538 | 64.7 | 576 | 48.1 |
| 463 | 0.0 | 501 | 32.6 | 539 | 63.5 | 577 | 47.2 |
| 464 | 0.0 | 502 | 35.2 | 540 | 62.4 | 578 | 47.8 |
| 465 | 0.0 | 503 | 37.5 | 541 | 61.2 | 579 | 47.3 |
| 466 | 0.0 | 504 | 39.1 | 542 | 60.3 | 580 | 47.0 |
| 467 | 0.0 | 505 | 40.1 | 543 | 59.1 | 581 | 46.0 |
| 468 | 0.0 | 506 | 41.9 | 544 | 55.9 | 582 | 44.9 |
| 469 | 0.0 | 507 | 41.8 | 545 | 52.5 | 583 | 42.7 |
| 470 | 0.0 | 508 | 40.7 | 546 | 51.8 | 584 | 41.1 |
| 471 | 0.0 | 509 | 39.8 | 547 | 51.7 | 585 | 40.4 |
| 472 | 0.7 | 510 | 41.0 | 548 | 50.9 | 586 | 39.8 |
| 473 | 0.6 | 511 | 43.2 | 549 | 50.9 | 587 | 39.2 |
| 474 | 0.8 | 512 | 46.0 | 550 | 50.6 | 588 | 38.2 |
| 475 | 0.9 | 513 | 48.1 | 551 | 50.0 | 589 | 36.7 |
| 476 | 0.9 | 514 | 50.4 | 552 | 50.0 | 590 | 34.5 |
| 477 | 1.0 | 515 | 50.6 | 553 | 50.0 | 591 | 31.9 |
| 478 | 0.9 | 516 | 49.8 | 554 | 50.0 | 592 | 29.1 |
| 479 | 1.2 | 517 | 50.2 | 555 | 50.0 | 593 | 28.2 |
| 480 | 1.5 | 518 | 51.1 | 556 | 49.8 | 594 | 24.7 |
| 481 | 1.7 | 519 | 51.2 | 557 | 49.2 | 595 | 20.7 |
| 482 | 1.7 | 520 | 51.6 | 558 | 48.6 | 596 | 18.5 |
| 483 | 1.4 | 521 | 52.7 | 559 | 48.5 | 597 | 13.6 |
| 484 | 1.5 | 522 | 53.5 | 560 | 48.6 | 598 | 12.9 |
| 485 | 1.8 | 523 | 55.2 | 561 | 48.7 | 599 | 8.6 |
| 486 | 2.2 | 524 | 56.9 | 562 | 49.1 | 600 | 6.3 |
| 487 | 2.7 | 525 | 56.5 | 563 | 49.7 | 601 | 3.8 |
| 488 | 2.8 | 526 | 56.1 | 564 | 50.2 | 602 | 1.0 |
| 489 | 3.4 | 527 | 56.6 | 565 | 50.7 | 603 | 0.0 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 604 | 0.0 | 642 | 25.2 | 680 | 48.1 | 718 | 49.0 |
| 605 | 0.0 | 643 | 26.6 | 681 | 49.0 | 719 | 49.3 |
| 606 | 0.0 | 644 | 26.4 | 682 | 49.7 | 720 | 49.6 |
| 607 | 0.0 | 645 | 26.0 | 683 | 50.4 | 721 | 50.0 |
| 608 | 0.0 | 646 | 25.6 | 684 | 50.3 | 722 | 49.1 |
| 609 | 0.0 | 647 | 25.2 | 685 | 50.4 | 723 | 48.6 |
| 610 | 0.0 | 648 | 26.4 | 686 | 50.0 | 724 | 48.1 |
| 611 | 0.0 | 649 | 27.9 | 687 | 49.8 | 725 | 48.3 |
| 612 | 0.0 | 650 | 28.7 | 688 | 48.2 | 726 | 48.6 |
| 613 | 0.0 | 651 | 29.3 | 689 | 47.0 | 727 | 48.7 |
| 614 | 0.0 | 652 | 30.7 | 690 | 46.1 | 728 | 49.3 |
| 615 | 0.0 | 653 | 32.0 | 691 | 45.7 | 729 | 50.3 |
| 616 | 0.0 | 654 | 34.5 | 692 | 44.7 | 730 | 51.2 |
| 617 | 0.0 | 655 | 36.0 | 693 | 43.7 | 731 | 53.0 |
| 618 | 1.2 | 656 | 36.9 | 694 | 42.0 | 732 | 54.2 |
| 619 | 2.3 | 657 | 36.7 | 695 | 41.2 | 733 | 55.4 |
| 620 | 4.2 | 658 | 35.9 | 696 | 40.3 | 734 | 56.8 |
| 621 | 5.4 | 659 | 35.4 | 697 | 39.8 | 735 | 57.9 |
| 622 | 6.0 | 660 | 36.1 | 698 | 39.7 | 736 | 58.7 |
| 623 | 6.6 | 661 | 36.5 | 699 | 40.0 | 737 | 59.4 |
| 624 | 6.7 | 662 | 36.9 | 700 | 40.7 | 738 | 59.9 |
| 625 | 7.0 | 663 | 37.0 | 701 | 41.0 | 739 | 59.9 |
| 626 | 7.9 | 664 | 37.3 | 702 | 41.6 | 740 | 59.9 |
| 627 | 8.7 | 665 | 36.3 | 703 | 41.9 | 741 | 59.7 |
| 628 | 8.2 | 666 | 37.4 | 704 | 42.3 | 742 | 59.1 |
| 629 | 9.6 | 667 | 37.6 | 705 | 43.2 | 743 | 58.4 |
| 630 | 10.5 | 668 | 38.5 | 706 | 43.8 | 744 | 57.8 |
| 631 | 13.0 | 669 | 39.0 | 707 | 44.1 | 745 | 57.3 |
| 632 | 15.6 | 670 | 41.5 | 708 | 44.8 | 746 | 56.3 |
| 633 | 16.5 | 671 | 42.6 | 709 | 44.6 | 747 | 56.0 |
| 634 | 15.6 | 672 | 43.8 | 710 | 44.6 | 748 | 55.7 |
| 635 | 16.7 | 673 | 44.3 | 711 | 44.7 | 749 | 54.8 |
| 636 | 19.4 | 674 | 44.4 | 712 | 45.0 | 750 | 53.9 |
| 637 | 20.8 | 675 | 43.6 | 713 | 45.7 | 751 | 52.8 |
| 638 | 22.0 | 676 | 43.7 | 714 | 46.5 | 752 | 52.0 |
| 639 | 23.0 | 677 | 44.0 | 715 | 47.0 | 753 | 52.1 |
| 640 | 23.9 | 678 | 45.7 | 716 | 47.6 | 754 | 53.1 |
| 641 | 24.7 | 679 | 47.0 | 717 | 48.5 | 755 | 53.5 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 756 | 54.0 | 794 | 18.0 | 832 | 0.0 | 870 | 37.9 |
| 757 | 54.1 | 795 | 17.7 | 833 | 0.0 | 871 | 38.0 |
| 758 | 54.7 | 796 | 17.2 | 834 | 0.0 | 872 | 37.9 |
| 759 | 55.4 | 797 | 15.0 | 835 | 0.0 | 873 | 37.5 |
| 760 | 55.8 | 798 | 14.2 | 836 | 3.4 | 874 | 36.1 |
| 761 | 56.4 | 799 | 13.7 | 837 | 4.7 | 875 | 36.0 |
| 762 | 56.9 | 800 | 12.9 | 838 | 6.9 | 876 | 33.9 |
| 763 | 57.0 | 801 | 10.8 | 839 | 10.4 | 877 | 31.2 |
| 764 | 58.4 | 802 | 10.4 | 840 | 12.6 | 878 | 28.6 |
| 765 | 59.0 | 803 | 10.3 | 841 | 13.7 | 879 | 25.9 |
| 766 | 59.6 | 804 | 9.8 | 842 | 16.3 | 880 | 22.7 |
| 767 | 60.0 | 805 | 7.2 | 843 | 20.0 | 881 | 19.5 |
| 768 | 60.4 | 806 | 6.4 | 844 | 21.8 | 882 | 16.8 |
| 769 | 60.3 | 807 | 5.6 | 845 | 23.1 | 883 | 15.0 |
| 770 | 59.9 | 808 | 3.4 | 846 | 23.1 | 884 | 15.7 |
| 771 | 59.1 | 809 | 2.3 | 847 | 24.2 | 885 | 16.9 |
| 772 | 58.0 | 810 | 0.0 | 848 | 25.4 | 886 | 18.0 |
| 773 | 57.8 | 811 | 0.0 | 849 | 26.3 | 887 | 18.9 |
| 774 | 56.7 | 812 | 0.0 | 850 | 27.3 | 888 | 21.2 |
| 775 | 55.7 | 813 | 0.0 | 851 | 27.3 | 889 | 21.5 |
| 776 | 54.9 | 814 | 0.0 | 852 | 28.4 | 890 | 21.6 |
| 777 | 52.4 | 815 | 0.0 | 853 | 28.9 | 891 | 22.1 |
| 778 | 49.8 | 816 | 0.0 | 854 | 29.7 | 892 | 22.8 |
| 779 | 46.0 | 817 | 0.0 | 855 | 30.6 | 893 | 24.3 |
| 780 | 41.4 | 818 | 0.0 | 856 | 32.7 | 894 | 24.9 |
| 781 | 38.2 | 819 | 0.0 | 857 | 34.0 | 895 | 26.5 |
| 782 | 35.9 | 820 | 0.0 | 858 | 35.3 | 896 | 27.5 |
| 783 | 33.7 | 821 | 0.0 | 859 | 36.5 | 897 | 28.3 |
| 784 | 30.3 | 822 | 0.0 | 860 | 38.4 | 898 | 29.5 |
| 785 | 26.5 | 823 | 0.0 | 861 | 41.6 | 899 | 30.7 |
| 786 | 24.8 | 824 | 0.0 | 862 | 42.9 | 900 | 31.7 |
| 787 | 21.5 | 825 | 0.0 | 863 | 42.9 | 901 | 32.4 |
| 788 | 20.1 | 826 | 0.0 | 864 | 42.9 | 902 | 32.5 |
| 789 | 19.0 | 827 | 0.0 | 865 | 43.5 | 903 | 32.9 |
| 790 | 18.7 | 828 | 0.0 | 866 | 43.0 | 904 | 33.0 |
| 791 | 18.4 | 829 | 0.0 | 867 | 40.9 | 905 | 33.9 |
| 792 | 18.4 | 830 | 0.0 | 868 | 40.5 | 906 | 34.4 |
| 793 | 18.0 | 831 | 0.0 | 869 | 39.6 | 907 | 35.8 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 908 | 36.2 | 946 | 34.0 | 984 | 20.5 | 1022 | 28.9 |
| 909 | 37.2 | 947 | 33.7 | 985 | 20.6 | 1023 | 28.8 |
| 910 | 37.9 | 948 | 33.0 | 986 | 20.7 | 1024 | 28.7 |
| 911 | 38.6 | 949 | 31.1 | 987 | 22.0 | 1025 | 28.3 |
| 912 | 38.7 | 950 | 31.1 | 988 | 21.9 | 1026 | 28.4 |
| 913 | 39.1 | 951 | 31.0 | 989 | 21.8 | 1027 | 27.8 |
| 914 | 38.7 | 952 | 30.3 | 990 | 22.3 | 1028 | 28.8 |
| 915 | 38.7 | 953 | 30.6 | 991 | 22.6 | 1029 | 30.0 |
| 916 | 38.7 | 954 | 30.9 | 992 | 22.7 | 1030 | 30.0 |
| 917 | 39.6 | 955 | 31.0 | 993 | 24.3 | 1031 | 29.6 |
| 918 | 40.1 | 956 | 32.3 | 994 | 24.9 | 1032 | 30.0 |
| 919 | 40.0 | 957 | 32.6 | 995 | 24.8 | 1033 | 29.9 |
| 920 | 39.7 | 958 | 33.8 | 996 | 24.8 | 1034 | 30.5 |
| 921 | 40.7 | 959 | 33.7 | 997 | 25.7 | 1035 | 30.6 |
| 922 | 41.4 | 960 | 33.7 | 998 | 27.3 | 1036 | 31.5 |
| 923 | 42.1 | 961 | 32.9 | 999 | 29.1 | 1037 | 31.5 |
| 924 | 42.5 | 962 | 32.8 | 1000 | 30.1 | 1038 | 31.1 |
| 925 | 42.5 | 963 | 31.5 | 1001 | 30.5 | 1039 | 30.3 |
| 926 | 41.6 | 964 | 31.0 | 1002 | 30.5 | 1040 | 30.3 |
| 927 | 40.7 | 965 | 28.7 | 1003 | 30.6 | 1041 | 30.8 |
| 928 | 39.1 | 966 | 26.5 | 1004 | 30.6 | 1042 | 31.3 |
| 929 | 39.0 | 967 | 23.1 | 1005 | 31.3 | 1043 | 31.2 |
| 930 | 39.5 | 968 | 20.3 | 1006 | 32.5 | 1044 | 29.9 |
| 931 | 39.8 | 969 | 17.6 | 1007 | 33.5 | 1045 | 28.7 |
| 932 | 39.7 | 970 | 14.3 | 1008 | 34.3 | 1046 | 27.3 |
| 933 | 39.6 | 971 | 10.5 | 1009 | 35.6 | 1047 | 26.5 |
| 934 | 38.3 | 972 | 8.2 | 1010 | 36.6 | 1048 | 26.4 |
| 935 | 36.5 | 973 | 7.3 | 1011 | 36.0 | 1049 | 25.9 |
| 936 | 33.2 | 974 | 5.8 | 1012 | 36.1 | 1050 | 26.4 |
| 937 | 30.7 | 975 | 6.1 | 1013 | 37.3 | 1051 | 25.7 |
| 938 | 30.1 | 976 | 7.1 | 1014 | 36.2 | 1052 | 24.7 |
| 939 | 30.2 | 977 | 9.0 | 1015 | 34.2 | 1053 | 22.7 |
| 940 | 31.2 | 978 | 10.0 | 1016 | 33.3 | 1054 | 21.5 |
| 941 | 32.3 | 979 | 12.2 | 1017 | 32.0 | 1055 | 19.7 |
| 942 | 32.9 | 980 | 13.7 | 1018 | 31.4 | 1056 | 18.5 |
| 943 | 32.9 | 981 | 16.8 | 1019 | 31.3 | 1057 | 17.8 |
| 944 | 33.2 | 982 | 18.4 | 1020 | 30.6 | 1058 | 16.4 |
| 945 | 34.1 | 983 | 19.7 | 1021 | 30.5 | 1059 | 15.5 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1060 | 14.7 | 1098 | 25.8 | 1136 | 0.0 | 1174 | 0.0 |
| 1061 | 13.8 | 1099 | 27.0 | 1137 | 0.0 | 1175 | 0.0 |
| 1062 | 12.0 | 1100 | 28.1 | 1138 | 0.0 | 1176 | 0.0 |
| 1063 | 11.5 | 1101 | 31.6 | 1139 | 0.0 | 1177 | 0.0 |
| 1064 | 11.0 | 1102 | 33.1 | 1140 | 0.0 | 1178 | 0.0 |
| 1065 | 10.4 | 1103 | 32.8 | 1141 | 0.0 | 1179 | 0.0 |
| 1066 | 9.8 | 1104 | 34.2 | 1142 | 0.0 | 1180 | 0.0 |
| 1067 | 11.0 | 1105 | 34.6 | 1143 | 0.0 | 1181 | 0.0 |
| 1068 | 11.0 | 1106 | 35.5 | 1144 | 0.0 | 1182 | 0.0 |
| 1069 | 12.3 | 1107 | 35.4 | 1145 | 0.0 | 1183 | 0.0 |
| 1070 | 12.2 | 1108 | 35.3 | 1146 | 0.0 | 1184 | 1.4 |
| 1071 | 12.6 | 1109 | 35.1 | 1147 | 0.0 | 1185 | 3.6 |
| 1072 | 13.5 | 1110 | 34.6 | 1148 | 0.0 | 1186 | 5.6 |
| 1073 | 13.0 | 1111 | 34.6 | 1149 | 0.0 | 1187 | 7.9 |
| 1074 | 13.9 | 1112 | 35.3 | 1150 | 0.0 | 1188 | 10.7 |
| 1075 | 14.0 | 1113 | 36.6 | 1151 | 0.0 | 1189 | 12.7 |
| 1076 | 13.5 | 1114 | 35.8 | 1152 | 0.0 | 1190 | 11.3 |
| 1077 | 13.5 | 1115 | 35.8 | 1153 | 0.0 | 1191 | 12.9 |
| 1078 | 11.6 | 1116 | 35.3 | 1154 | 0.0 | 1192 | 15.0 |
| 1079 | 11.6 | 1117 | 35.8 | 1155 | 0.0 | 1193 | 17.4 |
| 1080 | 11.7 | 1118 | 35.3 | 1156 | 0.0 | 1194 | 19.9 |
| 1081 | 12.1 | 1119 | 34.7 | 1157 | 0.0 | 1195 | 22.4 |
| 1082 | 13.5 | 1120 | 34.2 | 1158 | 0.0 | 1196 | 25.8 |
| 1083 | 13.9 | 1121 | 33.5 | 1159 | 0.0 | 1197 | 25.4 |
| 1084 | 12.7 | 1122 | 32.3 | 1160 | 0.0 | 1198 | 26.5 |
| 1085 | 13.1 | 1123 | 31.2 | 1161 | 0.0 | 1199 | 27.9 |
| 1086 | 13.0 | 1124 | 29.9 | 1162 | 0.0 | 1200 | 29.0 |
| 1087 | 13.0 | 1125 | 28.5 | 1163 | 0.0 | 1201 | 30.7 |
| 1088 | 13.5 | 1126 | 27.0 | 1164 | 0.0 | 1202 | 35.1 |
| 1089 | 12.8 | 1127 | 25.1 | 1165 | 0.0 | 1203 | 36.8 |
| 1090 | 12.8 | 1128 | 21.7 | 1166 | 0.0 | 1204 | 38.8 |
| 1091 | 13.4 | 1129 | 18.9 | 1167 | 0.0 | 1205 | 39.4 |
| 1092 | 16.0 | 1130 | 16.0 | 1168 | 0.0 | 1206 | 38.4 |
| 1093 | 18.0 | 1131 | 13.3 | 1169 | 0.0 | 1207 | 38.4 |
| 1094 | 19.7 | 1132 | 10.0 | 1170 | 0.0 | 1208 | 38.8 |
| 1095 | 21.0 | 1133 | 8.0 | 1171 | 0.0 | 1209 | 39.1 |
| 1096 | 22.5 | 1134 | 5.7 | 1172 | 0.0 | 1210 | 39.9 |
| 1097 | 24.1 | 1135 | 3.1 | 1173 | 0.0 | 1211 | 40.3 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1212 | 40.3 | 1250 | 32.3 | 1288 | 69.2 | 1326 | 76.0 |
| 1213 | 41.5 | 1251 | 32.0 | 1289 | 69.6 | 1327 | 75.8 |
| 1214 | 42.5 | 1252 | 33.8 | 1290 | 70.2 | 1328 | 75.1 |
| 1215 | 43.5 | 1253 | 34.2 | 1291 | 70.9 | 1329 | 74.6 |
| 1216 | 45.1 | 1254 | 35.7 | 1292 | 71.8 | 1330 | 74.5 |
| 1217 | 45.5 | 1255 | 36.9 | 1293 | 73.0 | 1331 | 74.0 |
| 1218 | 45.6 | 1256 | 38.3 | 1294 | 73.1 | 1332 | 73.7 |
| 1219 | 45.4 | 1257 | 39.3 | 1295 | 74.8 | 1333 | 73.5 |
| 1220 | 45.2 | 1258 | 40.7 | 1296 | 75.5 | 1334 | 73.0 |
| 1221 | 45.0 | 1259 | 43.6 | 1297 | 77.0 | 1335 | 73.5 |
| 1222 | 44.8 | 1260 | 46.7 | 1298 | 77.9 | 1336 | 73.9 |
| 1223 | 43.3 | 1261 | 49.1 | 1299 | 78.9 | 1337 | 72.6 |
| 1224 | 42.7 | 1262 | 52.1 | 1300 | 80.0 | 1338 | 72.5 |
| 1225 | 40.3 | 1263 | 53.2 | 1301 | 80.7 | 1339 | 71.8 |
| 1226 | 39.5 | 1264 | 53.5 | 1302 | 81.6 | 1340 | 72.1 |
| 1227 | 38.6 | 1265 | 53.3 | 1303 | 81.9 | 1341 | 72.0 |
| 1228 | 36.4 | 1266 | 54.0 | 1304 | 81.9 | 1342 | 71.5 |
| 1229 | 37.9 | 1267 | 55.4 | 1305 | 83.3 | 1343 | 71.6 |
| 1230 | 38.8 | 1268 | 56.2 | 1306 | 83.4 | 1344 | 71.7 |
| 1231 | 39.3 | 1269 | 57.1 | 1307 | 83.7 | 1345 | 71.7 |
| 1232 | 39.7 | 1270 | 57.7 | 1308 | 84.3 | 1346 | 71.8 |
| 1233 | 40.0 | 1271 | 58.6 | 1309 | 84.6 | 1347 | 72.4 |
| 1234 | 39.7 | 1272 | 59.1 | 1310 | 84.9 | 1348 | 72.4 |
| 1235 | 37.4 | 1273 | 59.3 | 1311 | 84.8 | 1349 | 70.6 |
| 1236 | 36.4 | 1274 | 59.8 | 1312 | 84.7 | 1350 | 68.5 |
| 1237 | 35.9 | 1275 | 61.1 | 1313 | 84.2 | 1351 | 67.1 |
| 1238 | 32.7 | 1276 | 62.0 | 1314 | 83.3 | 1352 | 67.3 |
| 1239 | 30.6 | 1277 | 63.0 | 1315 | 81.4 | 1353 | 66.2 |
| 1240 | 30.2 | 1278 | 63.6 | 1316 | 82.2 | 1354 | 65.4 |
| 1241 | 30.9 | 1279 | 64.2 | 1317 | 81.4 | 1355 | 64.7 |
| 1242 | 30.6 | 1280 | 65.0 | 1318 | 80.8 | 1356 | 63.9 |
| 1243 | 30.6 | 1281 | 65.1 | 1319 | 80.0 | 1357 | 63.4 |
| 1244 | 31.0 | 1282 | 65.2 | 1320 | 79.4 | 1358 | 63.9 |
| 1245 | 33.0 | 1283 | 66.1 | 1321 | 79.0 | 1359 | 64.9 |
| 1246 | 32.6 | 1284 | 66.8 | 1322 | 78.3 | 1360 | 65.6 |
| 1247 | 31.8 | 1285 | 67.9 | 1323 | 78.4 | 1361 | 65.8 |
| 1248 | 31.5 | 1286 | 68.1 | 1324 | 77.7 | 1362 | 66.6 |
| 1249 | 31.5 | 1287 | 68.6 | 1325 | 77.2 | 1363 | 67.3 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1364 | 68.2 | 1402 | 86.6 | 1440 | 94.2 | 1478 | 91.8 |
| 1365 | 70.0 | 1403 | 87.2 | 1441 | 94.0 | 1479 | 89.7 |
| 1366 | 70.7 | 1404 | 87.5 | 1442 | 94.2 | 1480 | 89.7 |
| 1367 | 70.5 | 1405 | 89.3 | 1443 | 94.4 | 1481 | 89.0 |
| 1368 | 71.3 | 1406 | 89.7 | 1444 | 94.6 | 1482 | 88.7 |
| 1369 | 71.6 | 1407 | 90.6 | 1445 | 94.7 | 1483 | 88.4 |
| 1370 | 71.3 | 1408 | 92.4 | 1446 | 94.6 | 1484 | 88.5 |
| 1371 | 71.6 | 1409 | 93.2 | 1447 | 94.6 | 1485 | 87.8 |
| 1372 | 71.8 | 1410 | 92.7 | 1448 | 94.4 | 1486 | 86.9 |
| 1373 | 71.8 | 1411 | 92.0 | 1449 | 94.1 | 1487 | 86.9 |
| 1374 | 70.5 | 1412 | 91.5 | 1450 | 94.0 | 1488 | 86.4 |
| 1375 | 69.7 | 1413 | 91.1 | 1451 | 93.5 | 1489 | 84.7 |
| 1376 | 70.0 | 1414 | 91.4 | 1452 | 93.7 | 1490 | 85.6 |
| 1377 | 70.3 | 1415 | 91.7 | 1453 | 93.4 | 1491 | 85.3 |
| 1378 | 71.0 | 1416 | 92.9 | 1454 | 93.6 | 1492 | 85.3 |
| 1379 | 71.8 | 1417 | 93.2 | 1455 | 93.6 | 1493 | 84.7 |
| 1380 | 73.0 | 1418 | 93.2 | 1456 | 93.6 | 1494 | 85.0 |
| 1381 | 73.9 | 1419 | 93.8 | 1457 | 93.5 | 1495 | 85.7 |
| 1382 | 75.6 | 1420 | 94.7 | 1458 | 93.7 | 1496 | 85.6 |
| 1383 | 76.9 | 1421 | 95.6 | 1459 | 94.1 | 1497 | 85.4 |
| 1384 | 77.2 | 1422 | 96.2 | 1460 | 94.1 | 1498 | 85.6 |
| 1385 | 76.9 | 1423 | 96.4 | 1461 | 94.0 | 1499 | 85.4 |
| 1386 | 76.8 | 1424 | 96.8 | 1462 | 94.2 | 1500 | 84.5 |
| 1387 | 77.4 | 1425 | 97.0 | 1463 | 94.7 | 1501 | 84.8 |
| 1388 | 78.4 | 1426 | 96.7 | 1464 | 95.1 | 1502 | 83.8 |
| 1389 | 79.6 | 1427 | 96.2 | 1465 | 95.5 | 1503 | 83.5 |
| 1390 | 81.3 | 1428 | 94.9 | 1466 | 95.2 | 1504 | 82.3 |
| 1391 | 81.4 | 1429 | 94.8 | 1467 | 95.4 | 1505 | 82.9 |
| 1392 | 79.5 | 1430 | 95.0 | 1468 | 95.3 | 1506 | 82.6 |
| 1393 | 79.9 | 1431 | 95.2 | 1469 | 95.2 | 1507 | 84.0 |
| 1394 | 80.8 | 1432 | 95.8 | 1470 | 95.3 | 1508 | 82.6 |
| 1395 | 81.7 | 1433 | 95.4 | 1471 | 95.6 | 1509 | 81.7 |
| 1396 | 82.5 | 1434 | 95.1 | 1472 | 94.9 | 1510 | 81.3 |
| 1397 | 82.5 | 1435 | 95.3 | 1473 | 93.4 | 1511 | 81.4 |
| 1398 | 83.1 | 1436 | 95.5 | 1474 | 92.6 | 1512 | 81.3 |
| 1399 | 83.0 | 1437 | 94.7 | 1475 | 92.6 | 1513 | 79.5 |
| 1400 | 85.1 | 1438 | 94.3 | 1476 | 92.1 | 1514 | 78.3 |
| 1401 | 85.4 | 1439 | 94.2 | 1477 | 91.8 | 1515 | 77.9 |

表A.5　CHTC-LT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1516 | 77.4 | 1551 | 74.4 | 1586 | 83.9 | 1621 | 16.7 |
| 1517 | 78.0 | 1552 | 74.8 | 1587 | 83.7 | 1622 | 13.5 |
| 1518 | 78.5 | 1553 | 75.1 | 1588 | 83.1 | 1623 | 11.7 |
| 1519 | 79.1 | 1554 | 74.6 | 1589 | 83.7 | 1624 | 7.3 |
| 1520 | 78.9 | 1555 | 74.5 | 1590 | 83.6 | 1625 | 5.6 |
| 1521 | 78.5 | 1556 | 74.6 | 1591 | 83.6 | 1626 | 4.3 |
| 1522 | 77.9 | 1557 | 74.7 | 1592 | 83.6 | 1627 | 2.2 |
| 1523 | 77.6 | 1558 | 75.2 | 1593 | 83.3 | 1628 | 0.8 |
| 1524 | 72.7 | 1559 | 75.3 | 1594 | 83.4 | 1629 | 0.0 |
| 1525 | 72.4 | 1560 | 75.2 | 1595 | 83.5 | 1630 | 0.0 |
| 1526 | 72.4 | 1561 | 75.4 | 1596 | 83.7 | 1631 | 0.0 |
| 1527 | 72.6 | 1562 | 75.9 | 1597 | 84.1 | 1632 | 0.0 |
| 1528 | 71.8 | 1563 | 76.5 | 1598 | 83.3 | 1633 | 0.0 |
| 1529 | 71.2 | 1564 | 76.3 | 1599 | 80.5 | 1634 | 0.0 |
| 1530 | 70.2 | 1565 | 76.0 | 1600 | 76.5 | 1635 | 0.0 |
| 1531 | 69.0 | 1566 | 76.2 | 1601 | 73.1 | 1636 | 0.0 |
| 1532 | 69.4 | 1567 | 76.9 | 1602 | 68.8 | 1637 | 0.0 |
| 1533 | 69.9 | 1568 | 78.2 | 1603 | 65.2 | 1638 | 0.0 |
| 1534 | 70.6 | 1569 | 78.3 | 1604 | 62.3 | 1639 | 0.0 |
| 1535 | 71.9 | 1570 | 79.1 | 1605 | 58.4 | 1640 | 0.0 |
| 1536 | 72.8 | 1571 | 80.4 | 1606 | 54.9 | 1641 | 0.0 |
| 1537 | 73.5 | 1572 | 81.8 | 1607 | 52.2 | 1642 | 0.0 |
| 1538 | 73.7 | 1573 | 81.9 | 1608 | 49.1 | 1643 | 0.0 |
| 1539 | 74.1 | 1574 | 82.4 | 1609 | 46.0 | 1644 | 0.0 |
| 1540 | 74.4 | 1575 | 82.7 | 1610 | 41.0 | 1645 | 0.0 |
| 1541 | 73.7 | 1576 | 83.5 | 1611 | 39.5 | 1646 | 0.0 |
| 1542 | 72.6 | 1577 | 83.7 | 1612 | 38.7 | 1647 | 0.0 |
| 1543 | 72.7 | 1578 | 83.7 | 1613 | 37.1 | 1648 | 0.0 |
| 1544 | 73.1 | 1579 | 83.5 | 1614 | 35.4 | 1649 | 0.0 |
| 1545 | 74.1 | 1580 | 84.2 | 1615 | 33.7 | 1650 | 0.0 |
| 1546 | 74.9 | 1581 | 84.0 | 1616 | 33.1 | 1651 | 0.0 |
| 1547 | 74.5 | 1582 | 83.8 | 1617 | 28.8 | 1652 | 0.0 |
| 1548 | 74.4 | 1583 | 84.2 | 1618 | 26.4 |  |  |
| 1549 | 74.4 | 1584 | 84.1 | 1619 | 22.1 |  |  |
| 1550 | 74.5 | 1585 | 83.7 | 1620 | 20.2 |  |  |

* 1. CHTC-HT工况数据见表A.6

表A.6　CHTC-HT工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 37 | 3.1 | 74 | 6.3 | 111 | 14.5 |
| 1 | 0.0 | 38 | 6.9 | 75 | 5.8 | 112 | 13.7 |
| 2 | 0.0 | 39 | 7.4 | 76 | 5.8 | 113 | 14.6 |
| 3 | 0.0 | 40 | 7.8 | 77 | 6.0 | 114 | 15.6 |
| 4 | 0.0 | 41 | 7.5 | 78 | 7.1 | 115 | 15.7 |
| 5 | 0.0 | 42 | 6.8 | 79 | 7.2 | 116 | 16.0 |
| 6 | 0.0 | 43 | 6.7 | 80 | 7.5 | 117 | 15.6 |
| 7 | 0.0 | 44 | 5.2 | 81 | 7.5 | 118 | 14.6 |
| 8 | 0.0 | 45 | 4.8 | 82 | 7.4 | 119 | 14.6 |
| 9 | 0.0 | 46 | 4.9 | 83 | 7.8 | 120 | 13.7 |
| 10 | 0.0 | 47 | 6 | 84 | 8.9 | 121 | 13.9 |
| 11 | 0.0 | 48 | 5.7 | 85 | 8.0 | 122 | 13.6 |
| 12 | 0.0 | 49 | 3.9 | 86 | 4.5 | 123 | 14.0 |
| 13 | 0.0 | 50 | 1.6 | 87 | 0.5 | 124 | 15.0 |
| 14 | 0.0 | 51 | 0.6 | 88 | 0.0 | 125 | 15.8 |
| 15 | 0.0 | 52 | 0.0 | 89 | 0.0 | 126 | 16.4 |
| 16 | 0.0 | 53 | 0.0 | 90 | 0.0 | 127 | 17.9 |
| 17 | 0.0 | 54 | 0.0 | 91 | 0.0 | 128 | 19.7 |
| 18 | 0.0 | 55 | 0.0 | 92 | 0.0 | 129 | 20.6 |
| 19 | 0.0 | 56 | 0.0 | 93 | 0.0 | 130 | 21.4 |
| 20 | 0.0 | 57 | 0.5 | 94 | 0.0 | 131 | 21.3 |
| 21 | 0.0 | 58 | 1.3 | 95 | 0.0 | 132 | 21.3 |
| 22 | 0.0 | 59 | 3.3 | 96 | 0.0 | 133 | 20.3 |
| 23 | 0.0 | 60 | 5.8 | 97 | 0.0 | 134 | 19.6 |
| 24 | 0.0 | 61 | 5.0 | 98 | 0.0 | 135 | 19.6 |
| 25 | 0.0 | 62 | 4.7 | 99 | 1.2 | 136 | 19.9 |
| 26 | 0.0 | 63 | 4.5 | 100 | 5.5 | 137 | 19.9 |
| 27 | 0.0 | 64 | 5.4 | 101 | 3.7 | 138 | 20.3 |
| 28 | 0.0 | 65 | 4.9 | 102 | 5.5 | 139 | 20.1 |
| 29 | 0.0 | 66 | 5.8 | 103 | 7.7 | 140 | 20.2 |
| 30 | 0.0 | 67 | 5.9 | 104 | 8.5 | 141 | 19.7 |
| 31 | 0.0 | 68 | 5.7 | 105 | 7.9 | 142 | 19.1 |
| 32 | 0.0 | 69 | 6.1 | 106 | 8.6 | 143 | 17.5 |
| 33 | 0.0 | 70 | 5.3 | 107 | 9.1 | 144 | 15.6 |
| 34 | 0.0 | 71 | 5.5 | 108 | 12.2 | 145 | 12.9 |
| 35 | 0.0 | 72 | 5.9 | 109 | 13.4 | 146 | 11.5 |
| 36 | 0.5 | 73 | 6.0 | 110 | 14.2 | 147 | 8.6 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 148 | 6.9 | 186 | 5.3 | 224 | 13.1 | 262 | 5.4 |
| 149 | 6.0 | 187 | 6.4 | 225 | 13.1 | 263 | 5.4 |
| 150 | 4.1 | 188 | 6.3 | 226 | 13.0 | 264 | 5.1 |
| 151 | 3.1 | 189 | 7.2 | 227 | 12.7 | 265 | 5.0 |
| 152 | 0.8 | 190 | 7.4 | 228 | 12.7 | 266 | 5.1 |
| 153 | 0.0 | 191 | 6.6 | 229 | 13.0 | 267 | 5.5 |
| 154 | 0.0 | 192 | 6.1 | 230 | 13.7 | 268 | 5.8 |
| 155 | 0.0 | 193 | 6.2 | 231 | 13.9 | 269 | 4.4 |
| 156 | 0.0 | 194 | 7.0 | 232 | 14.3 | 270 | 4.1 |
| 157 | 0.0 | 195 | 7.6 | 233 | 14.7 | 271 | 3.4 |
| 158 | 0.0 | 196 | 7.9 | 234 | 14.8 | 272 | 2.7 |
| 159 | 0.0 | 197 | 9.3 | 235 | 14.3 | 273 | 2.2 |
| 160 | 0.0 | 198 | 10.7 | 236 | 13.2 | 274 | 2.3 |
| 161 | 0.0 | 199 | 11.5 | 237 | 13.1 | 275 | 3.1 |
| 162 | 0.0 | 200 | 10.9 | 238 | 11.8 | 276 | 0.9 |
| 163 | 0.0 | 201 | 9.8 | 239 | 10.4 | 277 | 0.0 |
| 164 | 0.0 | 202 | 10.3 | 240 | 9.4 | 278 | 0.0 |
| 165 | 0.0 | 203 | 10.2 | 241 | 8.5 | 279 | 0.0 |
| 166 | 0.0 | 204 | 10.1 | 242 | 8.0 | 280 | 0.0 |
| 167 | 0.0 | 205 | 10.3 | 243 | 7.3 | 281 | 0.0 |
| 168 | 0.0 | 206 | 9.5 | 244 | 7.1 | 282 | 0.0 |
| 169 | 0.0 | 207 | 9.7 | 245 | 6.4 | 283 | 0.0 |
| 170 | 0.0 | 208 | 9.9 | 246 | 6.0 | 284 | 0.0 |
| 171 | 0.0 | 209 | 10.4 | 247 | 4.2 | 285 | 0.0 |
| 172 | 0.0 | 210 | 9.0 | 248 | 3.4 | 286 | 0.0 |
| 173 | 0.0 | 211 | 9.2 | 249 | 2.5 | 287 | 0.0 |
| 174 | 0.0 | 212 | 9.8 | 250 | 1.9 | 288 | 0.0 |
| 175 | 0.0 | 213 | 10.8 | 251 | 2.9 | 289 | 0.0 |
| 176 | 0.0 | 214 | 11.3 | 252 | 3.6 | 290 | 0.0 |
| 177 | 0.0 | 215 | 11.6 | 253 | 3.7 | 291 | 0.0 |
| 178 | 0.0 | 216 | 11.6 | 254 | 2.9 | 292 | 0.0 |
| 179 | 0.0 | 217 | 11.3 | 255 | 4.0 | 293 | 0.0 |
| 180 | 0.0 | 218 | 12.1 | 256 | 4.7 | 294 | 0.0 |
| 181 | 0.0 | 219 | 12.4 | 257 | 4.6 | 295 | 0.0 |
| 182 | 0.0 | 220 | 12.6 | 258 | 4.6 | 296 | 0.0 |
| 183 | 2.5 | 221 | 12.5 | 259 | 4.6 | 297 | 0.0 |
| 184 | 3.7 | 222 | 12.4 | 260 | 5.1 | 298 | 0.0 |
| 185 | 5.0 | 223 | 12.5 | 261 | 5.1 | 299 | 0.0 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 300 | 0.0 | 338 | 0.0 | 376 | 35.8 | 414 | 5.1 |
| 301 | 0.0 | 339 | 0.0 | 377 | 36.1 | 415 | 8.7 |
| 302 | 0.0 | 340 | 0.0 | 378 | 37.0 | 416 | 12.8 |
| 303 | 0.0 | 341 | 0.0 | 379 | 38.2 | 417 | 16.9 |
| 304 | 0.0 | 342 | 0.0 | 380 | 40.3 | 418 | 17.2 |
| 305 | 0.0 | 343 | 2.7 | 381 | 41.6 | 419 | 17.2 |
| 306 | 0.0 | 344 | 7.1 | 382 | 40.7 | 420 | 16.8 |
| 307 | 0.0 | 345 | 8.3 | 383 | 40.2 | 421 | 20.0 |
| 308 | 0.0 | 346 | 9.2 | 384 | 39.6 | 422 | 21.4 |
| 309 | 0.0 | 347 | 10.2 | 385 | 38.9 | 423 | 22.9 |
| 310 | 0.0 | 348 | 14.3 | 386 | 38.0 | 424 | 24.2 |
| 311 | 0.0 | 349 | 18.3 | 387 | 37.5 | 425 | 25.2 |
| 312 | 0.0 | 350 | 18.6 | 388 | 36.6 | 426 | 26.2 |
| 313 | 0.0 | 351 | 18.6 | 389 | 32.4 | 427 | 27.5 |
| 314 | 0.0 | 352 | 20.4 | 390 | 27.9 | 428 | 30.1 |
| 315 | 0.0 | 353 | 22.6 | 391 | 24.3 | 429 | 30.1 |
| 316 | 0.0 | 354 | 25.6 | 392 | 24.2 | 430 | 29.2 |
| 317 | 0.0 | 355 | 28.0 | 393 | 23.2 | 431 | 28.9 |
| 318 | 0.0 | 356 | 28.9 | 394 | 21.5 | 432 | 28.7 |
| 319 | 0.0 | 357 | 29.9 | 395 | 19.2 | 433 | 29.0 |
| 320 | 0.0 | 358 | 31.6 | 396 | 14.7 | 434 | 29.3 |
| 321 | 0.0 | 359 | 32.9 | 397 | 11.1 | 435 | 30.8 |
| 322 | 0.0 | 360 | 32.8 | 398 | 8.1 | 436 | 31.6 |
| 323 | 0.0 | 361 | 31.8 | 399 | 4.9 | 437 | 32.4 |
| 324 | 0.0 | 362 | 31.0 | 400 | 3.4 | 438 | 33.0 |
| 325 | 0.0 | 363 | 30.6 | 401 | 2.8 | 439 | 33.5 |
| 326 | 0.0 | 364 | 31.1 | 402 | 3.0 | 440 | 33.9 |
| 327 | 0.0 | 365 | 33.1 | 403 | 2.6 | 441 | 33.8 |
| 328 | 0.0 | 366 | 34.5 | 404 | 0.0 | 442 | 33.3 |
| 329 | 0.0 | 367 | 35.8 | 405 | 0.0 | 443 | 32.5 |
| 330 | 0.0 | 368 | 36.8 | 406 | 0.0 | 444 | 33.0 |
| 331 | 0.0 | 369 | 36.0 | 407 | 0.0 | 445 | 33.8 |
| 332 | 0.0 | 370 | 36.1 | 408 | 0.0 | 446 | 34.3 |
| 333 | 0.0 | 371 | 36.7 | 409 | 0.0 | 447 | 35.0 |
| 334 | 0.0 | 372 | 37.2 | 410 | 0.0 | 448 | 35.8 |
| 335 | 0.0 | 373 | 37.2 | 411 | 0.0 | 449 | 36.2 |
| 336 | 0.0 | 374 | 36.5 | 412 | 1.4 | 450 | 36.5 |
| 337 | 0.0 | 375 | 35.8 | 413 | 3.6 | 451 | 36.8 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 452 | 37.1 | 490 | 40.8 | 528 | 2.9 | 566 | 11.0 |
| 453 | 37.3 | 491 | 40.7 | 529 | 6.3 | 567 | 9.4 |
| 454 | 37.3 | 492 | 40.6 | 530 | 5.5 | 568 | 10.1 |
| 455 | 38.1 | 493 | 40.6 | 531 | 5.0 | 569 | 7.6 |
| 456 | 38.4 | 494 | 40.4 | 532 | 3.0 | 570 | 6.6 |
| 457 | 38.5 | 495 | 40.3 | 533 | 4.4 | 571 | 9.5 |
| 458 | 38.7 | 496 | 40.2 | 534 | 4.1 | 572 | 5.1 |
| 459 | 39.0 | 497 | 39.8 | 535 | 8.3 | 573 | 6.2 |
| 460 | 38.9 | 498 | 39.7 | 536 | 8.3 | 574 | 5.0 |
| 461 | 38.9 | 499 | 39.7 | 537 | 11.3 | 575 | 7.9 |
| 462 | 38.8 | 500 | 39.8 | 538 | 10.4 | 576 | 11.1 |
| 463 | 38.9 | 501 | 39.7 | 539 | 12.7 | 577 | 13.1 |
| 464 | 38.7 | 502 | 38.4 | 540 | 14.4 | 578 | 12.8 |
| 465 | 38.8 | 503 | 37.2 | 541 | 14.6 | 579 | 14.1 |
| 466 | 38.8 | 504 | 33.9 | 542 | 12.1 | 580 | 16.4 |
| 467 | 38.8 | 505 | 29.6 | 543 | 12.2 | 581 | 16.6 |
| 468 | 38.9 | 506 | 25.7 | 544 | 12.1 | 582 | 18.2 |
| 469 | 39.5 | 507 | 21.4 | 545 | 11.3 | 583 | 20.5 |
| 470 | 40.0 | 508 | 17.2 | 546 | 12.5 | 584 | 22.1 |
| 471 | 40.2 | 509 | 14.1 | 547 | 13.5 | 585 | 21.7 |
| 472 | 40.5 | 510 | 10.9 | 548 | 13.9 | 586 | 22.9 |
| 473 | 40.8 | 511 | 7.2 | 549 | 13.7 | 587 | 25.4 |
| 474 | 41.2 | 512 | 3.4 | 550 | 12.8 | 588 | 26.8 |
| 475 | 41.5 | 513 | 2.4 | 551 | 13.3 | 589 | 27.9 |
| 476 | 41.8 | 514 | 0.0 | 552 | 13.2 | 590 | 28.8 |
| 477 | 42.1 | 515 | 0.0 | 553 | 10.6 | 591 | 28.1 |
| 478 | 42.2 | 516 | 0.0 | 554 | 11.8 | 592 | 31.3 |
| 479 | 42.2 | 517 | 0.0 | 555 | 11.9 | 593 | 30.8 |
| 480 | 42.3 | 518 | 0.0 | 556 | 12.3 | 594 | 31.9 |
| 481 | 42.5 | 519 | 0.0 | 557 | 12.9 | 595 | 31.4 |
| 482 | 42.6 | 520 | 0.0 | 558 | 13.0 | 596 | 30.7 |
| 483 | 42.6 | 521 | 0.0 | 559 | 13.3 | 597 | 30.2 |
| 484 | 42.5 | 522 | 0.0 | 560 | 13.7 | 598 | 30.1 |
| 485 | 42.4 | 523 | 0.0 | 561 | 13.9 | 599 | 30.5 |
| 486 | 42.1 | 524 | 1.0 | 562 | 13.1 | 600 | 31.9 |
| 487 | 41.7 | 525 | 2.2 | 563 | 11.9 | 601 | 33.2 |
| 488 | 41.5 | 526 | 0.7 | 564 | 10.1 | 602 | 34.2 |
| 489 | 41.3 | 527 | 3.9 | 565 | 9.2 | 603 | 34.3 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 604 | 35.5 | 642 | 47.8 | 680 | 0.0 | 718 | 9.4 |
| 605 | 36.8 | 643 | 49.0 | 681 | 0.0 | 719 | 9.8 |
| 606 | 36.3 | 644 | 49.8 | 682 | 0.0 | 720 | 10.3 |
| 607 | 36.2 | 645 | 49.8 | 683 | 0.0 | 721 | 11.1 |
| 608 | 37.9 | 646 | 49.8 | 684 | 0.0 | 722 | 11.6 |
| 609 | 38.9 | 647 | 49.8 | 685 | 0.0 | 723 | 11.5 |
| 610 | 39.9 | 648 | 49.5 | 686 | 0.0 | 724 | 12.2 |
| 611 | 40.6 | 649 | 46.9 | 687 | 0.6 | 725 | 13.9 |
| 612 | 39.8 | 650 | 44.3 | 688 | 2.5 | 726 | 14.9 |
| 613 | 41.2 | 651 | 40.2 | 689 | 3.7 | 727 | 15.8 |
| 614 | 41.2 | 652 | 36.6 | 690 | 4.4 | 728 | 17.3 |
| 615 | 42.0 | 653 | 33.7 | 691 | 4.9 | 729 | 17.8 |
| 616 | 43.8 | 654 | 31.6 | 692 | 6.0 | 730 | 18.1 |
| 617 | 44.9 | 655 | 28.8 | 693 | 7.2 | 731 | 19.0 |
| 618 | 45.7 | 656 | 28.0 | 694 | 7.3 | 732 | 20.0 |
| 619 | 45.2 | 657 | 28.1 | 695 | 6.9 | 733 | 22.1 |
| 620 | 46.3 | 658 | 25.5 | 696 | 8.9 | 734 | 23.5 |
| 621 | 45.7 | 659 | 21.8 | 697 | 9.6 | 735 | 23.9 |
| 622 | 49.4 | 660 | 18.3 | 698 | 10.3 | 736 | 24.5 |
| 623 | 49.3 | 661 | 15.1 | 699 | 10.9 | 737 | 25.3 |
| 624 | 48.0 | 662 | 12.2 | 700 | 11.0 | 738 | 26.1 |
| 625 | 47.6 | 663 | 10.4 | 701 | 11.2 | 739 | 27.3 |
| 626 | 46.1 | 664 | 9.6 | 702 | 11.3 | 740 | 29.5 |
| 627 | 46.3 | 665 | 7.2 | 703 | 13.2 | 741 | 30.1 |
| 628 | 46.6 | 666 | 4.9 | 704 | 14.3 | 742 | 30.7 |
| 629 | 46.1 | 667 | 4.5 | 705 | 15.4 | 743 | 31.5 |
| 630 | 44.7 | 668 | 4.3 | 706 | 16.3 | 744 | 32.2 |
| 631 | 43.3 | 669 | 3.9 | 707 | 16.7 | 745 | 33.0 |
| 632 | 42.0 | 670 | 3.9 | 708 | 17.3 | 746 | 34.0 |
| 633 | 41.8 | 671 | 3.4 | 709 | 17.6 | 747 | 35.8 |
| 634 | 41.7 | 672 | 1.0 | 710 | 15.4 | 748 | 36.4 |
| 635 | 42.2 | 673 | 0.0 | 711 | 13.6 | 749 | 36.9 |
| 636 | 43.2 | 674 | 0.0 | 712 | 11.3 | 750 | 37.4 |
| 637 | 44.2 | 675 | 0.0 | 713 | 8.8 | 751 | 38.0 |
| 638 | 44.8 | 676 | 0.0 | 714 | 8.5 | 752 | 38.7 |
| 639 | 45.7 | 677 | 0.0 | 715 | 8.8 | 753 | 39.5 |
| 640 | 46.4 | 678 | 0.0 | 716 | 8.2 | 754 | 41.0 |
| 641 | 47.6 | 679 | 0.0 | 717 | 9.3 | 755 | 41.8 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 756 | 42.5 | 794 | 21.7 | 832 | 28.0 | 870 | 34.1 |
| 757 | 43.3 | 795 | 21.6 | 833 | 28.1 | 871 | 34.3 |
| 758 | 44.1 | 796 | 20.9 | 834 | 28.6 | 872 | 34.3 |
| 759 | 44.6 | 797 | 20.4 | 835 | 28.8 | 873 | 34.2 |
| 760 | 45.0 | 798 | 20.4 | 836 | 29.1 | 874 | 34.1 |
| 761 | 45.8 | 799 | 20.9 | 837 | 28.7 | 875 | 34.1 |
| 762 | 46.4 | 800 | 21.6 | 838 | 29.3 | 876 | 34.0 |
| 763 | 46.8 | 801 | 22.1 | 839 | 29.6 | 877 | 33.2 |
| 764 | 47.5 | 802 | 22.1 | 840 | 29.9 | 878 | 32.8 |
| 765 | 48.1 | 803 | 22.9 | 841 | 30.1 | 879 | 32.4 |
| 766 | 48.6 | 804 | 23.3 | 842 | 30.1 | 880 | 31.8 |
| 767 | 49.0 | 805 | 22.5 | 843 | 30.6 | 881 | 30.8 |
| 768 | 49.2 | 806 | 22.9 | 844 | 30.6 | 882 | 30.4 |
| 769 | 50.0 | 807 | 22.6 | 845 | 30.8 | 883 | 29.4 |
| 770 | 50.1 | 808 | 22.8 | 846 | 30.8 | 884 | 28.8 |
| 771 | 49.9 | 809 | 22.8 | 847 | 31.0 | 885 | 28.3 |
| 772 | 47.8 | 810 | 23.0 | 848 | 31.5 | 886 | 27.8 |
| 773 | 45.3 | 811 | 23.3 | 849 | 31.6 | 887 | 27.0 |
| 774 | 42.5 | 812 | 24.2 | 850 | 31.7 | 888 | 26.0 |
| 775 | 38.8 | 813 | 25.0 | 851 | 32.1 | 889 | 24.4 |
| 776 | 35.3 | 814 | 25.6 | 852 | 32.4 | 890 | 21.8 |
| 777 | 32.0 | 815 | 25.6 | 853 | 31.9 | 891 | 20.0 |
| 778 | 28.4 | 816 | 26.0 | 854 | 31.9 | 892 | 18.3 |
| 779 | 25.0 | 817 | 26.4 | 855 | 32.6 | 893 | 16.9 |
| 780 | 23.4 | 818 | 26.9 | 856 | 32.3 | 894 | 14.9 |
| 781 | 22.7 | 819 | 27.5 | 857 | 32.4 | 895 | 14.2 |
| 782 | 21.7 | 820 | 26.8 | 858 | 32.4 | 896 | 12.2 |
| 783 | 22.7 | 821 | 26.7 | 859 | 32.7 | 897 | 9.4 |
| 784 | 22.9 | 822 | 26.5 | 860 | 32.7 | 898 | 8.3 |
| 785 | 22.7 | 823 | 26.2 | 861 | 33.0 | 899 | 6.3 |
| 786 | 22.8 | 824 | 26.4 | 862 | 32.9 | 900 | 6.6 |
| 787 | 22.5 | 825 | 26.7 | 863 | 32.8 | 901 | 6.9 |
| 788 | 22.3 | 826 | 26.9 | 864 | 33.7 | 902 | 6.8 |
| 789 | 22.2 | 827 | 26.8 | 865 | 33.9 | 903 | 5.7 |
| 790 | 21.6 | 828 | 27.2 | 866 | 33.9 | 904 | 5.8 |
| 791 | 21.8 | 829 | 27.2 | 867 | 34.2 | 905 | 3.7 |
| 792 | 21.8 | 830 | 27.6 | 868 | 33.9 | 906 | 3.7 |
| 793 | 21.9 | 831 | 27.6 | 869 | 34.0 | 907 | 3.6 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 908 | 4.1 | 946 | 14.3 | 984 | 34.6 | 1022 | 60.1 |
| 909 | 4.3 | 947 | 17.0 | 985 | 34.3 | 1023 | 60.6 |
| 910 | 5.3 | 948 | 18.1 | 986 | 34.2 | 1024 | 60.9 |
| 911 | 5.5 | 949 | 18.6 | 987 | 34.7 | 1025 | 61.7 |
| 912 | 5.3 | 950 | 19.5 | 988 | 35.2 | 1026 | 61.7 |
| 913 | 4.1 | 951 | 20.3 | 989 | 36.2 | 1027 | 61.5 |
| 914 | 2.5 | 952 | 21.0 | 990 | 36.9 | 1028 | 61.8 |
| 915 | 0.0 | 953 | 21.4 | 991 | 38.0 | 1029 | 61.7 |
| 916 | 0.0 | 954 | 22.9 | 992 | 39.0 | 1030 | 61.4 |
| 917 | 0.0 | 955 | 24.0 | 993 | 39.4 | 1031 | 60.9 |
| 918 | 0.0 | 956 | 24.4 | 994 | 40.2 | 1032 | 60.1 |
| 919 | 0.0 | 957 | 24.7 | 995 | 41.1 | 1033 | 59.8 |
| 920 | 0.0 | 958 | 25.2 | 996 | 42.2 | 1034 | 59.1 |
| 921 | 0.0 | 959 | 26.3 | 997 | 43.9 | 1035 | 58.6 |
| 922 | 0.0 | 960 | 27.4 | 998 | 45.4 | 1036 | 58.2 |
| 923 | 0.0 | 961 | 29.8 | 999 | 45.8 | 1037 | 57.9 |
| 924 | 0.0 | 962 | 30.9 | 1000 | 46.3 | 1038 | 57.1 |
| 925 | 0.0 | 963 | 31.7 | 1001 | 46.7 | 1039 | 56.2 |
| 926 | 0.0 | 964 | 32.7 | 1002 | 47.5 | 1040 | 55.7 |
| 927 | 0.0 | 965 | 32.6 | 1003 | 47.9 | 1041 | 55.2 |
| 928 | 0.0 | 966 | 32.9 | 1004 | 48.9 | 1042 | 54.7 |
| 929 | 0.0 | 967 | 33.4 | 1005 | 49.7 | 1043 | 54.3 |
| 930 | 0.0 | 968 | 34.9 | 1006 | 50.3 | 1044 | 53.8 |
| 931 | 0.0 | 969 | 35.5 | 1007 | 50.8 | 1045 | 53.3 |
| 932 | 0.0 | 970 | 35.6 | 1008 | 51.8 | 1046 | 52.3 |
| 933 | 0.0 | 971 | 35.9 | 1009 | 52.4 | 1047 | 51.8 |
| 934 | 0.0 | 972 | 35.9 | 1010 | 53.0 | 1048 | 51.5 |
| 935 | 0.0 | 973 | 36.9 | 1011 | 53.9 | 1049 | 51.2 |
| 936 | 1.1 | 974 | 36.1 | 1012 | 54.4 | 1050 | 50.8 |
| 937 | 2.6 | 975 | 35.9 | 1013 | 54.7 | 1051 | 50.5 |
| 938 | 4.6 | 976 | 35.6 | 1014 | 55.4 | 1052 | 50.4 |
| 939 | 6.4 | 977 | 35.0 | 1015 | 56.0 | 1053 | 50.5 |
| 940 | 10.6 | 978 | 34.3 | 1016 | 56.4 | 1054 | 50.7 |
| 941 | 12.2 | 979 | 34.9 | 1017 | 57.0 | 1055 | 50.6 |
| 942 | 13.1 | 980 | 34.8 | 1018 | 58.2 | 1056 | 50.7 |
| 943 | 13.1 | 981 | 34.4 | 1019 | 58.6 | 1057 | 51.0 |
| 944 | 12.6 | 982 | 34.8 | 1020 | 59.2 | 1058 | 51.4 |
| 945 | 13.2 | 983 | 34.8 | 1021 | 59.5 | 1059 | 51.9 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1060 | 52.5 | 1098 | 56.3 | 1136 | 57.4 | 1174 | 29.4 |
| 1061 | 52.5 | 1099 | 56.5 | 1137 | 56.6 | 1175 | 30.4 |
| 1062 | 52.3 | 1100 | 56.5 | 1138 | 55.1 | 1176 | 31.0 |
| 1063 | 52.5 | 1101 | 56.0 | 1139 | 53.5 | 1177 | 32.4 |
| 1064 | 52.4 | 1102 | 56.0 | 1140 | 51.9 | 1178 | 34.0 |
| 1065 | 52.0 | 1103 | 56.2 | 1141 | 50.2 | 1179 | 35.3 |
| 1066 | 51.5 | 1104 | 56.2 | 1142 | 50.1 | 1180 | 38.2 |
| 1067 | 51.5 | 1105 | 56.6 | 1143 | 50.0 | 1181 | 39.2 |
| 1068 | 51.5 | 1106 | 56.7 | 1144 | 49.6 | 1182 | 40.0 |
| 1069 | 51.8 | 1107 | 57.0 | 1145 | 48.6 | 1183 | 40.0 |
| 1070 | 52.7 | 1108 | 57.2 | 1146 | 48.0 | 1184 | 40.5 |
| 1071 | 53.0 | 1109 | 57.2 | 1147 | 48.6 | 1185 | 41.7 |
| 1072 | 53.2 | 1110 | 57.5 | 1148 | 50.4 | 1186 | 42.0 |
| 1073 | 53.2 | 1111 | 57.6 | 1149 | 50.6 | 1187 | 43.1 |
| 1074 | 53.7 | 1112 | 57.7 | 1150 | 50.4 | 1188 | 43.6 |
| 1075 | 54.3 | 1113 | 58.1 | 1151 | 50.0 | 1189 | 43.9 |
| 1076 | 54.4 | 1114 | 58.1 | 1152 | 49.8 | 1190 | 44.6 |
| 1077 | 54.9 | 1115 | 58.6 | 1153 | 49.7 | 1191 | 45.5 |
| 1078 | 55.3 | 1116 | 58.5 | 1154 | 48.4 | 1192 | 45.4 |
| 1079 | 55.8 | 1117 | 58.7 | 1155 | 47.0 | 1193 | 47.1 |
| 1080 | 56.0 | 1118 | 58.8 | 1156 | 44.4 | 1194 | 47.9 |
| 1081 | 56.5 | 1119 | 59.0 | 1157 | 42.2 | 1195 | 48.8 |
| 1082 | 56.2 | 1120 | 59.4 | 1158 | 38.2 | 1196 | 49.1 |
| 1083 | 56.2 | 1121 | 59.2 | 1159 | 33.8 | 1197 | 49.1 |
| 1084 | 56.4 | 1122 | 59.3 | 1160 | 29.8 | 1198 | 49.2 |
| 1085 | 56.5 | 1123 | 59.2 | 1161 | 26.3 | 1199 | 49.7 |
| 1086 | 56.4 | 1124 | 59.3 | 1162 | 22.6 | 1200 | 50.3 |
| 1087 | 56.3 | 1125 | 59.4 | 1163 | 18.8 | 1201 | 50.3 |
| 1088 | 56.2 | 1126 | 59.2 | 1164 | 18.3 | 1202 | 50.3 |
| 1089 | 56.4 | 1127 | 59.2 | 1165 | 18.1 | 1203 | 50.7 |
| 1090 | 56.3 | 1128 | 59.3 | 1166 | 17.8 | 1204 | 51.1 |
| 1091 | 56.0 | 1129 | 59.1 | 1167 | 18.5 | 1205 | 51.4 |
| 1092 | 56.0 | 1130 | 58.9 | 1168 | 19.7 | 1206 | 51.6 |
| 1093 | 55.9 | 1131 | 58.7 | 1169 | 21.2 | 1207 | 51.9 |
| 1094 | 55.9 | 1132 | 58.5 | 1170 | 23.8 | 1208 | 52.1 |
| 1095 | 56.1 | 1133 | 58.3 | 1171 | 24.8 | 1209 | 52.8 |
| 1096 | 56.2 | 1134 | 57.9 | 1172 | 26.3 | 1210 | 53.0 |
| 1097 | 56.3 | 1135 | 57.5 | 1173 | 27.7 | 1211 | 53.1 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1212 | 53.3 | 1250 | 63.2 | 1288 | 33.6 | 1326 | 0.0 |
| 1213 | 53.6 | 1251 | 62.8 | 1289 | 31.7 | 1327 | 0.0 |
| 1214 | 52.6 | 1252 | 61.1 | 1290 | 28.2 | 1328 | 0.0 |
| 1215 | 52.1 | 1253 | 59.6 | 1291 | 24.5 | 1329 | 0.0 |
| 1216 | 50.4 | 1254 | 59.2 | 1292 | 21.5 | 1330 | 0.0 |
| 1217 | 49.8 | 1255 | 58.5 | 1293 | 17.4 | 1331 | 1.4 |
| 1218 | 49.2 | 1256 | 57.7 | 1294 | 13.1 | 1332 | 3.6 |
| 1219 | 48.4 | 1257 | 55.5 | 1295 | 8.9 | 1333 | 5.6 |
| 1220 | 48.4 | 1258 | 54.5 | 1296 | 6.3 | 1334 | 7.9 |
| 1221 | 48.2 | 1259 | 54.5 | 1297 | 4.1 | 1335 | 10.7 |
| 1222 | 47.8 | 1260 | 53.0 | 1298 | 2.7 | 1336 | 12.7 |
| 1223 | 48.5 | 1261 | 51.1 | 1299 | 0.0 | 1337 | 11.3 |
| 1224 | 48.8 | 1262 | 49.3 | 1300 | 0.0 | 1338 | 12.9 |
| 1225 | 50.2 | 1263 | 48.0 | 1301 | 0.0 | 1339 | 15.0 |
| 1226 | 51.1 | 1264 | 47.2 | 1302 | 0.0 | 1340 | 17.4 |
| 1227 | 51.9 | 1265 | 46.5 | 1303 | 0.0 | 1341 | 19.9 |
| 1228 | 52.6 | 1266 | 45.8 | 1304 | 0.0 | 1342 | 23.4 |
| 1229 | 54.5 | 1267 | 45.8 | 1305 | 0.0 | 1343 | 25.8 |
| 1230 | 55.8 | 1268 | 45.7 | 1306 | 0.0 | 1344 | 25.4 |
| 1231 | 56.6 | 1269 | 45.1 | 1307 | 0.0 | 1345 | 26.5 |
| 1232 | 57.6 | 1270 | 44.6 | 1308 | 0.0 | 1346 | 27.9 |
| 1233 | 58.4 | 1271 | 45.2 | 1309 | 0.0 | 1347 | 29.0 |
| 1234 | 59.0 | 1272 | 45.3 | 1310 | 0.0 | 1348 | 30.7 |
| 1235 | 59.7 | 1273 | 45.3 | 1311 | 0.0 | 1349 | 35.1 |
| 1236 | 61.0 | 1274 | 45.7 | 1312 | 0.0 | 1350 | 36.8 |
| 1237 | 61.8 | 1275 | 45.8 | 1313 | 0.0 | 1351 | 38.8 |
| 1238 | 62.3 | 1276 | 45.9 | 1314 | 0.0 | 1352 | 39.4 |
| 1239 | 62.9 | 1277 | 46.1 | 1315 | 0.0 | 1353 | 38.4 |
| 1240 | 63.0 | 1278 | 45.6 | 1316 | 0.0 | 1354 | 38.4 |
| 1241 | 63.1 | 1279 | 45.1 | 1317 | 0.0 | 1355 | 38.8 |
| 1242 | 63.0 | 1280 | 44.8 | 1318 | 0.0 | 1356 | 39.1 |
| 1243 | 62.9 | 1281 | 44.6 | 1319 | 0.0 | 1357 | 39.9 |
| 1244 | 62.8 | 1282 | 44.1 | 1320 | 0.0 | 1358 | 40.3 |
| 1245 | 63.4 | 1283 | 43.8 | 1321 | 0.0 | 1359 | 40.3 |
| 1246 | 63.8 | 1284 | 42.1 | 1322 | 0.0 | 1360 | 41.5 |
| 1247 | 64.0 | 1285 | 41.1 | 1323 | 0.0 | 1361 | 42.5 |
| 1248 | 64.0 | 1286 | 37.5 | 1324 | 0.0 | 1362 | 43.5 |
| 1249 | 63.9 | 1287 | 34.7 | 1325 | 0.0 | 1363 | 45.1 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1364 | 45.5 | 1402 | 36.9 | 1440 | 73.0 | 1478 | 74.0 |
| 1365 | 45.6 | 1403 | 38.3 | 1441 | 73.1 | 1479 | 73.7 |
| 1366 | 45.4 | 1404 | 39.3 | 1442 | 74.8 | 1480 | 73.5 |
| 1367 | 45.2 | 1405 | 40.7 | 1443 | 75.5 | 1481 | 73.0 |
| 1368 | 45.0 | 1406 | 43.6 | 1444 | 77.0 | 1482 | 73.5 |
| 1369 | 44.8 | 1407 | 46.7 | 1445 | 77.9 | 1483 | 73.9 |
| 1370 | 43.3 | 1408 | 49.1 | 1446 | 78.9 | 1484 | 72.6 |
| 1371 | 42.7 | 1409 | 52.1 | 1447 | 80.0 | 1485 | 72.5 |
| 1372 | 40.3 | 1410 | 53.2 | 1448 | 80.7 | 1486 | 71.8 |
| 1373 | 39.5 | 1411 | 53.5 | 1449 | 81.6 | 1487 | 72.1 |
| 1374 | 38.6 | 1412 | 53.3 | 1450 | 81.9 | 1488 | 72.0 |
| 1375 | 36.4 | 1413 | 54.0 | 1451 | 81.9 | 1489 | 71.5 |
| 1376 | 37.9 | 1414 | 55.4 | 1452 | 83.3 | 1490 | 71.6 |
| 1377 | 38.8 | 1415 | 56.2 | 1453 | 83.4 | 1491 | 71.7 |
| 1378 | 39.3 | 1416 | 57.1 | 1454 | 83.7 | 1492 | 71.7 |
| 1379 | 39.7 | 1417 | 57.7 | 1455 | 84.3 | 1493 | 71.8 |
| 1380 | 40.0 | 1418 | 58.6 | 1456 | 84.6 | 1494 | 72.4 |
| 1381 | 39.7 | 1419 | 59.1 | 1457 | 84.9 | 1495 | 72.4 |
| 1382 | 37.4 | 1420 | 59.3 | 1458 | 84.8 | 1496 | 70.6 |
| 1383 | 36.4 | 1421 | 59.8 | 1459 | 84.7 | 1497 | 68.5 |
| 1384 | 35.9 | 1422 | 61.1 | 1460 | 84.2 | 1498 | 67.1 |
| 1385 | 32.7 | 1423 | 62.0 | 1461 | 83.3 | 1499 | 67.3 |
| 1386 | 30.6 | 1424 | 63.0 | 1462 | 81.4 | 1500 | 66.2 |
| 1387 | 30.2 | 1425 | 63.6 | 1463 | 82.2 | 1501 | 65.4 |
| 1388 | 30.9 | 1426 | 64.2 | 1464 | 81.4 | 1502 | 64.7 |
| 1389 | 30.6 | 1427 | 65.0 | 1465 | 80.8 | 1503 | 63.9 |
| 1390 | 30.6 | 1428 | 65.1 | 1466 | 80.0 | 1504 | 63.4 |
| 1391 | 31.0 | 1429 | 65.2 | 1467 | 79.4 | 1505 | 63.9 |
| 1392 | 33.0 | 1430 | 66.1 | 1468 | 79.0 | 1506 | 64.9 |
| 1393 | 32.6 | 1431 | 66.8 | 1469 | 78.3 | 1507 | 65.6 |
| 1394 | 31.8 | 1432 | 67.9 | 1470 | 78.4 | 1508 | 65.8 |
| 1395 | 31.5 | 1433 | 68.1 | 1471 | 77.7 | 1509 | 66.6 |
| 1396 | 31.5 | 1434 | 68.6 | 1472 | 77.2 | 1510 | 67.3 |
| 1397 | 32.3 | 1435 | 69.2 | 1473 | 76.0 | 1511 | 68.2 |
| 1398 | 32.0 | 1436 | 69.6 | 1474 | 75.8 | 1512 | 70.0 |
| 1399 | 33.8 | 1437 | 70.2 | 1475 | 75.1 | 1513 | 70.7 |
| 1400 | 34.2 | 1438 | 70.9 | 1476 | 74.6 | 1514 | 70.5 |
| 1401 | 35.7 | 1439 | 71.8 | 1477 | 74.5 | 1515 | 71.3 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1516 | 71.6 | 1554 | 84.3 | 1592 | 85.8 | 1630 | 81.8 |
| 1517 | 71.3 | 1555 | 85.5 | 1593 | 85.6 | 1631 | 81.9 |
| 1518 | 71.6 | 1556 | 86.0 | 1594 | 85.7 | 1632 | 81.4 |
| 1519 | 71.8 | 1557 | 85.7 | 1595 | 85.4 | 1633 | 80.8 |
| 1520 | 71.8 | 1558 | 85.2 | 1596 | 85.1 | 1634 | 80.8 |
| 1521 | 70.9 | 1559 | 84.9 | 1597 | 84.9 | 1635 | 80.5 |
| 1522 | 70.4 | 1560 | 84.6 | 1598 | 84.3 | 1636 | 79.3 |
| 1523 | 70.6 | 1561 | 84.8 | 1599 | 84.6 | 1637 | 79.9 |
| 1524 | 70.8 | 1562 | 85.0 | 1600 | 84.2 | 1638 | 79.7 |
| 1525 | 71.3 | 1563 | 85.8 | 1601 | 84.4 | 1639 | 79.7 |
| 1526 | 71.8 | 1564 | 86.0 | 1602 | 84.4 | 1640 | 79.3 |
| 1527 | 72.6 | 1565 | 86.0 | 1603 | 84.4 | 1641 | 79.5 |
| 1528 | 73.2 | 1566 | 86.4 | 1604 | 84.3 | 1642 | 80.0 |
| 1529 | 74.3 | 1567 | 87.0 | 1605 | 84.6 | 1643 | 79.9 |
| 1530 | 75.2 | 1568 | 87.6 | 1606 | 85.1 | 1644 | 79.8 |
| 1531 | 75.4 | 1569 | 88.0 | 1607 | 85.1 | 1645 | 79.9 |
| 1532 | 75.2 | 1570 | 88.1 | 1608 | 84.9 | 1646 | 79.8 |
| 1533 | 75.1 | 1571 | 88.4 | 1609 | 85.2 | 1647 | 79.2 |
| 1534 | 75.5 | 1572 | 88.5 | 1610 | 85.8 | 1648 | 79.4 |
| 1535 | 76.2 | 1573 | 88.3 | 1611 | 86.2 | 1649 | 78.7 |
| 1536 | 77.0 | 1574 | 87.6 | 1612 | 86.7 | 1650 | 78.5 |
| 1537 | 78.1 | 1575 | 86.0 | 1613 | 86.4 | 1651 | 77.7 |
| 1538 | 78.2 | 1576 | 85.9 | 1614 | 86.6 | 1652 | 78.1 |
| 1539 | 76.9 | 1577 | 86.1 | 1615 | 86.5 | 1653 | 77.9 |
| 1540 | 77.2 | 1578 | 86.4 | 1616 | 86.4 | 1654 | 78.8 |
| 1541 | 77.8 | 1579 | 87.1 | 1617 | 86.5 | 1655 | 77.9 |
| 1542 | 78.4 | 1580 | 86.6 | 1618 | 86.7 | 1656 | 77.3 |
| 1543 | 78.9 | 1581 | 86.3 | 1619 | 86.2 | 1657 | 77.0 |
| 1544 | 78.9 | 1582 | 86.5 | 1620 | 85.2 | 1658 | 77.1 |
| 1545 | 79.3 | 1583 | 86.7 | 1621 | 84.7 | 1659 | 77.0 |
| 1546 | 79.2 | 1584 | 85.8 | 1622 | 84.7 | 1660 | 75.8 |
| 1547 | 80.6 | 1585 | 85.3 | 1623 | 84.3 | 1661 | 75.0 |
| 1548 | 80.8 | 1586 | 85.2 | 1624 | 84.1 | 1662 | 74.7 |
| 1549 | 81.6 | 1587 | 85.2 | 1625 | 84.1 | 1663 | 74.4 |
| 1550 | 82.0 | 1588 | 85.0 | 1626 | 82.7 | 1664 | 74.8 |
| 1551 | 82.2 | 1589 | 85.2 | 1627 | 82.7 | 1665 | 75.1 |
| 1552 | 83.4 | 1590 | 85.4 | 1628 | 82.2 | 1666 | 75.5 |
| 1553 | 83.7 | 1591 | 85.7 | 1629 | 82.0 | 1667 | 75.4 |

表A.6　CHTC-HT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1668 | 75.1 | 1702 | 74.5 | 1736 | 83.7 | 1770 | 11.7 |
| 1669 | 74.7 | 1703 | 74.6 | 1737 | 83.6 | 1771 | 7.3 |
| 1670 | 74.5 | 1704 | 74.7 | 1738 | 83.6 | 1772 | 5.6 |
| 1671 | 71.2 | 1705 | 75.2 | 1739 | 83.6 | 1773 | 4.3 |
| 1672 | 71.0 | 1706 | 75.3 | 1740 | 83.3 | 1774 | 2.2 |
| 1673 | 71.0 | 1707 | 75.2 | 1741 | 83.4 | 1775 | 0.8 |
| 1674 | 71.1 | 1708 | 75.4 | 1742 | 83.5 | 1776 | 0.0 |
| 1675 | 70.6 | 1709 | 75.9 | 1743 | 83.7 | 1777 | 0.0 |
| 1676 | 70.2 | 1710 | 76.5 | 1744 | 84.1 | 1778 | 0.0 |
| 1677 | 69.5 | 1711 | 76.3 | 1745 | 83.3 | 1779 | 0.0 |
| 1678 | 69.0 | 1712 | 76.0 | 1746 | 80.5 | 1780 | 0.0 |
| 1679 | 69.4 | 1713 | 76.2 | 1747 | 76.5 | 1781 | 0.0 |
| 1680 | 69.9 | 1714 | 76.9 | 1748 | 73.1 | 1782 | 0.0 |
| 1681 | 70.6 | 1715 | 78.2 | 1749 | 68.8 | 1783 | 0.0 |
| 1682 | 71.9 | 1716 | 78.3 | 1750 | 65.2 | 1784 | 0.0 |
| 1683 | 72.8 | 1717 | 79.1 | 1751 | 62.3 | 1785 | 0.0 |
| 1684 | 73.5 | 1718 | 80.4 | 1752 | 58.4 | 1786 | 0.0 |
| 1685 | 73.7 | 1719 | 81.8 | 1753 | 54.9 | 1787 | 0.0 |
| 1686 | 74.1 | 1720 | 81.9 | 1754 | 52.2 | 1788 | 0.0 |
| 1687 | 74.4 | 1721 | 82.4 | 1755 | 49.1 | 1789 | 0.0 |
| 1688 | 73.7 | 1722 | 82.7 | 1756 | 46.0 | 1790 | 0.0 |
| 1689 | 72.6 | 1723 | 83.5 | 1757 | 42.0 | 1791 | 0.0 |
| 1690 | 72.7 | 1724 | 83.7 | 1758 | 39.5 | 1792 | 0.0 |
| 1691 | 73.1 | 1725 | 83.7 | 1759 | 38.7 | 1793 | 0.0 |
| 1692 | 74.1 | 1726 | 83.5 | 1760 | 37.1 | 1794 | 0.0 |
| 1693 | 74.9 | 1727 | 84.2 | 1761 | 35.4 | 1795 | 0.0 |
| 1694 | 74.5 | 1728 | 84.0 | 1762 | 33.7 | 1796 | 0.0 |
| 1695 | 74.4 | 1729 | 83.8 | 1763 | 33.1 | 1797 | 0.0 |
| 1696 | 74.4 | 1730 | 84.2 | 1764 | 28.8 | 1798 | 0.0 |
| 1697 | 74.5 | 1731 | 84.1 | 1765 | 26.4 | 1799 | 0.0 |
| 1698 | 74.4 | 1732 | 83.7 | 1766 | 22.1 | 1800 | 0.0 |
| 1699 | 74.8 | 1733 | 83.9 | 1767 | 20.2 |  |  |
| 1700 | 75.1 | 1734 | 83.7 | 1768 | 16.7 |  |  |
| 1701 | 74.6 | 1735 | 83.1 | 1769 | 13.5 |  |  |

* 1. CHTC-D工况数据见表A.7

表A.7　CHTC-D工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 37 | 1.0 | 74 | 6.6 | 111 | 10.8 |
| 1 | 0.0 | 38 | 1.2 | 75 | 5.9 | 112 | 13.2 |
| 2 | 0.0 | 39 | 3.1 | 76 | 6.6 | 113 | 14.8 |
| 3 | 0.0 | 40 | 3.9 | 77 | 6.7 | 114 | 16.6 |
| 4 | 0.0 | 41 | 4.3 | 78 | 7.3 | 115 | 17.3 |
| 5 | 0.0 | 42 | 4.5 | 79 | 8.1 | 116 | 18.8 |
| 6 | 0.0 | 43 | 5.2 | 80 | 7.8 | 117 | 19.4 |
| 7 | 0.0 | 44 | 5.2 | 81 | 7.8 | 118 | 20.8 |
| 8 | 0.0 | 45 | 5.9 | 82 | 6.5 | 119 | 21.9 |
| 9 | 0.0 | 46 | 6.0 | 83 | 5.6 | 120 | 23.7 |
| 10 | 0.0 | 47 | 6.2 | 84 | 1.6 | 121 | 22.9 |
| 11 | 0.0 | 48 | 6.6 | 85 | 0.0 | 122 | 23.3 |
| 12 | 0.0 | 49 | 7.0 | 86 | 0.0 | 123 | 23.6 |
| 13 | 0.0 | 50 | 7.0 | 87 | 0.0 | 124 | 23.3 |
| 14 | 0.0 | 51 | 6.3 | 88 | 0.0 | 125 | 22.2 |
| 15 | 0.0 | 52 | 7.0 | 89 | 0.0 | 126 | 22.0 |
| 16 | 3.4 | 53 | 6.5 | 90 | 0.0 | 127 | 22.5 |
| 17 | 4.7 | 54 | 5.1 | 91 | 0.0 | 128 | 23.2 |
| 18 | 6.2 | 55 | 4.1 | 92 | 0.0 | 129 | 21.2 |
| 19 | 8.4 | 56 | 4.1 | 93 | 0.0 | 130 | 19.5 |
| 20 | 7.0 | 57 | 4.5 | 94 | 0.0 | 131 | 19.7 |
| 21 | 6.7 | 58 | 4.9 | 95 | 0.0 | 132 | 20.6 |
| 22 | 6.2 | 59 | 5.8 | 96 | 0.0 | 133 | 20.8 |
| 23 | 6.1 | 60 | 7.3 | 97 | 0.0 | 134 | 20.2 |
| 24 | 5.7 | 61 | 7.4 | 98 | 0.0 | 135 | 18.2 |
| 25 | 5.1 | 62 | 7.5 | 99 | 0.0 | 136 | 17.0 |
| 26 | 5.4 | 63 | 6.1 | 100 | 0.0 | 137 | 15.9 |
| 27 | 5.2 | 64 | 6.1 | 101 | 0.0 | 138 | 14.5 |
| 28 | 4.6 | 65 | 5.8 | 102 | 0.0 | 139 | 10.2 |
| 29 | 3.0 | 66 | 5.6 | 103 | 0.0 | 140 | 8.3 |
| 30 | 1.6 | 67 | 5.8 | 104 | 0.0 | 141 | 8.0 |
| 31 | 0.0 | 68 | 5.6 | 105 | 0.0 | 142 | 9.1 |
| 32 | 0.0 | 69 | 5.5 | 106 | 3.2 | 143 | 10.2 |
| 33 | 0.0 | 70 | 5.2 | 107 | 5.2 | 144 | 10.8 |
| 34 | 0.0 | 71 | 5.6 | 108 | 8.6 | 145 | 12.2 |
| 35 | 0.0 | 72 | 5.7 | 109 | 9.3 | 146 | 12.9 |
| 36 | 0.9 | 73 | 6.6 | 110 | 9.5 | 147 | 12.6 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 148 | 13.6 | 186 | 0.0 | 224 | 0.0 | 262 | 15.3 |
| 149 | 13.4 | 187 | 0.0 | 225 | 0.0 | 263 | 15.5 |
| 150 | 13.9 | 188 | 0.0 | 226 | 0.0 | 264 | 15.3 |
| 151 | 12.2 | 189 | 0.0 | 227 | 0.0 | 265 | 14.4 |
| 152 | 12.0 | 190 | 0.0 | 228 | 0.0 | 266 | 13.4 |
| 153 | 11.8 | 191 | 0.0 | 229 | 0.0 | 267 | 13.7 |
| 154 | 11.3 | 192 | 0.0 | 230 | 0.0 | 268 | 13.0 |
| 155 | 10.1 | 193 | 0.0 | 231 | 0.0 | 269 | 12.7 |
| 156 | 10.0 | 194 | 0.0 | 232 | 0.0 | 270 | 12.6 |
| 157 | 8.5 | 195 | 0.0 | 233 | 1.1 | 271 | 12.6 |
| 158 | 8.9 | 196 | 0.0 | 234 | 4.6 | 272 | 12.6 |
| 159 | 7.7 | 197 | 0.0 | 235 | 3.9 | 273 | 11.7 |
| 160 | 6.6 | 198 | 0.0 | 236 | 5.4 | 274 | 11.2 |
| 161 | 6.3 | 199 | 0.0 | 237 | 5.5 | 275 | 10.9 |
| 162 | 6.9 | 200 | 0.0 | 238 | 6.5 | 276 | 11.5 |
| 163 | 5.7 | 201 | 0.0 | 239 | 7.5 | 277 | 12.4 |
| 164 | 5.7 | 202 | 0.0 | 240 | 7.2 | 278 | 12.3 |
| 165 | 5.8 | 203 | 0.0 | 241 | 7.3 | 279 | 12.4 |
| 166 | 5.8 | 204 | 0.0 | 242 | 7.5 | 280 | 13.2 |
| 167 | 5.4 | 205 | 0.0 | 243 | 6.6 | 281 | 14.0 |
| 168 | 5.4 | 206 | 0.0 | 244 | 6.8 | 282 | 14.2 |
| 169 | 5.9 | 207 | 0.0 | 245 | 7.2 | 283 | 14.2 |
| 170 | 5.1 | 208 | 0.0 | 246 | 7.2 | 284 | 14.7 |
| 171 | 4.3 | 209 | 0.0 | 247 | 8.8 | 285 | 13.9 |
| 172 | 3.9 | 210 | 0.0 | 248 | 8.1 | 286 | 14.2 |
| 173 | 2.7 | 211 | 0.0 | 249 | 6.5 | 287 | 14.3 |
| 174 | 1.4 | 212 | 0.0 | 250 | 5.3 | 288 | 13.6 |
| 175 | 0.9 | 213 | 0.0 | 251 | 4.1 | 289 | 15.2 |
| 176 | 0.9 | 214 | 0.0 | 252 | 6.2 | 290 | 15.1 |
| 177 | 0.7 | 215 | 0.0 | 253 | 8.2 | 291 | 14.7 |
| 178 | 0.5 | 216 | 0.0 | 254 | 7.9 | 292 | 14.2 |
| 179 | 0.8 | 217 | 0.0 | 255 | 9.4 | 293 | 14.7 |
| 180 | 0.6 | 218 | 0.0 | 256 | 8.9 | 294 | 14.2 |
| 181 | 0.0 | 219 | 0.0 | 257 | 7.7 | 295 | 14.0 |
| 182 | 0.0 | 220 | 0.0 | 258 | 7.6 | 296 | 10.4 |
| 183 | 0.0 | 221 | 0.0 | 259 | 8.8 | 297 | 11.4 |
| 184 | 0.0 | 222 | 0.0 | 260 | 11.2 | 298 | 10.5 |
| 185 | 0.0 | 223 | 0.0 | 261 | 14.0 | 299 | 7.4 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 300 | 3.6 | 338 | 0.0 | 376 | 10.9 | 414 | 20.5 |
| 301 | 1.6 | 339 | 0.0 | 377 | 9.2 | 415 | 21.0 |
| 302 | 0.0 | 340 | 0.0 | 378 | 10.1 | 416 | 18.1 |
| 303 | 0.0 | 341 | 0.0 | 379 | 10.6 | 417 | 17.9 |
| 304 | 0.0 | 342 | 0.0 | 380 | 13.3 | 418 | 17.9 |
| 305 | 0.0 | 343 | 0.0 | 381 | 15.2 | 419 | 17.8 |
| 306 | 0.0 | 344 | 0.0 | 382 | 18.5 | 420 | 18.1 |
| 307 | 0.0 | 345 | 0.0 | 383 | 19.5 | 421 | 18.1 |
| 308 | 0.0 | 346 | 0.0 | 384 | 20.1 | 422 | 18.8 |
| 309 | 0.0 | 347 | 0.0 | 385 | 18.5 | 423 | 20.9 |
| 310 | 0.0 | 348 | 0.0 | 386 | 18.9 | 424 | 22.8 |
| 311 | 0.0 | 349 | 0.0 | 387 | 19.6 | 425 | 21.8 |
| 312 | 0.0 | 350 | 0.0 | 388 | 18.8 | 426 | 22.0 |
| 313 | 0.0 | 351 | 0.0 | 389 | 17.6 | 427 | 21.6 |
| 314 | 0.0 | 352 | 0.0 | 390 | 16.9 | 428 | 20.9 |
| 315 | 0.0 | 353 | 0.0 | 391 | 16.4 | 429 | 18.0 |
| 316 | 0.0 | 354 | 0.0 | 392 | 16.1 | 430 | 16.5 |
| 317 | 0.0 | 355 | 0.0 | 393 | 16.4 | 431 | 16.6 |
| 318 | 0.0 | 356 | 0.0 | 394 | 15.2 | 432 | 14.9 |
| 319 | 0.0 | 357 | 0.0 | 395 | 15.8 | 433 | 15.1 |
| 320 | 0.0 | 358 | 0.0 | 396 | 16.4 | 434 | 15.6 |
| 321 | 0.0 | 359 | 0.0 | 397 | 18.2 | 435 | 15.5 |
| 322 | 0.0 | 360 | 0.0 | 398 | 18.2 | 436 | 14.8 |
| 323 | 0.0 | 361 | 0.0 | 399 | 17.1 | 437 | 14.4 |
| 324 | 0.0 | 362 | 0.0 | 400 | 16.9 | 438 | 15.2 |
| 325 | 0.0 | 363 | 0.0 | 401 | 17.6 | 439 | 14.6 |
| 326 | 0.0 | 364 | 0.0 | 402 | 17.2 | 440 | 15.6 |
| 327 | 0.0 | 365 | 0.8 | 403 | 17.1 | 441 | 15.6 |
| 328 | 0.0 | 366 | 2.3 | 404 | 15.8 | 442 | 15.7 |
| 329 | 0.0 | 367 | 3.2 | 405 | 15.9 | 443 | 16.1 |
| 330 | 0.0 | 368 | 5.7 | 406 | 16.0 | 444 | 16.0 |
| 331 | 0.0 | 369 | 6.6 | 407 | 16.1 | 445 | 15.5 |
| 332 | 0.0 | 370 | 10.1 | 408 | 18.0 | 446 | 14.2 |
| 333 | 0.0 | 371 | 11.3 | 409 | 18.6 | 447 | 14.5 |
| 334 | 0.0 | 372 | 12.3 | 410 | 19.2 | 448 | 15.8 |
| 335 | 0.0 | 373 | 13.1 | 411 | 19.3 | 449 | 18.5 |
| 336 | 0.0 | 374 | 12.9 | 412 | 20.5 | 450 | 20.0 |
| 337 | 0.0 | 375 | 11.3 | 413 | 20.7 | 451 | 19.4 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 452 | 18.1 | 490 | 0.0 | 528 | 0.0 | 566 | 32.8 |
| 453 | 15.4 | 491 | 0.0 | 529 | 0.0 | 567 | 33.7 |
| 454 | 13.7 | 492 | 0.0 | 530 | 0.0 | 568 | 34.9 |
| 455 | 11.1 | 493 | 0.0 | 531 | 0.0 | 569 | 36.9 |
| 456 | 12.5 | 494 | 0.0 | 532 | 0.0 | 570 | 37.3 |
| 457 | 12.4 | 495 | 0.0 | 533 | 0.0 | 571 | 37.2 |
| 458 | 11.7 | 496 | 0.0 | 534 | 0.0 | 572 | 38.3 |
| 459 | 10.8 | 497 | 0.0 | 535 | 0.0 | 573 | 38.6 |
| 460 | 9.5 | 498 | 0.0 | 536 | 0.0 | 574 | 39.1 |
| 461 | 9.1 | 499 | 0.0 | 537 | 0.0 | 575 | 39.4 |
| 462 | 8.9 | 500 | 0.0 | 538 | 0.0 | 576 | 40.0 |
| 463 | 9.6 | 501 | 0.0 | 539 | 0.0 | 577 | 41.6 |
| 464 | 12.4 | 502 | 0.0 | 540 | 0.0 | 578 | 42.2 |
| 465 | 7.8 | 503 | 0.0 | 541 | 0.8 | 579 | 42.6 |
| 466 | 4.6 | 504 | 0.0 | 542 | 3.1 | 580 | 43.2 |
| 467 | 1.9 | 505 | 0.0 | 543 | 5.7 | 581 | 45.0 |
| 468 | 0.7 | 506 | 0.0 | 544 | 7.9 | 582 | 46.0 |
| 469 | 0.6 | 507 | 0.0 | 545 | 6.9 | 583 | 47.9 |
| 470 | 0.0 | 508 | 0.0 | 546 | 9.4 | 584 | 51.2 |
| 471 | 0.0 | 509 | 0.0 | 547 | 10.9 | 585 | 51.8 |
| 472 | 0.0 | 510 | 0.0 | 548 | 14.3 | 586 | 51.9 |
| 473 | 0.0 | 511 | 0.0 | 549 | 15.5 | 587 | 51.9 |
| 474 | 0.0 | 512 | 0.0 | 550 | 16.8 | 588 | 51.7 |
| 475 | 0.0 | 513 | 0.0 | 551 | 18.4 | 589 | 51.7 |
| 476 | 0.0 | 514 | 0.0 | 552 | 18.5 | 590 | 51.1 |
| 477 | 0.0 | 515 | 0.0 | 553 | 19.7 | 591 | 49.6 |
| 478 | 0.0 | 516 | 0.0 | 554 | 20.9 | 592 | 48.7 |
| 479 | 0.0 | 517 | 0.0 | 555 | 24.6 | 593 | 48.4 |
| 480 | 0.0 | 518 | 0.0 | 556 | 25.0 | 594 | 48.4 |
| 481 | 0.0 | 519 | 0.0 | 557 | 24.9 | 595 | 48.7 |
| 482 | 0.0 | 520 | 0.0 | 558 | 25.6 | 596 | 49.1 |
| 483 | 0.0 | 521 | 0.0 | 559 | 26.4 | 597 | 49.5 |
| 484 | 0.0 | 522 | 0.0 | 560 | 27.5 | 598 | 50.4 |
| 485 | 0.0 | 523 | 0.0 | 561 | 29.0 | 599 | 50.8 |
| 486 | 0.0 | 524 | 0.0 | 562 | 29.9 | 600 | 51.0 |
| 487 | 0.0 | 525 | 0.0 | 563 | 30.4 | 601 | 51.7 |
| 488 | 0.0 | 526 | 0.0 | 564 | 31.0 | 602 | 52.1 |
| 489 | 0.0 | 527 | 0.0 | 565 | 31.9 | 603 | 52.7 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 604 | 53.2 | 642 | 13.1 | 680 | 15.8 | 718 | 28.1 |
| 605 | 54.4 | 643 | 13.7 | 681 | 17.6 | 719 | 31.3 |
| 606 | 55.0 | 644 | 13.0 | 682 | 20.7 | 720 | 31.4 |
| 607 | 55.4 | 645 | 13.7 | 683 | 23.7 | 721 | 31.5 |
| 608 | 55.0 | 646 | 13.4 | 684 | 25.1 | 722 | 29.8 |
| 609 | 53.8 | 647 | 13.1 | 685 | 28.1 | 723 | 28.8 |
| 610 | 50.9 | 648 | 11.7 | 686 | 28.7 | 724 | 27.7 |
| 611 | 47.9 | 649 | 11.8 | 687 | 29.3 | 725 | 27.9 |
| 612 | 45.1 | 650 | 12.0 | 688 | 30.5 | 726 | 28.3 |
| 613 | 42.7 | 651 | 12.5 | 689 | 29.4 | 727 | 28.5 |
| 614 | 39.1 | 652 | 13.9 | 690 | 27.4 | 728 | 30.4 |
| 615 | 38.0 | 653 | 15.0 | 691 | 27.6 | 729 | 27.0 |
| 616 | 36.2 | 654 | 16.0 | 692 | 27.6 | 730 | 26.6 |
| 617 | 33.5 | 655 | 16.9 | 693 | 24.2 | 731 | 25.9 |
| 618 | 30.6 | 656 | 15.5 | 694 | 27.8 | 732 | 25.5 |
| 619 | 27.3 | 657 | 15.0 | 695 | 29.9 | 733 | 24.9 |
| 620 | 24.0 | 658 | 16.1 | 696 | 27.6 | 734 | 24.7 |
| 621 | 21.6 | 659 | 17.5 | 697 | 27.7 | 735 | 24.3 |
| 622 | 18.4 | 660 | 18.0 | 698 | 30.7 | 736 | 25.7 |
| 623 | 15.3 | 661 | 18.0 | 699 | 28.1 | 737 | 27.1 |
| 624 | 13.6 | 662 | 17.6 | 700 | 27.0 | 738 | 26.7 |
| 625 | 10.9 | 663 | 18.6 | 701 | 26.5 | 739 | 26.7 |
| 626 | 7.1 | 664 | 20.3 | 702 | 27.9 | 740 | 27.0 |
| 627 | 4.2 | 665 | 23.4 | 703 | 23.7 | 741 | 27.8 |
| 628 | 1.7 | 666 | 24.9 | 704 | 21.7 | 742 | 27.1 |
| 629 | 0.0 | 667 | 25.5 | 705 | 18.3 | 743 | 27.0 |
| 630 | 0.0 | 668 | 24.7 | 706 | 18.0 | 744 | 27.0 |
| 631 | 0.0 | 669 | 24.9 | 707 | 17.6 | 745 | 24.4 |
| 632 | 0.0 | 670 | 24.9 | 708 | 18.3 | 746 | 20.5 |
| 633 | 0.0 | 671 | 25.8 | 709 | 17.9 | 747 | 19.8 |
| 634 | 0.0 | 672 | 25.1 | 710 | 18.9 | 748 | 16.9 |
| 635 | 4.1 | 673 | 22.4 | 711 | 19.5 | 749 | 15.2 |
| 636 | 8.0 | 674 | 19.4 | 712 | 20.2 | 750 | 11.8 |
| 637 | 9.4 | 675 | 16.3 | 713 | 20.8 | 751 | 8.4 |
| 638 | 9.1 | 676 | 15.3 | 714 | 21.2 | 752 | 6.4 |
| 639 | 9.4 | 677 | 16.3 | 715 | 21.3 | 753 | 3.9 |
| 640 | 11.8 | 678 | 16.5 | 716 | 21.8 | 754 | 4.7 |
| 641 | 14.0 | 679 | 16.7 | 717 | 23.7 | 755 | 3.7 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 756 | 3.7 | 794 | 24.0 | 832 | 40.2 | 870 | 46.3 |
| 757 | 3.5 | 795 | 24.6 | 833 | 40.0 | 871 | 46.1 |
| 758 | 3.3 | 796 | 25.9 | 834 | 39.8 | 872 | 46.6 |
| 759 | 4.0 | 797 | 26.6 | 835 | 39.3 | 873 | 46.4 |
| 760 | 5.8 | 798 | 26.4 | 836 | 39.9 | 874 | 46.7 |
| 761 | 7.0 | 799 | 24.3 | 837 | 39.9 | 875 | 46.6 |
| 762 | 7.9 | 800 | 26.4 | 838 | 40.0 | 876 | 47.8 |
| 763 | 8.0 | 801 | 25.8 | 839 | 39.9 | 877 | 48.5 |
| 764 | 4.8 | 802 | 26.1 | 840 | 40.1 | 878 | 48.7 |
| 765 | 0.6 | 803 | 26.0 | 841 | 40.1 | 879 | 49.3 |
| 766 | 0.0 | 804 | 25.4 | 842 | 40.0 | 880 | 50.3 |
| 767 | 0.0 | 805 | 21.3 | 843 | 40.1 | 881 | 50.4 |
| 768 | 0.0 | 806 | 22.7 | 844 | 39.8 | 882 | 49.4 |
| 769 | 0.0 | 807 | 22.5 | 845 | 39.6 | 883 | 49.7 |
| 770 | 0.0 | 808 | 21.8 | 846 | 38.8 | 884 | 49.6 |
| 771 | 0.0 | 809 | 19.7 | 847 | 38.6 | 885 | 50.3 |
| 772 | 0.0 | 810 | 19.3 | 848 | 36.8 | 886 | 50.8 |
| 773 | 0.0 | 811 | 20.9 | 849 | 35.2 | 887 | 51.8 |
| 774 | 0.8 | 812 | 20.9 | 850 | 34.0 | 888 | 51.9 |
| 775 | 2.3 | 813 | 21.2 | 851 | 34.5 | 889 | 52.3 |
| 776 | 5.8 | 814 | 22.1 | 852 | 34.8 | 890 | 52.5 |
| 777 | 7.3 | 815 | 22.6 | 853 | 36.0 | 891 | 53.2 |
| 778 | 9.7 | 816 | 24.1 | 854 | 36.9 | 892 | 54.7 |
| 779 | 10.5 | 817 | 25.0 | 855 | 33.5 | 893 | 54.8 |
| 780 | 12.0 | 818 | 27.6 | 856 | 33.5 | 894 | 55.5 |
| 781 | 13.8 | 819 | 28.4 | 857 | 34.4 | 895 | 55.5 |
| 782 | 18.0 | 820 | 29.9 | 858 | 35.1 | 896 | 55.4 |
| 783 | 19.7 | 821 | 30.6 | 859 | 35.9 | 897 | 54.3 |
| 784 | 19.2 | 822 | 32.2 | 860 | 36.3 | 898 | 54.2 |
| 785 | 20.5 | 823 | 33.1 | 861 | 37.2 | 899 | 53.1 |
| 786 | 21.9 | 824 | 33.5 | 862 | 38.4 | 900 | 52.3 |
| 787 | 23.2 | 825 | 34.1 | 863 | 40.1 | 901 | 52.0 |
| 788 | 25.2 | 826 | 34.7 | 864 | 40.8 | 902 | 52.9 |
| 789 | 25.5 | 827 | 35.4 | 865 | 41.9 | 903 | 53.6 |
| 790 | 25.2 | 828 | 35.9 | 866 | 42.7 | 904 | 53.8 |
| 791 | 24.8 | 829 | 37.1 | 867 | 43.1 | 905 | 54.1 |
| 792 | 24.2 | 830 | 38.0 | 868 | 43.9 | 906 | 54.4 |
| 793 | 24.0 | 831 | 38.5 | 869 | 45.3 | 907 | 55.1 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 908 | 55.3 | 946 | 48.0 | 984 | 16.8 | 1022 | 0.0 |
| 909 | 56.0 | 947 | 47.1 | 985 | 17.5 | 1023 | 1.8 |
| 910 | 56.4 | 948 | 46.1 | 986 | 18.0 | 1024 | 3.0 |
| 911 | 56.6 | 949 | 45.6 | 987 | 18.4 | 1025 | 3.8 |
| 912 | 56.5 | 950 | 45.0 | 988 | 20.1 | 1026 | 6.6 |
| 913 | 56.6 | 951 | 43.9 | 989 | 20.1 | 1027 | 9.4 |
| 914 | 57.3 | 952 | 43.3 | 990 | 20.6 | 1028 | 9.8 |
| 915 | 57.9 | 953 | 42.7 | 991 | 21.7 | 1029 | 10.8 |
| 916 | 57.7 | 954 | 42.0 | 992 | 23.6 | 1030 | 12.1 |
| 917 | 57.5 | 955 | 41.6 | 993 | 24.2 | 1031 | 13.9 |
| 918 | 56.8 | 956 | 40.3 | 994 | 24.8 | 1032 | 16.0 |
| 919 | 57.1 | 957 | 39.7 | 995 | 24.1 | 1033 | 19.9 |
| 920 | 57.0 | 958 | 39.3 | 996 | 22.1 | 1034 | 21.8 |
| 921 | 56.7 | 959 | 38.9 | 997 | 21.2 | 1035 | 22.3 |
| 922 | 55.1 | 960 | 38.0 | 998 | 17.7 | 1036 | 22.9 |
| 923 | 55.3 | 961 | 37.7 | 999 | 17.3 | 1037 | 25.6 |
| 924 | 54.8 | 962 | 36.6 | 1000 | 12.9 | 1038 | 27.4 |
| 925 | 54.5 | 963 | 36.1 | 1001 | 10.0 | 1039 | 29.2 |
| 926 | 54.6 | 964 | 35.6 | 1002 | 7.6 | 1040 | 27.6 |
| 927 | 54.0 | 965 | 35.2 | 1003 | 7.1 | 1041 | 32.0 |
| 928 | 53.9 | 966 | 34.6 | 1004 | 7.1 | 1042 | 33.3 |
| 929 | 53.1 | 967 | 34.6 | 1005 | 6.7 | 1043 | 31.5 |
| 930 | 53.1 | 968 | 34.2 | 1006 | 4.0 | 1044 | 34.6 |
| 931 | 53.0 | 969 | 33.4 | 1007 | 1.5 | 1045 | 36.3 |
| 932 | 53.0 | 970 | 33.4 | 1008 | 0.0 | 1046 | 37.2 |
| 933 | 54.0 | 971 | 32.1 | 1009 | 0.0 | 1047 | 38.3 |
| 934 | 52.8 | 972 | 31.7 | 1010 | 0.0 | 1048 | 39.3 |
| 935 | 52.4 | 973 | 31.5 | 1011 | 0.0 | 1049 | 41.8 |
| 936 | 52.4 | 974 | 31.1 | 1012 | 0.0 | 1050 | 43.1 |
| 937 | 52.5 | 975 | 30.5 | 1013 | 0.0 | 1051 | 44.0 |
| 938 | 52.7 | 976 | 30.2 | 1014 | 0.0 | 1052 | 45.3 |
| 939 | 52.0 | 977 | 30.0 | 1015 | 0.0 | 1053 | 45.6 |
| 940 | 51.7 | 978 | 28.4 | 1016 | 0.0 | 1054 | 45.3 |
| 941 | 51.5 | 979 | 27.4 | 1017 | 0.0 | 1055 | 46.4 |
| 942 | 50.5 | 980 | 25.6 | 1018 | 0.0 | 1056 | 47.1 |
| 943 | 50.0 | 981 | 24.0 | 1019 | 0.0 | 1057 | 47.7 |
| 944 | 49.6 | 982 | 21.5 | 1020 | 0.0 | 1058 | 48.2 |
| 945 | 49.1 | 983 | 19.2 | 1021 | 0.0 | 1059 | 48.7 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1060 | 48.6 | 1098 | 46.4 | 1136 | 45.7 | 1174 | 64.0 |
| 1061 | 48.9 | 1099 | 45.6 | 1137 | 45.4 | 1175 | 63.5 |
| 1062 | 50.0 | 1100 | 45.4 | 1138 | 48.3 | 1176 | 63.8 |
| 1063 | 50.1 | 1101 | 43.2 | 1139 | 48.2 | 1177 | 61.3 |
| 1064 | 49.7 | 1102 | 41.5 | 1140 | 47.2 | 1178 | 63.0 |
| 1065 | 50.7 | 1103 | 39.7 | 1141 | 48.5 | 1179 | 62.8 |
| 1066 | 51.3 | 1104 | 39.8 | 1142 | 50.2 | 1180 | 62.8 |
| 1067 | 50.2 | 1105 | 39.7 | 1143 | 51.8 | 1181 | 62.9 |
| 1068 | 50.6 | 1106 | 37.6 | 1144 | 51.1 | 1182 | 63.3 |
| 1069 | 49.4 | 1107 | 35.9 | 1145 | 50.8 | 1183 | 63.6 |
| 1070 | 47.1 | 1108 | 33.3 | 1146 | 52.2 | 1184 | 63.2 |
| 1071 | 48.0 | 1109 | 31.4 | 1147 | 50.4 | 1185 | 62.7 |
| 1072 | 52.2 | 1110 | 29.5 | 1148 | 49.4 | 1186 | 62.7 |
| 1073 | 56.1 | 1111 | 26.7 | 1149 | 50.7 | 1187 | 62.1 |
| 1074 | 56.3 | 1112 | 24.5 | 1150 | 52.7 | 1188 | 61.8 |
| 1075 | 54.4 | 1113 | 24.0 | 1151 | 54.8 | 1189 | 61.5 |
| 1076 | 57.2 | 1114 | 24.1 | 1152 | 55.6 | 1190 | 61.4 |
| 1077 | 57.2 | 1115 | 23.1 | 1153 | 58.5 | 1191 | 61.6 |
| 1078 | 57.7 | 1116 | 24.8 | 1154 | 60.3 | 1192 | 62.7 |
| 1079 | 57.6 | 1117 | 26.2 | 1155 | 59.1 | 1193 | 63.2 |
| 1080 | 57.6 | 1118 | 28.1 | 1156 | 60.1 | 1194 | 64.0 |
| 1081 | 57.4 | 1119 | 31.2 | 1157 | 59.9 | 1195 | 64.4 |
| 1082 | 57.1 | 1120 | 29.4 | 1158 | 59.8 | 1196 | 64.6 |
| 1083 | 58.6 | 1121 | 31.0 | 1159 | 60.6 | 1197 | 65.6 |
| 1084 | 59.8 | 1122 | 30.2 | 1160 | 60.4 | 1198 | 66.1 |
| 1085 | 58.1 | 1123 | 27.9 | 1161 | 61.4 | 1199 | 66.4 |
| 1086 | 59.0 | 1124 | 29.7 | 1162 | 60.8 | 1200 | 66.3 |
| 1087 | 58.9 | 1125 | 27.6 | 1163 | 61.1 | 1201 | 65.9 |
| 1088 | 59.0 | 1126 | 30.4 | 1164 | 61.6 | 1202 | 66.1 |
| 1089 | 58.3 | 1127 | 34.9 | 1165 | 61.8 | 1203 | 66.3 |
| 1090 | 57.6 | 1128 | 39.3 | 1166 | 61.4 | 1204 | 66.5 |
| 1091 | 57.6 | 1129 | 40.1 | 1167 | 61.3 | 1205 | 66.8 |
| 1092 | 56.6 | 1130 | 40.9 | 1168 | 63.1 | 1206 | 67.2 |
| 1093 | 55.1 | 1131 | 42.5 | 1169 | 63.6 | 1207 | 67.5 |
| 1094 | 53.4 | 1132 | 43.4 | 1170 | 63.8 | 1208 | 67.7 |
| 1095 | 51.3 | 1133 | 43.9 | 1171 | 64.2 | 1209 | 68.6 |
| 1096 | 47.6 | 1134 | 43.7 | 1172 | 65.5 | 1210 | 69.0 |
| 1097 | 46.0 | 1135 | 45.3 | 1173 | 65.3 | 1211 | 69.5 |

表A.7　CHTC-D工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1212 | 70.1 | 1235 | 65.2 | 1258 | 42.9 | 1281 | 1.9 |
| 1213 | 70.5 | 1236 | 64.7 | 1259 | 42.0 | 1282 | 0.7 |
| 1214 | 70.9 | 1237 | 63.3 | 1260 | 41.6 | 1283 | 0.5 |
| 1215 | 71.3 | 1238 | 62.2 | 1261 | 40.4 | 1284 | 0.0 |
| 1216 | 71.4 | 1239 | 61.8 | 1262 | 38.6 | 1285 | 0.0 |
| 1217 | 71.2 | 1240 | 58.8 | 1263 | 36.5 | 1286 | 0.0 |
| 1218 | 70.6 | 1241 | 57.6 | 1264 | 34.4 | 1287 | 0.0 |
| 1219 | 70.9 | 1242 | 57.2 | 1265 | 32.4 | 1288 | 0.0 |
| 1220 | 70.4 | 1243 | 55.1 | 1266 | 29.7 | 1289 | 0.0 |
| 1221 | 69.7 | 1244 | 54.7 | 1267 | 25.9 | 1290 | 0.0 |
| 1222 | 69.8 | 1245 | 53.1 | 1268 | 22.6 | 1291 | 0.0 |
| 1223 | 69.5 | 1246 | 52.6 | 1269 | 21.0 | 1292 | 0.0 |
| 1224 | 68.4 | 1247 | 50.6 | 1270 | 20.1 | 1293 | 0.0 |
| 1225 | 69.0 | 1248 | 50.3 | 1271 | 18.1 | 1294 | 0.0 |
| 1226 | 69.0 | 1249 | 50.3 | 1272 | 17.0 | 1295 | 0.0 |
| 1227 | 69.4 | 1250 | 50.1 | 1273 | 14.3 | 1296 | 0.0 |
| 1228 | 69.9 | 1251 | 50.2 | 1274 | 12.0 | 1297 | 0.0 |
| 1229 | 69.8 | 1252 | 50.1 | 1275 | 10.5 | 1298 | 0.0 |
| 1230 | 70.2 | 1253 | 49.5 | 1276 | 9.2 | 1299 | 0.0 |
| 1231 | 68.1 | 1254 | 48.5 | 1277 | 7.7 | 1300 | 0.0 |
| 1232 | 67.2 | 1255 | 47.9 | 1278 | 7.0 |  |  |
| 1233 | 66.7 | 1256 | 44.8 | 1279 | 5.6 |  |  |
| 1234 | 65.4 | 1257 | 43.7 | 1280 | 3.4 |  |  |

* 1. CHTC-TT工况数据见表A.8

表A.8　CHTC-TT工况数据

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 0 | 0.0 | 37 | 1.9 | 74 | 0.0 | 111 | 23.5 |
| 1 | 0.0 | 38 | 2.4 | 75 | 0.0 | 112 | 23.1 |
| 2 | 0.0 | 39 | 2.8 | 76 | 0.5 | 113 | 21.1 |
| 3 | 0.0 | 40 | 3.6 | 77 | 1.6 | 114 | 18.1 |
| 4 | 0.0 | 41 | 3.9 | 78 | 4.1 | 115 | 16.3 |
| 5 | 0.0 | 42 | 4.4 | 79 | 5.7 | 116 | 13.5 |
| 6 | 0.0 | 43 | 4.4 | 80 | 6.7 | 117 | 11.0 |
| 7 | 0.0 | 44 | 4.6 | 81 | 6.8 | 118 | 8.1 |
| 8 | 0.0 | 45 | 4.9 | 82 | 6.3 | 119 | 6.2 |
| 9 | 0.0 | 46 | 5.4 | 83 | 8.2 | 120 | 2.0 |
| 10 | 0.0 | 47 | 5.0 | 84 | 9.1 | 121 | 0.0 |
| 11 | 0.0 | 48 | 5.5 | 85 | 9.0 | 122 | 0.0 |
| 12 | 0.0 | 49 | 6.6 | 86 | 8.5 | 123 | 0.0 |
| 13 | 0.0 | 50 | 7.2 | 87 | 9.3 | 124 | 0.0 |
| 14 | 0.0 | 51 | 7.1 | 88 | 10.4 | 125 | 0.0 |
| 15 | 0.0 | 52 | 6.4 | 89 | 11.2 | 126 | 0.0 |
| 16 | 0.0 | 53 | 6.1 | 90 | 11.7 | 127 | 0.0 |
| 17 | 0.0 | 54 | 5.5 | 91 | 12.5 | 128 | 0.0 |
| 18 | 0.0 | 55 | 5.0 | 92 | 12.2 | 129 | 0.0 |
| 19 | 0.0 | 56 | 5.4 | 93 | 13.3 | 130 | 0.0 |
| 20 | 0.0 | 57 | 5.3 | 94 | 15.1 | 131 | 1.8 |
| 21 | 0.0 | 58 | 5.3 | 95 | 15.7 | 132 | 2.0 |
| 22 | 0.0 | 59 | 4.8 | 96 | 16.7 | 133 | 4.0 |
| 23 | 0.0 | 60 | 4.4 | 97 | 16.4 | 134 | 4.4 |
| 24 | 0.0 | 61 | 4.1 | 98 | 17.0 | 135 | 3.5 |
| 25 | 0.0 | 62 | 3.9 | 99 | 18.4 | 136 | 4.2 |
| 26 | 0.0 | 63 | 3.3 | 100 | 19.7 | 137 | 6.2 |
| 27 | 0.0 | 64 | 2.9 | 101 | 20.9 | 138 | 7.1 |
| 28 | 0.0 | 65 | 2.4 | 102 | 21.6 | 139 | 6.3 |
| 29 | 0.0 | 66 | 2.0 | 103 | 21.6 | 140 | 5.1 |
| 30 | 0.0 | 67 | 1.4 | 104 | 21.0 | 141 | 6.2 |
| 31 | 0.0 | 68 | 0.9 | 105 | 22.4 | 142 | 6.5 |
| 32 | 0.0 | 69 | 0.0 | 106 | 22.7 | 143 | 5.7 |
| 33 | 0.0 | 70 | 0.0 | 107 | 24.5 | 144 | 5.9 |
| 34 | 0.0 | 71 | 0.0 | 108 | 24.8 | 145 | 5.6 |
| 35 | 0.0 | 72 | 0.0 | 109 | 24.8 | 146 | 6.0 |
| 36 | 0.9 | 73 | 0.0 | 110 | 24.3 | 147 | 5.6 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 148 | 6.0 | 186 | 12.8 | 224 | 16.8 | 262 | 32.4 |
| 149 | 5.6 | 187 | 12.2 | 225 | 18.7 | 263 | 32.7 |
| 150 | 5.8 | 188 | 11.9 | 226 | 19.5 | 264 | 32.9 |
| 151 | 6.4 | 189 | 11.5 | 227 | 20.5 | 265 | 33.0 |
| 152 | 6.7 | 190 | 10.9 | 228 | 20.5 | 266 | 33.6 |
| 153 | 8.8 | 191 | 9.2 | 229 | 21.3 | 267 | 33.6 |
| 154 | 8.5 | 192 | 5.9 | 230 | 21.4 | 268 | 33.6 |
| 155 | 8.3 | 193 | 2.5 | 231 | 21.7 | 269 | 34.2 |
| 156 | 8.9 | 194 | 0.0 | 232 | 22.6 | 270 | 34.0 |
| 157 | 8.9 | 195 | 0.0 | 233 | 22.5 | 271 | 33.8 |
| 158 | 9.0 | 196 | 0.0 | 234 | 23.2 | 272 | 33.7 |
| 159 | 9.1 | 197 | 0.0 | 235 | 21.4 | 273 | 33.2 |
| 160 | 8.7 | 198 | 0.0 | 236 | 23.2 | 274 | 30.9 |
| 161 | 7.2 | 199 | 0.0 | 237 | 23.3 | 275 | 29.5 |
| 162 | 7.4 | 200 | 0.0 | 238 | 23.9 | 276 | 27.6 |
| 163 | 8.9 | 201 | 0.0 | 239 | 25.9 | 277 | 26.7 |
| 164 | 9.4 | 202 | 0.0 | 240 | 26.5 | 278 | 26.3 |
| 165 | 9.8 | 203 | 0.0 | 241 | 27.5 | 279 | 25.3 |
| 166 | 10.2 | 204 | 0.0 | 242 | 27.9 | 280 | 24.2 |
| 167 | 10.0 | 205 | 0.0 | 243 | 27.7 | 281 | 22.1 |
| 168 | 10.6 | 206 | 0.0 | 244 | 28.3 | 282 | 20.4 |
| 169 | 10.8 | 207 | 3.6 | 245 | 28.7 | 283 | 18.7 |
| 170 | 10.9 | 208 | 5.5 | 246 | 28.5 | 284 | 17.0 |
| 171 | 10.9 | 209 | 6.5 | 247 | 28.5 | 285 | 16.1 |
| 172 | 11.1 | 210 | 7.7 | 248 | 28.0 | 286 | 15.0 |
| 173 | 11.5 | 211 | 8.5 | 249 | 28.6 | 287 | 14.1 |
| 174 | 11.5 | 212 | 8.5 | 250 | 28.8 | 288 | 12.7 |
| 175 | 11.3 | 213 | 8.5 | 251 | 28.7 | 289 | 11.7 |
| 176 | 9.9 | 214 | 9.1 | 252 | 28.8 | 290 | 10.5 |
| 177 | 10.6 | 215 | 10.0 | 253 | 28.9 | 291 | 10.0 |
| 178 | 10.3 | 216 | 11.3 | 254 | 28.7 | 292 | 9.4 |
| 179 | 10.5 | 217 | 12.1 | 255 | 29.0 | 293 | 8.9 |
| 180 | 10.5 | 218 | 14.1 | 256 | 29.8 | 294 | 7.6 |
| 181 | 11.7 | 219 | 14.1 | 257 | 30.3 | 295 | 4.5 |
| 182 | 11.6 | 220 | 15.0 | 258 | 30.6 | 296 | 2.9 |
| 183 | 11.7 | 221 | 15.7 | 259 | 30.9 | 297 | 1.2 |
| 184 | 11.7 | 222 | 16.8 | 260 | 31.7 | 298 | 0.5 |
| 185 | 12.3 | 223 | 17.3 | 261 | 32.1 | 299 | 0.0 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 300 | 0.0 | 338 | 19.0 | 376 | 30.5 | 414 | 37.5 |
| 301 | 0.0 | 339 | 19.6 | 377 | 29.5 | 415 | 36.7 |
| 302 | 0.0 | 340 | 21.0 | 378 | 28.8 | 416 | 37.0 |
| 303 | 0.0 | 341 | 22.5 | 379 | 27.9 | 417 | 36.8 |
| 304 | 0.0 | 342 | 23.9 | 380 | 27.6 | 418 | 36.2 |
| 305 | 0.0 | 343 | 25.3 | 381 | 26.9 | 419 | 36.1 |
| 306 | 0.0 | 344 | 26.4 | 382 | 27.4 | 420 | 35.8 |
| 307 | 0.0 | 345 | 26.9 | 383 | 28.9 | 421 | 34.7 |
| 308 | 0.0 | 346 | 27.9 | 384 | 30.0 | 422 | 33.7 |
| 309 | 0.0 | 347 | 28.5 | 385 | 30.9 | 423 | 33.0 |
| 310 | 0.0 | 348 | 30.0 | 386 | 31.8 | 424 | 31.9 |
| 311 | 0.0 | 349 | 31.1 | 387 | 33.2 | 425 | 30.2 |
| 312 | 0.0 | 350 | 32.2 | 388 | 34.1 | 426 | 29.5 |
| 313 | 0.0 | 351 | 32.7 | 389 | 35.8 | 427 | 28.7 |
| 314 | 0.0 | 352 | 33.4 | 390 | 36.6 | 428 | 28.0 |
| 315 | 0.0 | 353 | 34.1 | 391 | 37.1 | 429 | 27.4 |
| 316 | 0.7 | 354 | 34.6 | 392 | 37.7 | 430 | 27.1 |
| 317 | 1.4 | 355 | 34.7 | 393 | 38.3 | 431 | 27.0 |
| 318 | 5.7 | 356 | 34.9 | 394 | 38.8 | 432 | 26.7 |
| 319 | 6.1 | 357 | 35.0 | 395 | 39.4 | 433 | 24.6 |
| 320 | 6.3 | 358 | 35.1 | 396 | 39.8 | 434 | 20.8 |
| 321 | 7.0 | 359 | 35.2 | 397 | 40.4 | 435 | 20.2 |
| 322 | 8.2 | 360 | 34.6 | 398 | 40.3 | 436 | 19.5 |
| 323 | 9.5 | 361 | 35.0 | 399 | 40.7 | 437 | 18.0 |
| 324 | 9.4 | 362 | 35.6 | 400 | 41.0 | 438 | 15.3 |
| 325 | 10.1 | 363 | 36.1 | 401 | 41.2 | 439 | 14.9 |
| 326 | 10.8 | 364 | 36.6 | 402 | 41.9 | 440 | 13.7 |
| 327 | 12.1 | 365 | 36.8 | 403 | 42.2 | 441 | 13.9 |
| 328 | 11.2 | 366 | 37.0 | 404 | 42.0 | 442 | 9.8 |
| 329 | 13.0 | 367 | 37.0 | 405 | 42.1 | 443 | 7.1 |
| 330 | 14.3 | 368 | 37.0 | 406 | 41.8 | 444 | 5.2 |
| 331 | 14.2 | 369 | 36.6 | 407 | 41.6 | 445 | 5.2 |
| 332 | 13.5 | 370 | 36.3 | 408 | 40.8 | 446 | 5.1 |
| 333 | 14.3 | 371 | 36.0 | 409 | 40.2 | 447 | 5.0 |
| 334 | 15.6 | 372 | 35.0 | 410 | 39.8 | 448 | 1.9 |
| 335 | 16.9 | 373 | 34.0 | 411 | 38.7 | 449 | 0.0 |
| 336 | 16.6 | 374 | 33.2 | 412 | 38.4 | 450 | 0.0 |
| 337 | 18.0 | 375 | 32.3 | 413 | 37.9 | 451 | 0.0 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 452 | 0.0 | 490 | 12.7 | 528 | 35.3 | 566 | 23.5 |
| 453 | 0.0 | 491 | 12.5 | 529 | 35.6 | 567 | 20.8 |
| 454 | 0.0 | 492 | 13.1 | 530 | 35.8 | 568 | 19.7 |
| 455 | 0.0 | 493 | 13.0 | 531 | 36.2 | 569 | 18.8 |
| 456 | 0.0 | 494 | 13.7 | 532 | 36.9 | 570 | 18.2 |
| 457 | 0.0 | 495 | 15.0 | 533 | 37.5 | 571 | 16.5 |
| 458 | 0.0 | 496 | 15.2 | 534 | 38.2 | 572 | 17.1 |
| 459 | 0.0 | 497 | 15.1 | 535 | 38.4 | 573 | 16.2 |
| 460 | 0.0 | 498 | 16.2 | 536 | 39.1 | 574 | 15.9 |
| 461 | 0.0 | 499 | 17.6 | 537 | 39.8 | 575 | 15.7 |
| 462 | 0.0 | 500 | 18.9 | 538 | 40.2 | 576 | 15.5 |
| 463 | 0.0 | 501 | 20.9 | 539 | 39.7 | 577 | 15.5 |
| 464 | 0.0 | 502 | 22.2 | 540 | 39.7 | 578 | 15.4 |
| 465 | 0.0 | 503 | 23.4 | 541 | 39.2 | 579 | 15.2 |
| 466 | 0.0 | 504 | 24.6 | 542 | 39.3 | 580 | 15.5 |
| 467 | 0.0 | 505 | 24.9 | 543 | 40.5 | 581 | 15.1 |
| 468 | 0.0 | 506 | 25.5 | 544 | 38.9 | 582 | 15.2 |
| 469 | 0.0 | 507 | 27.4 | 545 | 37.1 | 583 | 15.2 |
| 470 | 0.0 | 508 | 29.1 | 546 | 33.6 | 584 | 15.1 |
| 471 | 0.0 | 509 | 29.8 | 547 | 32.1 | 585 | 15.3 |
| 472 | 0.0 | 510 | 30.5 | 548 | 31.0 | 586 | 15.4 |
| 473 | 0.0 | 511 | 30.6 | 549 | 30.5 | 587 | 15.6 |
| 474 | 0.6 | 512 | 30.9 | 550 | 30.5 | 588 | 15.8 |
| 475 | 3.8 | 513 | 31.3 | 551 | 28.5 | 589 | 15.8 |
| 476 | 3.5 | 514 | 30.9 | 552 | 27.9 | 590 | 16.0 |
| 477 | 3.5 | 515 | 31.0 | 553 | 28.0 | 591 | 16.5 |
| 478 | 5.7 | 516 | 30.3 | 554 | 27.7 | 592 | 16.6 |
| 479 | 5.8 | 517 | 29.7 | 555 | 27.5 | 593 | 17.2 |
| 480 | 5.2 | 518 | 29.1 | 556 | 27.4 | 594 | 17.4 |
| 481 | 4.1 | 519 | 28.7 | 557 | 27.4 | 595 | 17.4 |
| 482 | 3.6 | 520 | 28.2 | 558 | 27.3 | 596 | 17.9 |
| 483 | 3.9 | 521 | 28.8 | 559 | 27.2 | 597 | 17.9 |
| 484 | 6.1 | 522 | 29.7 | 560 | 27.1 | 598 | 18.0 |
| 485 | 9.2 | 523 | 30.6 | 561 | 27.2 | 599 | 18.3 |
| 486 | 10.1 | 524 | 31.3 | 562 | 27.2 | 600 | 18.6 |
| 487 | 11.3 | 525 | 32.2 | 563 | 25.9 | 601 | 18.9 |
| 488 | 12.7 | 526 | 34.2 | 564 | 25.4 | 602 | 19.6 |
| 489 | 12.4 | 527 | 34.9 | 565 | 24.1 | 603 | 19.9 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 604 | 20.3 | 642 | 48.6 | 680 | 57.4 | 718 | 69.4 |
| 605 | 20.5 | 643 | 48.4 | 681 | 58.0 | 719 | 68.2 |
| 606 | 20.9 | 644 | 48.7 | 682 | 57.4 | 720 | 67.4 |
| 607 | 21.7 | 645 | 49.0 | 683 | 58.0 | 721 | 66.6 |
| 608 | 22.2 | 646 | 49.4 | 684 | 59.3 | 722 | 65.8 |
| 609 | 22.4 | 647 | 50.1 | 685 | 60.3 | 723 | 65.1 |
| 610 | 23.9 | 648 | 50.7 | 686 | 61.3 | 724 | 65.8 |
| 611 | 24.4 | 649 | 51.1 | 687 | 62.5 | 725 | 66.5 |
| 612 | 26.1 | 650 | 51.4 | 688 | 63.2 | 726 | 67.1 |
| 613 | 27.5 | 651 | 51.9 | 689 | 63.6 | 727 | 68.0 |
| 614 | 28.8 | 652 | 52.4 | 690 | 64.0 | 728 | 68.9 |
| 615 | 30.3 | 653 | 52.1 | 691 | 64.2 | 729 | 69.8 |
| 616 | 32.7 | 654 | 52.1 | 692 | 63.4 | 730 | 70.7 |
| 617 | 34.7 | 655 | 52.2 | 693 | 63.0 | 731 | 71.4 |
| 618 | 36.9 | 656 | 52.3 | 694 | 62.2 | 732 | 72.0 |
| 619 | 37.1 | 657 | 52.3 | 695 | 62.3 | 733 | 72.1 |
| 620 | 39.4 | 658 | 51.5 | 696 | 62.6 | 734 | 72.6 |
| 621 | 41.6 | 659 | 51.2 | 697 | 63.6 | 735 | 72.6 |
| 622 | 41.9 | 660 | 50.6 | 698 | 64.0 | 736 | 72.5 |
| 623 | 42.1 | 661 | 50.5 | 699 | 64.5 | 737 | 72.8 |
| 624 | 42.4 | 662 | 50.3 | 700 | 65.0 | 738 | 73.4 |
| 625 | 42.4 | 663 | 50.4 | 701 | 65.7 | 739 | 74.0 |
| 626 | 42.5 | 664 | 50.5 | 702 | 66.5 | 740 | 74.5 |
| 627 | 42.5 | 665 | 50.5 | 703 | 67.3 | 741 | 74.6 |
| 628 | 42.4 | 666 | 50.8 | 704 | 68.1 | 742 | 74.8 |
| 629 | 43.2 | 667 | 51.2 | 705 | 68.4 | 743 | 75.1 |
| 630 | 43.4 | 668 | 51.4 | 706 | 69.1 | 744 | 74.8 |
| 631 | 43.7 | 669 | 51.5 | 707 | 69.5 | 745 | 74.5 |
| 632 | 45.6 | 670 | 52.3 | 708 | 70.0 | 746 | 74.4 |
| 633 | 46.3 | 671 | 52.9 | 709 | 70.7 | 747 | 74.0 |
| 634 | 46.8 | 672 | 54.5 | 710 | 71.1 | 748 | 73.7 |
| 635 | 47.5 | 673 | 55.5 | 711 | 71.1 | 749 | 73.4 |
| 636 | 48.5 | 674 | 55.8 | 712 | 71.8 | 750 | 72.9 |
| 637 | 49.4 | 675 | 55.5 | 713 | 71.9 | 751 | 72.8 |
| 638 | 49.2 | 676 | 56.1 | 714 | 71.8 | 752 | 72.4 |
| 639 | 48.8 | 677 | 56.2 | 715 | 71.5 | 753 | 72.0 |
| 640 | 48.9 | 678 | 56.9 | 716 | 70.7 | 754 | 71.6 |
| 641 | 49.2 | 679 | 56.9 | 717 | 69.8 | 755 | 71.5 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 756 | 71.1 | 794 | 68.3 | 832 | 62.2 | 870 | 58.4 |
| 757 | 71.1 | 795 | 68.5 | 833 | 62.4 | 871 | 58.4 |
| 758 | 71.1 | 796 | 68.4 | 834 | 62.4 | 872 | 58.5 |
| 759 | 70.8 | 797 | 68.5 | 835 | 62.5 | 873 | 59.2 |
| 760 | 70.5 | 798 | 68.9 | 836 | 62.3 | 874 | 59.6 |
| 761 | 70.3 | 799 | 68.8 | 837 | 61.9 | 875 | 59.8 |
| 762 | 70.1 | 800 | 69.0 | 838 | 61.9 | 876 | 60.0 |
| 763 | 69.9 | 801 | 69.0 | 839 | 61.4 | 877 | 60.2 |
| 764 | 69.9 | 802 | 69.0 | 840 | 61.1 | 878 | 60.6 |
| 765 | 69.8 | 803 | 69.2 | 841 | 60.8 | 879 | 60.8 |
| 766 | 69.7 | 804 | 69.0 | 842 | 60.6 | 880 | 60.9 |
| 767 | 69.7 | 805 | 68.9 | 843 | 60.7 | 881 | 61.3 |
| 768 | 69.2 | 806 | 68.8 | 844 | 61.4 | 882 | 61.5 |
| 769 | 68.6 | 807 | 68.0 | 845 | 61.2 | 883 | 61.8 |
| 770 | 67.8 | 808 | 68.1 | 846 | 60.8 | 884 | 62.0 |
| 771 | 67.2 | 809 | 68.3 | 847 | 60.6 | 885 | 62.1 |
| 772 | 66.7 | 810 | 68.1 | 848 | 60.2 | 886 | 61.8 |
| 773 | 66.1 | 811 | 68.3 | 849 | 60.1 | 887 | 61.0 |
| 774 | 65.6 | 812 | 68.1 | 850 | 59.8 | 888 | 60.5 |
| 775 | 65.0 | 813 | 68.1 | 851 | 59.6 | 889 | 59.9 |
| 776 | 64.7 | 814 | 67.8 | 852 | 59.3 | 890 | 59.3 |
| 777 | 64.9 | 815 | 67.6 | 853 | 59.2 | 891 | 58.8 |
| 778 | 64.9 | 816 | 67.6 | 854 | 59.0 | 892 | 58.1 |
| 779 | 65.4 | 817 | 67.3 | 855 | 58.9 | 893 | 57.3 |
| 780 | 65.9 | 818 | 67.2 | 856 | 58.8 | 894 | 56.9 |
| 781 | 66.2 | 819 | 67.0 | 857 | 58.9 | 895 | 56.2 |
| 782 | 66.3 | 820 | 66.7 | 858 | 58.9 | 896 | 55.2 |
| 783 | 66.5 | 821 | 66.1 | 859 | 58.9 | 897 | 54.6 |
| 784 | 67.0 | 822 | 65.5 | 860 | 59.0 | 898 | 54.0 |
| 785 | 67.3 | 823 | 64.6 | 861 | 59.1 | 899 | 53.8 |
| 786 | 67.2 | 824 | 64.0 | 862 | 59.1 | 900 | 53.5 |
| 787 | 67.4 | 825 | 63.3 | 863 | 59.0 | 901 | 53.3 |
| 788 | 67.4 | 826 | 62.9 | 864 | 59.3 | 902 | 53.2 |
| 789 | 67.9 | 827 | 62.6 | 865 | 58.7 | 903 | 53.3 |
| 790 | 68.0 | 828 | 63.2 | 866 | 58.8 | 904 | 53.4 |
| 791 | 68.2 | 829 | 62.4 | 867 | 58.5 | 905 | 53.5 |
| 792 | 67.7 | 830 | 62.1 | 868 | 58.4 | 906 | 53.8 |
| 793 | 67.8 | 831 | 62.1 | 869 | 58.4 | 907 | 54.1 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 908 | 54.1 | 946 | 36.8 | 984 | 0.0 | 1022 | 9.6 |
| 909 | 54.2 | 947 | 34.7 | 985 | 0.0 | 1023 | 10.3 |
| 910 | 53.8 | 948 | 33.7 | 986 | 0.0 | 1024 | 10.2 |
| 911 | 53.2 | 949 | 32.8 | 987 | 0.0 | 1025 | 9.6 |
| 912 | 52.4 | 950 | 30.2 | 988 | 0.0 | 1026 | 13.5 |
| 913 | 53.0 | 951 | 26.8 | 989 | 0.0 | 1027 | 15.3 |
| 914 | 52.0 | 952 | 23.1 | 990 | 0.0 | 1028 | 13.9 |
| 915 | 53.0 | 953 | 20.2 | 991 | 0.0 | 1029 | 13.1 |
| 916 | 53.7 | 954 | 20.1 | 992 | 0.0 | 1030 | 15.5 |
| 917 | 54.1 | 955 | 19.6 | 993 | 0.0 | 1031 | 18.2 |
| 918 | 54.5 | 956 | 19.3 | 994 | 0.0 | 1032 | 20.7 |
| 919 | 55.2 | 957 | 16.7 | 995 | 0.0 | 1033 | 23.6 |
| 920 | 55.9 | 958 | 16.4 | 996 | 0.0 | 1034 | 26.5 |
| 921 | 54.4 | 959 | 16.2 | 997 | 0.0 | 1035 | 28.7 |
| 922 | 54.1 | 960 | 15.6 | 998 | 0.0 | 1036 | 29.2 |
| 923 | 54.0 | 961 | 15.7 | 999 | 0.0 | 1037 | 31.1 |
| 924 | 54.6 | 962 | 15.0 | 1000 | 0.0 | 1038 | 33.4 |
| 925 | 55.4 | 963 | 14.5 | 1001 | 0.0 | 1039 | 35.6 |
| 926 | 56.5 | 964 | 15.0 | 1002 | 0.0 | 1040 | 37.4 |
| 927 | 57.4 | 965 | 15.5 | 1003 | 0.0 | 1041 | 39.0 |
| 928 | 58.3 | 966 | 17.3 | 1004 | 0.0 | 1042 | 40.4 |
| 929 | 59.1 | 967 | 16.5 | 1005 | 0.0 | 1043 | 41.9 |
| 930 | 59.3 | 968 | 15.6 | 1006 | 0.9 | 1044 | 43.3 |
| 931 | 59.8 | 969 | 14.3 | 1007 | 2.6 | 1045 | 44.4 |
| 932 | 60.1 | 970 | 13.3 | 1008 | 4.8 | 1046 | 45.7 |
| 933 | 59.4 | 971 | 10.8 | 1009 | 5.4 | 1047 | 46.6 |
| 934 | 58.7 | 972 | 9.3 | 1010 | 5.7 | 1048 | 48.2 |
| 935 | 57.1 | 973 | 5.6 | 1011 | 6.0 | 1049 | 49.5 |
| 936 | 56.4 | 974 | 5.5 | 1012 | 7.5 | 1050 | 50.3 |
| 937 | 55.7 | 975 | 3.1 | 1013 | 7.6 | 1051 | 51.2 |
| 938 | 53.9 | 976 | 1.3 | 1014 | 6.5 | 1052 | 51.6 |
| 939 | 49.5 | 977 | 0.8 | 1015 | 5.2 | 1053 | 52.4 |
| 940 | 46.4 | 978 | 1.2 | 1016 | 4.9 | 1054 | 53.4 |
| 941 | 42.5 | 979 | 1.0 | 1017 | 4.7 | 1055 | 54.2 |
| 942 | 40.8 | 980 | 1.5 | 1018 | 6.1 | 1056 | 54.9 |
| 943 | 40.1 | 981 | 0.9 | 1019 | 6.7 | 1057 | 55.7 |
| 944 | 38.0 | 982 | 0.0 | 1020 | 7.8 | 1058 | 56.7 |
| 945 | 37.3 | 983 | 0.0 | 1021 | 9.3 | 1059 | 58.1 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1060 | 59.2 | 1098 | 75.7 | 1136 | 83.8 | 1174 | 85.3 |
| 1061 | 60.4 | 1099 | 75.1 | 1137 | 84.2 | 1175 | 85.3 |
| 1062 | 61.7 | 1100 | 75.4 | 1138 | 84.6 | 1176 | 85.5 |
| 1063 | 62.9 | 1101 | 75.9 | 1139 | 84.4 | 1177 | 85.6 |
| 1064 | 64.1 | 1102 | 76.3 | 1140 | 85.0 | 1178 | 85.4 |
| 1065 | 65.3 | 1103 | 76.8 | 1141 | 85.4 | 1179 | 85.5 |
| 1066 | 66.3 | 1104 | 77.2 | 1142 | 85.9 | 1180 | 85.4 |
| 1067 | 67.2 | 1105 | 77.8 | 1143 | 86.0 | 1181 | 85.5 |
| 1068 | 67.9 | 1106 | 78.2 | 1144 | 86.1 | 1182 | 85.6 |
| 1069 | 68.5 | 1107 | 78.6 | 1145 | 86.1 | 1183 | 85.0 |
| 1070 | 69.0 | 1108 | 79.0 | 1146 | 86.1 | 1184 | 84.9 |
| 1071 | 69.4 | 1109 | 79.5 | 1147 | 86.1 | 1185 | 84.8 |
| 1072 | 69.2 | 1110 | 79.9 | 1148 | 86.4 | 1186 | 84.8 |
| 1073 | 69.0 | 1111 | 80.5 | 1149 | 86.4 | 1187 | 84.5 |
| 1074 | 69.6 | 1112 | 79.9 | 1150 | 86.5 | 1188 | 84.1 |
| 1075 | 70.2 | 1113 | 80.3 | 1151 | 86.4 | 1189 | 83.8 |
| 1076 | 70.0 | 1114 | 80.9 | 1152 | 86.4 | 1190 | 83.6 |
| 1077 | 69.3 | 1115 | 81.4 | 1153 | 86.5 | 1191 | 83.5 |
| 1078 | 69.1 | 1116 | 82.0 | 1154 | 86.6 | 1192 | 83.4 |
| 1079 | 68.1 | 1117 | 82.5 | 1155 | 86.7 | 1193 | 83.5 |
| 1080 | 67.6 | 1118 | 82.9 | 1156 | 86.8 | 1194 | 83.6 |
| 1081 | 67.0 | 1119 | 83.0 | 1157 | 86.7 | 1195 | 83.6 |
| 1082 | 67.6 | 1120 | 82.8 | 1158 | 86.6 | 1196 | 83.8 |
| 1083 | 67.9 | 1121 | 82.7 | 1159 | 86.6 | 1197 | 83.9 |
| 1084 | 68.4 | 1122 | 82.7 | 1160 | 86.6 | 1198 | 84.0 |
| 1085 | 68.8 | 1123 | 82.7 | 1161 | 86.7 | 1199 | 84.0 |
| 1086 | 69.2 | 1124 | 82.7 | 1162 | 86.7 | 1200 | 84.0 |
| 1087 | 69.6 | 1125 | 82.8 | 1163 | 86.7 | 1201 | 84.2 |
| 1088 | 70.1 | 1126 | 82.9 | 1164 | 86.7 | 1202 | 84.1 |
| 1089 | 70.6 | 1127 | 82.9 | 1165 | 86.5 | 1203 | 84.3 |
| 1090 | 71.1 | 1128 | 83.0 | 1166 | 86.2 | 1204 | 84.3 |
| 1091 | 72.0 | 1129 | 83.0 | 1167 | 86.2 | 1205 | 84.1 |
| 1092 | 72.5 | 1130 | 83.2 | 1168 | 86.0 | 1206 | 84.2 |
| 1093 | 73.3 | 1131 | 83.5 | 1169 | 85.8 | 1207 | 84.2 |
| 1094 | 74.2 | 1132 | 83.6 | 1170 | 85.5 | 1208 | 84.1 |
| 1095 | 74.8 | 1133 | 83.8 | 1171 | 85.5 | 1209 | 84.0 |
| 1096 | 75.3 | 1134 | 83.8 | 1172 | 85.1 | 1210 | 84.0 |
| 1097 | 76.1 | 1135 | 84.0 | 1173 | 85.0 | 1211 | 84.0 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1212 | 84.0 | 1250 | 87.0 | 1288 | 83.0 | 1326 | 86.4 |
| 1213 | 83.9 | 1251 | 87.0 | 1289 | 83.3 | 1327 | 86.6 |
| 1214 | 84.0 | 1252 | 87.0 | 1290 | 83.0 | 1328 | 86.7 |
| 1215 | 84.1 | 1253 | 86.6 | 1291 | 82.8 | 1329 | 86.8 |
| 1216 | 84.2 | 1254 | 86.3 | 1292 | 82.4 | 1330 | 87.1 |
| 1217 | 84.2 | 1255 | 86.2 | 1293 | 82.7 | 1331 | 87.4 |
| 1218 | 84.2 | 1256 | 86.1 | 1294 | 82.9 | 1332 | 87.6 |
| 1219 | 84.1 | 1257 | 86.1 | 1295 | 82.9 | 1333 | 87.7 |
| 1220 | 84.0 | 1258 | 86.1 | 1296 | 83.2 | 1334 | 87.9 |
| 1221 | 84.0 | 1259 | 86.1 | 1297 | 83.2 | 1335 | 88.0 |
| 1222 | 84.1 | 1260 | 86.2 | 1298 | 83.5 | 1336 | 87.9 |
| 1223 | 84.1 | 1261 | 86.3 | 1299 | 83.8 | 1337 | 87.2 |
| 1224 | 84.0 | 1262 | 86.6 | 1300 | 83.9 | 1338 | 86.2 |
| 1225 | 84.2 | 1263 | 86.7 | 1301 | 84.2 | 1339 | 85.3 |
| 1226 | 84.0 | 1264 | 86.6 | 1302 | 84.4 | 1340 | 84.4 |
| 1227 | 84.4 | 1265 | 86.6 | 1303 | 84.5 | 1341 | 83.0 |
| 1228 | 84.7 | 1266 | 86.6 | 1304 | 84.8 | 1342 | 82.7 |
| 1229 | 84.6 | 1267 | 86.2 | 1305 | 84.9 | 1343 | 82.6 |
| 1230 | 84.8 | 1268 | 86.1 | 1306 | 85.0 | 1344 | 82.4 |
| 1231 | 85.1 | 1269 | 86.3 | 1307 | 84.9 | 1345 | 81.8 |
| 1232 | 85.0 | 1270 | 86.1 | 1308 | 84.8 | 1346 | 80.2 |
| 1233 | 85.0 | 1271 | 86.1 | 1309 | 84.9 | 1347 | 78.8 |
| 1234 | 85.3 | 1272 | 86.1 | 1310 | 84.9 | 1348 | 77.4 |
| 1235 | 85.0 | 1273 | 86.5 | 1311 | 84.8 | 1349 | 74.7 |
| 1236 | 85.2 | 1274 | 86.4 | 1312 | 85.0 | 1350 | 73.5 |
| 1237 | 85.1 | 1275 | 86.6 | 1313 | 85.0 | 1351 | 70.6 |
| 1238 | 85.1 | 1276 | 86.7 | 1314 | 85.3 | 1352 | 69.6 |
| 1239 | 85.3 | 1277 | 86.2 | 1315 | 85.4 | 1353 | 68.0 |
| 1240 | 85.6 | 1278 | 85.1 | 1316 | 85.6 | 1354 | 68.4 |
| 1241 | 85.7 | 1279 | 83.9 | 1317 | 85.7 | 1355 | 67.0 |
| 1242 | 86.0 | 1280 | 83.3 | 1318 | 86.0 | 1356 | 66.7 |
| 1243 | 86.2 | 1281 | 83.1 | 1319 | 86.1 | 1357 | 66.6 |
| 1244 | 86.4 | 1282 | 83.0 | 1320 | 86.4 | 1358 | 66.4 |
| 1245 | 86.6 | 1283 | 83.2 | 1321 | 86.6 | 1359 | 65.8 |
| 1246 | 86.7 | 1284 | 82.7 | 1322 | 86.2 | 1360 | 64.2 |
| 1247 | 86.9 | 1285 | 82.9 | 1323 | 86.1 | 1361 | 62.8 |
| 1248 | 86.9 | 1286 | 83.2 | 1324 | 85.8 | 1362 | 61.4 |
| 1249 | 86.9 | 1287 | 83.3 | 1325 | 86.2 | 1363 | 58.7 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1364 | 58.5 | 1402 | 66.7 | 1440 | 65.6 | 1478 | 65.5 |
| 1365 | 59.6 | 1403 | 67.1 | 1441 | 66.7 | 1479 | 66.2 |
| 1366 | 60.3 | 1404 | 67.9 | 1442 | 67.8 | 1480 | 66.5 |
| 1367 | 61.5 | 1405 | 68.7 | 1443 | 68.7 | 1481 | 66.7 |
| 1368 | 62.8 | 1406 | 69.5 | 1444 | 69.6 | 1482 | 67.4 |
| 1369 | 63.6 | 1407 | 70.1 | 1445 | 70.1 | 1483 | 67.9 |
| 1370 | 64.5 | 1408 | 70.8 | 1446 | 70.3 | 1484 | 68.3 |
| 1371 | 65.3 | 1409 | 71.4 | 1447 | 70.2 | 1485 | 69.3 |
| 1372 | 66.1 | 1410 | 72.0 | 1448 | 70.0 | 1486 | 70.0 |
| 1373 | 67.0 | 1411 | 72.5 | 1449 | 70.2 | 1487 | 70.4 |
| 1374 | 67.5 | 1412 | 72.5 | 1450 | 70.4 | 1488 | 70.8 |
| 1375 | 67.6 | 1413 | 72.6 | 1451 | 70.3 | 1489 | 71.2 |
| 1376 | 67.5 | 1414 | 72.8 | 1452 | 69.8 | 1490 | 71.5 |
| 1377 | 67.5 | 1415 | 72.9 | 1453 | 70.1 | 1491 | 71.7 |
| 1378 | 67.6 | 1416 | 72.9 | 1454 | 70.2 | 1492 | 71.2 |
| 1379 | 67.5 | 1417 | 72.8 | 1455 | 70.4 | 1493 | 70.3 |
| 1380 | 67.5 | 1418 | 72.6 | 1456 | 70.6 | 1494 | 69.4 |
| 1381 | 67.5 | 1419 | 72.2 | 1457 | 71.1 | 1495 | 68.6 |
| 1382 | 67.6 | 1420 | 70.8 | 1458 | 72.0 | 1496 | 67.7 |
| 1383 | 67.5 | 1421 | 69.8 | 1459 | 68.9 | 1497 | 67.3 |
| 1384 | 67.4 | 1422 | 68.5 | 1460 | 67.2 | 1498 | 67.4 |
| 1385 | 67.2 | 1423 | 67.4 | 1461 | 65.6 | 1499 | 68.2 |
| 1386 | 66.8 | 1424 | 66.2 | 1462 | 65.0 | 1500 | 68.3 |
| 1387 | 67.1 | 1425 | 65.2 | 1463 | 64.4 | 1501 | 68.6 |
| 1388 | 67.1 | 1426 | 64.3 | 1464 | 63.7 | 1502 | 69.0 |
| 1389 | 67.2 | 1427 | 63.3 | 1465 | 62.8 | 1503 | 69.1 |
| 1390 | 67.3 | 1428 | 62.4 | 1466 | 64.0 | 1504 | 69.3 |
| 1391 | 67.3 | 1429 | 62.0 | 1467 | 65.1 | 1505 | 69.6 |
| 1392 | 67.1 | 1430 | 61.5 | 1468 | 65.9 | 1506 | 69.6 |
| 1393 | 67.3 | 1431 | 61.5 | 1469 | 65.9 | 1507 | 69.5 |
| 1394 | 67.2 | 1432 | 61.5 | 1470 | 65.8 | 1508 | 69.7 |
| 1395 | 67.1 | 1433 | 61.6 | 1471 | 65.9 | 1509 | 69.7 |
| 1396 | 66.8 | 1434 | 61.8 | 1472 | 65.7 | 1510 | 69.9 |
| 1397 | 67.2 | 1435 | 62.3 | 1473 | 65.5 | 1511 | 70.3 |
| 1398 | 67.0 | 1436 | 62.0 | 1474 | 65.3 | 1512 | 70.7 |
| 1399 | 67.1 | 1437 | 62.7 | 1475 | 65.3 | 1513 | 70.8 |
| 1400 | 67.1 | 1438 | 63.6 | 1476 | 65.3 | 1514 | 70.5 |
| 1401 | 67.0 | 1439 | 64.5 | 1477 | 64.9 | 1515 | 71.0 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1516 | 70.9 | 1554 | 70.1 | 1592 | 69.5 | 1630 | 68.7 |
| 1517 | 71.2 | 1555 | 70.0 | 1593 | 68.8 | 1631 | 68.8 |
| 1518 | 70.9 | 1556 | 70.0 | 1594 | 68.4 | 1632 | 68.6 |
| 1519 | 70.9 | 1557 | 69.9 | 1595 | 68.2 | 1633 | 68.5 |
| 1520 | 70.9 | 1558 | 69.9 | 1596 | 68.1 | 1634 | 68.4 |
| 1521 | 71.1 | 1559 | 69.9 | 1597 | 68.0 | 1635 | 69.3 |
| 1522 | 71.1 | 1560 | 70.1 | 1598 | 68.0 | 1636 | 69.9 |
| 1523 | 71.2 | 1561 | 70.1 | 1599 | 68.0 | 1637 | 70.1 |
| 1524 | 71.4 | 1562 | 70.1 | 1600 | 68.4 | 1638 | 70.2 |
| 1525 | 71.5 | 1563 | 70.3 | 1601 | 68.4 | 1639 | 70.5 |
| 1526 | 71.6 | 1564 | 70.1 | 1602 | 68.6 | 1640 | 70.3 |
| 1527 | 71.3 | 1565 | 70.1 | 1603 | 68.9 | 1641 | 70.4 |
| 1528 | 71.1 | 1566 | 70.1 | 1604 | 69.0 | 1642 | 70.5 |
| 1529 | 70.7 | 1567 | 70.0 | 1605 | 69.3 | 1643 | 70.6 |
| 1530 | 70.8 | 1568 | 70.3 | 1606 | 69.9 | 1644 | 71.0 |
| 1531 | 70.6 | 1569 | 70.2 | 1607 | 70.1 | 1645 | 71.2 |
| 1532 | 70.5 | 1570 | 70.1 | 1608 | 69.9 | 1646 | 71.2 |
| 1533 | 70.6 | 1571 | 70.1 | 1609 | 70.2 | 1647 | 71.4 |
| 1534 | 70.7 | 1572 | 70.3 | 1610 | 70.3 | 1648 | 71.7 |
| 1535 | 70.7 | 1573 | 70.3 | 1611 | 70.2 | 1649 | 71.7 |
| 1536 | 70.9 | 1574 | 70.4 | 1612 | 70.1 | 1650 | 71.9 |
| 1537 | 71.0 | 1575 | 70.3 | 1613 | 70.3 | 1651 | 71.9 |
| 1538 | 70.6 | 1576 | 70.4 | 1614 | 70.7 | 1652 | 72.1 |
| 1539 | 70.5 | 1577 | 70.5 | 1615 | 70.6 | 1653 | 72.0 |
| 1540 | 70.1 | 1578 | 70.3 | 1616 | 70.3 | 1654 | 71.9 |
| 1541 | 70.3 | 1579 | 70.8 | 1617 | 69.8 | 1655 | 71.7 |
| 1542 | 70.0 | 1580 | 70.9 | 1618 | 70.0 | 1656 | 71.6 |
| 1543 | 69.9 | 1581 | 71.1 | 1619 | 70.0 | 1657 | 71.4 |
| 1544 | 70.3 | 1582 | 71.0 | 1620 | 69.7 | 1658 | 70.9 |
| 1545 | 70.4 | 1583 | 71.1 | 1621 | 69.4 | 1659 | 70.8 |
| 1546 | 70.7 | 1584 | 71.2 | 1622 | 69.2 | 1660 | 71.0 |
| 1547 | 70.9 | 1585 | 70.7 | 1623 | 68.1 | 1661 | 71.1 |
| 1548 | 70.9 | 1586 | 70.4 | 1624 | 67.2 | 1662 | 71.6 |
| 1549 | 71.0 | 1587 | 70.1 | 1625 | 67.7 | 1663 | 71.6 |
| 1550 | 71.0 | 1588 | 69.9 | 1626 | 67.8 | 1664 | 71.0 |
| 1551 | 70.8 | 1589 | 69.7 | 1627 | 68.2 | 1665 | 71.1 |
| 1552 | 70.6 | 1590 | 69.4 | 1628 | 68.4 | 1666 | 71.2 |
| 1553 | 70.4 | 1591 | 69.9 | 1629 | 68.4 | 1667 | 71.1 |

表A.8　CHTC-TT工况数据（续）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） | 时间（s） | 速度（km/h） |
| 1668 | 70.8 | 1702 | 69.9 | 1736 | 51.9 | 1770 | 3.4 |
| 1669 | 70.9 | 1703 | 69.8 | 1737 | 52.6 | 1771 | 0.0 |
| 1670 | 71.0 | 1704 | 70.1 | 1738 | 54.3 | 1772 | 0.0 |
| 1671 | 71.0 | 1705 | 70.2 | 1739 | 54.7 | 1773 | 0.0 |
| 1672 | 71.1 | 1706 | 70.4 | 1740 | 55.3 | 1774 | 0.0 |
| 1673 | 71.3 | 1707 | 70.5 | 1741 | 56.3 | 1775 | 0.0 |
| 1674 | 71.3 | 1708 | 70.6 | 1742 | 56.5 | 1776 | 0.0 |
| 1675 | 71.4 | 1709 | 69.9 | 1743 | 56.8 | 1777 | 0.0 |
| 1676 | 71.0 | 1710 | 68.9 | 1744 | 56.2 | 1778 | 0.0 |
| 1677 | 71.0 | 1711 | 68.8 | 1745 | 55.1 | 1779 | 0.0 |
| 1678 | 70.8 | 1712 | 66.5 | 1746 | 54.2 | 1780 | 0.0 |
| 1679 | 70.5 | 1713 | 67.0 | 1747 | 52.8 | 1781 | 0.0 |
| 1680 | 70.4 | 1714 | 67.1 | 1748 | 52.8 | 1782 | 0.0 |
| 1681 | 70.2 | 1715 | 66.7 | 1749 | 52.1 | 1783 | 0.0 |
| 1682 | 69.9 | 1716 | 66.9 | 1750 | 51.5 | 1784 | 0.0 |
| 1683 | 69.5 | 1717 | 67.2 | 1751 | 49.1 | 1785 | 0.0 |
| 1684 | 69.2 | 1718 | 66.6 | 1752 | 46.8 | 1786 | 0.0 |
| 1685 | 68.8 | 1719 | 66.3 | 1753 | 43.5 | 1787 | 0.0 |
| 1686 | 68.4 | 1720 | 65.5 | 1754 | 39.7 | 1788 | 0.0 |
| 1687 | 68.0 | 1721 | 64.6 | 1755 | 36.1 | 1789 | 0.0 |
| 1688 | 67.1 | 1722 | 63.9 | 1756 | 32.2 | 1790 | 0.0 |
| 1689 | 67.1 | 1723 | 63.1 | 1757 | 28.8 | 1791 | 0.0 |
| 1690 | 67.0 | 1724 | 60.9 | 1758 | 25.6 | 1792 | 0.0 |
| 1691 | 66.9 | 1725 | 60.2 | 1759 | 22.8 | 1793 | 0.0 |
| 1692 | 67.2 | 1726 | 59.4 | 1760 | 20.9 | 1794 | 0.0 |
| 1693 | 67.8 | 1727 | 58.1 | 1761 | 16.5 | 1795 | 0.0 |
| 1694 | 68.0 | 1728 | 57.5 | 1762 | 15.2 | 1796 | 0.0 |
| 1695 | 68.1 | 1729 | 56.9 | 1763 | 14.4 | 1797 | 0.0 |
| 1696 | 68.4 | 1730 | 56.1 | 1764 | 14.3 | 1798 | 0.0 |
| 1697 | 68.8 | 1731 | 55.4 | 1765 | 14.0 | 1799 | 0.0 |
| 1698 | 69.0 | 1732 | 55.0 | 1766 | 12.0 | 1800 | 0.0 |
| 1699 | 69.4 | 1733 | 53.4 | 1767 | 9.6 |  |  |
| 1700 | 69.9 | 1734 | 52.4 | 1768 | 5.8 |  |  |
| 1701 | 69.8 | 1735 | 51.8 | 1769 | 4.9 |  |  |

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整车测试用典型工况

T/CSAE XX — 2019

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版本版次及印刷日期

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